### NATIONAL QUALITY FORUM

+ + + + +

### PEDIATRICS PERFORMANCE MEASURES COMMITTEE

+ + + + +

THURSDAY
MARCH 2, 2017

+ + + + +

The Pediatrics Performance Measures
Committee met at the National Quality Forum, 9th
Floor Conference Room, 1030 15th Street, N.W.,
Washington, D.C., at 8:00 a.m., John Brookey and
Jeffrey Susman, Co-Chairs, presiding.

### PRESENT:

JOHN BROOKEY, MD, FAAP, Co-Chair
JEFFREY SUSMAN, MD, Co-Chair
LAUREN AGORATUS, MA, Family Voices NJ \*
MARTHA BERGREN, DNS, RN, NCSN, APHN-BC, FNASN,
FASHA, FAAN, University of Illinois Chicago
JAMES BOST, MS, PhD, Children's Healthcare of
Atlanta

TARA BRISTOL-ROUSE, MA, Patient and Family Centered Care Partners

KAREN DORSEY, MD, PhD, Yale University School of Medicine

MAUREEN EDIGER, Children's Hospital Colorado DAVID EINZIG, MD, Children's Hospital and Clinics of Minnesota

DEBORAH FATTORI, MSN, RN, PPCNP-BC, Nemours Alfred I DuPont Hospital for Children

KERRI FEI, MSN, RN, Blue Cross Blue Shield Association

JONATHAN FINKELSTEIN, MD, MPH, Boston Children's Hospital

KAREN HARPSTER, PhD, OTR/L, Cincinnati

Children's Hospital Medical Center

AMY HOUTROW, MD, PhD, MPH, Children's Hospital of Pittsburgh

DAVID KELLER, MD, University of Colorado School of Medicine

KRAIG KNUDSEN, MD, Ohio Department of Mental Health and Addiction Services

SUSAN KONEK, MA, RD, CSP, FAND, Academy of Nutrition and Dietetics

MARLENE MILLER, MD, Msc, John's Hopkins Children's Center at JHHS \*

RAJIV MODAK, MD, El Rio Community Health Center JILL MORROW-GORTON, MD, University of Massachusetts Medical School

RICARDO QUINONEZ, MD, FAAP, Baylor College of Medicine

JEFF SCHIFF, MD, MBA, Minnesota Department of Human Services

CAROL STANLEY, MS, CPHQ, Duke University

NQF STAFF:

SHANTANU AGRAWAL, MD, President and CEO

HELEN BURSTIN, MD, MPH, Chief Scientific Officer

KAREN JOHNSON, Senior Director

MADISON JUNG, Project Analyst

KATE MCQUESTON, Project Manager

ELISA MUNTHALI, MPH, Vice President, Quality

Measurement

ROBYN NISHIMI, PhD, Consultant

SUZANNE THEBERGE, Senior Project Manager

MARCIA WILSON, PhD, MBA, Senior Vice President,

Quality Measurement

#### ALSO PRESENT:

KIMBERLY ARTHUR, MPH, Seattle Children's Research Institute

RENEE ELLEN FOX, MD, FAAP, Center for Medicare and Medicaid Services

NARAA GOMBOJAV, PhD, The Child and Adolescent Health Measurement Initiative \*

LAWRENCE KLEINMAN, MD, MPH, University Hospitals
Rainbow Babies and Children's Hospital \*

CHRISTOPHER LANDRIGAN, MD, MPH, Boston Children's Hospital, Harvard Medical School

SUZANNE LO, MPH, University Hospitals Rainbow Babies and Children's Hospital

RITA MANGIONE-SMITH, MD, MPH, Seattle Children's Research Institute

KAREN MATSUOKA, PhD, Center for Medicare and
Medicaid Services \*

SARAH REEVES, PhD, MPH, University of Michigan \* MARK SCHUSTER, MD, PhD, Boston Children's Hospital, Harvard Medical School

JEFFREY SILBER, MD, PhD, Children's Hospital of Philadelphia

MICHELLE SOLLOWAY, PhD, The Child and Adolescent Health Measurement Initiative \*

DAVID STOCKWELL, MD, MBA, Children's National Medical Center

SARA TOOMEY, MD, MPH, MPhil, Msc, Boston
Children's Hospital, Harvard Medical School

<sup>\*</sup> present by teleconference

# CONTENTS

Welcome and Opening Remarks 6
Opening Remarks from CMS
Introductions and Disclosure of Interest17
Project Introduction and Overview of
Consideration of Candidate Measures
3166: Antibiotic Prophylaxis Among Children with Sickle Cell Anemia
3136: GAPPS: Rate of Preventable Adverse Events
Per 1,000
3153: Continuity of Primary Care for Children
with Medical Complexity
NQF and Member Public Comment
3189: Rate of Emergency Department Visit Use for
Children Managed for Identifiable Asthma - Visits per 100 Child years
2816: Appropriateness of Emergency Department Visits for Children and Adolescents with
Identifiable Asthma 245
3154: Informed Coverage (Children's Hospital of
_ · · ·
Philadelphia)
3219: Anticipatory Guidance and Parental
3219: Anticipatory Guidance and Parental Education (Child and Adolescent Health
3219: Anticipatory Guidance and Parental Education (Child and Adolescent Health Measurement Initiative, Johns Hopkins Bloomberg

# CONTENTS

3222: Assessment of Family Alcohol Use, Substance		
Abuse and Safety 461		
3223: Assessment of Family Psychosocial		
Screening		
NQF and Member Public Comment 470		
Additional Discussion Topics 471		
Adjourn		

#### P-R-O-C-E-E-D-I-N-G-S

2

1

8:02 a.m.

4

3

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

Welcome to our one-day MS. MCQUESTON: meeting for National Consensus Standards for Pediatric Performance Measures. We are delighted to have you all here, and thank you so much for coming with this early start this morning.

Just a very few brief announcements from me before we begin. I am Kate McQueston. Ι am the Project Manager supporting this project. Restrooms, you will go out through the conference area and turn right. They are down the hallway. We will have a few breaks today; unfortunately, not too many. We are keeping you hard at work. We will have one at 10:45 -- or 10:15. have lunch at noon, and then another break at 3:30.

Our wireless information, so that everyone has it, you will use the NQF wifi network with the username guest, and the password is NQFguest, NQFguest, NQF in caps.

So we will go ahead and begin the

meeting, and we will begin by passing it off to NQF's new CEO, Dr. Shantanu Agrawal. Thank you.

DR. AGRAWAL: Thank you very much. So this is week five, day four, so I still get to be called new, I think, for quite some time. We will have to figure out how long. We will actually be convening a consensus panel to figure out how long I can be called new, because that's how we do it.

(Laughter.)

DR. AGRAWAL: Thank you very much for being here today. This is going to be a really full day, I know, but I just wanted to underscore the importance of the work. I think you are reviewing 11 measures today. That is going to add to a body of about 100 measures that have already been endorsed in the pediatrics space by NQF. The second phase of work for this committee, so again, just really extremely important.

I want to thank John and Jeff for their leadership of this committee. I also

wanted to just reinforce how personally important this was to me. You know, yes, we are here to improve the health and healthcare of the pediatric population, but I should also tell you that my wife is a pediatric hospitalist. She has made it very clear we need really good measures in pediatrics.

# (Laughter.)

DR. AGRAWAL: When -- when I got offered this job and had accepted it, literally, she said, you know, let's get to work. We need pediatric measures. So because I ascribe to the happy wife, happy life doctrine, please do a good job today.

# (Laughter.)

DR. AGRAWAL: I need to go home and report some good news.

No, so thank you very much. This is extremely vital. It has been great in the last five weeks to sit in on these committees, really see how they operate. The amount of expertise that we have here is incredible, and I thank you

1 for donating as much time as you do. Our work 2 would not be possible without the representation we have here and your willingness to participate 3 4 in this process. Thank you. 5 CO-CHAIR BROOKEY: Good morning, everybody. I am John Brookey. I recognize most 6 of you in the room. I feel like I was just here 7 8 like -- I walked in the room, and I was like I 9 have been here yesterday, but I wasn't. been over a year now since we were here. 10 11 So we are going to go ahead and -- are 12 we going to do the introductions of the whole 13 room later, or are we going to do it --14 MS. MCQUESTON: We will combine that with our --15 16 CO-CHAIR BROOKEY: A little later, 17 okay. 18 MS. MCQUESTON: -- our disclosure 19 after we do --So I will let Jeff 20 CO-CHAIR BROOKEY: 21 say hello. Then we're going to go to our opening remarks from CMS. 22

co-chair susman: So again, welcome to everybody. It is great to see everybody back, and a few new faces. This is a really exciting time I think for measurement and quality, and particularly in the pediatric space, where we probably have a dearth of measures available, so this should be a great meeting.

Just a couple of words about process. We have a hard time seeing people at the ends, so it will really help us, if you have questions or things to comment on, to put your cards up like this so that we know you want to say something. And I hope this is a really fun meeting. Don't be worried about disagreeing with each other, but do it nicely. Thank you.

CO-CHAIR BROOKEY: Okay. We are going to move to -- I believe that Karen and Renee are on the line, and they are going to -- is that -- oh, Renee is here, okay. Hi Renee.

DR. MATSUOKA: Yes, and this is Karen. Hi, everyone.

I wanted to take just a few minutes

just to welcome everyone to this meeting and also just to really thank you for making the time to be with us. We know how important your time is and how busy you are, so the fact that you are willing to lend us some of your time today is really important, so thank you very much.

And apologies for not being able to be there with you in person. It is by no means any indicator of how -- how important the work is because in fact, the reason why CMS decided to fund a call for measures specifically for pediatric performance measurement is an indication of how important we really do think this work really is.

it really does align and further our mission under CHIPRA to expand and update the portfolio of evidence-based pediatric measures available for public and private use. So the work that you will be doing today in terms of reviewing and potentially endorsing new measures that are going to become available for use not just in Medicaid

and CHIP, but to the commercial population as well, is so important.

And just to give you a sense for why it is so important to Medicaid and CHIP, you probably all know that Medicaid and CHIP serve over 70 million beneficiaries in this nation.

That is more than what Medicare and the marketplace combined cover. And of that total enrollment, over 51 percent of our enrollees are children. That is -- almost 40 million beneficiaries are children, and over 40 percent of births in this country are also covered by Medicaid.

And of course, on the CHIP side, where almost all of our beneficiaries are children, we serve a further 8.4 million kids. So having a robust slate of measures that we can use to really assess the extent to which we are providing evidence-based care to our kids is so vitally important.

And so we thank you for being here today because NQF endorsement, as you know, helps

to really increase the visibility and the use of measures, and no matter how many measures we have, people don't know that they exist, and people don't know that they are reliable and credible, useable and feasible, and scientifically rigorously tested. No matter how many measures we might have, that doesn't do us any good if people don't actually use them.

So I want to just -- before turning it over to my colleague, Renee Fox, I want to again thank you for all your work, for lending your expertise to our work, and hopefully together, we can start to build a robust slate of measures that we can use to build a brighter and healthier future for our nation's children. So with that, I am going to turn it over to Renee.

DR. FOX: Thank you, Karen, and good morning, everyone.

As Karen said, this really started with the CHIPRA reauthorization, 2009, and before that there really were no standard measures. One of the reasons that we have these measures was

that we were unable to measure Medicaid

performance across states. States maybe had

their own measures, but they were not -- they

were not reporting them.

And so now there is voluntary reporting on the Child Core Set measures consistent with consistent metrics across five domains: primary care access and preventative care; perinatal health, my specialty; care of acute and chronic conditions; behavioral healthcare; and dental and oral health services. And the Child Core Set, as of 2016, had 26 measures on it, and 50 states and the District reported on at least one measure, and the median number of measures reported by states was 16 for federal fiscal year 2015.

And so as Karen said, this is really a foundation. We don't just want to measure; we want to help improve the care for Medicaid and CHIP, and through this, we also look at quality improvement and CMS has roles in -- through funding and technical assistance to support

states in setting performance goals and implementing improvement projects, either through groups, affinity groups like the Maternal and Infant Health Improvement Initiative, some of the external quality review organizations' improvements.

reform, we need to have data and performance metrics that include -- that enable health service delivery transformation, data and IT, payment reform, and so we are here in the -- Karen and I sit in the Division of Quality and Health Outcomes, and we have been referring to this as DQ 2.0. And so we have multi-level management measurement.

You are aware of the Medicaid CHIP
Child and Adult Core Sets, but we will soon have
forthcoming some first-ever nationwide Medicaid
consumer assessment of child healthcare -- of
healthcare providers and systems, the CAHPS. We
are going to have a quality rating system in
managed care, and we have provider-level

measures, including the Health Home Core

Measures, Behavioral Health Clinics Core

Measures, and as many of you know and probably

have worked on, the Center for Clinical Standards

and Quality AHIP Core Measures, which have

released seven adult core sets, and the pediatric

set should be forthcoming.

And there are many levels of performance measures that roll up from provider to plan to state to Medicaid. I also want to share my appreciation for the work this committee and the staff at NQF are doing, and really understand -- want to highlight that measures are appropriately designed for different levels of measurement, from practice to payer to plan and state levels, say that not all measures are appropriate for use at each level, but should be reviewed here in the committee for use at the level for which they were tested.

Your expertise will help ensure that these measures are important, scientifically rigorous, useable, feasible at the level they

were tested, and we are very mindful at HHS of the provider burden that results from the proliferation of measures in general. And the decision, just as Karen said, made by you at the committee level will help inform our MAP Medicaid Task Force, which will meet in May 2017 to provide input on how to strengthen the core set for children, and we will look at these measures in the MAP Task Force as discussed as part of this call when developing their recommendations for us, so your work is highly vital to what we It is vital to the care of children and measuring quality, and I want to appreciate -thank you, everybody, for your hard work and volunteering.

CO-CHAIR BROOKEY: Thank you, Karen and Renee. I think we're turning it over to Ann for our disclosure of interest.

MS. HAMMERSMITH: Thank you. Hi, everyone. I am Ann Hammersmith. I am NQF's General Counsel. I will lead you through the oral disclosures of interest.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

If you recall, when you were nominated for the committee, you nominated yourself for the committee, you received a conflict of interest form that was a few pages longer than we would like, but it is necessary, and we asked you a lot of information about your professional activities. So what we do at the -- at the first meeting of a committee is we go around the table and you share anything you would like to disclose, but only if it is relevant to the work that you're going to be doing.

One thing that I want -- want to try and reassure you about is, if you disclose something, it does not mean it's a conflict.

Part of the reason to do this is for transparency so that everyone understands where you may be coming from. An example of that is if you sat on a committee for a professional society as a volunteer, and it is relevant to the work today, we would look for you to disclose that. It is not necessarily a conflict of interest.

So before we start, I just want to

remind you of a few things. You sit as individuals. You do not represent your employer. You do not represent anyone who may have nominated you for service on the committee.

One thing that is different about our conflict of interest and disclosure process is that we look at things other than financial Many disclosure of interest processes interests. only look at the financial angle. Because of the unique nature of the work that we do, we are looking for financial disclosures, but we're also looking for things that you may have done where no money was involved, but it is relevant to the subject matter today, and I will use the example If you served on a committee for a I just used. professional society as a volunteer and it is relevant to the work today, we would like you to disclose that.

The other things we are particularly interested in are speaking engagements, grants, research support. If you are on the phone, I will call on you at the end of the in-person

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

disclosures. Right now, we will start with the Co-Chairs -- I always start with the Co-Chairs -- and we will go around the room. Tell us who you are, who you are with and if you have anything to disclose.

Federal government representatives, we do not ask you for disclosures of interest, so you don't need to participate in this portion of the disclosures, so.

CO-CHAIR SUSMAN: How could I forget?

I am Jeff Susman. I am the Dean Emeritus at

NEOMED, Northeast Ohio Medical University, and I

am fortunate to have the best job in the world,

which is being on sabbatical now.

(Laughter.)

CO-CHAIR SUSMAN: And I have nothing to disclose in this sphere.

CO-CHAIR BROOKEY: Good morning. I am
John Brookey. I am a pediatrician and a Quality
Medical Director and a Medical Director for
Medicaid in Kaiser Permanente in Southern
California, and other than being a user of

measures, I have nothing to disclose.

MEMBER HARPSTER: I am Karen Harpster from Cincinnati Children's, and I have nothing to disclose.

MEMBER FATTORI: Good morning. I am

Debbie Fattori. I am a pediatric nurse

practitioner, and I serve at the DuPont Hospital

for Children as the Senior Director of Ambulatory

Nursing. I have no disclosures.

work for Blue Cross Blue Shield Association in Chicago, so we are the trade association for all 36 Blue Plans across the United States. I am an ER nurse by background, and prior to this, I did work at the American Medical Association doing physician-level performance measure development for -- with the Physician Consortium for Performance Improvement, and I have been gone from there for seven years. So I used to sit in that measure developer chair over there, and I am happy to be on this side now.

(Laughter.)

MEMBER FEI: But I have been gone from there for seven years, and I have nothing to disclose.

MEMBER BERGREN: I am Martha Bergren.

I am a Director of Advanced Population Health and Health Systems Leadership and Informatics at the University of Illinois Chicago, College of Nursing. I have been a pediatric nurse, both in the acute care setting and in the community setting, for longer than I would like to admit, and I have no disclosures.

MEMBER MORROW-GORTON: Jill Morrow, I am a Developmental Behavioral Pediatrician

Associate Professor, Pediatrics and Community

Medicine and Family -- whatever they call it, at the University of Massachusetts. It has this really long name. I am also a Senior Medical

Director at MassHealth, which is the

Massachusetts Medicaid program, and the clinical lead for the Long-Term Services and Supports

Office, where we choose measures and use measures, but don't develop measures.

MEMBER DORSEY: I am Karen Dorsey. I am a pediatrician, and I am Associate Director of Quality Measurement at the Center for Outcomes Research and Evaluation at Yale, and we develop measures in the Medicare fee-for-service elderly population. And I actually do the measure evaluation work for our measures that are in public reporting, so I am also usually in that hot seat over there. Glad to be on this side of the microphone, and no disclosures.

MEMBER QUINONEZ: I am Ricardo

Quinonez, pediatric hospitalist from Texas

Children's Hospital, Baylor College of Medicine,

and I have nothing to disclose.

MEMBER KELLER: David Keller, the -I am a Professor of Pediatrics and Vice Chair of
Clinical Affairs and Clinical Transformation at
the University of Colorado School of Medicine and
Children's Hospital Colorado, and if anyone has
any ideas how I can get something to disclose,
please tell me.

(Laughter.)

MEMBER SCHIFF: I am Jeff Schiff. I am the Chief Medical Officer at the Minnesota Medicaid Program, and I have something to do with selection of measures for our -- for quality for both our managed care organizations and our ACOs. I do -- I have been a co-investigator with Dr. Mangione-Smith on her Center of Excellence for the -- and have not been directly involved in the continuity of primary care for children with medical complexity, but some of my researchers have pulled data and been involved in that.

MEMBER EDIGER: Hi. My name is

Maureen Johnson Ediger. I am a parent committee

of the Quality and Safety Committee of the Board

for Children's Hospital Colorado, and it is

relevant that I have four children, and that is

really why I am here, is because two of them live

with special needs, one physical and one mental

health special needs, so -- and I have nothing to

disclose other than I have four children.

(Laughter.)

MEMBER BRISTOL-ROUSE: I am Tara

Bristol-Rouse. I am also here as a parent partner. I am with Patient and Family Centered Care Partners, and also I am Director of Patient and Family Partnership for the State Perinatal Collaborative in North Carolina, and I have nothing to disclose.

MEMBER EINZIG: I am David Einzig. I am a child psychiatrist, and I'm also boarded in pediatrics, so I did come from a triple board program. Work at a large children's hospital in Minnesota, Children's Minnesota. Primarily a clinician and see lots of patients. My primary interests include collaborative care and colocated care models. I am also on the Behavioral Health Steering Committee.

MEMBER MODAK: My name is Rajiv Modak.

I have spent the last 15 years working on the front lines at El Rio Community Health Center in Tucson, Arizona, and I have nothing to disclose.

MEMBER FINKELSTEIN: Hi everybody. I am Jon Finkelstein. I am at Boston Children's Hospital, and I'm Professor of Pediatrics at

Harvard Medical School. My -- my day job is as

Interim Quality -- Chief Quality and Safety

Officer at Boston Children's. I -- I disclose

two things. One is that I serve on the Board of

the Academic Pediatric Association as the Chair

of the Healthcare Delivery Committee, and the APA

is a voting member of NQF, though I am not here

representing them.

The second is that I am a coinvestigator for the Center of Excellence in

Pediatric Quality Measurement at Boston

Children's Hospital, which has developed one of
the measures we are talking about today, 3136,
the GAPPS measure. I was not directly involved
in that development, but I am part of that

Center, so I will recuse myself. Happy to leave
the room or focus on my incredibly compelling
email when you discuss that.

(Laughter.)

MEMBER STANLEY: Good morning. I am
Carol Stanley. I am currently with Duke
University Department of Pediatrics, have been

there roughly nine months now, and last year,
when I was here, I was with Virginia Medicaid and
had been there for about eight years. Also, I
have worked with Medicare with one of the QIOs
previously, and Anthem Blue Cross Blue Shield. I
have no disclosures.

MEMBER KONEK: Good morning, I am Sue
Konek, recently now into my second year of
retirement from the Children's Hospital of
Philadelphia as the Director of Clinical
Nutrition. I am the dietician on the group, and
within the last month, I have started working at
Dayton Children's two days a week in my -- my
goal to balance fun and meaningful work. I
really have nothing to disclose.

MEMBER BOST: Morning. I am Jim Bost.

Last year when I was here, I was Director of the

Outcome Center at Children's Healthcare of

Atlanta, but as of Monday, I am a Research

Division Chief here at Children's National

Medical Center in D.C. of the Biostats and Study

Methodology Group, and I have nothing to

disclose.

MEMBER HOUTROW: Hello. My name is

Amy Houtrow. I am a pediatric rehabilitation

medicine physician in Pittsburgh. I have federal

funding from multiple granting agencies unrelated

to measurement development or assessment. I am

the Chair though of the American Academy of

Physical Medicine and Rehabilitation Performance

and Quality Metrics Committee, and we will

eventually be doing measure development and have

not started that.

I am also the Chair of an IOM study committee on improving health outcomes, for which obviously quality has a role, but we will not be actively looking at anything in particular related to measure development. And otherwise, I have nothing else to disclose.

MS. HAMMERSMITH: Okay. Thank you.

I am going to call on some people who are on the phone. Lauren Agoratus?

MEMBER AGORATUS: Yes, hi. You get two points for saying my name correctly.

1	MS. HAMMERSMITH: That never happens.
2	MEMBER AGORATUS: I am the Coordinator
3	for Family Voices, and I am the parent of a
4	medically complex child, and I also most recently
5	have been participating on a UCLA project on
6	medical complexity, and I checked with Suzanne,
7	it is not a conflict, but I am also on the CAMHI
8	well-planner for children with special healthcare
9	needs. We are not developing measures. We are
10	developing a parent guide. Thank you.
11	MS. HAMMERSMITH: Okay. Thank you.
12	Marlene Miller?
13	(No response.)
14	MS. HAMMERSMITH: Is Marlene Miller on
15	the line?
16	(No response.)
17	MS. HAMMERSMITH: Are there any other
18	committee members on the line?
19	(No response.)
20	MS. HAMMERSMITH: Okay. Thank you for
21	the disclosures.
22	Before I leave you, I just want to

remind you of a few things. If you are in the 1 2 meeting and you think you may have a conflict, you think somebody else on the committee may have 3 4 a conflict, we ask that you speak up in real 5 We don't want to get several months down time. the road and have someone pop up and say, you 6 know, I think I may have had a conflict on that 7 8 measure. We would like to know now. 9 You are always welcome to speak up 10 during the meeting. If you don't want to do 11 that, you can go to your Co-Chairs. You can go directly to NQF staff, and we will figure out how 12 13 to resolve it. Any questions before I leave? 14 MEMBER FINKELSTEIN: Just to be clear, if we recuse ourselves, would you like us to 15 16 leave the room, or is it okay to --17 MS. HAMMERSMITH: I don't think it is 18 necessary --19 MEMBER FINKELSTEIN: Okay --20 MS. HAMMERSMITH: -- for you to --21 MEMBER FINKELSTEIN: -- fine. 22 MS. HAMMERSMITH: -- leave the room.

1	You can look at your compelling email.
2	(Laughter.)
3	MS. HAMMERSMITH: Anybody else?
4	(No response.)
5	MS. HAMMERSMITH: Okay. Thank you.
6	Have a good meeting.
7	CO-CHAIR BROOKEY: Thank you, Ann.
8	Before I turn it over to Suzanne, I just want to
9	say how much I appreciate the work of the staff.
10	I mean, it is a monumental amount of work to put
11	this meeting together and all these documents for
12	us to review, so I really do appreciate it. You
13	guys did a great job, and it's just an honor and
14	privilege to be a part of this process. So I
15	will turn it over to Suzanne now.
16	MS. THEBERGE: Thank you. I am
17	Suzanne Theberge. I am the Senior Project
18	Manager on the team, and do quick team
19	introductions.
20	MS. MCQUESTON: I am Kate McQueston,
21	Project Manager.
22	MS. JUNG: I am Madison Jung, Project

1 Analyst. 2 DR. NISHIMI: Robyn Nishimi, I am a consultant to the project serving in sort of the 3 Senior Director role, and as well I was the first 4 5 Chief Operating Officer for NQF. MS. MUNTHALI: Elisa Munthali, Vice 6 President from Quality Measurement. Welcome. 7 8 MS. THEBERGE: And over here, we have 9 Marcia, who is our Senior Vice President. 10 Now I am going to turn it over to Kate for some slides. 11 12 MS. MCQUESTON: Great. Thank you, 13 Suzanne. 14 So we will begin today with just a 15 brief project overview. So as you know, this 16 project will be evaluating measures related to 17 pediatric populations that can be used for 18 accountability and public reporting for all 19 populations and in all settings of care. This is 20 the second phase of this project.

addressing topic areas including child- and

And specifically, the project will be

21

adolescent-focused clinical preventative services and follow-up to preventative services; child-and adolescent-focused services for management of acute conditions; and child- and adolescent-focused services for management of chronic conditions.

So as all of you know, the project builds on our previous work last year, where NQF evaluated 23 newly submitted measures and one previously reviewed measure against NQF's standard evaluation criteria. NQF has a large portfolio of measures that include the pediatric population. Currently, there are more than 100 NQF-endorsed measures that include the pediatric population. Some of the measures are specific to the pediatric population and only include that group, and other measures are all-patient.

Measures fall into areas that pertain to clinical and cross-cutting areas, including cardiovascular surgery, pulmonary care, cancer, perinatal care, health and well-being, and safety. Many of these measures in the NQF

portfolio are used in public or private accountability and quality improvement programs, but the work group have identified gaps that remain in areas of care coordination, screening and abuse and neglect, and injuries, trauma and mental health.

Next, this is a brief overview of the measures that were endorsed in last year's cycle that many of you will be very familiar with.

This is -- we won't go through these measure by measure, but just want to have them here as a reference. Here they are, continued.

And then these are the measures that we will be considering for this cycle, the 2016 to 2017 measures under review. We have 11 measures that we will be discussing today.

And with that, I will pass it over to Suzanne for an overview of the evaluation process.

MS. THEBERGE: Okay. So I know most of you have been through this before, and so this will be familiar. Let's see if I can get the

slide clicker to work. Next slide. Thanks.

about the role of the standing committee and the process that we will be going through this morning. As has been mentioned, the committee members act as a proxy for NQF's membership, and so we expect varied perspectives and values and priorities from you all during this discussion, and so of course we ask you to respect each other's differences of opinion, and -- and keep the conversation collegial, as they -- they always are.

And we -- I also wanted to note, we do have a very full agenda in order to fit everything into a one-day meeting. We packed it quite tightly, so we appreciate your early arrival, and we do really appreciate your helping us keep on track and -- and staying within -- within our time for the agenda.

As you also may remember, once we get into the measure discussion, we will have our measure developer colleagues joining us at the

table. We have a couple of chairs for them, and we really appreciate their presence. We do have several that will be on the phone as well, and we -- we really appreciate their joining us here, as that -- that presence is invaluable.

They will be providing a very brief introduction to their measure or measure set, and then if you have questions, you can ask them to respond to any questions that you might have about anything pertaining to the measure.

We do ask that you -- we know that our committee members often like to offer some suggestions on how a measure could be improved, or ways it could be refined, but we do ask that you consider and vote on the measure that has been submitted to us. That is what we will be evaluating today.

So the -- these are our ground rules.

I don't -- see if anybody has any questions.

They are fairly straightforward.

(No response.)

MS. THEBERGE: And hearing none, I

will go over the major criteria and the process.

CO-CHAIR BROOKEY: Can you just back
up one slide?

MS. THEBERGE: Sure.

CO-CHAIR BROOKEY: Could you talk about being in the room or out of the room during voting? Or are you going to get to that?

MS. THEBERGE: I could talk about that right now.

CO-CHAIR BROOKEY: Okay.

MS. THEBERGE: So we do ask that folks remain in the room, especially when we are getting to a vote. I mean, we understand that you may need to step out for a moment, but if you could try to be at the table and voting while we are voting, we would appreciate it, to ensure that we maintain quorum and that we also maintain a consistent number of committee members voting throughout a measure. If you do need to step away for longer than a couple minutes, please just let a staff member know.

And so now, wanted to speak quickly

about our process and the criteria. So the first criteria is importance to measure and report, and the -- as you know, we first will be discussing evidence, so we will look at the evidence base for the measure, and then we will ask you to vote on evidence. You should all have a clicker, and we will be testing those after I get through this slide.

So we ask you to vote. If the measure passes evidence, then we go on and discuss and vote on gap, and then if that -- if the measure passes gap, we go on and discuss the scientific acceptability, so first reliability, again discussion and vote, and then validity, discussion and vote, and both of those as well are must-pass. The committee must -- must recommend a measure before we move forward.

And then we -- we go to feasibility, discuss and vote, usability, discuss and vote, and those two are not must-pass criteria, so we do continue on after we discuss those, and then we have a final vote on overall recommendation

for endorsement. At that point, if a measure has been recommended and there is a competing or related measure, we would have that discussion and -- and go from there.

So I think we will pull up our

practice vote and have you all just do a quick practice vote and see -- make sure everybody's clicker is working so if it is not we have a little bit of time to replace it before we get into the actual voting.

Okay. So the practice question is which of the following philosophical schools was most identified with the Greek philosopher

Aristotle? Option one, stoicism; option two, agnosticism; option three, platonism; and option four, empiricism. Voting is now open. You can attribute that to our Project Manager, Kate

McQueston.

(Laughter.)

MS. MCQUESTON: It's okay to guess.

(Laughter.)

MS. THEBERGE: So yes, so we -- point

1 She has got the voting slides. at Madison. 2 just so folks know, project team will be voting for the people on the phone. They will be 3 sending us their votes via chat, and we will be 4 5 entering those. So I think we are still waiting 6 for a few more votes. 7 (Pause.) 8 All right. Voting is MS. THEBERGE: 9 now closed. Okay. The votes are in. We have 17 percent for stoicism, with four votes; 4 percent 10 11 for agnosticism, with one vote; 43 percent for 12 platonism, with ten votes; and 35 percent for 13 empiricism, with eight votes. And Kate, what is 14 the answer? 15 The correct answer is MS. MCQUESTON: 16 4, empiricism. 17 (Laughter.) 18 MS. THEBERGE: But yes, the bottom 19 line is all the votes got in. Thank you. 20 (Laughter.) 21 MS. THEBERGE: All right. Thank you,

everyone.

So I wanted to just take a moment and look at our algorithms. You do -- next slide.

You do have these printed at your seat, and I realize this is unreadable for those of you sitting at the table, but you do have a printed copy. And as you know, we just -- NQF has created these algorithms to help you rate the measures according to our criteria, so we ask you to look and walk through each of these.

We have one -- one for evidence, and I want to just talk for a moment about exceptions to the evidence. We have outcome measures, which we are not necessarily looking for the quality, consistency, and -- and -- the QQC, quality, consistency, and I am forgetting the other one. What we're looking for is that there is a rationale to support the relationship of the outcome to processes of care or the importance of measuring the outcome.

The other thing that we wanted to just flag is that expert opinion is not considered empirical evidence, but there are exceptional

circumstances in which expert opinion could be considered. In that case, you would vote for an exception to the evidence, and -- and that would be in cases when there is really no evidence available, and there has been a systematic assessment of expert opinion, and there is a really strong rationale for why that specific structural or process measure needs to have a measure associated with it.

So next slide is our reliability algorithm, which again, pretty straightforward, and then we have our validity algorithm, and you should have those at your seat as well.

For those of you in the room, up on the other screens, we do have a quick overview of our -- our threshold on voting, and I wanted to speak briefly about that. Measures must have greater than 60 percent to be considered recommended within our consensus guidelines, and measures that achieve between 40 and 60 percent are considered consensus not reached. We also sometimes refer to that as the gray zone, and we

do continue to review the measure if a measure is in that consensus not reached zone of, say, 50/50.

We keep moving forward up to the final vote, and there has been a change since the last time that you all met. If you don't achieve consensus on a must-pass criterion, then you don't make a final vote on overall recommendation for endorsement. The committee would stop at usability, and we would ask the developer to bring back further information to address the issues you had raised, and then we will ask you to vote again and make your final recommendation on the post-comment call in May. So that is a minor change to our process.

And then anything that does not achieve at least 40 percent is -- is considered not recommended, or does not pass.

And so one last slide from me. Just want to -- we do have appropriate-use measures, so I wanted to just speak briefly about that. We had a request for some more information about

that.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

So appropriate use is a type of process measure that is used to evaluate procedures and medical technologies. They are not cost and resource use measures. They are not efficiency measures. And we do have some specific criteria for them, and the evidence should include a systematic assessment and grading of the quality, quantity and consistency of the body of evidence that the measure process does not lead to a desired health outcome, and -and we ask you to just make sure that there is a -- evidence on the effectiveness or lack of effectiveness or benefit of the test or procedure to patients.

So, any questions?

CO-CHAIR BROOKEY: So just one process question: if we do kind of reach an impasse, are we going to like say at some point we're going to bring it back to the follow-up phone call, or what are we going to do if we get into that situation? Because we do want to be able to

finish the majority of these by the end of the 1 2 day. So if you are 3 MS. THEBERGE: Sure. 4 having trouble achieving consensus, eventually, I 5 think if you -- when we got to a point where everything -- you know, people had had a chance 6 7 to say their perspectives, then we would ask for 8 a vote. You would call a vote, and we would 9 either keep going forward, in the case of consensus not reached, so one of those 50/50 10 11 votes, we would have you just move on to the next 12 criteria --13 CO-CHAIR BROOKEY: Yes. 14 MS. THEBERGE: -- or, if the measure 15 did not pass, then it would stop. 16 CO-CHAIR BROOKEY: Okay. 17 MS. THEBERGE: And I think our -- we 18 have two committee members who joined us here in 19 If we could ask you just to introduce the room. 20 yourselves and if you have anything to disclose? 21 MEMBER MILLER: Are you -- this is 22 Are you talking to people on the phone?

You said in the room. 1 2 MS. THEBERGE: Oh, great, you're on Well, we will have -- why don't you 3 the phone. 4 start, and then we also have some folks who 5 joined us in the room. Oh, great, okay. 6 MEMBER MILLER: So 7 I am Marlene Miller. I am Chief Quality Officer 8 for Pediatrics for the Johns Hopkins Medicine 9 Health System, and I am I guess a returning member for this Pediatrics Performance Measures 10 11 Committee meeting. 12 MS. THEBERGE: Great, thank you. And 13 I think we have just one new committee member. 14 Sorry. 15 I am Kraig Knudsen. MEMBER KNUDSEN: 16 I am the Chief of the Bureau of Research and 17 Evaluation at the Ohio Department of Mental 18 Health and Addiction Services, and I have nothing 19 to disclose. 20 MEMBER MILLER: Oh, I am sorry. This 21 is Marlene. I should say I have nothing to

22

disclose either.

MS. THEBERGE: Thank you, both. Okay.
With that, I think we are ready to begin our
measure discussion, and so we will invite our
developers from University of Michigan who I
believe are dialing in on the phone.

DR. REEVES: That is true. We are here on the phone.

MS. THEBERGE: Great. Thank you.

CO-CHAIR SUSMAN: So John and I are going to sort of alternate to spell each other, and I have the good fortune to tackle the first one here. We're probably going to take a little longer since everybody is getting back used to the format. We will start with the developer overview, try to keep that relatively brief, but don't hesitate to ask questions. Then I will ask the lead discussants to give their feedback. We will go by each of the criteria, starting at the top and working our way through, remembering the must-pass, and then at the end, we will take a final vote on the measure, assuming it passes the must-pass criteria.

If you have any questions, again, just hold up your cards, and we will be able to proceed efficiently. So without further ado, please welcome our developers to give us an overview.

DR. REEVES: Good morning, everyone.

Can everyone hear me okay?

CO-CHAIR SUSMAN: Sounds good.

DR. REEVES: Great. Hi. My name is Sarah Reeves. I am an epidemiologist with the Q-METRIC team at the University of Michigan.

Our measure list sets a percentage of children that are ages three months to five years old with sickle cell anemia that received appropriate antibiotic prophylaxis in the year. Development of this quality measure for sickle cell disease was determined by CMS through a public process to be a priority for the nation, and this measure is supported by strong evidence. Children with sickle cell anemia are at almost 100 times the risk of an invasive pneumococcal infection as compared to children with normal

hemoglobin.

What is even more concerning about this is that these infections are associated with high mortality. One report indicates that case fatality is at least 30 percent. And importantly, these infections can be largely prevented.

In a randomized control trial, children were randomized to receive either a daily placebo or penicillin, and among children in the penicillin arm, the incidence of infection was reduced by 84 percent. So given the success of this antibiotic prophylaxis in reducing infection, an expert panel at the National Heart, Lung and Blood Institute, or NHLBI, strongly recommends that all children with sickle cell anemia should receive twice-daily penicillin prophylaxis up until the age of five.

So in concordance with these
guidelines from NHLBI, our measure uses
administrative claims, and it assesses the
proportion of children ages three months to five

years with sickle cell anemia that receive
appropriate antibiotics within the year. As you
all know, there is a lot of hemoglobin
variations, and our measure focuses on the HbFS
cases, or sickle cell anemia, and this is
consistent with the NHLBI recommendations.

For the measure, our denominator is the number of children with sickle cell anemia, and we identify these children as children that have at least three healthcare encounters associated with sickle cell anemia within a year. We found that compared to the gold standard of newborn screening records, this case definition is valid, and it has high sensitivity and specificity to identify children that should be in the denominator.

Our numerator is the number of children with sickle cell anemia that received at least 300 days of appropriate antibiotic prophylaxis within the year. Receipt of antibiotics is identified through the presence of administrative claims for specific NDC codes that

are listed within the specification, and we did find also that this method for the numerator was valid, as it was highly correlated with the written prescriptions in the medical records.

So in addition to the evidence that our definitions for the numerator and the denominator were valid, we assessed the reliability of this performance score using a signal-to-noise analysis with Medicaid data across six different states. We found that the reliability of this measure was high. All of the reliability coefficients were over 0.8, and these usually -- and these all range from 0 to 1.

We used the same Medicaid data from six different states to assess the rates of antibiotic prophylaxis, meaning as the measure is 300 days filled within the year, from 2005 to 2010, and across this period, children with sickle cell anemia contributed over 3000 person-years to the study population. To our knowledge, this is the largest study population to ever assess antibiotic prophylaxis among children with

sickle cell anemia.

Among the children in the study
population, the proportion that received at least
300 days of antibiotics ranged from 3 percent to
36 percent. This obviously indicates that
substantial opportunities for improvement exist.
In addition, we were able to identify differences
in the performance scores by state.

So overall, we feel that this measure is highly important and has a real potential to make a substantial positive impact in these children's lives. Our measure focuses on appropriate antibiotic prophylaxis. This is an effective method to reduce the incidence of infection among children with sickle cell anemia. We found the measure is highly reliable and valid, and the data elements are readily available and administratively straightforward.

We also found an important and large performance gap, and we strongly believe that endorsement of this measure could have a very positive impact on the health of these high-risk

children. We really look forward to talking to you guys about this measure and addressing any questions or concerns that you might have. Thank you for your time.

CO-CHAIR SUSMAN: Thank you for that very lucid overview. So we will go on and ask

Jeff to provide his overview comments and

discussion around evidence.

MEMBER SCHIFF: I want to thank the folks from Michigan for the succinct and complete response.

I -- I want to go through this. I
think the best thing I can do is maybe talk about
how I went through this and looked at some of the
evidence and then looked at some of the questions
I had without getting -- and then we can get into
some issues specifically around validity,
reliability, and et cetera.

I think that the -- I guess the -- the first thing I will say, and I, in looking at the literature, I think that the authors appropriately identified a significant issue for

a relatively small population, but one that has,

I agree, has significant mortality. I wanted to

look at a few things that may alter this, and I

think that they addressed these, or the

literature addressed them, but I just want to

bring them up for review.

One is some of the studies are a little bit old, and they were -- they -- the relationship of the studies to the -- to the pneumococcal vaccination was an issue that I looked at, and they actually addressed that. The polysaccharide vaccines were available, and one of the -- I am not going to go -- I can go dig it out of there, but the -- the literature did show that -- that despite the polysaccharide vaccine, there was still a risk to these kids, and that is I think an important thing to note, that we don't -- we're not out of this problem because of the pneumococcal vaccine or the expansion of the pneumococcal vaccine.

They also looked at -- they also addressed, or some of the literature addressed,

the resistance issue, and I think that -- you know, the issue of whether we are going to create more resistant organisms, and I think they have addressed that as well, and I will let the authors discuss that.

And so those are just I think two of the most important things in the literature that I think were addressed that make this still a viable and important measure. The other things then I just wanted to talk about with regard to the measure itself, the -- a couple things I thought were interesting that may be worth discussing, and one is that I thought it was interesting that it took three visits to the -to -- to reliably identify someone with sickle cell, and that was the -- the increase in reliability as we went through from one visit to three visits was -- I guess that was concerning to me, like I just -- seems like that is a diagnosis that should be fairly straightforward, but if you look at the numbers, they went up pretty significantly as you went along, so I

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

thought that was -- I thought that was important.

I liked the idea of 10 out of 12 months because I think that if we are looking at people who are actually using the drug -- you know, there's a number of steps here. prescriber has to prescribe it. That is not what we are measuring because they could prescribe it, and it couldn't be filled, but if you look at for the -- the jump from prescribing to actually having the medicine filled, which is where the claim comes in, I think that that is a reasonable thing, and I think it is -- I don't know if it is reasonable to assume, and I don't think we really know from this measure whether or not if someone prescribed it and they filled it, they are actually getting the med, but I think that if they are filling it over -- for 300 out of 360 days, I think that that is a relatively good thing.

Most of these children are in the Medicaid program, so I think that it is a reasonable measure for Medicaid as well. And

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

then -- I think I will stop there. I think those are the key points that I got from reviewing their -- the measure as it is developed and some of the -- I guess the questions that were raised for me as I thought about what they were putting forward.

CO-CHAIR SUSMAN: Thank you very much.

I am going to go then to each of the other
reviewers, and then open it up for further. So
Rajiv?

MEMBER MODAK: Thank you. So a couple things. I agree with much of what Jeff said. I wanted to go to that point again about the three visits because that stuck out to me as well. So a couple of things with that: by excluding patients with less than three visits, what I was concerned with was the possibility that that could be a significant group of people that you're missing.

In my practice, when we do quality improvement measures, for example something simple like immunizations, you know, there's two

steps. One is to -- to take care of those kids that you are actually seeing in the office, and then the next step is also to take -- reach out to those kids that don't come in, and that is where I potentially see you are missing the kids who might be at highest risk for sepsis because of their lack of compliance with care by not addressing them with revisits.

And then, but the other side of this is that the fact that we are dealing with kids who often are -- 80 percent or so I think who had Medicaid at some point, significant opportunity to address -- to address a gap in care for -- for the potentially most underserved population, so I will put that out there.

CO-CHAIR SUSMAN: So maybe it would be appropriate to ask our developers to very briefly discuss the rationale for the three-visit criterion?

DR. REEVES: Sure. I would be happy to.

The Table 4 that we have in our

testing form lays out the sensitivity and specificity of three different case definitions that we looked at to identify children with sickle cell anemia, and as you can see, the area under the ROC curve is really best for three -- having at least three claims for sickle cell anemia within the year.

Our concern with loosening that definition any more was appropriately including children in the denominator that were not even eligible to receive antibiotic prophylaxis, and we felt like that would then dilute the measure inappropriately, so that is why we decided to go with the three healthcare visits for sickle cell anemia within the year.

CO-CHAIR SUSMAN: Thank you. I think hopefully folks can look on the screens in the center aisle and -- or their own materials, so the ROC curve analysis that was done, a tradeoff of sensitivity, specificity.

Okay. There was a question or a comment from Jeff.

MEMBER SCHIFF: Oh, I just wanted to further what the developer said. They -- from one visit, they went from true positives of 409, three visits was 374, so they lost a lot of false positives, but they didn't lose very many true positives, so I thought that was an okay tradeoff.

CO-CHAIR SUSMAN: Okay. Good. So I haven't heard any qualms about the evidence. We will go to Lauren and Maureen. What I would ask you to do is not repeat. If you agree, you can just indicate. And Lauren?

MEMBER AGORATUS: Yes. I agree with a lot of what was already said. Under evidence, I was a little bit concerned that it was not -- there was no way to clarify if additional, for example, not prophylactic antibiotics were administered for breakthrough infections. Also, the sources of evidence were related to penicillin, and yet there would be other antibiotics that could be used such as erythromycin, sulfamethoxazole, and trimethoprim.

mid then under the periormance gap,
there was a concern noted about the small sample
size, and I didn't see anything on racial and
ethnic disparities. Under the specifications for
reliability, I was also concerned with the three
health encounters. Also, perhaps consideration
of exclusion for children who could have
suppressed immune systems due to comorbid
conditions such as organ transplant, cancer or
other immunosuppressive medications such as
steroids, Humira, et cetera.
Under reliability testing, again, the
generalization was questionable due to the small
sample size of the empirical evidence that was
presented. Under the validity testing
CO-CHAIR SUSMAN: We are going to try
to just stick to evidence right now, and I think
MEMBER AGORATUS: Oh
CO-CHAIR SUSMAN: everything you
are
MEMBER AGORATUS: okay, okay

1	CO-CHAIR SUSMAN: raising are
2	are
3	MEMBER AGORATUS: Yes.
4	CO-CHAIR SUSMAN: great comments,
5	but we will plow through evidence first, and then
6	we will make sure we get to the other concerns
7	you're raising.
8	MEMBER AGORATUS: Okay.
9	CO-CHAIR SUSMAN: Okay.
10	MEMBER AGORATUS: I am done.
11	CO-CHAIR SUSMAN: Okay. Sorry to cut
12	you off. Maureen?
13	MEMBER EDIGER: I don't have anything
14	else to add.
15	CO-CHAIR SUSMAN: Okay. So let's open
16	it up for the panel to ask any questions or
	it up for the panel to ask any questions or clarifications. When you are through talking, if
16 17 18	
17	clarifications. When you are through talking, if
17 18	clarifications. When you are through talking, if you can remember to turn off your speaker. I
17 18 19	clarifications. When you are through talking, if you can remember to turn off your speaker. I think after a while, there's only so many people

I will -- put me in the queue, though. When you have questions to go around, I have some.

CO-CHAIR SUSMAN: Why don't you start off?

MEMBER MILLER: Oh, great. My
question had to do with just the reality of who
is providing this care for these children. A
colleague that I know well was doing a lot of
research on this and found there's discrepancies
sometimes between whether it's the primary care
provider that is providing the sickle-cellspecific care, or at times the hematologist, and
so I have two questions for this.

The first is does the algorithm to identify three visits -- you identify whether they go to the primary care provider for these sickle cell visits, or to a pediatric hematologist? And my second related question has to do with the realities of care for children, particularly when the children's hospital, which is where pediatric hematologists are going to be congregated -- they are usually not in private

practice, per se -- what if that is across a state line, so it's in a different Medicaid database?

For example, what if the child lives in Maryland and gets their primary care in Maryland, but happens to see a pediatric hematologist at D.C. Children's? Will this methodology pick up those kids across borders? Because the reality is there's only about 80ish, you know, kind of full-service children's hospitals in this country, and then many are going to be across state lines for some children.

CO-CHAIR SUSMAN: So it sounds like a great question for a developer to clarify.

DR. REEVES: Great. So first I would like to address your first question about the algorithm and if it distinguishes between visits with primary care physicians or hematologists.

So the algorithm is actually even broader than being types of visits. It is any claim whatsoever that is associated with sickle cell anemia. This could be even durable medical

equipment, or a laboratory claim, or any -- it is a count, just a count of three claims that deal with sickle cell anemia, so it is not limited to those that are seen by a primary care or a hematologist. Does that make sense for that question?

CO-CHAIR SUSMAN: Sounds --

MEMBER MILLER: Yes, that is good.

(Simultaneous speaking.)

CO-CHAIR SUSMAN: -- yes.

DR. REEVES: Okay. Great. And the second question, if it can pick up kids across state lines, so that would really depend on what data set you were actually using. If you were using the state-specific Medicaid data, it really wouldn't pick up those kids, but if you had maybe the MACs data set which we use that goes across states, you could tie children across states, or perhaps a private insurance company could track the children irrespective of the state that they receive, so I think that that question would really depend on the data set that you were using

to identify the children.

MEMBER MILLER: So given that the majority of these kids are likely in a Medicaid system, the first one you mentioned that you use that crosses states, what states are included in that?

DR. REEVES: So for the purposes of this, we used Illinois, Michigan, South Carolina, Texas, Florida, and -- what was -- Louisiana.

MEMBER MILLER: So you have a tool that links all those as one seamless large data set?

DR. REEVES: Yes.

MEMBER MILLER: But all the other states, would they be able to be linked? And, you know, this is the perpetual holy grail of linking all the Medicaid databases so we could get a perspective on children's care across the country.

DR. REEVES: It could do that. I mean, to be totally honest, the MACs data set that we are talking about is also relatively

1	delayed, so there is a several-year gap before we
2	can look at that, so really, the state Medicaid
3	databases are more current and are available more
4	quickly and would be able to assess improvements
5	in care on a quicker basis.
6	CO-CHAIR SUSMAN: I am going to go
7	MEMBER MILLER: But
8	(Simultaneous speaking.)
9	CO-CHAIR SUSMAN: down oh, go
10	ahead.
11	MEMBER MILLER: I was going to say,
12	but then to use them, you would have to be able
13	to link visits, so my example, you know, of a
14	child in Maryland and a that goes to D.C. for
15	their hematology care, or you might miss visits
16	and ordering of prescriptions and ordering of
17	durable med equipment.
18	DR. REEVES: That's a possibility.
19	CO-CHAIR SUSMAN: Good.
20	(Simultaneous speaking.)
21	DR. REEVES: Thank you.
22	CO-CHAIR SUSMAN: Thank you. Let's go

down the row here and start with Jill.

MEMBER MORROW-GORTON: So maybe we are not supposed to do this, but I am a state

Medicaid Medical Director. All Medicaid programs pay for over-the-border services. I think the -it is 50 miles, usually, and -- and many Medicaid programs will approve visits at specialty places out of state if that is the only place you can get it, so that would -- that claim would come back to the Medicaid program.

So -- so if you are from Maryland, and you get seen at National Children's, the claim that National Children's submits goes to the Medicaid program in Maryland, so it would be reflected in their data.

CO-CHAIR SUSMAN: Okay.

MEMBER KELLER: Hi, David Keller. So
the -- I may be dating myself, but way back when,
when I was a resident in Baltimore, we brought
these kids in once a month for shots of longacting bicillin, and it is still listed in the
NHLBI guidelines as an approved method of

1	prophylaxis. Is that captured? I was hunting
2	through that really long file of which drug codes
3	were captured, and I could not find it in there.
4	Is it in there and I have just missed it?
5	CO-CHAIR SUSMAN: Sounds like
6	DR. REEVES: No, we
7	CO-CHAIR SUSMAN: Go ahead.
8	DR. REEVES: I am sorry. We did not
9	include that in the measure for the oral
10	antibiotics.
11	CO-CHAIR SUSMAN: Okay. Any other
12	questions or comments regarding validity? I mean
13	evidence. I am sorry. Yes, thank you. Yes?
14	MEMBER BRISTOL-ROUSE: This is Tara
15	Rouse. So Jeff had brought up the issue of
16	resistance, and I was wondering if the primary
17	reviewers could say anything more about the
18	benefits outweighing the potential risks.
19	DR. REEVES: I am sorry. Was that a
20	question for the developers?
21	MEMBER BRISTOL-ROUSE: Sure. Whoever.
22	DR. REEVES: Okay. Thanks. When we

thought about this measure, we did think about antibiotic resistance, and felt that it wouldn't be any more likely in this population to develop antibiotic resistance than any other population. CO-CHAIR SUSMAN: Were there other

complications or negative consequences considered?

DR. REEVES: We did consider the possibility that a child could be allergic to penicillin, and that would not be prescribed, and therefore actually in our definition of antibiotics in the NDC codes, and this also is a question that I believe Maureen asked earlier, we included penicillin, but we also broadened the definition just a little bit to include erythromycin for children that could be allergic to penicillin.

CO-CHAIR SUSMAN: Jeff, you had a comment?

MEMBER SCHIFF: Well I just wanted to ask the developer, you had a number around resistance in this population I thought in your

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

1	literature that sticks in my head. It was
2	relatively low, but I didn't know if you that
3	was nine percent, but is that correct?
4	DR. REEVES: I am looking at the
5	literature. I actually can't remember the exact
6	number. I might get back to you about that in
7	just a minute. I am sorry.
8	CO-CHAIR SUSMAN: I think the
9	MEMBER MILLER: This is Marlene
LO	CO-CHAIR SUSMAN: the
L1	MEMBER MILLER: I have a question
L2	that is related to the unintended consequences.
L3	Was there also consideration of post-secondary
L <b>4</b>	infections such as C. difficile, you know, the
L5	rate of, you know, the complications because of
L6	the constant use of antibiotics?
L <b>7</b>	DR. REEVES: No. We did not look into
L8	that.
L9	CO-CHAIR SUSMAN: Okay. Any other
20	questions or comments? And yes, we are on
21	evidence.
22	Looks like we are probably ready to

1	vote here. So again, we're looking at the
2	evidence, the outcome, and I think this can be
3	high, moderate, low or insufficient. And we will
4	vote.
5	MS. JUNG: Voting is now open for
6	Measure 3166 for evidence. Option 1 is high,
7	option 2 moderate, option 3 low, and option 4
8	insufficient.
9	MEMBER MILLER: How do I vote? This
LO	is Marlene.
L1	MS. JUNG: Please submit your vote via
L2	the chat function, and the staff will enter it
L3	for you.
L <b>4</b>	MEMBER MILLER: You've got to help me
L5	find it. Oh, I see chat here.
L6	MS. JUNG: Voting is open, yes. We
L7	are still waiting on a few votes.
L8	MEMBER MILLER: Can you confirm you
L9	have my vote?
20	MS. JUNG: We do now, yes. Waiting on
21	one more.
22	Voting is now closed. The results are

39 percent for high, we have nine votes for that;
57 percent for moderate, 13 votes; 4 percent for
low, one vote; and 0 percent for insufficient,
with zero votes. And the criteria has passed for
evidence.

CO-CHAIR SUSMAN: So that is great.

Just remind you that this is a must-pass
criteria, and it easily passed, obviously. So we
are going to go ahead, and I will ask Jeff to
just comment briefly on gap.

MEMBER SCHIFF: I don't -- the

developers talked about a gap that I -- a gap

that I pulled out of the -- of their stuff was

5.7 to 36 percent state range, so there is a lot

of variability in states. Illinois must -
appears to be doing better than some of the other

states, and I am glad Minnesota, I don't think

was measured. But -- but I think there is a -- a

significant variation and a significant room for

improvement.

CO-CHAIR SUSMAN: Okay. Rajiv, anything different?

1	MEMBER MODAK: Just to add that I was
2	shocked how low that was.
3	CO-CHAIR SUSMAN: So two votes
4	sounding like there is a significant gap.
5	Lauren, on the phone?
6	MEMBER AGORATUS: Nothing else.
7	CO-CHAIR SUSMAN: Okay. And Maureen,
8	anything else to add?
9	MEMBER EDIGER: No.
10	CO-CHAIR SUSMAN: Okay. Opening up
11	for any committee comment, and if not, we can
12	vote on gap.
13	(No response.)
14	CO-CHAIR SUSMAN: Okay.
15	MS. JUNG: Okay. Voting for Measure
16	3166 for performance gap is now open. Option 1,
17	high; option 2, moderate; option 3, low; and
18	option 4, insufficient.
19	Lauren, can you submit your vote?
20	There it is. Thank you.
21	MEMBER AGORATUS: I did. Okay.
22	MS. JUNG: Voting is now closed. The

results are 78 percent high, 18 votes; 17 percent 1 2 for moderate, with four votes; 4 percent for low, with one vote; and 0 percent for insufficient, 3 4 with zero votes. And it has passed for 5 performance gap. CO-CHAIR SUSMAN: Okay. 6 We are now 7 going to move on our discussion concerning 8 reliability and validity, so if we can talk. 9 This first, maybe I will give -- Rajiv, would you like to take a first shot about reliability? 10 11 MEMBER MODAK: So as far as 12 reliability, it seemed to me that there were -- I 13 noted that there were hundreds of patients from 14 each state measured, and the reliability was 15 consistently greater than 80 percent for all the 16 states, so to me, that sample size does seem 17 sufficient to generalize for widespread 18 reliability. 19 CO-CHAIR SUSMAN: Jeff, further 20 comments? 21 MEMBER SCHIFF: I don't think anything

besides what we have already talked about.

Thanks.

CO-CHAIR SUSMAN: Lauren, any --

MEMBER AGORATUS: Me neither.

CO-CHAIR SUSMAN: -- commentary? No?

And Maureen?

MEMBER EDIGER: No.

CO-CHAIR SUSMAN: So it looks, in briefly reviewing, that there was -- oh, John? I am sorry. Go ahead, please.

MEMBER FINKELSTEIN: So I have one question for the developers. In claims data, in pharmacy claims data, the days supplied field is -- is, in data sets that -- that I have used, is notoriously finicky, sometimes not populated. The agent is always populated well, but the days supplied sometimes isn't, so I wondered in your analysis if in this data set it was always populated, if it had extreme values that didn't make sense, and what you did when effectively the prescriber wrote quantity sufficient, which is not so uncommon. How did you -- how did you count -- how did you count -- how did you count -- how did you

come up with 300 days?

DR. REEVES: Thanks for the question.

We came up with 300 days because, I mean, as you
guys had said, it was about 10 out of the 12

months, and we felt that that allowed for a

little flexibility.

As far as the specific claims, our days supplied was populated relatively well. We -- we did look at a lot of different methods to try to make sure we were not having very low-quality data, so we had very very few kids that had zero days' supply, or even under 50 days' supply. Actually, the average days supplied was 186 I believe, so we felt that even if there was some incompleteness within those claims, that it was relatively well reflective of the number of prescriptions that were filled through that time.

MEMBER FINKELSTEIN: So I -- I am surprised at 186 days supplied. So where I work, I think there is a three-month limit, so -- so really people were writing single scripts for -- or was that with refills? Did you count refills?

1	I am just trying to get at how you did this, if -
2	_
3	DR. REEVES: Yes, I did count the
4	refills. That would be 186 days throughout the
5	entire 12-month study period.
6	MEMBER FINKELSTEIN: I see. So yes,
7	I understand. Yes, plus I mean, yes, but it's
8	going to average out. But these are dispensings.
9	These are pharmacy claims, so they are
10	dispensing, not prescriptions, so these are
11	dispensing events that totaled 186 days, is that
12	what you're saying? It is not one dispensing
13	event of 186 days.
14	DR. REEVES: Exactly, you are correct.
15	It is all of the dispensing events across the
16	year summed.
17	MEMBER FINKELSTEIN: Right.
18	CO-CHAIR SUSMAN: Okay. Other
19	clarifications about reliability?
20	(No response.)
21	CO-CHAIR SUSMAN: If not, I think we
22	can move on to a vote on reliability.

MS. JUNG: Voting is now open for 1 2 Measure 3166 for reliability. Option 1, high; option 2, moderate; option 3, low; and option 4, 3 insufficient. 4 MS. MCQUESTON: Thanks, Laura and 5 Marlene. We have your votes. 6 7 Voting is now closed. The results are 8 30 percent for high, with seven votes; 70 percent 9 for moderate, with 16 votes; 0 percent for low, 10 with zero votes; and 0 percent for insufficient, 11 with zero votes. The measure has passed 12 reliability. 13 CO-CHAIR SUSMAN: Okay. Now we move 14 on to validity, and maybe just to mix things up, 15 I will ask Maureen to comment first. 16 MEMBER EDIGER: I defer to my other 17 discussants. 18 CO-CHAIR SUSMAN: Okay. And Lauren? MEMBER AGORATUS: The only thing I had 19 20 was that the validity testing of the measure, it 21 was reassuring to see that in addition to just

face validity.

Again, some concern over the sample size because those that were used were smaller than the ones in the evidence, which were considered small, but I know other folks considered them sufficient, so we will see.

CO-CHAIR SUSMAN: Okay. Rajiv?

MEMBER MODAK: So I just was reassured by the high correlation between the antibiotics that were prescribed and the antibiotics that were dispensed, based on administrative claims because I was skeptical of that beforehand.

CO-CHAIR SUSMAN: And finally, we will move to Jeff.

MEMBER SCHIFF: I -- I don't think I have anything significant to say. I thought the changes in -- in odds of dispensing 300 days over time changed a little bit. It is Table 7. So I don't know if the authors want to address that. That bounced around a little bit, and I didn't know if I could explain why that is -- why that is the case. That is probably the only concern I had.

1	CO-CHAIR SUSMAN: So is this a
2	question maybe briefly for the developer
3	MEMBER SCHIFF: Right.
4	CO-CHAIR SUSMAN: on Table 7?
5	MEMBER SCHIFF: Yes.
6	DR. REEVES: Sure, thanks for that
7	question. As you all know, we also had submitted
8	the TCD measure last year, and we did see
9	increases over time in TCD screening rates, so we
10	were really hopeful that we would see increases
11	in antibiotic prophylaxis over time also in this
12	population, and we really didn't. And so I think
13	that this is, to be totally honest, just
14	reflective of a lot of opportunity for
15	improvement and a lack of improvement efforts
16	over the last few years in antibiotic
17	prophylaxis.
18	MEMBER SCHIFF: Thanks.
19	CO-CHAIR SUSMAN: Any other questions?
20	I don't see any cards up or on the phone?
21	(No response.)
22	CO-CHAIR SUSMAN: Then let's go ahead

and move to vote on validity. 1 2 MS. JUNG: Voting on validity for Measure 3166 is now open. Option 1, high; option 3 4 2, moderate; option 3, low; and option 4, 5 insufficient. Voting is now closed. The results are 6 39 percent for high, with nine votes; 61 percent 7 8 for moderate, with 14 votes; 0 percent for low, 9 with zero votes; and 0 percent for insufficient, 10 with zero votes. The measure has passed for 11 validity. 12 CO-CHAIR SUSMAN: And now on to 13 feasibility. So if I can ask Jeff maybe to 14 briefly comment on feasibility? 15 MEMBER SCHIFF: We in Medicaid like 16 claims-based measures because we don't have to go 17 to our providers and ask for them to be 18 calculated because we get -- we get beaten up at 19 retirement parties for --20 (Laughter.) 21 MEMBER SCHIFF: -- and at other times when people -- when people say why are you making 22

1	us do chart abstractions for this stuff? So I
2	think this is a measure that actually gets to a
3	significant quality issue that is that is
4	feasible to do, and with enough reliability and
5	validity, so
6	CO-CHAIR SUSMAN: Okay.
7	MEMBER SCHIFF: comment
8	CO-CHAIR SUSMAN: It's going to be
9	hard to top that. Rajiv?
10	MEMBER MODAK: I agree. In fact, just
11	as an anecdote, we in my health center actually
12	have direct log-ins to Medicaid, so we can
13	actually receive our own data directly, which is
14	immensely helpful for outcomes.
15	CO-CHAIR SUSMAN: That's cool.
16	MEMBER MODAK: Yes.
17	CO-CHAIR SUSMAN: Wow. All right.
18	Lauren?
19	MEMBER AGORATUS: No concerns.
20	CO-CHAIR SUSMAN: And Maureen?
21	MEMBER EDIGER: Nothing additional.
22	CO-CHAIR SUSMAN: Okay. Any other

comments or questions?
(No response.)

CO-CHAIR SUSMAN: Seeing none, we will move on to a vote on feasibility.

MS. JUNG: Voting for feasibility for Measure 3166 is now open. Option 1, high; option 2, moderate; option 3, low; and option 4, insufficient.

Voting is now closed. The results of voting are 74 percent for high, with 17 votes; 26 percent for moderate, with six votes; 0 percent for low, with zero votes; 0 percent for insufficient, with zero votes. And the measure has passed for feasibility.

CO-CHAIR SUSMAN: And that leads us to usability. How about, Rajiv, you want to talk a little bit about usability and use?

MEMBER MODAK: Yes, and I just noted that the measure is not currently being used as a quality measure, and -- but it obviously has the potential to improve high-quality care by reducing the burden of preventable pneumococcal

infections. And I just noted that -- no, I take 1 2 that back. I noted that the antibiotic resistance was not quantified, but that actually 3 4 was, so that is it. 5 CO-CHAIR SUSMAN: Jeff? MEMBER SCHIFF: I think at the level 6 7 of either health plans or the state, this is a --8 a very viable measure because I don't think it is 9 designed to be a measure for individual clinicians, but I think it assesses the ability 10 11 of -- of organizational structures to get these 12 kids on these meds. 13 CO-CHAIR SUSMAN: Okay. And then we 14 will go to Lauren? 15 MEMBER AGORATUS: No additional 16 concerns. 17 CO-CHAIR SUSMAN: And Maureen? 18 MEMBER EDIGER: Nothing additional. 19 CO-CHAIR SUSMAN: All right. Let's 20 vote on usability and use, unless there are any 21 questions? 22 (No response.)

CO-CHAIR SUSMAN: And again, seeing, 1 2 hearing none, we will go to vote. MS. JUNG: Voting is now open for 3 4 Measure 3166 for use and -- usability and use. 5 Option 1, high; option 2, moderate; option 3, low; and option 4, insufficient. 6 7 CO-CHAIR SUSMAN: Are we having voting 8 issues? 9 Yes, we are having some MS. JUNG: 10 voting issues. Just a moment and we will try and 11 reload this slide here. 12 CO-CHAIR SUSMAN: While we are 13 correcting the technical difficulties, I just 14 want to thank everybody for really being succinct It really helps us 15 and on point with comments. 16 to move along, and you evidently have been 17 studying how to do this, because everybody has 18 been quite up to par. Now, if we can get our 19 computers to work, we will be doing fine. 20 Any questions about process or 21 comments about process while we are waiting here? 22 (No response.)

1 CO-CHAIR SUSMAN: Okay. Thanks. 2 Just to highlight, we're going to go on although we were supposed to break after this 3 4 first measure. You guys have been so wonderful 5 we get to do another one. But looking ahead, it 6 is probably a good idea that we use our time to 7 get -- plow through this. 8 MS. JUNG: Okay. Let's try that 9 again. 10 CO-CHAIR SUSMAN: Okay. 11 MS. JUNG: Voting is now open for Measure 3166 for use and usability. Oh, it is 12 13 working, great. 14 CO-CHAIR SUSMAN: Yay. 15 MS. JUNG: Waiting on -- oh, voting is 16 now closed. The results are 52 percent for high, 17 with 12 votes; 48 percent for moderate, with 11 18 votes; 0 percent for low, with zero votes; and 0 19 percent for insufficient, with zero votes. The 20 measure has passed for use and usability. 21 CO-CHAIR SUSMAN: Okay. And now, if 22 I am not mistaken, we get to vote on the overall

1 measure. 2 MS. JUNG: Okay. Voting for Measure 3166 for overall suitability for endorsement is 3 4 now open. Option 1, yes; option 2, no. 5 Voting is now closed, and we have reached consensus with 100 percent, with 23 6 7 votes. This measure is now endorsed by NQF. 8 Well done, folks. CO-CHAIR SUSMAN: 9 MS. JUNG: Recommended for --CO-CHAIR SUSMAN: Excellent. 10 11 MS. JUNG: -- endorsement. 12 CO-CHAIR SUSMAN: Yes. Give a round 13 of applause for yourselves. 14 (Applause.) 15 So, thank you. CO-CHAIR SUSMAN: 16 are going to do a switch, and John is going to 17 take on the next couple, but I just want to thank 18 everybody for being really efficient and directed 19 with their comments. 20 CO-CHAIR BROOKEY: Do we have a 21 developer here for the -- the GAPPS preventable

22

adverse event measure?

Great. So we're going to NQF Measure 3136, and I will ask you to introduce yourself and give us a brief overview of the measure, if you would.

DR. LANDRIGAN: There it is. Is that it? Great, thanks.

So thanks very much. My name is Chris
Landrigan. I am a pediatric hospitalist and
health services researcher at Boston Children's
Hospital, and I am joined today by Mark Schuster
and Sara Toomey from the Boston Children's
Center, as well as David Stockwell from
Children's National here in D.C. We represent
the core team that developed the GAPPS, or Global
Assessment of Pediatric Patient Safety Measure.

As many of you know, adverse events, events in which medical care causes harm, have been recognized as a leading cause of death and injury in the U.S. since the 1990s. Although there is now excellent awareness of the problem of patient safety in U.S. hospitals, systematic measurement of AE rates in hospitals is lacking.

The large majority of hospitals in the U.S. currently identify preventable adverse events through voluntary reports by staff.

Unfortunately, a series of studies have shown that only between 2 and 10 percent of all adverse events are reported through these systems. As a result, comparisons across hospitals are not reliable, as it is unclear if any differences represent true differences -- excuse me -- or simply differences in reporting patterns.

Over the past decade, work has been conducted to develop a more systematic approach to measuring rates of adverse events using so-called trigger tools. Triggers are not themselves adverse events, but they help to identify them because triggers are often associated with an adverse event. When a trigger occurs, review of the medical record is required to confirm whether an adverse event did or did not in fact occur.

An example of a trigger is the

administration of Naloxone. If a chart is identified because Naloxone was given, a review might find that an adolescent was brought to a hospital because of a heroin overdose and was given Naloxone to save her. If that is the case, the trigger would not have identified an adverse event. However, if Naloxone were given because the hospital gave the patient a narcotic overdose as part of treatment, then there was a preventable adverse event. A review of the record is required to sort these things out.

Studies of trigger tools have shown that they are far more sensitive and reliable than voluntary reporting systems or screening tools that reply on administrative billing data alone. Trigger tools identify adverse events at 10 to 100 times the rate of these other methods, and with better specificity.

To develop GAPPS, we began with a systematic review of the pediatric and adult literature to identify candidate triggers for possible inclusion in GAPPS. In addition, we

spoke with trigger developers. From our review, we compiled a list of 78 candidate triggers for possible inclusion in GAPPS.

Using the RAND/UCLA Appropriateness
Method, we convened an expert stakeholder panel
to review candidate triggers and assess their
validity and feasibility. Panelists were chosen
as -- or nominated rather by professional
societies from the U.S., including for example
the Academic Pediatric Association, the American
Nurses Association, Consumers Advancing Patient
Safety, and the National Patient Safety
Foundation.

An initial list of 54 triggers were determined by our panel to be valid and feasible and were included in our draft tool. To rigorously evaluate the performance of GAPPS across a range of pediatric inpatient settings, we identified 16 hospitals to participate in the GAPPS national field test through the Pediatric Research in Inpatient Settings, or PRIS, Network. In each hospital, we reviewed approximately 240

records per hospital from randomly selected admissions for a total of 3814 records in total.

Nurses served as our primary reviewers. Primary reviewers presented all suspected adverse events to two secondary reviewers, who were physicians working in the study hospitals. These physicians independently made final determinations about the presence, severity, and preventability of any suspected adverse events. Secondary reviewers discussed and resolved any cases for which they had initial disagreement.

Of note, physician reviewers do not conduct reviews of the entire medical record.

They only review suspected incidents identified by the nurse primary reviewers. These secondary reviews take about five minutes each. Since only a fraction of charts contain a suspected adverse event, the time burden for physicians is minimal.

GAPPS proved to be a reliable tool for detecting preventable adverse events. Primary reviewers agreed 92 percent of the time on the

presence or absence of a suspected adverse event, with a kappa of 0.69. Secondary reviewers verifying adverse event presence or absence agreed 92 percent of the time, with a kappa of 0.81.

We refined the GAPPS tool at the end of our study based on an analysis of each individual trigger's incident and so-called positivity rate, that is, the frequency with which a particular trigger indicated the confirmed adverse event. Following removal of triggers that did not yield many adverse events, the tool was streamlined to include 27 triggers in the Manual GAPPS Trigger List.

nurse reviewers, we also developed an automated trigger list that allows hospitals to scan for triggers through the electronic health record.

Using the automated list, the process of nurses investigating these triggers and then reviewing suspected adverse events with physicians is unchanged. The automated trigger list simply

In order to measure rates of preventable adverse events, we recommend that hospitals conduct 60 chart reviews per quarter.

This requires a maximum of 30 hours of nurse

speeds the initial step of looking for triggers.

reviewer time per quarter and an estimated
maximum of one to two hours of physician time per

8 quarter to conduct reviews.

We believe that GAPPS fills a critical need for a public measure of pediatric healthcare safety. It will serve as a valid and valuable tool to assess health system quality and motivate improvements in patient safety. Thanks for the opportunity to discuss the measure. Look forward to questions.

CO-CHAIR BROOKEY: Thank you very much. I apologize. I forgot in reading this, this is done retrospectively and not concurrently, is that correct?

DR. LANDRIGAN: It is done retrospectively, that is correct.

CO-CHAIR BROOKEY: Okay. So it is not

1 -- okay. 2 DR. LANDRIGAN: It is not done in real time --3 4 CO-CHAIR BROOKEY: Ideally --5 DR. LANDRIGAN: -- in hospitals. CO-CHAIR BROOKEY: 6 -- concurrent would 7 be great, so very good. So we have -- I want to 8 remind everyone about the algorithm, as your 9 cheat sheet for this is an outcome measure, and so if we go along the top of the sheet here, 10 11 which means that the -- the relationship between 12 the measured health outcome should have -- there 13 should be one health -- relationship with one 14 healthcare action. 15 So when we talk about the evidence 16 review, we need to look at -- from that 17 perspective. So let's see. I think I am 18 actually one of the discussants here, but I am 19 going to defer to my colleagues here, and I believe Jill is the primary discussant, if Jill 20 21 would like to begin.

MEMBER MORROW-GORTON:

22

Sorry.

going to say this is an outcome measure.

(Laughter.)

MEMBER MORROW-GORTON: And I think
that you did a really nice description and
actually answered a couple of questions that I
had reading the -- the information, that it was
very helpful to hear that the nurses were your
primary reviewers, because there was some
question about that, and that the physicians were
in fact only reviewing the ones where there was a
suspected event and not reviewing the entire
record. That I think answers some questions down
the road in terms of the rest of the discussion.

I -- I think that most of this
evidence is in the adult literature in terms of
trigger -- using -- using triggers and that sort
of thing. I think the concept of, you know, do
you do kind of a sentinel reporting versus
looking at every single record or a good number
of records. This seems to be a fairly good
middle ground in terms of being able to use your
resources efficiently and still identify sentinel

events that can lead to processes that need to be improved to try to prevent those from occurring.

I had a couple of questions about community hospitals versus academic hospitals, and I wondered if -- if you could talk a little bit more about that, and then -- and then a couple questions about your -- your automated list versus your manual list because I noted that your -- your automated list had some elements in it that your -- one of them had some elements that --

DR. LANDRIGAN: Sure.

MEMBER MORROW-GORTON: -- the other one didn't because your hospital didn't measure that, but I just was curious why that was not there, so -- .

DR. LANDRIGAN: Sure. So -- so to answer the first part of your question about the community versus academic centers, so the way that the GAPPS field test was conducted is through the PRIS Network, we identified eight community and eight academic centers and rolled

the -- rolled the -- the GAPPS measure out in both, really in order to try to assess how well this performed at a range of different institutions that had varying degrees of electronic health records, for example, and different patient populations, obviously, and found that it was really able to be used pretty reliably in both. You know, the rates of harm, as we can get into if folks are interested, were certainly different in those two settings, but -- but it functioned well in both.

And then with respect to the automated versus the manual trigger lists, you know, really the -- the idea here was that, you know, manual review, while it is not enormously burdensome if the sample size is not huge, still certainly represents some burden for institutions, and there has been a bit of a movement, to some degree in the adult side and to some degree in pediatrics as well, to begin to automate some of these triggers as the past few years have gone by, since many of them are based on laboratory

values and other things that are pretty easily scanned for in the electronic medical record.

And so we did that in our institution and were able to automate the large majority of In addition to providing some efficiencies them. in terms of even the common measures, the other advantage of doing this in an automated fashion is that you can include things that are relatively rare and probably were not worth the effort of a manual comb-through, if a nurse is kind of going through the charts one by one to look for -- look for triggers, but, you know, that might add some degree of value: for example, elevations in relatively rare drugs levels, things like that that can provide clues about adverse events that -- that add a little bit of depth and richness to the measure.

CO-CHAIR BROOKEY: Okay. Who else is -- Karen?

MEMBER HARPSTER: So I guess to comment from that question, how many -- of the 16 institutions that were in the sample, how many

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

were electronic, and how many were paper?

Because that I think would be -- make a huge difference.

DR. LANDRIGAN: Yes. So the large majority of the institutions actually had some degree of electronic health records there, but, you know, as -- as I am sure many of you are aware, that it is sort of this constantly moving picture at this point where there are institutions like those that are now on Cerner and Epic that have relatively robust electronic health records, and the large majority of their functions, including note-taking as well as labs and pharmacy and everything else, is sort of under one system.

Lots of others within this study set, particularly as we stretched back to 2007, when we began the review process, many of them were sort of in a mixed state, where labs for example or pharmacy might have been electronic, but much of the rest of it was paper.

MEMBER HARPSTER: Sure.

DR. LANDRIGAN: And we found that, you know, really the measure functioned pretty equivalently either way.

MEMBER HARPSTER: Okay. I would say
the only thing else I would have to add is that I
was astounded by the number of adverse events.
The one that, you know, stuck out, 11.1 adverse
events per drug event per 100 in patient -pediatric patients, 74 adverse events per 100
NICU patients --

DR. LANDRIGAN: Yes.

MEMBER HARPSTER: -- and 203 per 100 PICU patients, which that was really astounding.

DR. LANDRIGAN: Right, yes. It -- I think it really is pretty astounding, and particularly some of our sicker patients who are in the neonatal ICU, or in the, you know, pediatric intensive care units, the frequency with which they suffer relatively minor adverse events is tremendous, as David knows. David is an intensivist.

And, you know, these things are -- are

1	just daily events, unfortunately, in our ICUs.
2	Many of them are minor and transient, but
3	certainly a subset of them are much more serious
4	than that, and
5	MEMBER HARPSTER: Yes.
6	DR. LANDRIGAN: important to
7	tackle, I think.
8	MEMBER HARPSTER: Thank you.
9	CO-CHAIR BROOKEY: Okay. Ricardo?
10	MEMBER QUINONEZ: So you have
11	identified, or you presented evidence both from
12	adult and pediatric literature that that you
13	can do a better job of identifying these adverse
14	events, but really, what we are trying to prevent
15	is the events.
16	DR. LANDRIGAN: Right.
17	MEMBER QUINONEZ: So is there is
18	there evidence from the adult literature or
19	pediatric literature that the identification
20	itself improves the ultimate outcome?
21	DR. LANDRIGAN: Well, I mean, I will
22	I suppose I would almost think of it in

reverse, in that if we don't identify the events, it is hard to take actions to improve, I think for a couple of reasons.

First, it is if these things are not transparent and the data about them is not there in the public domain there before the leaders of hospitals, it is difficult for them to commit resources and prioritize efforts to improve patient safety, and I think that that is probably reflected most clearly in the fact that if you look at adverse event studies in adults, particularly in -- and to some degree we now have some data in pediatrics from this GAPPS measure, over the past 6 to 12 years, the rate of improvement has been relatively slow.

And I -- and I think it is because there tends to be patchy focusing on discrete patient safety problems over time, but often, there is not a very well-coordinated, unified institution to drive the total rate of these things down. And so my sense is that, you know, like many other measures that the NQF endorses,

the first step is really to make these things -make these things apparent to everyone, and then,
you know, the hope is that that stimulates
improvement.

I don't think that -- that measuring all by itself stimulates improvement, but I -- but it is a critical first step, in my mind.

DR. STOCKWELL: If I could add, the -there is -- the adult literature is a little bit
further ahead than the pediatric literature. The
pediatric literature is developing, though, there
is no question.

Specifically, to answer your question, there are -- there is evidence that hospitals that have used a manual global trigger tool approach have been able to alter their overall harm rates. That is certainly the case. I would echo what Chris says, though: if it is not measured, it is not managed, and so we think this is one of the great disparities in our measure field, that we are not more robustly measuring safety events in pediatric inpatient setting.

MEMBER MILLER: This is Marlene. I also have some questions I want to get into.

MEMBER HARPSTER: Thank you. Sorry

MEMBER HARPSTER: Thank you. Sorry.

I am wondering if you could speak to the admission time frame. I -- you did -- you excluded patients that were in the hospital less than 24 hours, and though I appreciate that that does speak to acuity, we are seeing more and more in my hospital patients being, you know, moved out of the hospital --

DR. LANDRIGAN: Sure.

MEMBER HARPSTER: -- quickly, and still having somewhat I would consider high-risk procedures. For example, an appendectomy oftentimes without a rupture is discharged in less than 24 hours, but that patient probably is at risk for some adverse events, and I am wondering if you could speak to that a little bit?

DR. LANDRIGAN: Yes. I mean, I think that that is absolutely right. This measure is - in a sense, it is broad. We are trying to

capture adverse events across the entire medical center, and really a wide range of adverse events, but it is narrow in the sense that it really is restricted to patients who would traditionally have been considered inpatients as opposed to observation state patients or, you know, the emergency departments transitioning to the outpatient and so forth.

And I -- I completely agree with you that adverse events occur at a very high rate in those settings as well, but just in trying to define the measure and keep things as consistent as possible across settings, that is sort of where we drew our lines.

CO-CHAIR BROOKEY: Marlene?

MEMBER MILLER: Yes. I have two questions. I am wondering if the developers can speak to the feasibility of automating this in IT. As an institution that recently moved from, you know, the Sunrise Eclipsis kind of system to Epic, it astounds me how even though we all -- everyone on Epic, or everyone on Cerna may want

to do the same thing, each one of us has to de novo rebuild it, which is an enormous burden. So I am wondering if they can speak to the ease of the IT automation, how easy that is to -- does it still need specific institutional development work to make that active and live? Because obviously I am trying to get at burden here.

The other one I am confused a bit on the last statements on the development, is the recommendation for this as a sampling strategy over every quarter? And if that is, because that is how I sort of heard what you were saying in the development, how -- what is the recommended sampling to ensure removal of bias of charts?

DR. LANDRIGAN: So I will answer the second question first, and then David will tackle the first one.

so with respect to sampling, our recommendation is that there are 60 charts sampled per quarter across the hospital, or 20 per month, in order to get a sense of -- of what is happening within the institution as a whole,

and we recommend that it essentially be random sampling across the entire institution, where, you know, the simplest method that most of our institutions in the study used is they lined all of the discharges up, the numbers up in a row, and then just used a random number generator to select 25.

DR. STOCKWELL: So in terms of the feasibility of automation, I think we should think about the question that we had earlier in terms of how many of the hospitals were fully electronic. Just like the answer to that question was there are many that are in transition from paper to automation, that certainly is some of the challenge as you work towards automating a full list of -- of triggers.

However, it can be done on -
certainly done on an institutional level. That

is where I had gotten my start with looking at

automated triggers. We had run reports from -
we have Cerner here in town at Children's

National -- from Cerner reports that would -- we

would do daily pulls that would identify the specific data elements, Naloxone in Chris's example, or there are also organizations that can help to extract those data files from any organization with things like HL7 fees or flat file extractions, things like that.

So it certainly is feasible. It is typically a one-time organization to -- to have the local hospital prepare their data to be extracted, and then once that -- once that is done, those things are -- are pretty much in place. So it is fairly feasible.

CO-CHAIR BROOKEY: Jeff?

MEMBER MILLER: I guess I am wondering on the magnitude of that. Anything is feasible with electronic health records. You know, for example, when we try to take algorithms from other children's hospitals that we have learned, it is, you know, many days of a programmer to actually put that up and actually make it live, and so it adds significant burden when you start talking of that programming fee ahead. Did you

in your -- in your tests, did you actually kind 1 2 of give those automated codes to someone and then measure how long it took them to build that out 3 4 in their own system de novo? 5 I know you have done a lot of work on 6 this with D.C. Children's, so you have had the 7 benefit of kind of developing this gradually over 8 I am very interested if there was a de time. 9 novo institution that got the automated codes, 10 and how long did it take them to really get it up 11 live, and what were the FTE costs? 12 CO-CHAIR BROOKEY: So Marlene, I 13 wonder if we can just hold that thought until we 14 get to feasibility since we are focused now on just getting through the evidence question, and 15 16 we can come back to that if that would be -- if 17 that would be okay. 18 MEMBER MILLER: Sure. 19 CO-CHAIR SUSMAN: Jeff, did you have 20 21 MEMBER MILLER: Sure, that --CO-CHAIR BROOKEY: 22 -- question?

-- would be fine. 1 MEMBER MILLER: 2 MEMBER SCHIFF: I think this is an evidence question. I am curious about -- and I 3 have been trying to -- I looked at this list 4 yesterday, and I can't seem to find it at the 5 moment, but I am curious about what you -- what 6 7 is not on the list that you thought had high --8 that you could not capture through the triggers? 9 And then I am also curious about --10 specifically, I am curious about the diagnostic 11 errors, which I think are harder to capture, and 12 whether or not they --13 DR. LANDRIGAN: Sure. 14 MEMBER SCHIFF: -- whether or not there is anything to say about the importance of 15 16 those versus some therapeutic errors. 17 DR. LANDRIGAN: Yes. So in terms of, 18 you know, what -- what's on the list and what's 19 not on the list, we -- we went through a pretty

extensive process when we started -- started

developing this measure to, you know, really

review the literature and get broad input and

20

21

consider I think kind of everything under the sun that was possible.

We looked at both published lists as well as, in speaking with developers, things that they used individually in their own institutions and so forth, and tried to develop a sense of, you know, what were going to be good triggers, what were going to be bad triggers, and then, as part of our RAND process, got folks to -- to vote on these, and then sort of subsequently tested them one by one to see which ones played out.

So I think that, you know, at the end of the day, the list that we have here is not terribly different than the list that exists in the adult world or some of the prior kind of pilot pediatric tools that were developed, but it is streamlined. It is things that I think have been more extensively tested where we developed more evidence on the performance of each of these individual triggers, and we are pretty confident that it is a good list that is going to give a really broad picture of what is going on in the

hospital.

I completely agree with your sentiment that there are some -- you know, there are some limitations to this method. It does not capture everything, even though it is pretty broad, and I think one of the areas where it does tend to miss things is diagnostic errors. I don't think it's a great tool for picking that sort of thing up.

of errors of commission, where there is an explicit thing that is done wrong that causes harm in a patient, than -- than a measure of omission, like a diagnostic mistake, for example. It does at least capture some of those as well -- (Simultaneous speaking.)

CO-CHAIR BROOKEY: So Marlene, did you have another question about evidence?

MEMBER MILLER: Me? No.

CO-CHAIR BROOKEY: Oh, okay. I think we should move on. I think that we are -- we are really answering the question of whether or not there is one outcome related to this particular

measure, and the outcome would be improve patient safety.

And I am going to call on myself as a discussant, since this is one of my two measures to review, and just to make a comment that in Kaiser, we have had some experience using trigger tools, so we -- we have been collaborative with data classing and so forth, and so I have a little bit of -- of firsthand knowledge of how good it could be, and how difficult it may be.

But as a pediatrician, I would have to argue that we probably should have started these studies with pediatrics instead of adult medicine because the opportunity for error and medication error is just far greater with dose-related dosing of medication, so this is really, as a pediatrician, something that I think is, you know, really fabulous for improving patient safety, even though we are inferring it from the adult data, from what I understand, what you said here.

So the question for the group is do we

1	does this particular outcome measure have a
2	relationship to a desired outcome, which would be
3	inferred here to be improved patient safety, I
4	would guess? And are there any other questions
5	about whether there is sufficient evidence for
6	this outcome measure before we vote?
7	(No audible response.)
8	CO-CHAIR BROOKEY: Are we ready to
9	vote? Okay.
LO	MS. JUNG: The voting for Measure 3136
L1	for evidence is now open. Option 1, pass; option
L2	2, not pass. And just to note, we will have a
L3	total of 22 votes for this because we have one
L <b>4</b>	CO-CHAIR BROOKEY: We have one
L5	recusal.
L6	MS. JUNG: Yes.
L7	(Pause.)
L8	MS. JUNG: Voting is now
L9	CO-CHAIR BROOKEY: Press really hard.
20	MS. JUNG: now closed.
21	(Laughter.)
22	MS. JUNG: The results are 95 percent

pass, with 21 votes, and one vote -- or 5 percent for not pass, with one vote. The measure has passed for evidence.

CO-CHAIR BROOKEY: Okay. Very good.

So we are going to move on to gap. And who would like to start, either Jill or Karen? Karen.

MEMBER HARPSTER: So I think as we kind of talked about, there is a gap. We don't have a pediatric tool of the measure at this point, so this would be the first, you know, taking a stab at it. The one thing again I mentioned before, the number of adverse events, but in the sample of the 16 hospitals that they looked at, there -- they identified 414 events, and 50 percent of them were preventable, so that is, again, a pretty large number, so I think that they have established that there is a gap.

And they also had -- they talked about disparities, too. I should mention that, and a gap in the disparities of racial ethnicity, and the number of chronic conditions had a number of input in the number of adverse events too.

1	CO-CHAIR BROOKEY: Jill, anything to
2	add?
3	MEMBER MORROW-GORTON: No.
4	CO-CHAIR BROOKEY: And I have nothing
5	to add. Any comments from the group, questions?
6	(No audible response.)
7	CO-CHAIR BROOKEY: Anyone on the
8	phone?
9	(No audible response.)
10	CO-CHAIR BROOKEY: Are we okay to vote
11	on gap? All right.
12	MS. JUNG: The voting for performance
13	gap for Measure 3136 is now open. Option 1,
14	high; option 2, moderate; option 3, low; and
15	option 4, insufficient.
16	(Pause.)
17	MS. JUNG: Voting is now closed. The
18	results are 73 percent voted for high, with 16
19	votes; 27 percent for moderate, with six votes; 0
20	percent for low, with zero votes; and 0 percent
21	for insufficient, with zero votes. The measure
22	has passed for performance gap.

CO-CHAIR BROOKEY: Great. 1 So we are 2 going to move to reliability, and I think we actually touched on some of these points in the 3 earlier discussion, but I will look to Jill to 4 see if you want to just comment on reliability. 5 MEMBER MORROW-GORTON: I -- I think 6 7 there was a question about whether or not the RAND methodology does empirical validity, and I 8 9 would like to hear a little more about what that 10 -- how that works, and -- and how you used that. 11 CO-CHAIR BROOKEY: That's a question 12 for the developer. 13 DR. LANDRIGAN: Sure. So, you know, 14 our approach to trying to come up with a valid and reliable tool really took a few steps. 15 16 Obviously, we started with a literature review, 17 as I mentioned, and then sort of moved from there 18 to taking things that were extracted from that 19 literature review to a review by -- by a RAND 20 appropriateness panel. 21 And really what that was is we had a 22 group of nine organizations, professional

members to consider these -- these measures,
where we essentially put before them trigger by
trigger what -- what we thought the relationship
was between that particular trigger and risk of
an adverse event, and had them rate, do they
think that this thing is a valid measure of that,
and then do they think it would be feasible to
extract it from the medical record if it went
live?

That generated for us really this list of 54 draft triggers, but the ultimate measurement of -- of validity and reliability of the measure went forward a step, where in the national field test, we -- we really looked at how well each of these recommended things had performed, and so I think of it, in this case, it is not the RAND method sort of operating in isolation, but for us, it was really a first step to getting towards more robust measures of reliability and validity that really were based on a direct assessment of the data.

MEMBER MORROW-GORTON: And I think the other -- the other piece that probably needs a little clarification here is that -- that your -- your data showed high specificity but low sensitivity for all of the reviewers, whether they were physicians, or, you know, your -- you considered some of them to be novices and some of them to be experts --

DR. LANDRIGAN: Sure.

MEMBER MORROW-GORTON: -- and they -and they all had sort of low sensitivity, and as
well, they had -- they may have identified
similar numbers of events, but they didn't
identify the same events, so -- so the question
is are there really more events there, and why is
the sensitivity low?

DR. LANDRIGAN: Sure. So, you know -you know, we tried to cross-check this in several
different ways to look as carefully as we could
at the reliability and validity of the measure,
and our primary measure was really within an
institution, how consistently can both nurses at

the primary review stage and then physicians at
the secondary review stage rate these events?
How frequently do they come to the same
conclusions about what is going on, in other
words, was there an adverse event in a particular
chart, and then if so, was it confirmed
preventable, what the severity level was, and so
forth?

And in doing that, you know, we -- we found that -- that there was really high reliability at that stage, with -- with 92 percent agreement at both the primary and the secondary stage with event identification. Then, as sort of a -- a secondary check of robustness, we then took those reviewers and put them to a pretty difficult standard, I think, which was comparing their reviews against the reviews of experts who had been doing this stuff for many years, and what we found in doing that is that the specificity of what our newly trained hospital-based reviewers found was quite high, you know, sort of in the 90 percent range.

Their sensitivity as compared with expert reviewers who had been doing this for many years tended to be low. They missed, you know, a relatively large proportion of the total events that were there. And just as you're suggesting, that to us indicated that there's probably more in the chart. Sometimes it goes, you know, undetected, and that experience makes some difference.

And we did take -- in trying to kind of further delve into that and understand well what are the limitations in our method for that, we looked at what happened over the course of the study as our reviewers gained more experience and found that their sensitivity actually improved significantly over the course of the study, and furthermore, that those institutions that had done this before -- you know, remember, again, we were a mix of community and academic centers.

Some of them had used trigger tools before, some of them had not.

When we subdivided and looked at those

1	that had a little bit more experience, their
2	sensitivity as well looked much better as
3	compared with the expert reviewers than did the
4	notices', and so we walked away from the process
5	thinking that that really what we need to do
6	is have a slightly more extended training
7	program, which we developed. We actually created
8	a series of five videos as the program ended to
9	try to get people to a more expert level to
10	begin. And then and then recognize that we
11	think we do need a ramp up period once people
12	begin to really use this where there is some
13	feedback that happens as they begin to go through
14	this process to get them up to that expert level
15	of sensitivity before this really goes live.
16	CO-CHAIR BROOKEY: Karen?
17	MEMBER HARPSTER: I have nothing to
18	add.
19	CO-CHAIR BROOKEY: So that does affect
20	the reliability, though, if there is a learning
21	curve or a I mean, that is obvious.
22	DR. LANDRIGAN: Right.

CO-CHAIR BROOKEY: So I think -
DR. LANDRIGAN: Right.

CO-CHAIR BROOKEY: -- we have to just understand that that is kind of a threat to reliability, right? Any other questions or concerns about reliability?

MEMBER AGORATUS: This is Lauren. I had a -- I understand that the rationale is to prevent events once someone is admitted, except that I was concerned that there was no follow-up for those that were in the ER and not admitted because sometimes lack of treatment could lead to an adverse event. Also, a question as to whether or not this includes mental health, and lastly, I looked at the -- it was a fairly comprehensive trigger list, but it was unclear whether UTIs from prolonged catheterization, which is a fairly common event, was included.

DR. LANDRIGAN: So I will -- I will answer the last question first. Yes, UTIs are included. Any type of a hospital-acquired infection would be included, or an infection

acquired as a consequence of healthcare intervention would be one of our captured types of events.

In terms of mental health admissions, the way that -- the way that the -- the tool is -- or the measure is structured, we are measuring, you know, again sort of really acute hospitalizations where patients are emergently coming into the institution, and that could include coming in for an overdose, you know, a -a psychotic break, for example. Any type of a really severe mental health condition that led to an acute hospitalization would be included here. It does not include sort of more chronic psychiatric care, if you will, rehab care, newborn nurseries, those types of not-quiteacute-care admissions, even though you might be in a facility for those.

And then I think there may have been a third facet to your question that I am forgetting. Did I miss something?

MEMBER AGORATUS: The -- the ER, the

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

1	people that are not admitted
2	DR. LANDRIGAN: Oh yes.
3	MEMBER AGORATUS: and that lack
4	yes.
5	DR. LANDRIGAN: Yes, and again, I
6	agree with that comment, that those are certainly
7	an important population to consider as well. It
8	really wasn't quite within the scope of what we
9	were trying to do here, but I certainly agree
10	with you that that is an important patient safety
11	arena as well.
12	CO-CHAIR BROOKEY: John?
13	MEMBER BOST: James.
14	CO-CHAIR BROOKEY: I am sorry, Jim.
15	MEMBER BOST: Obviously, most hospital
16	systems have a self-reporting like RL Solutions
17	or something like that for adverse events. Was
18	that data consulted at all when doing any of
19	these reliability or validity assessments?
20	DR. LANDRIGAN: Not not for this
21	specific study, no. There have been a number of
22	studies in the past that have tried to cross-

check those things against one another, and they have found that those types of voluntary reporting systems really only pick up a fraction of what this tool picks up, something in the ballpark of 2 to 10 percent depending on which study you look at.

In fact, there was one study by David Classen that I am thinking of now that I think it picked up 1 percent of what their trigger tool picked up, so we really do think that this is a much more robust way of capturing that. say that those systems are not valuable; I think that what those systems provide is a really detailed focused insight I think into the nature of -- of harms that occur in hospitals and help to focus institutional attention on trying to prevent these things, but if you are using it as a measure to try to track epidemiologically over time the frequency with which adverse events are occurring, I think this is much stronger than that sort of approach.

MEMBER BOST: Yes. I mean, I agree.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

I was just wondering, just in the sense of -just in the sense that -- did they maybe happen
to just pick up any that the testing process
didn't?

DR. STOCKWELL: So I had an earlier study that predated the GAPPS work where we did look at that. A very common number that seems to come out in the adult and pediatric literature for the overlap is about 8 to 10 percent, and the six hospital study that -- that we performed, then the overlap was 9. And so that -- as Chris is saying, I think that the way to -- to look at these two approaches to harm identification is that what we are presenting today is patient safety outcomes, and many of the voluntary admit reporting events are near-miss events, so have not reached the patient yet.

You need both. I mean, as a -- for operations in a hospital, you need -- you need both so that you can get those two lenses on patient safety, but we feel like this is the -- the more robust, as Chris said, more reliable way

_	to measure patient safety outcomes.
2	CO-CHAIR BROOKEY: Any other questions
3	about reliability before we go to vote?
4	(No audible response.)
5	CO-CHAIR BROOKEY: Are we ready to
6	vote? I wanted Suzanne to talk a little bit
7	about going to your algorithm for evidence,
8	this can only get a moderate, and so that is why
9	you can't vote for high, and I want her just to
LO	explain that for us for this and future measures.
L1	MS. THEBERGE: Sure. So for this, the
L <b>2</b>	reliability testing is at the data-element level
L3	only, which, according to our algorithm, the
L <b>4</b>	highest eligible is moderate. To be eligible for
L5	a high, we would need the measure score testing
L6	as well.
L <b>7</b>	CO-CHAIR BROOKEY: Okay. Should we
L8	vote?
L9	MS. JUNG: Voting for Measure 3136 for
20	reliability is now open. Option 1, moderate;
21	option 2, low; and option 3, insufficient.
22	(Pause.)

MS. JUNG: Voting is now closed. The results are 73 percent for moderate, with 16 votes; 27 percent for low, with six votes; and 0 percent for insufficient, with zero votes. The measure has passed for the reliability criterion.

CO-CHAIR BROOKEY: Great. We can move on to validity. Either Jill or Karen want to volunteer any comments about validity?

MEMBER HARPSTER: I think some of the comments that I had we discussed already. So, you know, one of the comments I had was about the lower sensitivity which we had already talked about.

They go on to talk about how we don't have a gold standard that exists, so we don't have that to use for that. But, they do talk about the base validity with the RAND methodology which they have discussed with us here today.

Other than that, I'm trying to see if I have any other comments here. I feel like we talked about a lot of the comments that I had on validity.

1	CO-CHAIR BROOKEY: Yes, I think we
2	kind of blended these two together a little bit.
3	MEMBER HARPSTER: Yes. So, I think we
4	and the length of stay of 24 hours, we kind of
5	talked about already, too.
6	CO-CHAIR BROOKEY: Yes.
7	MEMBER HARPSTER: I think we're good
8	as far as all the comments I had.
9	CO-CHAIR BROOKEY: Jill?
10	MEMBER MORROW GORTON: I agree, I
11	think we've covered a lot of this.
12	CO-CHAIR BROOKEY: I think we did.
13	Jeff?
14	CO-CHAIR SUSMAN: So, this is a
15	question for the developers. It seems that this
16	tool, I'm sure will be helpful. But, that you
17	have equated relatively minor events with some
18	things that are relatively major or egregious.
19	And, to me, that's a little threat to
20	your face validity as a clinician. And, thinking
21	about some of the apples and oranges sort of
22	gives you a fruit cocktail.

So, when you're reporting rates at an institutional level, I mean, maybe people are dying like flies at one institution and they're, you know, electrolyte imbalances or something in another.

DR. LANDRIGAN: Sure. And, so, we do have a means of rating the severity of these events as well. We use the NCC MERP scale where these things are put on this fairly standardized now five-point scale that gets you right from the electrolyte disturbances up to preventable death.

And, as really a submeasure of this, those would be reported as well. I agree with you, I think it's very important.

DR. STOCKWELL: And, the other point
I might make is that the focus of the measure is
decidedly preventable adverse events.

And, so, as is often the case, when we discuss patient safety or patient harm from those -- from the patient perspective, from the family perspective, if -- those more serious events can be just as unsettling to the patient or the

family as those that may resolve.

And, so, the scope of all of those events is something that we feel like we should be able to track and hopefully identify, improve and, at one point, eliminate.

CO-CHAIR SUSMAN: Yes, fair enough.

mean, it goes -- it may get into the usability or not so much a feasibility but the usability of the measures in terms of any unintended consequences of trying to compare hospitals because the rates may or may not truly be telling the same story.

And, I think we may have to put that aside if we think there's still benefit for trying to get this to happen in hospitals.

And, I think we have to understand that that's going to be a threat. But, I guess we would have to deal with it like we do with any other measure that it's -- especially if it becomes publically reported.

I think we all intuitively understand

that this is going to be challenging to compare 1 2 hospitals, even with a really solid measure. CO-CHAIR SUSMAN: Can I just ask one 3 other question? 4 When you looked at your community 5 hospitals and the academic referral centers, it 6 7 appeared that there were greater rates, if I remember correctly, at your academic centers, as 8 9 you sort of expect. 10 And, do you have any way that you've corrected for severity of illness de novo that 11 12 might help tell more of a story about rates of 13 adverse events? 14 DR. LANDRIGAN: Well, when we did our initial analyses, we did adjust for the presence 15 16 of chronic complex conditions. So, you know, 17 adjusting in a sense for chronicity of illness 18 and longstanding problems. 19 And, while certainly, those things 20 occurred more frequently in the academic medical 21 center, it did not, by any stretch, explain all the differences between the academic and the 22

community.

I image a lot of that is due to the fact that the academic centers are receiving the sickest patients from the community hospitals and so there's a real disparity there in the types of patients that they're seeing and that that really is an apples and oranges type of a comparison.

Our recommendation at the end was that, really, community hospitals and academic hospitals should, for purposes of comparison, be stratified. They really are sort of in different buckets and I don't think at some level it's appropriate to compare, you know, a large children's hospital with a smaller community center that is seeing a very different population of patients.

CO-CHAIR SUSMAN: Okay. So, you do recommend stratification?

DR. LANDRIGAN: Yes.

CO-CHAIR SUSMAN: That's probably -- okay, thanks.

CO-CHAIR BROOKEY: Any other comments

about validity before we go to vote? Okay. 1 2 MS. JUNG: As with the previous criterion, for validity testing this is only the 3 highest eligible rating is for moderate, just to 4 note, since it is a patient-level data element. 5 The measure -- the voting for Measure 6 7 3136 is now open for validity testing. Option 1, 8 moderate; option 2, low; and, option 3, 9 insufficient. Voting is now closed. The results are 10 73 percent with moderate with 16 votes, 6 percent 11 12 -- I mean, 27 percent for low with 6 votes and 0 percent for insufficient with 0 votes. 13 14 The measure has passed for validity. CO-CHAIR BROOKEY: Okay, moving on to 15 16 feasibility, I think that we clarified one concern we all had about the number of physicians 17 18 that would be involved in the review. 19 But, they're secondary reviewers, so 20 the first level of review are by RNs and then the 21 follow-ups would go to clinicians or physicians

in the hospital, which can present challenges

unless they're staff physicians paid for by the 1 2 hospital or for the medical group or whatever. So, that would be the one comment 3 about feasibility. 4 5 The other issue would be in terms of 6 having electronic system, maybe SPOE or, 7 hopefully, most hospitals are going electronic 8 and so they would be able to use electronic 9 triggers. But, that certainly would be a threat 10 11 if that wasn't available. 12 Jill, do you want to go ahead and make 13 your comments about feasibility? 14 MEMBER MORROW-GORTON: Yes, and I 15 think I talked about this earlier when we were 16 talking about evidence, so I probably put it in 17 the wrong place. 18 But, just kind of looking at what was 19 available in some places and not in others, what was in an electronic record, what was not in the 20 21 electronic record, what was able to be gained by a manual review. 22

But, I think you've really touched on that.

Can you give us a little sense of the cost, both time and money, related to training the reviewers, both the -- because you would have to train both your nurse reviewers and the physician reviewers?

DR. LANDRIGAN: Sure. So, the -- in terms of the training, the program that we have is really, it's five one-hour videos that we ask folks to go through that requires a little bit of homework in between, where, particularly, towards the end of that video series, they're going into their own real charts extracting, you know, practicing extracting some cases and then coming back to the training with, you know, really the opportunity to vet questions amongst themselves and sort of think through how these types of events should be rated.

So, it's -- I think it's not -- it's certainly not cost-free in terms of time, but I don't think it's enormously burdensome. And, the

1	hospitals that participated in this did not find
2	it to be too difficult.
3	Do you want to add to that, David?
4	DR. STOCKWELL: I do. Just, and also,
5	to tie in a little bit about the physician piece.
6	I think that I appreciate that we've been able
7	to clarify that, because there was clearly some
8	confusion around how much intensive physician
9	work there was to do this.
LO	And, if this relied on physicians
L1	digging around in charts, we all know this
L2	wouldn't go anywhere. Right?
L3	DR. LANDRIGAN: Right.
L <b>4</b>	(Laughter.)
L5	DR. STOCKWELL: So
L6	DR. LANDRIGAN: Unless we pay them.
L7	DR. STOCKWELL: All the nurses in the
L8	room are like, yes, I know that's right.
L9	(Laughter.)
20	DR. STOCKWELL: So, this time spent by
21	a physician by reviewing these events is
22	incredibly valuable. And, I'll tell you this
	$\Pi$

from experience at my own organization, when I 1 2 was leading safety and quality at Children's National, I was often the physician authenticator 3 4 for this process. That process itself was some of the 5 most valuable time that I ever spent learning 6 about how the practice of medicine was executed 7 8 at our organization. 9 And, so, we've estimated four hours a year at a minimum of physician time. 10 But, I would argue that that time is some of the best 11 12 that you can spend of learning where your 13 vulnerabilities are. Where are the problems that 14 the organization needs to address? And, so, I think it's incredibly 15 16 valuable time and, as we've constructed it, it's 17 actually a minimal impact on physicians as well. 18 MEMBER MORROW-GORTON: Do you offer 19 CME and CEUs? 20 (Laughter.) 21 DR. LANDRIGAN: That's a great idea. That's a good idea. 22 DR. STOCKWELL:

1	DR. LANDRIGAN: That's a great idea.
2	(OFF MICROPHONE COMMENT AND LAUGHTER)
3	CO-CHAIR BROOKEY: Do you have any
4	comments for
5	MEMBER HARPSTER: The only other
6	comment or question I might have is that, you
7	know have these videos and so, you know,
8	hopefully, that after watching the videos they're
9	really good at looking for what they need to look
LO	for.
L1	But, do you have some kind of process
L <b>2</b>	that's set inside if you have a reviewer that is
L3	maybe not where you want them to be after your
L <b>4</b>	training period and what that looks like?
L5	DR. LANDRIGAN: Yes, and I think it's
L6	a great question.
L7	In the study itself, we didn't have
L8	really any problems with our reviewers and with
L9	the training videos and a little bit of coaching
20	as they were getting started, things worked out
21	fine.
22	I think that, as this rolls forward

going forward, I do think it would be important for institutions to keep an eye on how their reviewers are performing.

We typically recommend that they hire at least two people to fill this role and they each have a bit of an opportunity to do both the primary reviews as well as the secondary reviews, which obviously allows for some diffusion of work, but also gives us the chance to make sure that they're well-calibrated with each other and that one person is not problematic, for example.

DR. STOCKWELL: The other point that may be useful to bring up is that, in addition to the videos, we have standardized charts that really have guides that walk you through the process and, if you miss this, this is what you missed and the nature of the event itself and describing those sort of things.

And, we recognize that there will certainly be flux in the reviewers' core team from -- for any organization. So, keeping that calibration, as Chris has mentioned, is, I think,

a very important aspect of it.

CO-CHAIR BROOKEY: So, tagging on to Marlene's earlier question, you know, my experience is that not all hospital electronic health records are the same. And, things that are very important may be missing in terms of like, for instance, we had an issue for a period of time where ABGs were not connected.

So, there was not -- we could not create a concurrent review of triggers based on ABG until we had that integrated into the system.

And, so, I guess my question is, is this going to be highly reliant on integrated, very sophisticated systems or is it going to be different from hospital to hospital in terms of being able to utilize the tool?

DR. LANDRIGAN: Yes, you know, it doesn't have to be. Obviously, if you have a well-coordinated, easy to read electronic health system, it makes life easier for the nurse reviewers.

But, this is really designed around

the idea that you could just be going through an 1 2 old paper record where, retrospectively, everything is printed out and stuck into a chart 3 to make it work. 4 5 CO-CHAIR BROOKEY: Okay. It speeds things if 6 DR. LANDRIGAN: 7 you don't have to do that, but it works 8 regardless. So, I think 9 CO-CHAIR BROOKEY: Okay. that we talked about feasibility. I think we 10 understand it requires people. 11 12 So, I mean, when we talk about --13 that's usually what we're talking about. It's 14 not something that we can just pull out of the system, administrative data. 15 16 So, I think we all recognize that. 17 And, so, I think the question will be whether the 18 group feels this is -- meets feasibility. And, I 19 guess we can rate it high, moderate, low or insufficient. 20 And, David, you wanted to make a 21 comment before we vote? 22

MEMBER KELLER: Only the, you know, all of this discussion of relying on the -- on institutional integrity brings to mind several learning collaboratives that we've been involved in where we've found ourselves to be holding ourselves to a much higher standard than our peers.

And, I'm wondering if you considered the unintended -- potential unintended consequences of, well, I think the process that you're describing is exactly the right one that should be undertaken within an institution by making it a measure.

And, you know, are we setting ourselves up for an unintended consequence of some folks gaming the system and then not having adequate external controls to be able to look for that kind of variation in implementation when we take this sort of a measure out into the field?

DR. LANDRIGAN: Yes, I think it's an important point. And, depending on where this goes in terms of public reporting and so forth, I

mean, I think there may very well be a role for 1 2 having occasional random audits of institutions by external reviewers as well as the internal 3 4 folks. 5 We certainly, even in the context of study, use that to make sure that we had good 6 7 reliability within the institutions and what they were detecting and reporting and so forth. 8 9 And, you know, I think if there's fear as time goes by about gaming the system here and 10 11 there's consequences that are associated with having certain rates of reported adverse events 12 using this measure, then I would think that some 13 14 type of a check might be important. CO-CHAIR BROOKEY: Okay, I think we 15 16 all understand the feasibility of this measure. 17 Are we ready to vote? 18 (NO RESPONSE) 19 CO-CHAIR BROOKEY: Okay. Voting on feasibility for 20 MS. JUNG: 21 Measure 3136 is now open. Option 1, high; option 2, moderate; option 3, low; and, option 4, 22

1 insufficient.

Voting is now closed. The results are 5 percent for high with 1 vote, 68 percent for moderate with 15 votes, 23 percent for low with 5 votes and 5 percent for insufficient with 1 vote.

The measure has passed the criterion for feasibility.

CO-CHAIR BROOKEY: Great. So,
usability follows feasibility and I think we kind
of touched on some of those issues including
unintended consequences if this gets out as a
publically reported measure.

I think that we have also talked about this is probably an important thing to do to look at potential harm in pediatric population.

So, I'm going to ask either Jill or Karen if you have any specific comments about usability?

MEMBER HARPSTER: I think we touched on them. I guess the only thing I would say is that, you know, it's not currently being used now. So, they mention that, you know --

1	CO-CHAIR BROOKEY: For children?
2	MEMBER HARPSTER: For children,
3	exactly.
4	But, that there's a potential for it
5	to be used.
6	MEMBER MORROW GORTON: So, I had two
7	questions. One is, what's the experience of
8	adult hospitals using this?
9	And, the second question is, and you
10	talked a little bit about differences between
11	hospitals, but my question would be, is this as
12	or more useful as an internal quality improvement
13	measure versus being compared across hospitals?
14	DR. STOCKWELL: So, my review of the
15	adult literature and just from some of the
16	experiences that I've had in working with David
17	Classen and understanding where many adult
18	organizations have been, there are there is
19	extensive use of, obviously, not gaps, but the
20	IHI Global Trigger Tool itself.
21	And, there is not necessarily national
22	use of the results of that, but there are many

organizations, large hospital organizations that will compare hospital to hospital within those organizations and they, by their accord, have found that quite useful.

And, so, I think that the same thing could be extrapolated to the pediatric environment with the caveats that we've already discussed.

DR. LANDRIGAN: And, with respect to your second question about its use as a benchmarking tool versus a quality improvement measurement, I think it certainly fulfills both roles.

I think that most institutions that began using early versions of this were primarily using it for quality improvement purposes. And, I think that's kind of the history of this in many respects.

But, you know, now, as we've begun to demonstrate some reliability and validity and so forth to the measure --- excuse me --- you know, our hope is that it could be used in a broader

sense as well for hospitals to benchmark against one another.

CO-CHAIR BROOKEY: Okay, Jeff?

MEMBER SCHIFF: I just want to speak to this from the point of view of a state program because I don't think we could ever use this successfully at the state program without getting skewered.

## (LAUGHTER)

MEMBER SCHIFF: No, I mean, I'm just being really honest about it. I think that this is exactly what needs to happen at the hospital level for the basis of quality improvement at the hospital.

And, what we could do at the state program, we do this sometime is insist that institutions put themselves through these processes and we just have to, at the state program, know that the process is happening.

So, in terms of usability, this is probably more a comment for NQF than for the developers is, I think there needs to be a place

for measures that we can endorse that are usable at the -- as a process measure that we should understand are being done so we, at the state level or the national level endorse them as confidential process measures or quality improvement measures that we don't ever ask for the results of but we know that they're actually happening.

it's exactly mine that I'm more interested in this hospitals doing this rather than reporting it. That's why I struggle with this as a measure because I'm much more interested in the process because of the potential harm that could happen if these results are shared publicly without really good interpretation.

And that's the issue that I have in terms of usability. But I would love to see this happen at every hospital that admits children.

Amy?

MEMBER HOUTROW: I basically have that same concern, especially with overlay. So,

there are certain health systems that are really invested in doing exactly this sort of thing in potentially a very robust way.

And, then there are high -- hold themselves a very high standard. Then there are others for which the systems they have in place would be very difficult to actually use this.

And so, we have a spectrum of potential usability and I'd like to ask the developers about the overly issue and duplication that might occur for some systems that are already pretty advanced in their --

CO-CHAIR BROOKEY: And I'm going to ask for a brief discussion because we're running a little bit over time on this topic. Okay?

DR. LANDRIGAN: You know, sure. I think that certainly is the case that, if you can do this in an automated fashion, it becomes a little bit easier for the institution.

But, we really did design this with the notion that it should be able to work in hospitals that have minimal resources along those

lines and minimal electronic health records to try to make it as easy as possible.

CO-CHAIR SUSMAN: So, it's sort of like rape reporting on campus, those that are really diligent are punished because their rates are higher. And, you know, it may be an apt analogy in some ways.

So, this idea of dissociating accountability from process measures, I think, is really important for NQF to get a hold of. So, I'm talking to this corner of the room because I think, frankly, there are many measures that are ready, just wonderful for improving internal processes and identifying issues quality improvement, but really aren't ready for prime time at a national accountability level.

CO-CHAIR BROOKEY: Jim?

MEMBER BOST: I just want to make sure that somewhere in they are you're really saying it's for system improvement and not any type of punitive use.

CO-CHAIR BROOKEY: Yes, I think that's

1	what we're talking about.
2	You can go ahead.
3	MEMBER MILLER: This is Marlene, could
4	I chime in?
5	CO-CHAIR BROOKEY: Go ahead, Marlene.
6	MEMBER MILLER: I agree with this
7	whole conversation and I just have had experience
8	of many other measures that get put forth saying
9	they're not ready for accountability and we don't
10	think they should be used there and then they
11	still get used there.
12	And, so, I just have a lot of
13	trepidation because there are no safeguards, no
14	processes to prevent that from happening and
15	using measures that aren't ready for
16	accountability in such a punitive way.
17	CO-CHAIR BROOKEY: Go ahead.
18	DR. AGRAWAL: So, very quickly, I
19	think you've tapped into a conversation that
20	we're having actively right now in the
21	background.
22	I certainly, in discussions with our

stakeholders, see this as a gap or a need. Lisa and Marcia are well aware of this.

I think we have to think through what that means for, you know, our -- the public agencies that are involved in the work, what means for the evidentiary base behind these measures.

Because, of course, we also know there are gaps in measures with an extensive evidentiary base that we want to be able to elevate for accountability purposes.

So, if we're not doing that, I think we have to be really thoughtful about it. But, you know, in the spirit of being responsive, I do think this is a really important topic.

DR. STOCKWELL: Can I clarify one thing? I think that the rape analogy is an interesting one, although, I think it's more akin -- the rape reporting is more akin to voluntary reporting.

And, the vulnerabilities that are -- that we've talked about with voluntary reporting.

What we're trying to present to you is a more systematic, reliable process to review patient records in a way that you can actually decrease a lot of that variability from hospital to hospital in terms of just the reporting method itself.

CO-CHAIR SUSMAN: It's really the element of gaming and assiduous review along the specified pathway that you have defined. I mean, I think your measure is really quite robust in many ways.

CO-CHAIR BROOKEY: Thank you.

I'm going to try to move us along. I think that we have good conversation here. This is not a must pass element, usability.

But, I think that when you're voting for usability and overall, individually, you'll have to consider all of these points about accountability, and, so, that'll influence your vote for the overall voting for this measure.

Are there any other points about usability that haven't been made already or

1	should we move to vote?
2	(NO RESPONSE)
3	CO-CHAIR BROOKEY: Vote? Okay, so,
4	we're voting for usability.
5	MS. JUNG: Voting for Measure 3136 for
6	usability and use is now open. Option 1, high;
7	option 2, moderate; option 3, low; and, option 4,
8	insufficient information.
9	Voting is now closed. The results are
10	0 percent with 0 votes for high, 45 percent for
11	moderate with 10 votes, 50 percent for low with
12	11 votes and 5 percent for insufficient with one
13	vote.
14	The measure has not met the criterion
15	for use and usability. Oh, consensus not
16	reached, apologies.
17	CO-CHAIR BROOKEY: Okay. Are there
18	any other points before we go to overall?
19	(NO RESPONSE)
20	CO-CHAIR BROOKEY: Okay, so, we're
21	going to vote for overall suitability for
22	endorsement.

1	Oh, I'm sorry, Carol.
2	MEMBER STANLEY: Just one minor
3	correction. I was wondering
4	CO-CHAIR BROOKEY: Can you use your
5	mic?
6	MEMBER STANLEY: I was wondering, I
7	noticed you have no exclusions and that comes
8	during the process. But, I think one question
9	that would come up is, why aren't patients who
LO	are transferred from another facility excluded,
L1	you know, if they're admitted with a UTI already
L <b>2</b>	from another institution?
L3	DR. LANDRIGAN: Sure.
L <b>4</b>	So, because that would get into, if
L5	this were to go to public reporting, those
L6	institutions that get a lot of transferred
L7	patients would essentially be punished.
L8	DR. LANDRIGAN: Right. Yes, we do,
L9	again, as a submeasure of this, track which of
20	these preventable adverse occurred within the
21	studied facility as opposed to having come in

from outside. So, it's easy to exclude that for

1	measure purposes.
2	CO-CHAIR BROOKEY: Jeff?
3	MEMBER SCHIFF: I just want to be
4	clear of the question, if we're voting for
5	suitability for endorsement, is that under the
6	overall open accountability framework of NQF?
7	CO-CHAIR BROOKEY: Yes.
8	MEMBER SCHIFF: Okay. Can we abstain?
9	(LAUGHTER)
10	MEMBER SCHIFF: I hate to cause a
11	rebellion, but I just think it's really I
12	don't want to disrespect the developer, but I
13	don't think this is appropriate for that kind of
14	measurement. So, I guess the answer would be we
15	should vote against it.
16	DR. NISHIMI: You are voting for
17	accountability.
18	MEMBER SCHIFF: Okay.
19	CO-CHAIR BROOKEY: So, if that is a
20	concern, you would vote no.
21	MEMBER SCHIFF: Okay.
22	CO-CHAIR BROOKEY: Okay?

1	Are we all clear what we're voting
2	for?
3	(NO RESPONSE)
4	CO-CHAIR BROOKEY: Okay. So, let's
5	vote for overall suitability.
6	MS. JUNG: Voting for overall
7	suitability for Measure 3136 is now open. Option
8	1 is yes; option 2 is no.
9	Voting is now closed. The results are
10	64 percent with 14 votes for yes, 36 percent with
11	8 votes for no.
12	The measure is recommended for NQF
13	endorsement.
14	CO-CHAIR BROOKEY: Great.
15	Well, I think we're warmed up now, so
16	that was a great discussion.
17	(LAUGHTER)
18	CO-CHAIR BROOKEY: Congratulations.
19	(APPLAUSE)
20	CO-CHAIR BROOKEY: Thank you.
21	So, we're going to take a break for
22	how long?

1	MS. THEBERGE: Fifteen minutes.
2	CO-CHAIR BROOKEY: Fifteen minutes, be
3	back in your seat in 15 minutes. Thank you.
4	MS. THEBERGE: 10:45 folks.
5	(Whereupon, the above-entitled matter
6	went off the record at 10:30 a.m. and resumed at
7	10:46 a.m.)
8	CO-CHAIR BROOKEY: Okay, we need to
9	keep on schedule, so if I could ask everyone to
10	return to their seat and we'll get started.
11	And, Rita, do you want to introduce
12	yourself and your team member and we'll get
13	started?
14	DR. MANGIONE-SMITH: Hi, I'm Rita
15	Mangione-Smith and I am the Director of the
16	Center of Excellence on Quality of Care Measures
17	for Children with Complex Needs at Seattle
18	Children's Research Institute.
19	And, this is one of our Center members
20	and research team members, Kim Arthur.
21	MS. ARTHUR: So, I will be presenting
22	Measure 3153, Continuity of Primary Care for

Children with Medical Complexity. Good morning.

We began our measure development process by creating a conceptual framework to identify care coordination processes that are related to short and long-term health outcomes for children with medical complexity.

Continuity of care emerged as foundational to care coordination because a continuous relationship with a single primary care provider or a small group of providers with in depth knowledge of a patient and family's needs could potentially increase efficiencies in care coordination, reduce avoidable utilization and improve health outcomes.

We conducted a literature review of continuity of care, defining continuity as the extent to which a patient's visits are concentrated in a single provider or a small group of providers. And, we were focused on primary care, to clarify that.

We found that the association between continuity of care and better outcomes has been

observed in multiple pediatric studies.

Better outcomes include lower ED utilization, lower risk of ambulatory care sensitive hospitalizations and greater primary care provider involvement and care coordination activities such as communication with other providers.

All of these studies use the Bice-Boxerman Continuity of Care Index which I will refer to today as the Bice-Boxerman COC Index.

This Index has multiple advantages over other measures of continuity of care.

First, it is sensitive to continuity with a small group of providers if a patient sees a few providers frequently.

Whereas, other existing measures assess continuity with only one main provider.

Second, it uses administrative data.

The Bice-Boxerman COC Index is, therefore, more feasible than parent reported measures and is not subject to recall bias.

All of the studies from our literature

review were Level II evidence according to the Oxford Center for Evidence-Based Medicine Levels.

We presented our literature review to a multistakeholder Delphi panel of nine panelists which included representatives of state Medicaid agencies and caregivers of children with medical complexity, among others.

The continuity of care measure we're reviewing today met face validity criteria. So, it was then operationalized and it underwent field testing in a sample of nearly 1,500 caregivers.

Those caregivers were children of medical -- with medical complexity and they were from two state Medicaid programs and that was using 2012 data.

We had compelling results at that time showing an association between higher continuity and lower emergency department utilization as well as greater likelihood of caregivers reporting that their child's care coordination needs had been met during the prior 12 months.

So, we then conducted the analyses that you have seen in our measure submission documentation to assess validity and reliability using 2008 Medicaid analytic extract for MACs data from 17 state Medicaid agencies.

We found that our measure had excellent reliability in this larger sample.

And, in our empirical validity testing, we found that children who passed our COC quality measure had lower odds of having an emergency department visit which was consistent with our previous findings.

I look forward to discussing this measure with you today and addressing any questions you may have.

Thank you.

CO-CHAIR BROOKEY: Great, thank you.

And, this measure is a structure measure, if you're following your algorithm.

And, I will ask, let's see here, we have Jill again, no, different, Marlene, I'm sorry.

Marlene, you're on the line, do you want to go

ahead and kick off?

MEMBER MILLER: Sure, focusing on the evidence, I think this measure correctly cites seven different articles linking the continuity of care to better outcomes.

I think the one thing -- I don't think even beyond these seven articles, if you just talk about, you know, gestalt and wisdom and what makes sense, there is a lot of also logic there behind the more that you are connected, the more you are less likely to have other inadvertent outcomes like unnecessary ED visits, et cetera.

The more you are actually connected and counseled and made sure you're, you know, compliant on your therapies, et cetera.

So, I think it has a lot of evidence going for it.

In addition, I think the one thing that is interesting is that all of the evidence behind it of this particular tool which, it was interesting to me, that it was something developed back in 1977.

All the evidence of those seven 1 2 articles uses this one tool. And, so, you know, it did raise some questions of, you know, are 3 there other better ways, maybe easier ways? 4 You know, should we look at other 5 evidence other than a lot of this research, not 6 7 only using the one tool, but came from one group about this link on continuity of care. 8 9 And, I say that, while in the meantime, I'd say that, you know, I think even on 10 11 a -- whether you'd call it evidence or just pure face validity, I think everyone agrees that this 12 one should make sense. 13 14 I guess the one thing that gave me pause in the evidence was using this rather older 15 16 published tool and that all of this cited 17 evidence uses only this one tool and it's 18 predominantly from one research group in terms of 19 the breadth of the evidence on it with this 20 particular tool from 1977. 21 CO-CHAIR BROOKEY: Okay, good points.

I should mention that Jeff Schiff is

recusing himself from this particular measure. 1 2 David, do you have comments? Yes, just a couple 3 MEMBER EINZIG: 4 comments. I agree that, on the surface level, 5 this absolutely makes sense. 6 7 Just a couple of questions that I 8 would raise, though, would be can it be a direct 9 correlation that seeing one provider or a small group of providers, is that a direct correlation 10 with improved patient outcomes? 11 12 And, then second thought is, if you're in the world of shared care and collaborative 13 14 care now, if you're in a large pediatric practice where that one patient may not see that one or 15 16 two providers, if they're in the same office or 17 in the same location, they may not bill. 18 they're still present, that's not -- they may not 19 get accounted for with looking at the claims 20 data. 21 So, those --22 CO-CHAIR BROOKEY: Do you want to put

1	that into a question for the developer?
2	MEMBER EINZIG: So, how would yes,
3	so how would yes, so a question would be,
4	direct correlation with improved care?
5	And, the second question is, how would
6	that get picked up if they're not scheduled with
7	that provider but that provider is still there?
8	CO-CHAIR BROOKEY: Go ahead.
9	MS. ARTHUR: Should I address the
10	previous comments as well or
11	CO-CHAIR BROOKEY: I would focus on
12	his questions
13	MS. ARTHUR: start here?
14	CO-CHAIR BROOKEY: yes.
15	MS. ARTHUR: Okay. So, it is true
16	that the studies we found were studies of
17	association and not causation. But they were
18	consistent across multiple studies.
19	And, in terms of, let's see, the
20	second question about, if the provider was
21	present, but it wasn't billed for that provider,
22	it's true that this measure would not capture

1	that.
2	I think that would be a reason to be
3	trying to make sure that the billing reflected
4	the provider who was the providers who were
5	there.
6	CO-CHAIR SUSMAN: So, I guess in
7	follow up, some of the most advanced systems are
8	providing continuity based on team, maybe a nurse
9	or other care coordinator and at least, as I
LO	understand this index, it's really focused, isn't
L1	it, on physician or is there a broader
L2	definition?
L3	MS. ARTHUR: We define primary care
L <b>4</b>	clinician as a physician, nurse practitioner or a
L5	PA.
L6	CO-CHAIR SUSMAN: But, a nurse who
L7	might be very well qualified to do care
L8	coordination who's not an NP or advanced practice
L9	nurse wouldn't be included, is that correct?
20	MS. ARTHUR: Oh, a nurse practitioner
21	would.

CO-CHAIR SUSMAN: Good, but one who is

1	not?
2	MS. ARTHUR: No.
3	CO-CHAIR SUSMAN: One who is not would
4	not be included as a continuity provider?
5	CO-CHAIR BROOKEY: Or a social worker
6	or a therapist?
7	MS. ARTHUR: This measure isn't
8	looking at that continuity.
9	CO-CHAIR BROOKEY: Right, right,
10	right, right.
11	CO-CHAIR SUSMAN: Right. So, I mean,
12	again, I'm just thinking about, and maybe it's
13	better discussed when we talk about validity,
14	that this is a threat where some system, a Kaiser
15	for example, that might have advanced systems of
16	care might be poorly represented by this measure?
17	MS. ARTHUR: One thing to say is that
18	that, if you're looking at social workers or
19	nurses, a healthcare plan would not be unfairly,
20	like would not be punished for that because
21	that's not measured in this measure, like, we're

not looking at that.

1 CO-CHAIR BROOKEY: Right. Well, I 2 guess the question would be, so the evidence here, and we're talking about evidence right now, 3 the evidence and all the research that has been 4 5 done is looking at this relationship with these providers and not with the extended team. 6 7 So, we're looking here at a very 8 limited range in terms of providers. But, that 9 is what you're evidence is suggesting leads to better outcomes even though intuitively know that 10 11 all these others are important as well. Is that 12 a fair statement? 13 DR. MANGIONE-SMITH: I think part of 14 what the measure is getting at is the idea of the 15 quarterback, right? That you have a team, but 16 you should have one consistent person who's 17 coordinating not only care for that child but 18 also the team that's caring for that child. 19 CO-CHAIR BROOKEY: Okay. 20 DR. MANGIONE-SMITH: So, I think like 21 Kim was saying, you're not going to get penalized

by having that team in place. What you'd be

penalized for is the child seeing somebody 1 2 different every time they come in --CO-CHAIR BROOKEY: 3 Right. DR. MANGIONE-SMITH: -- as a primary 4 care provider. 5 The one other thing I wanted to add in 6 7 relation to Marlene's question about the evidence, we did review evidence more broadly. 8 9 We looked at several different types of measures 10 of continuity of care that have been used and trialed. 11 We ended up staying with Bice-Boxerman 12 13 because it does actually give you credit for 14 seeing the same two people several times as well as giving credit for seeing the same one person 15 16 every time. 17 CO-CHAIR BROOKEY: Right, right. 18 DR. MANGIONE-SMITH: The other measures that are available strictly look at your 19 20 continuity with a single provider. So, you get 21 no credit if there's like a team of providers, 22 maybe they both work part-time and you always see

one of those two, you will have a higher score on Bice-Boxerman than somebody who is seeing those same two providers using one of the other measures.

Tara, do you have any comments?

MEMBER BRISTOL-ROUSE: Yes, you know,

I think one thing that stuck out for me is the

issue of, you know, communication being such a

vital part of continuity from certainly the

parent perspective that I have.

So, I know that there's, you know, this relationship between the two. But, just in thinking about practical lived experience, I think, you know, so much of it is less about, I mean obviously, I would love to see the same providers all the time, but it's also, even if it's a different provider, if it's a provider who knows my child and is able to speak competently with me, like, that's just as important as having someone I've seen before, maybe even more important if it's someone I've seen before who's

1	not a great communicator or is not really engaged
2	with my family.
3	So, just, I guess that point in terms
4	of the communication piece of continuity.
5	CO-CHAIR BROOKEY: Good comment.
6	David?
7	MEMBER KELLER: I will apologize if
8	I'm just reading this wrong, but I want to make
9	sure I'm clear on the denominator, because, in
10	the version I have, it says
11	MS. ARTHUR: It's wrong.
12	MEMBER KELLER: Okay. So, could
13	okay, good. Because, I read that like 15 times
14	trying to figure out what I was missing.
15	MS. ARTHUR: Yes, it's oh boy, we're
16	going to really trip people up with that.
17	MEMBER KELLER: Okay, so, it's
18	supposed to be the most complex kids, not the
19	other two categories with the lesser
20	MS. ARTHUR: Right.
21	MEMBER KELLER: two? Okay. Thank
22	you for that.

1 CO-CHAIR BROOKEY: That's why you're 2 on the group, Jeff, very good. So, Jill? 3 4 MEMBER MORROW-GORTON: Did I read 5 right that they have to have five or more visits, 6 sort of more than --- four or more? And, I quess 7 my question is, where did you come up with that 8 number? 9 And, in thinking about kids that have lots of complexities, if they don't need -- so, 10 11 adding more visits just for the purpose of 12 getting credit for this would not be -- would not 13 necessarily be a quality thing to do when you're 14 talking about primary care visits. So, just a 15 question of where that all fits? 16 MS. ARTHUR: Thank you for the 17 question. 18 So, the minimum of four visits was 19 based on the research that was done by Christakis, et al, and he found that the Bice-20 21 Boxerman Index was less stable if you had fewer

22

visits.

So, just like with any calculation, if you have a small denominator, whatever you calculate is going to be -- not going to be stable and it's going to be highly variable. So, that's where the four visits came from.

Also, I think it's important to think about, if you think about this population of children with medical complexity and you establish that four visit minimum, these are the children who are going in to primary care frequently compared to others and there's more opportunity to build that continuous relationship with those children who are going in more frequently.

And, I'll also say that, in our sample, the mean number of primary care provider visits was 4.63. So, the kids in our sample were coming in just over four visits and this was kids age 1 to 17, so across the age range, that was what our mean was if that helps give a sense.

CO-CHAIR BROOKEY: And, that was sort of stable across the age range, even with the

older?

MS. ARTHUR: No, older kids had fewer.

CO-CHAIR BROOKEY: Yes, yes.

MS. ARTHUR: Yes.

CO-CHAIR BROOKEY: Okay. I thought I saw somebody, oh, go ahead, Deborah.

MEMBER FATTORI: I'm just curious, as you looked at your evidence, did you look at generational differences with parents?

One of the things that we're struggling with, maybe struggling is too strong a word, but certainly being thoughtful about is, in our millennial parents, where seeing the same provider isn't as important to them as seeing a provider when they want to.

And, I'm just curious how that -- how this measure will impact that as long, I think to your point, Tara, as the communication is good, if they can use telehealth, if they can come in an evening or see the provider when they want, it might not be as important to them that they see the same provider.

That's an interesting 1 MS. ARTHUR: 2 question and I can't say that the evidence that we were looking at looked at generations. 3 So, is 4 there anything else I can address for you? MEMBER FATTORI: No, I was just 5 curious if that came up. It is one of the things 6 7 that we're seeing more and more with our younger 8 parents. 9 MS. ARTHUR: Yes. 10 MEMBER FATTORI: And, needing to meet the needs of those parents in our primary care 11 12 settings to -- as far as when they want to be seen and have their children seen. 13 14 CO-CHAIR BROOKEY: Yes, so coming back to this particular measure, we're looking at the 15 16 evidence to support this approach to continuity 17 of care with better outcomes to refocus our 18 discussion for future vote. 19 So, David? 20 MEMBER KELLER: I'm sorry, the other 21 question that I had which I forgot because I was

so obsessed with that other thing --

## (LAUGHTER)

MEMBER KELLER: -- I was sure it was -- I was reading it wrong.

Is the question of primary care visits, and how do you -- how to identify primary care visits? At least in our state Medicaid agency, we are -- state Medicaid database, we are unable to differentiate a subspecialty visit from a primary care visit within our system because we bill a single provider code.

So, I think that would lead to some challenges if you were trying to apply it in our state.

MS. ARTHUR: Sure. And, it's an excellent point. We had the good fortune to have the data programming and analysis people that work with Jeff sitting next to you in development of the specifications as well as the Washington State Medicaid data and analysis people.

And, in working with them, we tried to come up with this comprehensive list of codes as we could to capture these visits appropriately.

1	And, by doing the combination of the
2	NPI, the provider identifier and the place of
3	service, you can be pretty confident that it's
4	primary care because providers are, by their NPI,
5	there are ways to get at whether they're
6	subspecialty or primary care.
7	So, by limiting the type of provider
8	by NPI that we allowed in, we were hoping that we
9	would avoid some of the problem that you're
10	alluding to in terms of if you were just to use E
11	and M codes for the type of visit.
12	MEMBER KELLER: Right, I mean, and I
13	would have thought that would have been easy,
14	too. But, I've been told
15	MS. ARTHUR: It's not easy.
16	MEMBER KELLER: because I was going
17	to say
18	MS. ARTHUR: And, we would never
19	purport that it's easy.
20	MEMBER KELLER: Okay.
21	MS. ARTHUS: But, it is
22	MEMBER KELLER: Good, because, yes.

MS. ARTHUR: We found that it is 1 2 doable. MEMBER KELLER: It's doable? 3 4 MS. ARTHUR: Yes. MEMBER KELLER: Our state Medicaid 5 agencies struggles with that and we struggle with 6 them around that. 7 8 This is Lauren, just MEMBER AGORATUS: 9 to tag team on that, I'm not sure if there's a way to capture if the primary care physician is a 10 specialist, for example, for a transplant 11 12 patient. Your PCP might be the nephrologist. 13 DR. MANGIONE-SMITH: Right. So, this 14 measure would not look at subspecialty medical 15 homes, it would only look at primary care medical 16 homes. 17 And, so, if it were a child who is 18 getting most of their care including their 19 primary are from a subspecialist, which certainly 20 does happen, they would very likely not be 21 included in this measure because they wouldn't

meet the threshold of having had four primary

1	care visits in a measurement year.
2	MEMBER AGORATUS: Thank you for
3	clarifying.
4	DR. MANGIONE-SMITH: Sure.
5	CO-CHAIR BROOKEY: Okay. So, we have
6	a number of questions and comments and, remember,
7	we're talking about evidence for the measure.
8	So, I'm going to
9	Marlene, did you put your flag down or
10	did you not have a comment?
11	MEMBER EDIGER: I found
12	MEMBER MILLER: Oh, I didn't know it
13	was up.
14	MEMBER EDIGER: Oh, sorry, it's
15	Maureen.
16	CO-CHAIR BROOKEY: I'm sorry, Maureen.
17	MEMBER EDIGER: Similar names.
18	MEMBER MILLER: Sorry.
19	MEMBER EDIGER: That's all right.
20	My question was about emergency room
21	visits and I think I found my answer in the
22	report.

1 CO-CHAIR BROOKEY: Okay. 2 MEMBER MODAK: Just briefly to address the concern about team based care and about an RN 3 4 care coordinator. We actively use those for our 5 medically complex patients. And, that has 6 actually, I think it aligns well with this 7 8 because we've found it increases continuity with 9 the same provider or we have a dyad of providers who take care of patients in case one is not 10 11 there. 12 CO-CHAIR BROOKEY: So, you don't have 13 any concerns if they're not included? 14 MEMBER MODAK: I don't think so, I think it actually -- it's totally aligned with 15 16 this, yes. 17 CO-CHAIR BROOKEY: Yes, okay. 18 Carol? 19 MEMBER STANLEY: Yes, I was wondering 20 if you could speak to not having separate 21 stratification for age categories since you're 22 putting adolescents with the younger population

and the recommendation for primary care visits through AAP is vastly different for adolescents versus younger and how that bodes with the requirement of four or more visits?

DR. MANGIONE-SMITH: Right. So, there's not a requirement that you have four visits, we only put you in the denominator if you've had four visits.

So, if you're an adolescent who's not requiring much primary care, even though you're medically complex, you wouldn't even make it into the denominator for this measure.

That's why the majority of our population was in that younger age group because those are the kids who are coming in over and over again to primary care and those are the kids we want to be sure are having good continuity.

MS. ARTHUR: Right. I just was going to add, if you are an adolescent patient coming in at least four times, then we'd want to make sure you have continuity just like a younger patient is going to.

1 CO-CHAIR BROOKEY: Okay. I'm just 2 trying to think through that just a little bit. So, you're trying to give better outcomes and 3 4 you're probably looking at complex children, 5 whether they're young or adolescents that are likely coming in more often. 6 7 So making them and having them come in 8 four is probably reasonable to look at improved outcomes of decreased ED utilization and so 9 10 forth. Is that right? 11 MS. ARTHUR: That's correct. 12 CO-CHAIR BROOKEY: Okay. Is everyone 13 clear about what we're trying to measure? 14 again, we're looking at the evidence for this measure and its relationship to outcome. 15 16 Are we ready to vote for evidence you 17 think? Anybody on the phone have any other 18 concerns before we move on? 19 DR. MANGIONE-SMITH: We did want to 20 point out one thing in the review was that we did 21 actually evaluate the quality of the evidence

using the Oxford Center for Evidence-Based

Medicine criteria. It was one sentence in the
evidence review and I think it just got missed.
CO-CHAIR BROOKEY: Yes.
DR. MANGIONE-SMITH: They were all
Level II cohort studies.
CO-CHAIR BROOKEY: I think we're good.
Okay, you want to vote?
MEMBER MILLER: Can you remind the
scales?
MS. JUNG: Oops, sorry, hold on just
one moment. No, we didn't start yet.
Voting for Measure 3153 is now open
for evidence. Option 1, high; option 2,
moderate; option 3, low; and option 4,
insufficient.
Voting is now closed. The results are
14 percent for high with 3 votes, 77 percent for
moderate with 17 votes, 9 percent for low with 2
votes and 0 percent for insufficient with 0
votes.
The evidence has passed or the

1 CO-CHAIR BROOKEY: Great, so now we're 2 going to move on to gap. And, what page am I on I don't see a discussion on gap. 3 here? Here it 4 is, okay. 5 So, David, do you want to start out? MEMBER EINZIG: Gap exists, I don't 6 7 think that there was much else to add from other 8 committee members comments. 9 CO-CHAIR BROOKEY: Okay. 10 Marlene? 11 MEMBER MILLER: Yes, I agree, gap 12 exists. I think one question I had is, there was 13 a substantially large sample size, I think it was 14 like over 11,000 cases. And, so, there was a lot of 15 16 significance, but I wonder if the developers can 17 comment about the clinical significance? 18 So, for example, there was, you know, 19 a different pass rates of 67 percent continuity 20 of care versus 62 percent. And, is that sufficient? 21 Is that clinically meaningful is what I was lost on because it's such a large 22

sample size, I was worried if we lost sight of 1 2 clinical then there's just statistical significance? 3 4 DR. MANGIONE-SMITH: Hey, Marlene. 5 Yes, so, I think looking at the pass rates by age range or some of the other criteria, the P values 6 7 are certainly being influenced by the large 8 sample size. 9 I think what was striking to us was, 10 when you look at the range of scores across the 11 states, the 23 percent to 96 percent indicating 12 that there's huge variation in performance across 13 state Medicaid plans that we looked at in the 17 14 different states. That's where I think we're really 15 16 seeing what would probably be considered more 17 clinically significant differences in scores. 18 CO-CHAIR BROOKEY: Let me ask Tara to 19 Tara, do you have any comments? go next. 20 MEMBER BRISTOL-ROUSE: No, nothing 21 additional. CO-CHAIR BROOKEY: 22 Okay.

1	Jeff?
2	CO-CHAIR SUSMAN: It stretches my
3	credulity that there's a 96 percent at a
4	statewide level? I mean, I just I have almost
5	is that right?
6	DR. MANGIONE-SMITH: Yes, it's right.
7	CO-CHAIR SUSMAN: Might just miss it
8	on me. Because some of you work on the plan
9	level, state level all the time. It just wow.
10	CO-CHAIR BROOKEY: Is that correlated
11	to density and population or density of providers
12	or
13	DR. MANGIONE-SMITH: So,
14	interestingly, the variation available sample
15	size across the states was there was a big
16	variance, but this was actually one of our states
17	with a bigger sample size to draw from.
18	So, they had 450 eligible children.
19	So, it was not that it as a tiny sample size and
20	they just did really well on a few kids.
21	CO-CHAIR SUSMAN: Yes, no, just wow.
22	DR. MANGIONE-SMITH: You know, I guess

1	I could out them but I'm not going to.
2	CO-CHAIR SUSMAN: So, that's your
3	secret sauce?
4	DR. MANGIONE-SMITH: Right.
5	CO-CHAIR BROOKEY: Let's see, Carol?
6	MEMBER KELLER: Actually, I do know
7	that sample because there was a Massachusetts
8	has a specific program for its sickest kids
9	that's called CCM and my wife was the medical
10	director for it during that period of time.
11	And, if that's the sample that they're
12	drawing from, those kids have incredible
13	continuity of care. So, I do believe.
14	CO-CHAIR BROOKEY: Okay, Carol?
15	MEMBER KELLER: She wasn't the one
16	seeing them, but she supervised the program.
17	CO-CHAIR BROOKEY: Okay, let's see,
18	Ricardo?
19	MEMBER QUINONEZ: Did you was there
20	a correlation between that gap and primary care
21	and the outcomes you're trying to prevent so that
22	the states that have the lowest follow up have

the highest rates of emergency visits, for example?

DR. MANGIONE-SMITH: So, the analysis controlled for state. We did not look at ED use by state. But, in the overall analysis, the states that passed the measure that had higher pass rates had lower ED utilization.

MEMBER QUINONEZ: Okay.

CO-CHAIR BROOKEY: Jon?

MEMBER FINKELSTEIN: So, I, too, am the breadth of the variability by state makes me a little skeptical. So, because these are events that are happening at the provider group level being rolled up to a state and it's not -- it seemed implausible to me that one state has only wonderful provider groups, you would expect some regression to the mean as you combine different groups.

So, I just wonder, is there -- did you look for other kind of data quality explanations for this? So, people billing under a single NPI number in one clinic or any other things that

could have introduced funny things to make a state look better than it is or worse than it is?

DR. MANGIONE-SMITH: So, we deliberately included both states that had strictly fee-for-service, states that had a combination of managed care and fee-for-service. And, we know from working over the past five years with our Medicaid state partners in Washington and Minnesota that the managed care data is questionable at best many times and not complete.

We also know that the 2008 MACs data suffers terribly from incomplete managed care data. So, I would not be at all surprised if we looked at the states with lower performance, they probably have higher managed care penetration in terms of this population of children.

And, the ones that are mainly covering their kids with fee-for-service are probably the high performers because their data is much more complete.

So, I would say that that's probably

1	the biggest culprit here. We did try to use the
2	states with Jeff Silber's help, we got a lot of
3	information about which states have the higher
4	quality data in the MACs data and those are the
5	ones we tried to target. But, I still think we
6	ran into this issue.
7	CO-CHAIR BROOKEY: So, at this point,
8	we're just trying to decide if there's a gap.
9	So, if there's other
10	(LAUGHTER)
11	CO-CHAIR BROOKEY: important
12	questions about whether we have a gap, then I
13	invite them.
14	So, David?
15	(NO RESPONSE)
16	CO-CHAIR BROOKEY: Oh, okay.
17	So, is everyone decided whether we
18	have a gap or not? Can we vote for gap?
19	(NO RESPONSE)
20	CO-CHAIR BROOKEY: Okay, all right.
21	MS. JUNG: The voting for Measure 3153
22	for gap is now open. Option 1, high; option 2,

1	moderate; option 3, low; and, option 4,
2	insufficient.
3	The voting is now closed. The results
4	are 41 percent for high with 9 votes, 59 percent
5	for moderate with 13 votes, 0 percent for low
6	with 0 votes and 0 percent for insufficient with
7	0 votes.
8	The measure has passed for performance
9	gap.
10	CO-CHAIR BROOKEY: Okay, we can move
11	on to reliability. And, can I get a volunteer
12	from Marlene, David or Tara to go first?
13	(NO RESPONSE)
14	CO-CHAIR BROOKEY: Hearing none, I'll
15	go with Marlene.
16	(LAUGHTER)
17	MEMBER MILLER: Great, I get the short
18	straw, right?
19	I had no concerns about the
20	reliability. They're pretty much all based on
21	algorithms and they're well executed out the

What I wasn't clear on, and I think 1 2 it's in there, but I just wanted to ask specifically was how much of this was done 3 4 exclusively on ICD-10 which, obviously, we all 5 know greatly expanded the coding. I saw some wording there that there 6 7 was ICD-10, but I just wanted to be sure that 8 this was tested with ICD-10. 9 DR. MANGIONE-SMITH: So, the current 10 testing that was done was done on the 2008 11 medical extract file which is all ICD-9. 12 has not been testing in ICD-10, although the 13 algorithm to get the denominator, the pediatric 14 medical complexity algorithm will be released, 15 the ICD-9, ICD-10 combined version will be 16 released at the end of this month. 17 So, and that has been tested using 18 both ICD-9 and ICD-10 coded data and validated 19 with both. 20 So, we're confident that, at least in 21 terms of identifying the denominator population,

that should not be an issue.

1	MEMBER MILLER: Okay, so I thought I
2	was because I was that's why I was confused.
3	I know is saw ICD-10 in some places but the
4	bigger bulk of it has not been tested yet in 10?
5	DR. MANGIONE-SMITH: Yes, the testing
6	in this document was all done with ICD-9, but we
7	wanted to make clear that the ICD-10 version is
8	on the brink of being available.
9	MEMBER MILLER: Okay.
10	CO-CHAIR BROOKEY: David or Tara, any
11	comments?
12	(NO RESPONSE)
13	CO-CHAIR BROOKEY: I should note, I
14	think it's six eligible individuals per state
15	Medicaid agency for necessary, that's not very
16	many.
17	DR. MANGIONE-SMITH: We're just .7.
18	CO-CHAIR BROOKEY: For
19	DR. MANGIONE-SMITH: Yes, if you have
20	up to 20 we recommend up to 25 because that
21	pushes your reliability up to .9.
22	CO-CHAIR BROOKEY: Right, right.

1 DR. MANGIONE-SMITH: Yes. 2 CO-CHAIR BROOKEY: So, any concerns about reliability? I think this is clearly 3 described here. 4 Jim? 5 MEMBER BOST: Maybe it's not a concern 6 7 but from what I -- I see that it was only done on 8 Medicaid, and yet, your unit is health plan. 9 I guess just a little concerned that reliability 10 wasn't assessed at commercials plans. 11 DR. MANGIONE-SMITH: Right. So, we 12 only looked from state to state in terms of the 13 Medicaid health plans, that's correct. 14 Many of the states did have managed 15 care products, so there was some commercial 16 health plan in there. 17 But, you're right, we did not look at 18 commercial health plan -- compared to commercial 19 health plan. 20 CO-CHAIR BROOKEY: So, just for my 21 benefit, because I'm very California-centric, 22 when you say Medicaid health plan, you're

1	including both fee-for-service and managed care?
2	DR. MANGIONE-SMITH: Yes.
3	CO-CHAIR BROOKEY: Okay. Any
4	other questions or concerns?
5	MEMBER AGORATUS: Yes, this is one
6	from Lauren.
7	In terms of the continuous coverage,
8	what happens if they switch plans?
9	MS. ARTHUR: We
10	MEMBER AGORATUS: Is that in the
11	report?
12	MS. ARTHUR: Sure, thanks for the
13	questions.
14	So, to clarify, we were looking at
15	continuous enrollment in order to be eligible.
16	And, continuous enrollment in a single plan and
17	they could have no more than a 30-day gap.
18	And, so, if a child switched plans,
19	they wouldn't be eligible.
20	MEMBER AGORATUS: Thank you.
21	CO-CHAIR BROOKEY: If they went from
22	fee-for-service to managed care, they would not

be eligible. 1 2 MS. ARTHUR: No, that would be a plan switch. 3 4 CO-CHAIR BROOKEY: Okay. Carol? 5 So, a little while 6 MEMBER STANLEY: ago, you mentioned that disparity between the 7 8 numbers, one of your hypothesis is that in 9 managed care, the data's not being captured as well possibly as it is in fee-for-service. 10 11 And, so, with health plans being the 12 level of analysis, why would there be -- why 13 would you use claims and not use a hybrid 14 methodology for this measure if you're finding 15 that with health plans there may be data 16 integrity issues? 17 DR. MANGIONE-SMITH: Right. So, let 18 me clarify. 19 There are issues with the managed care 20 data in the MACs file, which is what we used. 21 Our understanding, at least from our Medicaid

partners in Washington State, now that almost all

children are on Medicaid managed care, there's 1 2 almost nobody on classical fee-for-service anymore, their data that they're getting from the 3 4 health plans is far more complete than it used to 5 be. So, and the testing we did in our two 6 7 states, the 1,500 that we did for part of our 8 measure development, we saw, you know, very 9 similar performance to what we're seeing here, but did not have -- we did not have the same 10 11 concerns with data being absent in that run that 12 we did in the MACs file. 13 So, I don't -- I do think these source 14 health plans have the data that's needed to do 15 But, the states, at least back in 2008 in 16 the, you know MACs file, we're not getting 17 complete data from them. 18 CO-CHAIR BROOKEY: Any other comments 19 about reliability or should we vote? 20 (NO RESPONSE) 21 CO-CHAIR BROOKEY: Vote? Okay. 22 MS. JUNG: The voting for Measure 3153

1	for reliability is now open. Option 1, high;
2	option 2, moderate; option 3, low; and, option 4,
3	insufficient.
4	The voting is now closed. The results
5	are 23 percent for high with 5 votes, 64 percent
6	for moderate with 14 votes, 9 percent for low
7	with 2 votes and 5 percent for insufficient with
8	1 vote.
9	The measure has passed for
10	reliability.
11	CO-CHAIR BROOKEY: Okay, so let's move
12	on to validity.
13	David, do you want to lead this one?
14	MEMBER EINZIG: If there are any other
15	members who are more of a numbers person, that'd
16	be great. Otherwise, it appears valid and I
17	don't have much else to add.
18	MEMBER MILLER: This is Marlene, I can
19	chime in, if that's all right.
20	Can you hear me?
21	CO-CHAIR BROOKEY: Yes, go ahead,
22	Marlene.

MEMBER MILLER: Okay, great.

So, I think there's a lot of evidence presented both for empiric and face validity. I think the main concern I had with validity was the fact that the continuity of care with this scale all the ways you can measure and all the variability we just talked about and reliability, between states, for examples, they put down to a simple dichotomization of pass/fail.

And, I really worried about that having real validity in terms of -- because we know continuity of care is much more complex than that. It's either not a pass/fail, black or white.

So, I was wondering if the developers could comment on that in the methodology.

DR. MANGIONE-SMITH: Right, so, this score is pass/fail based on whether your COC index ranges from .5 or higher.

So, COC index can go from 0 to 1, all of the studies that we reviewed, you know, when they were looking at relationship to outcomes,

they were looking at different levels of the Bice-Boxerman Continuity of Care Index and how that related to outcomes.

The vast majority of them, in fact, I think all of them found that the better outcomes started happening right around .5.

So, we wanted to give credit to any case that was included in a state sample, in the Medicaid sample where that child's Bice-Boxerman Continuity of Care Index was .5 or higher rather than saying, you know, we want to know the continuous value or the mean value of Bice-Boxerman COC for your state.

We could have done it either way, but we felt that the evidence was really suggestive that there were these clear cut points where outcomes were better.

And, that's -- and it also, I think, makes it a more straightforward measure to interpret and potentially to improve on.

So, if you know that the bar you're trying to make is I just I need to get my

1 population at least up to .5 if I want to see 2 improved outcomes, it's just a little bit more straightforward, we felt. 3 MS. ARTHUR: Also, I can add that the 4 5 mean COC in our study in this analysis was .65 6 actually. And, in those previous studies that looked at improvements stating at the .4 or .5 7 8 five level, the mean COC was actually around .4 9 or .5. 10 DR. MANGIONE-SMITH: So, they're 11 pretty similar. 12 CO-CHAIR BROOKEY: Carol? I meant 13 Jon. 14 MEMBER FINKELSTEIN: We get confused 15 all the time. 16 (LAUGHTER) 17 MEMBER FINKELSTEIN: So, in looking at 18 your data on ER visits, the outs ratio was in the 19 .9 range which is a 10 percent lower rate of 20 people hitting the ED who have good continuity compared. 21 22 Were you happy with that? Was that the magnitude you were -- as a guy who kind of philosophically believes in continuity, I was a little disappointed, but maybe that's the magnitude of effect you'd expect. I was just wondering about that.

DR. MANGIONE-SMITH: Yes, actually, I think it is the magnitude we would expect. There are very few interventions that can drag down ED rates by 10 percent.

So, if we could even get that far down, I think we'd be accomplishing something.

MS. ARTHUR: Also, there was a study that we hadn't mentioned today that looked at costs avoided with ED visits. And, they actually found, this was a study by McBurney and colleagues, and they found that increasing continuity of care by ten percent points yielded a decline in expected ED visits from around 1,300 -- 1,362 to 1,290. And, there was a cost savings of almost \$20,000.

So, I mean, you'd love to see more, but it's meaningful.

1	CO-CHAIR BROOKEY: Well, there is one
2	intervention that's effective, it's called co-
3	payments. I don't think any of these states have
4	co-payments, do they?
5	MS. ARTHUR: The grand health
6	experiment.
7	CO-CHAIR BROOKEY: Yes.
8	Jill?
9	MEMBER MORROW-GORTON: So, they might
10	have co-payments, depending on the state.
11	But, anyway, my question
12	CO-CHAIR BROOKEY: This is true, there
13	are some states that have Medicaid co-payments.
14	MEMBER MORROW-GORTON: Yes, there are
15	a few that have
16	CO-CHAIR BROOKEY: Yes.
17	MEMBER MORROW-GORTON: co-payments
18	for various things, yes. It's like a dollar or
19	\$3 or something like that.
20	But, for a poor family, that could be
21	meaningful.
22	(OFF MICROPHONE COMMENTS)

1 MEMBER MORROW-GORTON: Yes, so my 2 question, as you looked at ED visits, and it could be that they are pushing not going to the 3 ED, going to their primary care doc and then 4 5 getting direct admitted from the primary care doc, which you would not capture in ED visits. 6 7 Did you look at hospitalizations? 8 So, you've got ED visits savings, but 9 you might, you know, you might not really have gotten any savings because we wouldn't have paid 10 11 for that ED visit if they got admitted. We would 12 have just paid for the admission. DR. MANGIONE-SMITH: 13 In this 14 particular analysis, we did not look at hospitalizations. We felt we would have to look 15 16 at ambulatory care sensitive hospitalizations. 17 And, in pediatrics, at least, that is not -- they 18 are not well defined. 19 There is only one study that we were 20 able to find that had any outlining of codes that 21 you might use for it.

And, the quality of the MACs data was

1	such that we just felt we couldn't adequately
2	look at that outcome in that data. So, it's two
3	incomes late.
4	CO-CHAIR BROOKEY: Any other questions
5	about validity?
6	(NO RESPONSE)
7	CO-CHAIR BROOKEY: On the phone?
8	(NO RESPONSE)
9	CO-CHAIR BROOKEY: Okay, should we
10	vote?
11	MS. JUNG: Voting for Measure 3153 for
12	validity is now open. Option 1, high; option 2,
13	moderate; option 3, low; and, option 4,
14	insufficient.
15	Voting is now closed. The results are
16	5 percent for high with 1 vote, 77 percent for
17	moderate with 17 votes, 18 percent for low with 4
18	votes and 0 percent for insufficient with 0
19	votes.
20	The measure has passed for validity.
21	CO-CHAIR BROOKEY: Okay, so for
22	feasibility, let me just, before I turn it over

to the discussants, just to ask you to clarify a comment you made about getting data for managed care, and so, in terms of how it relates to feasibility. Is that going to be an issue from state to state?

DR. MANGIONE-SMITH: So, I think for state Medicaid agencies, as they have moved away from fee-for-service and towards Medicaid managed care, my understanding, at least from our partners, and I can only talk about my NF2 which is Minnesota and Washington, that it is getting better.

They are -- their data is more complete than it was, say, five years ago and they have much more confidence that it's complete.

Having said that, there will probably be states where there is not complete data. And, I, you know, I don't, unfortunately, have like, you know, fact-base to go on because I don't have direct contacts at all 50 states, so I don't know.

1	CO-CHAIR BROOKEY: Okay, David or Tara
2	or Marlene, any comments about feasibility?
3	MEMBER MILLER: No, I mean, I had some
4	concerns, I don't know whether where to kind
5	of go with them that this would require anybody
6	who wanted to do this to reach out to the
7	developer's website and get the SAS code.
8	You know, it's not something that they
9	could run independent of their own shop and then
10	they always worry about accessibility and will
11	that always be there kind of thing.
12	MEMBER EINZIG: It's electronic claims
13	data, so it's feasible.
14	CO-CHAIR BROOKEY: Yes, it's feasible.
15	Tara, any comments?
16	MEMBER BRISTOL-ROUSE: No, I mean,
17	obviously, one of the benefits is, you know, as
18	opposed to parent report data is that it comes
19	from claims data.
20	CO-CHAIR BROOKEY: Any other comments
21	about feasibility? Go ahead.
22	MEMBER FEI: My question's probably

rather general, but any thought to the feasibility, but also being able to implement it within commercial claims?

I mean, I know, in a commercial PPO world, perhaps the volume is less, but we would be interested to know if we could actually take that SAS code and like apply it to our warehouse?

DR. MANGIONE-SMITH: Absolutely. So, one, actually, two of the studies were done in commercial data.

MEMBER FEI: Okay.

DR. MANGIONE-SMITH: One was done by

Jeff Tom who actually used the exact same code

that we used for this study in the Hawaii, I

think it's Blue Cross, it's the -- they cover

like 80 percent of the privately insured lives in

Hawaii.

So, he ran his analysis and actually, interestingly, back -- the question about ambulatory care is sensitive hospitalizations, he was able to look at that because we have this very complete data and his was the one study that

1	did show that, as your COC went up, your
2	ambulatory care sensitive hospitalizations went
3	down and children with at least one chronic
4	condition.
5	CO-CHAIR BROOKEY: Okay, another other
6	comments or should we vote on feasibility?
7	(NO RESPONSE)
8	CO-CHAIR BROOKEY: Okay, we'll vote.
9	MS. JUNG: Voting for Measure 3153 for
LO	feasibility is now open. Option 1, high; option
L1	2, moderate; option 3, low; and, option 4,
L2	insufficient.
L3	Voting is now closed. The results are
L <b>4</b>	36 percent for high with 8 votes, 64 percent for
L5	moderate with 14 votes, 0 percent for low with 0
L6	votes and 0 percent for insufficient with 0
L7	votes.
L8	The measure has passed on feasibility.
L9	CO-CHAIR BROOKEY: Okay, so then we'll
20	move to usability and use. Any of the
21	discussants want to lead?
22	David?

MEMBER EINZIG: So, just a few comments on usability and use. So, it says MAP imbedded, I'm curious, this might be in here, but a small group of providers, does that define what is the number for a small number of providers?

MS. ARTHUR: What we really were intending to say with that was that the Bice-Boxerman Index, as we mentioned before, is sensitive to detect continuity with more than one provider.

So, perhaps it wasn't clear that we define -- you know, we define small group. But, it really was just that concept that it's more than one and it can still detect continuity.

MEMBER EINZIG: And, then, just final comment, you know, I think parent perspective is really valuable here, too, that if we're using this -- planning to use this measure, I think it would be useful to get more parent and family feedback in terms of from the family perspective if it's ongoing -- of ongoing value in current day terms.

MS. ARTHUR: So, I'm actually wearing two hats here today. I am the proud mother of medically complex twins who are three, so I can't resist putting on that hat for just a minute to say that my -- in my experience, I've been doing pretty much all the care coordination. That's been my personal experience with my end of one hat on.

But, what I also will say is that I have very rarely seen the physician who is supposed to be my primary care provider because every time my girls are sick, we see whoever can see them right away or whoever can see them to follow up from the ED.

And, so, to sit here and see this measure and think, wow, if there was -- if it was a priority for me to actually see that person who really, truly does know our history, although now, it's been over a year since I've seen him, it would have made a difference.

So, I can just -- if you're asking for a parent and family opinion, I can't keep quiet.

1 DR. MANGIONE-SMITH: And, the other 2 thing I'll add, the process that our center used, Carolyn Allshouse, who's the person who directs 3 4 Family Voices of Minnesota, as part of our 5 center. And, she brought in a whole group of 6 7 parents into our measure development process. 8 So, every measure that's come out of our center 9 was, the literature reviews are read by the 10 parents, the measures were commented on by the 11 parents. 12 And, we really took their feedback and 13 quite, quite seriously. They were involved from 14 the beginning to the end. In fact, Carolyn's an author on many 15 16 of our papers that have come out of the center 17 work. 18 So, we are very cognizant of the 19 importance of parent input on this particular 20 population. And, really tried very hard to have 21 serious incorporation of that view.

CO-CHAIR BROOKEY:

22

Comments about

usability?

MEMBER BRISTOL-ROUSE: Yes, I think,
you know, I would just reiterate my comments
about communication being so key because I can
think very specifically about one provider who we
had never seen before from our practice who was
as good if maybe even not better than our primary
care provider.

So, I guess what I am struggling with this is that I think this measure is necessary, but it just may not be sufficient.

CO-CHAIR BROOKEY: Yes.

So, Jill?

MEMBER MORROW-GORTON: And, I just want to piggyback on that. You're measuring both sort of well visits and continuity visits and sick visits and if you only have sick visits, the likelihood you're going to be able to see the same practitioner is going to be small because they can't work 24 hours a day 7 days a week 365 days a year.

But, I guess my question is, where is

the quality? Is the quality in any visit? Is
the quality in those regular, not your sick, we
have a problem, but those regular how are things
going, what do we need to fix, those sort of, you
know, the kids with ADHD that you see four times
a year because that's how you keep track of
what's going on versus, you know, they have a
sore throat and they get it checked because they
happen to see the same doc.

And then, my second comment is from the vantage point of a payer, what this says to me is we should just pay docs to see kids more when I'm -- I mean, not more money, but we should just pay them for more visits.

When, you know, David's comment about the CCM program, well the reason the CCM kids get to the doc as frequently as they do is because they have a nurse case manager who they're talking with on a probably weekly, if not multiple times a week. And, it's that person that's driving things.

So, my concern is, you know, is this

1	capturing what is driving or is this sort of a
2	proxy for that?
3	DR. MANGIONE-SMITH: So, a lot of
4	things in there.
5	(LAUGHTER)
6	DR. MANGIONE-SMITH: Where can I
7	start?
8	So, I think your point that the, you
9	know, sort of the biannual, quarterly, whatever,
10	continuity visit, right, where you're trying to
11	see that same person who's doing the care
12	coordination and thinking about how do we tune up
13	your care plan? How do we do all the
14	coordination things that are needed?
15	You know, do I want you to see that
16	same person or no more than two people who are
17	focusing on that?
18	Yes, I think it's those visits,
19	it's probably more important than the strep
20	throat visit.
21	That's part of the reason the measure
22	takes you down to .5 and still says you pass

because we know you're going to have to see other people when you're sick a lot of the time.

You're not, I don't want to work 365/7, you know,
7 days a week, you know, whatever. And nobody can do that.

I don't think this measure incentivized seeing more visits. I want to be clear or pushing people to have more visits.

This measure is looking at those people who are naturally already doing that and saying we want to make sure you're having decent continuity if you're coming in a lot and accessing care a lot.

Because that's a signal that things are not under good control. And, one of the tenants, at least in our conceptual framework, the way you get things under control, is to have it just a couple of people who are trying to figure out why are things breaking down? Why aren't things going well? What do we need to change so that your child does better?

CO-CHAIR BROOKEY:

So, just sort of

backing into the evidence, I think that we agree that the evidence was strong for this measure. But, speaking as a pediatrician that only sees patients one day a week, every time a patient sees me, it's a failure of the system because I'm seeing somebody else's patient because I don't have a panel. Okay?

So, what I try to do is communicate as well as I can, to Tara's point, because I know that I may never see this patient again.

But, we do and if you have an organized system, and not everyone does for Medicaid, then you have to incentivize your medical groups and so forth to make a priority for PCP bonding and having the patients only primarily see one particular provider or a small group of providers.

So, I think there is an action that can come out of this, but it's not an easy one, especially when the primary goal of most Medicaid providers is not bonding, it's access in general.

MS. ARTHUR: I think it's important to

keep in mind, too, though, we are talking about like six percent of the U.S. child population and that we've focused this on children with medical complexity.

And, I think that that's an important distinction to make.

CO-CHAIR BROOKEY: I'm just saying that it's still not easy to do, but I think there has to be some energy and leadership around it to make it happen.

## So, David?

MEMBER KELLER: No, I share Jon's love of continuity and I think it's important and I share your problem as a one day a week person who actually does have a panel because we all have to have a panel and it's very challenging.

I spend a lot of time talking with my colleagues who see patients the days I'm not there.

Actually, I had a difference question, though, which is, you've proposed this as a plan level or a sort of system level. Has there given

much thought to making this a healthcare system level measure in addition to being a plan measure?

I can -- I think there is one of the problems in our large multispecialty organizations that we have, the Kaisers of the world, the children's hospitals of the world, is that we don't value continuity within our own organization and I can see value in pushing out a measure like this to be used at an organizational level as well as a plan level.

DR. MANGIONE-SMITH: Not something, obviously, that we tested, definitely something of interest. I think with accountable care organizations, this sort of thing should be at this, you know, should be very central to what they're trying to do.

CO-CHAIR BROOKEY: Okay, so, I'm going to take a comment from Maureen. We do have lunch here if you want to try to wrap up a little earlier, we can get there a little earlier.

So, Maureen?

MEMBER EDIGER: That's a lot of pressure to be concise.

## (LAUGHTER)

MEMBER EDIGER: So, you asked for the parent opinion, so just really quick. When I think about the times when it was most important that I had the continuity of our pediatrician who knows our family so well that she's had our twin's birthday party at her house.

Unfortunately, when you have a medically complex kid, you end up making these relationships that are outside of the sort of normal.

And, so, I feel really lucky to have those and I know I have a couple of nurses that have just given me their cell phone number and said, just text me, don't bother coming into to the ER.

So, this doesn't capture all of the work arounds that parents have done who have very complex kiddos. But, I think it's important to acknowledge that not all parents have the ability

to make those relationships, that they're not going to be assertive enough, they're not going to speak the same language, they're not going to be able to forge those kind of relationships.

so, I just feel like it's important to acknowledge that you get into a little bit of -there's not all families are playing the same
system. And, the goal is that, you know, my goal
is to stay out of the office and the hospital as
much as possible and I wish 2017 Maureen could go
and talk to 2009 Maureen and tell her that that
would be goal because it took me a while to get
there.

## (LAUGHTER)

MEMBER EDIGER: So, that's why I think there's something really important about parents being able to mentor and help other parents find those skills, not just about asking questions, but being assertive and finding a way to kind of work around some of the systems.

That's all. Lunch.

CO-CHAIR BROOKEY: Not quite, but any

1	other comments before we vote?
2	(LAUGHTER)
3	CO-CHAIR BROOKEY: All right, good
4	discussion. Let's go ahead and vote.
5	MS. JUNG: The voting for Measure 3153
6	for use and usability is now open. Option 1,
7	high; option 2, moderate; options 3, low; and,
8	option 4, insufficient.
9	The voting is now closed. The results
10	are 5 percent for high with 1 vote, 73 percent
11	for moderate with 16 votes, 23 percent for low
12	with 5 votes and 0 percent for insufficient with
13	0 votes.
14	The measure has passed for usability
15	and use.
16	CO-CHAIR BROOKEY: Okay, and before we
17	vote for overall, any additional comments?
18	(NO RESPONSE)
19	CO-CHAIR BROOKEY: Okay.
20	MS. JUNG: The measure is now open for
21	overall suitability for endorsement. Option 1,
22	yes; option 2, no.

1	CO-CHAIR BROOKEY: People are pointing
2	all over the room.
3	(LAUGHTER)
4	MS. JUNG: Voting is now closed. The
5	results are 77 percent for yes with 17 votes, 23
6	percent for no with 5 votes.
7	The measure is recommended for
8	endorsement.
9	CO-CHAIR BROOKEY: Thank you.
10	All right, so, before we break, do we
11	have any NQF member of public comments?
12	OPERATOR: At this time, if you would
13	like to make a comment, please press star then
14	the number one.
15	And there are no public comments from
16	the phone lines.
17	CO-CHAIR BROOKEY: No comments, okay.
18	All right, are there any comments from
19	you before we break?
20	(NO RESPONSE)
21	CO-CHAIR BROOKEY: Okay. So, we have
22	we're a little ahead of schedule and I'd like

to keep us ahead of schedule if that's okay. 1 2 we're supposed to get how much time for lunch? Twenty minutes, so, let's say at ten after, even 3 4 if you have food in front of you, we'll get 5 started again, is that all right? 6 Okay. (Whereupon, the above-entitled matter 7 8 went off the record at 11:49 a.m. and resumed at 9 12:15 p.m.) 10 CO-CHAIR SUSMAN: Okay, folks, I'd ask 11 you to gather around and we're going to restart. 12 Please feel free to get your dessert or fruit, we 13 have some healthy options here today. 14 And, we're going to start with rate of emergency department visit use for children 15 16 managed for identifiable asthma, visits per 100 17 child years. And, our measure developers are 18 calling in, so let's see if they're on the phone. 19 Oh, one person's here. Okay. I'm 20 glad you're here, welcome. 21 DR. KLEINMAN: I'm here, too. 22 CO-CHAIR SUSMAN: Okay, Suzanne, it

1	is?
2	MS. LO: Yes.
3	CO-CHAIR SUSMAN: Okay, Suzanne, you
4	can go ahead or your colleague and provide us an
5	overview.
6	MS. LO: We have Dr. Kleinman on the
7	phone so he's
8	CO-CHAIR BROOKEY: You'll need to use
9	your mic.
10	DR. KLEINMAN: Hi, thank you, Suzanne
11	and thank you to the committee at NQF.
12	This is Larry Kleinman, y'all can hear
13	me okay?
14	CO-CHAIR SUSMAN: Sounds good.
15	DR. KLEINMAN: Okay, great.
16	So, I'm very pleased to present this
17	measure which is a result of work from the
18	Collaboration for Advancing Pediatric Quality
19	Measures, one of the CHIPRA Centers of
20	Excellence.
21	And, we were asked to measure on
22	emergency department asthma and overuse was the

whole suite of things that we did.

We felt first, we needed a good measure of emergency department use, that's what this is an attempt to do. We feel very comfortable with it.

We -- there was a question in the -that we received, what is the overall rate in the
state? So, I can tell you that it was 20.65
visits per 100 child years and in the various age
groups, it ranged from a low of 15.08 in teens to
a high of 29.7 in the younger children.

And, we think that there are biological and behavioral differences in age that it's better to report it as a stratified measure than as a single measure. It's a more accurate reflection.

But, we're open to whatever the committee would direct us towards.

We were not able to come up with a statistical summary of reliability appropriate for this distribution. We tried, we looked and we consulted with statisticians who thought our

best idea was to do either a Poisson or a zeroinflated Poisson or a hurdle model.

We've done all of them, they all come up with very similar results which suggests that we get good confidence intervals with many plans and many counties being different from one another.

I have some specific data I'd be happy to share. We shared it with staff this morning.

I'm sorry we weren't able to get it in advance.

We had IRB issues that prevented me from doing the analysis until over the weekend and I'm home with a newborn baby, so it's been a little bit of an administrative challenge and a personal challenge to get some of the responses all done.

But, we do have data that's now been shared with the committee and I can discuss it with you.

There was a question about some codes. We omitted some codes in terms of our denominator. We didn't add any, so I can explain that if there's questions about it.

And, I know there's going to be some 1 2 interest in risk adjustment and I'm happy to discuss that at some length. 3 But, let me just say, I think this is 4 5 a really good measure. It is a true epidemiological rate. It was developed by a 6 7 systematic process that involved stakeholders and 8 an expert, a RAND expert panel. 9 I know you've had discussion about the RAND panels earlier in the day and I'd be happy 10 11 to answer questions and respond to what the 12 committee would like to know. 13 CO-CHAIR SUSMAN: Thank you. 14 Suzanne, any further comments? 15 Okay, so, we will go to our lead 16 discussants. Karen? 17 MEMBER DORSEY: Do you want to talk a 18 little bit of overview or do you want to focus on 19 evidence? 20 CO-CHAIR SUSMAN: Why don't we, if you 21 have key concerns that you can foreshadow those, but let's stick with the evidence since that's 22

where we'll have to start.

MEMBER DORSEY: So, the developer already brought up on of the concerns which is really, you know, how to interpret and think about the analysis that they provided for reliability of the measure. So, I think we'll get to that when we get to that component.

You know, the other, you know, this measure looks at ED utilization for children who have persistent asthma. And, the developers provide a lot of explanation about how they came up with the definition of persistent asthma and I sort of recognize the challenge of coming up with a sort of robust and well accepted definition.

And, I think that they, you know, sort of did jump through all the hurdles to make sure that they had a decent one.

But, you know, the measure sort of rests on your belief in that to a great extent.

And, so, it may be worthwhile hearing directly from them a little bit about that process of developing the definition and sort of their --

the evidence that supports it.

And, other than that, the evidence linking, you know, ED visits as a poor outcome and the fact that hospitals can -- and health plans and providers can take interventions to reduce ED visits. I feel they are on very solid ground there as an outcome measure.

So, I don't think there's any issue with the evidence for this measure.

CO-CHAIR SUSMAN: And, Jonathan?

MEMBER FINKELSTEIN: So, I agree,

sticking to the evidence frame, I have no

problems seeing the ED visit as an outcome for

childhood asthma and the link to evidence that we

can do something about that is broad, deep and

well summarized by the developers.

I think there will be issues about the specifications that I'd like to have clarified, but on the evidence, I'm good.

CO-CHAIR SUSMAN: So, what I'll do is
I'll go through our discussants and then I'll ask
the developers to talk a little bit about the

1	specifications so we all know what we're talking
2	about to begin with.
3	So, Carol?
4	(NO RESPONSE)
5	CO-CHAIR SUSMAN: Carol Stanley?
6	MEMBER STANLEY: Yes?
7	CO-CHAIR SUSMAN: Do you have any
8	comments?
9	MEMBER STANLEY: No, I don't have any
10	comments actually.
11	CO-CHAIR SUSMAN: Okay, well, yes.
12	(LAUGHTER)
13	CO-CHAIR SUSMAN: Much ado about
14	nothing.
15	And, Ricardo?
16	MEMBER QUINONEZ: I agree that the
17	evidence for what they are saying which is that
18	the evidence that high utilization of ERs is a
19	sign of poor quality and asthma is there.
20	My only concern, and it does go to
21	evidence, is our ability to diagnose asthma down
22	to two years of age.

And, so, I, you know, I know that they 1 2 stratify by age, but the -- I don't know of any convincing evidence that we can diagnose 3 4 effectively asthma at that young of an age. So, there may be some consideration as 5 to the actual age groups that are included. 6 Ι 7 think three or above or four and above would be way more precise than including children with two 8 9 years of age in which you're probably including kids who have diagnosed with asthma but they 10 11 actually don't have it. 12 That's probably recurrent wheezing due to viral infections and the evidence for efficacy 13 14 of treatments there is just not as robust. 15 CO-CHAIR SUSMAN: Good and, Carol, 16 immediately decided she had to talk. 17 (LAUGHTER) 18 MEMBER STANLEY: I did decide that. 19 And backtracking through some notes, I did want to ask about the evidence of how 20 21 you're factoring in environmental factors given 22 urbanization and quality of air and quality of

1 home environment, which is really out of the 2 realm of the health plan and the provider. So, how would you explain that these 3 4 visits to the ED are solely attributed as an outcome to the provider or the health plan? 5 CO-CHAIR SUSMAN: 6 Okay. So, I've 7 heard that comment, a comment about the 8 definition, how persistence was defined and the 9 issue about including the youngest aged children. So, perhaps the developers could help 10 us with those before we talk about voting? 11 12 Sure, happy to, thank DR. KLEINMAN: 13 you. 14 So, the first thing I would say is that what we did and the way we defined the age 15 16 groups, both how we grouped ages and how we 17 decided who was in and who was out was through a 18 RAND modified Delphi process of national experts 19 that included pediatricians, family physicians, 20 ER docs and pediatric ER docs, all of whom 21 through an open, transparent process. The group felt that two was the lowest 22

age at which one might think about asthma. I would say if the committee, in its judgment, said three, I would disagree, but not argue and be happy with that.

What they tried to do, and this now relates to the definition, the idea was which children, keep in mind that in order to get an enumerator, you have to have an asthma as first or second diagnosis in the emergency room.

So, with that as the requirement of having some form of signal, the question that the attempt to identify persistence or identifiable asthma as it's evolved to, was which children should the practice and/or the health plan be aware of sufficiently? They should be managing their child for the wheezing illness in an effort to try to prevent them from coming to the emergency room.

So, I think it was -- I think there was a bit of agnosticism on whether the diagnosis itself was asthma. As you can see, recurrent bronchitis is a part of the specification. If

1 there's enough of them, depending on the age 2 group. And, there need to be more illness in 3 younger children under five to consider that 4 5 asthma was identifiable than there did in children over five because of this diagnostic 6 7 uncertainty. 8 Now, with regard to -- does that 9 answer the question about age, first of all? And, then I'll take identifiable asthma with some 10 11 numbers that may help you understand it a little 12 bit. CO-CHAIR SUSMAN: Ricardo? 13 14 DR. KLEINMAN: What was that? I'm sorry, I didn't understand. 15 16 CO-CHAIR SUSMAN: Okay, I think the group -- it is what it is. 17 18 DR. KLEINMAN: It is what it is, that's a fair point. Okay. 19 20 So, with regard to this, we wanted 21 something that would be less stringent in identifying asthma than the HEDIS persistent 22

asthma definition which was very restrictive and, in New York State, only identified 3.1 percent of children as having persistent asthma which we know, based on clinical and other information in the state health plan and Medicaid in New York, it is low.

We had about 15 or 16 percent of New York Medicaid children who would answer -- a parent would answer a survey that they've never been told they had asthma. That number was too high for what we were looking for because we did want a more select group.

And, if you look at anybody who had an asthma claim, it was somewhere around 11 or 12 percent in a given year.

And, this measure, when we applied it, identified 8.6 percent.

So, we think that there is some construct validity by the virtue of the fact that it is a targeted population. It's less than if you look at anybody who has an asthma definition or asthma diagnosis in the course of the year.

But it is less restrictive that the HEDIS definition which was looking at hospitalizations for children with persistent asthma.

We also have some other evidence that doctors actually managed to this. Because when we, as part of our other measures, something that's under consideration now in your coordination of care, the NQF coordination of care call, we have a measure as to whether children after their ED visit get inhaled corticosteroids within two months following the visit.

And, in that, using that metric, we find that children who are seen in the emergency room without this identifiable asthma classification received an ICS prescription about 13 and a half percent of the time.

While those with the identifiable asthma classification receive it 34 and a half percent of the times.

That's almost a threefold increase which suggests that this construct has meaning in

the real world and there's just not an artifice of an expert panel to put it together.

With regard to environmental factors, this measure is not able to account for them. We are using readily available data in order to be feasible, so we're not going into the chart. We can't look at things like asthma action plans or environmental triggers.

But, we can say that one of the points of the National Heart, Lung and Blood Guideline is that children in more challenging circumstances need to be managed more aggressive and that asthma control, which implies no ED visits for because of exacerbations is the goal of treatment for all children. So, we think it's consistent with that.

And, we also would say that, like any measure, it's not perfect, and some judgment may need to be applied because these are all proxies for the real world.

But, we think it's a really good measure in that regard.

1 CO-CHAIR SUSMAN: Okay, so, are there 2 any other questions that are directly around evidence? 3 4 Yes, Jill? MEMBER MORROW-GORTON: 5 Just a quick question: did you look at matching ED diagnoses 6 of asthma to, say, primary care or -- or pharmacy 7 8 or some other measure that might have validated 9 that? I -- we looked at 10 DR. KLEINMAN: 11 visits to primary care docs before and after, but 12 I am not sure -- I am not seeing the connection 13 that you're asking, and maybe we did look at it, 14 if you could clarify, as a validating construct in this regard. So what were you thinking of? 15 16 MEMBER MORROW-GORTON: I have reviewed 17 lots of ED records, and the diagnoses don't 18 always make sense. 19 (Laughter.) 20 MEMBER MORROW-GORTON: Just -- just 21 the thought, if the ED doc, maybe not even a 22 pediatrician, saw a child who was wheezing, said

asthma, was that borne out after? I mean, was that something that was known before? Did the primary care know that? Was that -- or was that something that was sort of proposed at the time of the ED visit, and -- and the child went on to never have another wheezing episode?

DR. KLEINMAN: These are claims data, so that -- that is actually beyond the scope of what we could have done, but keep in mind that in order to qualify for the denominator, they had to have had a number of indicators prior to the ED visit that this was asthma. That is where this definition -- that is why restricting to only those with identifiable asthma comes into play.

As part of the -- the validation for the appropriateness measure which is coming up, we did look in charts, and -- but we didn't -- we did not cross-reference claims and charts. We did not have those for the same children, so we couldn't do that.

CO-CHAIR SUSMAN: Jeff?

MEMBER SCHIFF: This is probably maybe

more of a comment than a question, but some of the ED visits are preventable only with social service interventions, you know, adequate housing, less social chaos, those kind of things, and I don't -- I don't think you -- you didn't do any literature -- I guess my question is there is no real literature -- literature review about that, on that being -- I just want to -- I -- I think that the challenge of this measure is how much to hold health plans or providers accountable for things that are outside of that scope.

MEMBER DORSEY: And can I just -- just
I think a point of clarification: the developers
do present data on disparities that I think we're
going to get to, which I think speaks to this
issue, but I don't believe that they stratify the
results by -- they do by race and ethnicity, but
not -- I don't believe, and I would like some
clarification there, about whether they stratify
looking at any of these types of SES indicators
or, you know, how they thought about that.

1 DR. KLEINMAN: Sure. I mean, we -- we 2 provide an opportunity but don't require stratification by both level of urbanicity, using 3 4 the Department of Agriculture's Urban Influence 5 Codes, and by the degree of poverty in the county of residence of the mother, so -- or of the 6 7 caregiver. 8 We do have something that looks, but 9 one I would suggest -- and the appropriate 10 measure is an attempt to capture this, and keep 11 in mind, this is a suite of measures that 12 sometimes it's not because they are sick, but 13 because --14 CO-CHAIR SUSMAN: You are really 15 breaking up, and we can hear about every third 16 word. Okay. I am going to 17 DR. KLEINMAN: 18 take you off the speaker, then. 19 What I was saying is the -- we have 20 created a suite of measures. This is -- this is 21 one of the core measures, as it quantifies the

amount of ED use, but the appropriateness measure

looks at whether the children themselves were actually sick or in the emergency room, perhaps for other reasons, and the -- and -- and there -- there is going to be a background of failure.

There is going to be a failure rate that every plan has. While in theory it should be zero, in practice, it is never going to be.

And again, we would hope that these are used by people who are thoughtful and -- and able to -- to identify that there is a tremendous amount of signal here, but it is -- it is not without some noise, and -- and we hope that we have demonstrated that through the -- through our analysis. I would think if -- if the idea was everything had to be attributable to the health plan, we couldn't even use immunizations as a measure because really that is there as well.

CO-CHAIR SUSMAN: Okay. Ah yes,

MEMBER FINKELSTEIN: So I just think this suite of measures is complicated, and we should stay focused. My understanding is if we

please.

1	say this is an outcome measure, all we have to
2	decide on is that the actions of the healthcare
3	setting can move that needle, and I am I think
4	that is that is really clear from the
5	literature. If I know a kid has asthma, I own
6	whether or not he shows up into the emergency
7	I can't prevent everyone, but I own it, and if
8	there are cockroaches in the home, I own that, to
9	the extent I can do something about it.
10	CO-CHAIR SUSMAN: We will make sure
11	you get cockroaches on every visit.
12	(Laughter.)
13	CO-CHAIR SUSMAN: I think that is well
14	stated, and unless there are others who would
15	like to comment or have pressing questions, why
16	don't we move on to a vote?
17	(Pause.)
18	CO-CHAIR SUSMAN: And this is
19	evidence.
20	MS. JUNG: The voting for Measure 3189
21	for evidence is now open. Option 1, pass; option
22	2, not pass.

1	CO-CHAIR SUSMAN: This is an easy one.
2	(Pause.)
3	MS. JUNG: Still waiting for one more.
4	CO-CHAIR SUSMAN: Do you have your
5	people from on the line?
6	MS. JUNG: Okay.
7	CO-CHAIR SUSMAN: Okay.
8	MS. JUNG: Oh. The voting is now
9	closed, but
10	CO-CHAIR SUSMAN: Voting is closed,
11	but
12	MS. JUNG: Let's try that again. Yes.
13	Just
14	CO-CHAIR SUSMAN: Okay. We're going
15	to have to re-vote, so if you will get your
16	clickers?
17	MS. JUNG: Try that one more
18	CO-CHAIR SUSMAN: I thought it would
19	be
20	MS. JUNG: time please.
21	CO-CHAIR SUSMAN: easy, I mean
22	yes, no.

1	(Laughter.)
2	CO-CHAIR SUSMAN: Are we ready yet?
3	MS. JUNG: Yes. It is open now.
4	CO-CHAIR SUSMAN: Okay, open, so
5	please.
6	MS. JUNG: It is not working.
7	CO-CHAIR SUSMAN: Vote early, vote
8	often.
9	DR. KLEINMAN: I am from Jersey. That
10	works for me.
11	(Laughter.)
12	MS. JUNG: Let's see. It is still not
13	working.
14	CO-CHAIR SUSMAN: Yes. I don't know
15	if it is acceptable to do a hand-vote, or
16	PARTICIPANT: Yes, for this one right
17	now.
18	CO-CHAIR SUSMAN: Okay. Well, while
19	we try to sort out the mechanical, why don't we
20	do a hand
21	PARTICIPANT: Close your eyes.
22	CO-CHAIR SUSMAN: Yes, close your

1	eyes, raise your hands. We will close our eyes
2	too, and we'll just go with the Force.
3	(Laughter.)
4	CO-CHAIR SUSMAN: Okay. So
5	DR. KLEINMAN: Do you want me to count
6	from here?
7	CO-CHAIR SUSMAN: Pardon me?
8	DR. KLEINMAN: I can count from the
9	phone if everybody's eyes are closed.
10	(Laughter.)
11	CO-CHAIR SUSMAN: Yes, right, yes,
12	thank you.
13	Okay. So all those who vote 1 for
14	pass? And I will rely on our
15	PARTICIPANT: 1, 2, 3.
16	CO-CHAIR SUSMAN: what is that?
17	Okay.
18	PARTICIPANT: 7, 8, 9, 10, 11, 12, 13,
19	14, 15, 16, 17, 18, 19, 20, 21.
20	CO-CHAIR SUSMAN: Okay. And all those
21	who are voting 2 for not pass? Okay. We've got
22	one, so we have one not pass, the rest pass. It

_	Passes.
2	Okay. Let's talk about gap.
3	MEMBER DORSEY: So although it was
4	it wasn't in the place that I am used to finding
5	the performance distribution, the the
6	developer did provide that, and there is a
7	distribution across measured entities, and they
8	also provided some analysis looking at rates
9	among different racial and ethnic groups and in
10	the different age ranges, and so there is
11	evidence of both gap and disparities presented in
12	the materials.
13	CO-CHAIR SUSMAN: Jonathan?
14	MEMBER FINKELSTEIN: Yes, I agree.
15	Nothing to add.
16	CO-CHAIR SUSMAN: Okay. Carol,
17	anything to add?
18	(No audible response.)
19	CO-CHAIR SUSMAN: Okay. And Ricardo?
20	MEMBER QUINONEZ: Nothing to add.
21	CO-CHAIR SUSMAN: Okay. So other
22	comments or questions? I think we heard a few

questions about other dimensions that might 1 2 influence this measure, degree of urbanness, for example. All potentially important to consider. 3 4 (No audible response.) 5 CO-CHAIR SUSMAN: Seeing no hands, I 6 think we can go on to vote. Now, whether we will 7 be able to vote electronically will --8 MS. JUNG: I think we will for this 9 So for Measure 3189, voting for gap is now one. Option 1, high; option 2, moderate; option 10 open. 3, low; and option 4, insufficient. 11 12 CO-CHAIR SUSMAN: I see the numbers running. It looks like it is working. 13 14 (Pause.) This is the most 15 PARTICIPANT: 16 important part. 17 CO-CHAIR SUSMAN: Yes. 18 MS. JUNG: Voting is now closed. 19 results are 39 percent for high, with nine votes; 20 57 percent moderate, for -- with 13 votes; 4 21 percent for low, with one vote; and 0 percent for 22 insufficient, with zero votes. The measure has

passed for gap.

CO-CHAIR SUSMAN: Okay. Moving right along, we have the issues of reliability, and maybe it could be clarified by the NQF staff what additional materials were sent and the sufficiency of such analysis, because it sounded to me a little bit like there was a Poisson distribution assessment, and I wasn't clear exactly what the -- we had.

DR. NISHIMI: The original analyses that came in spoke more to the issue of meaningful differences, so we did follow up with the developer, who did provide some, a couple hours, just, so we haven't had time, as we sat here, to then look at those, so we have asked the developer -- and we told the developer that, and so we have asked them to summarize what they found.

CO-CHAIR SUSMAN: Okay. Maybe in a minute, or very very briefly, the developer could remind us what you did and found with that so we have a basis --

DR. KLEINMAN: Sure.

CO-CHAIR SUSMAN: -- that we --

DR. KLEINMAN: So we -- happy to do that, thank you. We have done the model three different ways, all of which are theoretically coherent, and the results of which are coherent Poisson, zero-inflated Poisson, and hurdle.

In the Poisson model, which is what we shared just because it is easier to -- to present, we ran it with a number of different plans as the index plan, which you can -- you can control in SAS with a little bit of data manipulation, and this is a -- this is a typical finding, so I have got one, two, three, four, five, six, seven, eight, nine, ten of the -- of 18 plans have a -- a different p-value of less than 0.001. Using chi-squared, we have one that is 0.873 from the index plan, one at 0.516, so you're -- one at 0.58, so you are seeing that some plans are similar, some plans are different, which is what you would want to see.

The standard errors are typically

small relative to the -- to the estimates, so a coefficient of 0.34, with a standard error of 0.05, 0.65, and 0.05, so you are seeing what you would like to see to be able to show that there are tight confidence intervals, but that not every plan is different from every other plan. And that is what we were able to do. This -- this model does not produce an s-statistic, which means we can't calculate in the standard way the -- the variability -- oh, not the variability, the reliability, but -- and this model is adjusted for age group because that is how we are recommending that it be -- it be done.

CO-CHAIR SUSMAN: I know that we are perhaps at some slight disadvantage, not having the data, but as a non-statistician, I am not sure that would help a whole lot. But let me invite the lead reviewers to make comments, and then the group to weigh in.

MEMBER DORSEY: Right. So I mean, it's a little bit difficult for me. I am also a non-statistician, but it's a little difficult for

me to really conceptually grasp what -- what you all are providing. It still sounds more in the realm of -- of sort of model validity for constructing the measure score and not a precision estimate, which is really making sure that if you repeat a measurement, that at the level of the attributed entity, you are getting the same value.

And -- and so it -- that makes it difficult for me to make recommendations or -- or think about how to vote on this, and I don't know if, you know, there is a role for digesting the information that was sent a little bit more here at NQF and then revisiting this -- the vote on reliability, but it is really hard for me to figure out how to go forward without better understanding whether this -- this testing really represents a test for reliability.

MEMBER FINKELSTEIN: So --

CO-CHAIR SUSMAN: Jonathan.

MEMBER FINKELSTEIN: Yes, so let me just say, and maybe there is guidance from NQF:

the whole notion of -- this is a claims-based measure. The whole notion of reliability, interrater reliability, test/retest reliability, does not really hold in the same way for a claims-based measure.

on claims, and two days later, you run it again, you will get the same result. That is test/retest. It is not like -- it is not like asking somebody and then asking them three days later. It is -- also inter-rater reliability has no meaning, so the best you can do are these quirky mathematical things that most of us who are not PhDs in statistics don't really understand the nuances of.

So to me, reliability and validity for these claims-based measures blur somewhat, and I think there are some issues that we should -- should talk about with regard to whether you are measuring with precision the thing you want to measure, that is, validity. Whether you are measuring it with precision is the reliability,

and for me, they boil down to several things. 1 2 Number one is the issue -- I would love the developer to explain the issue of the 3 denominator time. My understanding is that if I 4 had an ED visit in -- in February, the time for 5 me to be qualified as having asthma is 13 months. 6 7 It is the prior year plus January of that year. If I have an ED visit in December that is in the 8 9 numerator, I have actually 12 plus -- through November, I have like over 20 months in order to 10 be qualified as -- as having asthma, and I am 11 12 worried about what bias that introduces given the 13 seasonality of asthma, so that is one. 14 A second one is the developers made some interesting choices based on their expert 15 16 panel to exclude a class of medications that is 17 usually included as asthma medications, 18 specifically --19 CO-CHAIR SUSMAN: Jonathan, I am going 20 to interrupt just a moment --21 MEMBER FINKELSTEIN: -- because it sounds 22 CO-CHAIR SUSMAN:

1	like a lot of these are more validity issues
2	MEMBER FINKELSTEIN: So do you want me
3	to
4	CO-CHAIR SUSMAN: as opposed
5	MEMBER FINKELSTEIN: hold them to
6	
7	CO-CHAIR SUSMAN: to
8	MEMBER FINKELSTEIN: validity?
9	CO-CHAIR SUSMAN: to the
10	MEMBER FINKELSTEIN: That is fine.
11	CO-CHAIR SUSMAN: precision, the
12	issues of reliability
13	MEMBER FINKELSTEIN: Okay.
14	CO-CHAIR SUSMAN: at this point,
15	yes.
16	MEMBER FINKELSTEIN: Yes.
17	CO-CHAIR SUSMAN: We have a hard
18	enough time doing reliability without mixing it
19	with validity, but good comments, for sure.
20	Now just to presage what we can vote
21	on, one option that will come up is to say that
22	it is insufficient because we just have not had

the opportunity to digest the material, or the material ultimately was not provided, so, you know, frankly, I find it difficult to be able to vote on something with any validity when it is not present. But that is my own bias.

So I am looking for further comments here about reliability, if any.

DR. KLEINMAN: May I make one comment, two comments, quickly in response to things that have been said that are related to reliability, not the other component?

CO-CHAIR SUSMAN: Sure.

DR. KLEINMAN: Okay. Thank you. One thing, in response to what I believe it was Karen was saying, we actually have provided a precision analysis. So when I say that the estimate is 0.34 and the standard error is 0.05, that tells us the 95 confidence interval is between 0.25 and 0.45, and we have that for each plan, and we also have that for every county. So the -- and the confidence intervals are narrow enough that plans differ and are outside of one another's

confidence interval, so that is the precision analysis.

The other, again, I apologize that we didn't get this to you sooner. It was actually an impossibility because I left -- I moved from Mount Sinai to Case Western, and when our IRB -- and I remained the PI because I am an adjunct at Mount Sinai, our IRB did not know how to figure this out. It took them four months to grant our renewal, or our continuation, of the IRB, so I was literally not able to touch the data -- CO-CHAIR SUSMAN: Yes. You know, that

is --

DR. KLEINMAN: -- so --

understandable, and we certainly appreciate your explanation. We do have an option of asking for the data, and then being able to reconsider this during our phone call, so I think, as I am looking around the room, that there is a fair amount of head-nodding around trying to be able to look at all the expounded information that you

are discussing, but let me get Jim.

MEMBER BOST: So what you added with your Poisson analysis gets more -- gets as well to the meaningfulness by providing additional data, but it didn't sound like it actually gets at what you would call a typical definition of reliability. I mean, I could see you potentially doing some chart reviews to see if your claims algorithm matched up with the chart reviews, but I didn't see that, or if -- if you have a -- a program that runs this, you could have tested that program at a variety of different entities to see if it runs, so I guess I was looking more for those kind of things for reliability here that I did not see.

DR. KLEINMAN: I -- I think we did
provide a literature review that took the claims
to the constructs under the validity section, so
that part, we do have, and we did -- we looked at
various plans, and we looked at counties and
found that it worked in both all within a single
data set, which is what we had available. Thank

1	you.
2	CO-CHAIR SUSMAN: I am wondering if a
3	vote on reliability, and if we indeed vote that
4	it is insufficient, there will be the opportunity
5	for the developer to provide all the information
6	that has been asked for, some of it provided, and
7	we can take a look at that at our leisure. So
8	unless there are objections, I would suggest that
9	we would vote on reliability.
10	CO-CHAIR BROOKEY: Which would mean we
11	would discuss it in the phone call meeting, is
12	that correct?
13	CO-CHAIR SUSMAN: Which would mean we
14	would discuss it on the phone call meeting.
15	DR. NISHIMI: Post-comment call.
16	CO-CHAIR SUSMAN: The post-comment
17	call, thank you.
18	Okay. So let us move to voting on
19	reliability.
20	MS. JUNG: The voting for Measure 3189
21	for reliability is now open. Option 1, moderate;

option 2, low; and option 3, insufficient.

1 (Pause.) MS. JUNG: Still waiting on one more 2 3 vote. 4 (Pause.) CO-CHAIR SUSMAN: Everybody might want 5 to -- quick, again, we have our offsite person. 6 7 MS. JUNG: Oh, there we go. Voting is 8 now closed. The results are 4 percent for 9 moderate, with one vote; 17 percent for low, with four votes; and 78 percent for insufficient, with 10 11 18 votes. The measure did not pass for 12 reliability. CO-CHAIR SUSMAN: And with it not 13 14 passing reliability, do we continue on, or do we stop there? 15 16 Okay. So we will stop there. I think 17 my sense from the group here is that this is a 18 very viable measure, but having to conform to the 19 NQF procedure, we just need a little bit more data, and you might likewise consider the 20 21 information that was provided for validity

testing, making sure that all our potential

answers at the post-comment call will be provided. So thanks very much. Yes?

DR. NISHIMI: It might be useful for the developer to hear some of the concerns about validity that Jeff wanted to raise just so that, although the committee won't vote, it will be useful feedback in anticipation of the postcomment call.

CO-CHAIR SUSMAN: Great, great point. So let's take this opportunity then to focus on validity, or any other really core questions, but validity is also a must-pass element, so Jim, did you have a comment still, or -- okay. Jon.

MEMBER FINKELSTEIN: So -- so I will try to be -- I will try to be really succinct.

The three issues -- I think this is really useful because then the developer can bring us back information. The three issues that stood out to me are the variable ascertainment period for who is an identifiable asthmatic and how that varies, especially seasonally throughout the year, that is number one.

Number two was the exclusion of Beta 1 2 agonists, short-acting Beta agonists as an asthma medication, which I understand is a -- is just a 3 decision that the expert panel made, but I did 4 5 not see any analysis of how that does or does not affect the measure performance. And the third 6 7 one, again, a decision the expert panel made to 8 include the diagnosis of bronchitis, and in the 9 asthma research I know, that does not affect things very much, but -- but if that is just a 10 11 decision the expert panel made, I am wondering if 12 they did any analysis of whether including or not 13 including those diagnosis codes makes any 14 difference at all. So those were my three 15 validity issues. Thank you so much. 16 CO-CHAIR SUSMAN: 17 Karen, do you have any additional comments there?

CO-CHAIR SUSMAN: Thank you so much.

Karen, do you have any additional comments there?

MEMBER DORSEY: No. I agree that the denominator definition is the one that I am -
that I focused most on, so a little bit of more clarity there I think is really helpful.

CO-CHAIR SUSMAN: And again, you may

18

19

20

21

well have provided this, but if you can make it absolutely crystal so at our post-comment call we can address this, it would be very useful.

The rest of the group, other comments that our measure developer should be considering for a resubmission at the post-comment, or the ongoing submission, if you will? Okay, yes, Dave. Dave?

MEMBER KELLER: Well actually, the only -- only -- just a question for the Chairs: the next measure we're about to consider sort of builds on this measure, and the fact that we deferred decision on this measure, does that impact our ability to consider the next measure?

DR. NISHIMI: No. You should -- you should judge the next measure with what you have in front of you. If you judge that it is similarly insufficient, then we would stop and provide the developer feedback, but we wouldn't just set it aside.

MEMBER KELLER: Got you.

CO-CHAIR SUSMAN: God has spoken.

(Laughte:	r.)
-----------	-----

CO-CHAIR SUSMAN: All right. We appreciate the hard work and the very interesting and useful concepts here and look forward to reconsidering that at our post-comment call, and we will move forward then to another very related measure and allow our developers to discuss the broad overview of that one.

DR. KLEINMAN: Sure.

CO-CHAIR SUSMAN: This is a --

DR. KLEINMAN: Thank you very much.

I am sorry. Go ahead?

CO-CHAIR SUSMAN: I was just saying this is the appropriateness measure.

DR. KLEINMAN: So thank you, and I appreciate your feedback on the other, and this is a part of our suite of asthma measures. As I indicated, some are being considered by Care Coordination, some by Pediatric.

This measure was an attempt to recognize that there are various reasons for use of the emergency room, one of which is a clinical

outcome failure which is generally discussed and which that first measure was designed to identify. Another may be failures of the primary care system or other aspects of the -- of the way that care is delivered, as has been demonstrated dating back to the Three City Study in the 1980s, I believe, early 90s.

And so we wanted to know, if a child was in the emergency room, was that the appropriate level of care for that child? And our expert panel gave us several -- several key reasons for them to be there, some of which would require patient-centered information, which we can't collect, and -- in this measure, which is a chart review measure, but most of which are in the chart.

And so we set this up as either appropriate or of questionable appropriateness. It should be clear we are not using the word "inappropriate," in part because of that. We -- we think this is an important measure. It is a measure both of overuse and a measure which

	allows for interpretation of other data, such as
2	the the frequency of ED use, whether you count
3	it with our measure or some other, and it also
4	can help to drive improvement as well as being an
5	accountability measure.
6	Anyway, I am happy to take questions
7	and to address the the concerns and interests
8	of the committee.
9	CO-CHAIR SUSMAN: Okay. Thank you
10	very much. Anything further, Suzanne?
11	(No audible response.)
12	CO-CHAIR SUSMAN: All right. Well,
13	let's go down to our leads with Ricardo.
14	MEMBER QUINONEZ: Well so I understand
15	we will be discussing the evidence
16	DR. KLEINMAN: I can't
17	MEMBER QUINONEZ: first
18	DR. KLEINMAN: hear.
19	MEMBER QUINONEZ: We will we will
20	be discussing the evidence, correct? And since
21	this is an outcome measure, we would consider

influence the outcome, and so based on that very narrow definition, I would say there are processes of care that can influence the outcome. There's -- there's other concerns that I have, but not related to this narrow definition of evidence for outcome measures.

CO-CHAIR SUSMAN: Okay. Let's go down the list: Marlene?

MEMBER MILLER: Yes, I mean, while I agree with that, I think this does bring up some of the same issues as the other measure.

Obviously, for example, this measure predisposes that everything is modifiable by the health plan, but there is no ability to account for a simple issue such as compliance, some of the -- you know, medication compliance in the home setting, the social stressors, et cetera, so it gets very blurry for me when we try to say the evidence.

The evidence is that we can impact those rates, but this measure to me the way it is constructed suggests that you would impact all of it, and because there is no accounting for these other

factors which are, you know, likely beyond full control of the health plan, i.e. for example compliance of medication use at home.

CO-CHAIR SUSMAN: Okay. Thank you.

My issue probably revolves around calling this

"appropriateness" because you don't know who

doesn't go to the ER, and while it may well be a

very small number that don't appropriately end up

in the ER when they should, all we know are the

people who go.

So it is in some ways I guess more of an overuse measure, potentially, but it is just as important to think about underuse, so when I think about outcomes, I mean, maybe it would be a far worse outcome to have a child not sent appropriately to the ER, so even though it might be very infrequent, differences that are meaningful might be very important to capture.

I see a lot of now hands up, if you will. Let me go to James to give final comments from the primary reviewers, and then we will get to the further comments and questions.

MEMBER BOST: Sure. I think there was certainly evidence that -- of -- of appropriate/inappropriate overuse in the ED for asthma. When I was looking at the measure and its definitions, so if -- if the rate is low, that is telling me that there are a lot of kids coming who could be taken care of by a PCP or specialist that are not. So, you know, I guess at a health plan level, you could be working to make sure those kids get assigned to a specialist. Not sure at an individual hospital whether you could do that, but maybe you can.

percent, let's say, then, you know, in essence, that is great in terms of that being assigned to a PCP, but if over time, that stays really high, but your denominator is going up, then that means that there are more kids coming where the PCP is not doing a good job of taking care of them, so they are having more crisis events. So it got a little confusing in my head how you -- how that rate, standing alone, could be used to gauge

whether improvement is done.

CO-CHAIR SUSMAN: Yes, and it -- at the developer, it seems to be in some ways that you meant this to be a sort of paired measure, even though we do have to look at this on its own as submitted?

DR. KLEINMAN: Yeah, I would say it should -- it would best be paired with some estimation of how commonly ED is used. It improves interpretation. But I do think -- I think the point that was just added, I am not sure who that third reviewer was, I am sorry, I didn't hear your name, actually hits the bull on the head.

This is -- it is a challenging measure because if it is high, it means one thing, if it is low, it means something else, but they both have important meaning potentially for improvement, and context matters. So this is an attempt to actually bring a little bit of nuance into the measurement we have done, and in part, it is definitely an overuse measure.

And it was also done because we did not want the assumption that emergency room use meant overuse of the emergency room at the clinical level, because we were concerned about the potential policy implications of that. We don't want those services cut when it's a safety net for children who need it. So this is -- this is really -- it is a rich and nuanced measure that comes out of a -- a rich tradition in terms of appropriateness, but also access and coordination of care. It sort of brings them all together.

CO-CHAIR SUSMAN: Okay. We have a number of questions and comments. I will start with Jon.

MEMBER FINKELSTEIN: So my -- and this is maybe definitional, but I think important. So when I was going through this measure, the other measure I totally saw as an outcome measure. I did not see this as an outcome measure. Getting to the ER is an outcome, but this to me is -- is -- the question is is an overuse measure --

because I agree that is exactly what it is -- a process measure or an outcome measure? I generally think of -- of overuse -- that is just definitional.

DR. KLEINMAN: So Jon, when I originally submitted this measure, and it was submitted initially to the pulmonary group, I submitted it as a process measure, and the committee and staff told us it would be better considered as an outcome measure. So I think in terms of a formal academic framework, it is probably more process, but in the way that operationally these things are used, it would be -- it is an outcome measure. I have become convinced of that, but I share your -- your initial reaction to it.

DR. NISHIMI: I just want to reinforce what Larry said. The committee did come back and recommend to him that he submit it. It is splitting hairs, you know, ten ways, but they came down on it being an outcome measure, so when you apply our criteria, it becomes a pass/no

pass.

CO-CHAIR SUSMAN: Okay. Let's go down the row. David?

MEMBER KELLER: Jeff actually had his up first, but mine -- mine just is an observation that as was said, this -- what this reminds me of as an outcome measure is looking at readmissions, where you can change the rate by altering either the numerator or the denominator, and in this case, the way -- which of those combination of things changes matters. We found in a number of our readmissions work that as we reduced the number of unnecessary admissions, we had some hospitals that actually would increase their readmission rate because all that was getting admitted was the complicated patients, and that ended up hurting them in some of the schemes.

So I think that is -- the question to the developer is had -- was there consideration of looking at the rate as you did in the previous measure of unnecessary ER use per 1000 child years of children with asthma rather than per --

than using emergency room visits as the denominator?

I think the other piece to that is that this -- the way it is constructed, I could see this as a measure that would be perceived as a problem for the emergency room to solve, and this is not a problem for the emergency room to solve. They -- they have to take anyone who shows up, and so the real question is work that goes on outside the emergency room, and this is clearly a measure of system function rather than of emergency room function, but -- but I could imagine this measure being used, and, you know, on the dashboard of our emergency room at the hospital --

DR. KLEINMAN: Yes.

MEMBER KELLER: -- and then -- but the emergency room docs would have very little to be able to do about that other -- except in retrospect.

CO-CHAIR SUSMAN: Okay. And then finally, Jeff?

MEMBER SCHIFF: I -- just to echo one thing David said, I would like to hear from the developer why they wouldn't use this numerator in their previous denominator, because that would be a measure of the severity of -- that would give you a measure, a better measure of severity of the folks who show up in the ER.

To me, the -- I have a comment and a question. The comment is that in this measure, a high percent may be a measure of -- of insufficient care prior to the emergency room, because somebody would not -- you would say that they -- they should have been treated so they didn't have a low PO2 or S saturation. A low percent may be a measure of bad triage, which is I think what the developer was getting at.

My question though, just, it is probably more the evidence question, is in the criteria for explicit criteria, there's a lot of variation in that, and especially the last one, there -- it says there is clear documentation that prior to arrival in the ED, any of the

1	following occurred, and I just want to I
2	wanted to was curious about how that final
3	component was developed, you know, because it
4	seems like that is there are some of these
5	that are pretty hard, you know, 2 saturation
6	below 90 percent, a blood gas was obtained, even
7	though labored breathing I think is maybe
8	subjective, I just want to know how they how
9	they where is the validity or the evidence for
10	that?
11	DR. KLEINMAN: Should I respond? Is
12	that is there
13	CO-CHAIR SUSMAN: Yes, please
14	DR. KLEINMAN: a question?
15	CO-CHAIR SUSMAN: if you will.
16	DR. KLEINMAN: Sure, of course. So I
17	think in response to the last not the last
18	comment, but the last commenter, and also to
19	David's comment about sort of creating a
20	population measure that integrates
21	appropriateness and the count measures, this is
22	something we have thought about. We just were

not there. We did not have the resources to do

it. That was -- we thought that was a -
potentially a later stage of development.

We only had the resources to assess this in one hospital. I agree it's a system measure, but chart reviews are difficult and expensive and time-consuming, and given the -- the constraints that existed from AHRQ and CMS regarding this measure, this is what we were able to do, but I do think that is a future direction that is -- is worth doing and worth thinking about.

In this metric, some of the criteria that the committee suggested such as previous history of rapid deterioration were not operationalized into this measure, and that is why I say some of those are things that require a -- talking to the parent. And since we were restricting ourselves here to chart review data, that is one of the reasons we don't ever call it inappropriate. We say "questionable appropriateness," and that is one of the ways

that that question could be answered.

We do have -- I have one of my former fellows in New York who is currently seeking funding to expand work on this and also to develop a patient-centered survey in the ED that would help to complement these data, but we are not --

CO-CHAIR SUSMAN: Okay.

DR. KLEINMAN: -- implementing those

CO-CHAIR SUSMAN: Okay. I am going to move things along. John?

CO-CHAIR BROOKEY: Yes, I just want to make a couple comments in terms of being a health plan measure. We do know there is a pretty good correlation with asthma medication ratio and ED utilization. It is probably the one thing that you can do from a health plan perspective to really change ED utilization is to improve the compliance with medication, as well as to provide access in primary care, so those are the two sort of actionable things a health plan could actually

here.

do.

But having looked at this pretty
extensively in Kaiser in California, we know a
couple of things. We are -- our Medicaid
utilization is double commercial for ED
utilization, but if you look at hospitalization,
it is not so different, and as I mentioned
earlier, our access in the ER is very very good
with no copay, and so that kind of confounds your
analysis of the data, and I -- I don't look at ED
utilization as being an index of severity of
illness, but rather access.

And I would look at hospitalization differently, and I think that is kind of what this measure is getting at, is trying to figure that out, and I agree that maybe the denominators need to be switched or something, but I like where it is going. I am not sure the group will say this is the right measure at the right time, but -- but trying to get at severity illness I think is a very important thing.

CO-CHAIR SUSMAN: Well, this has been

1	a very robust discussion. Does anybody have
2	anything new about evidence?
3	(No audible response.)
4	CO-CHAIR SUSMAN: And if not, let's
5	make the vote.
6	MS. JUNG: Okay. Voting for Measure
7	2816 for evidence is now open. The option is
8	option 1, pass; option 2, not pass.
9	PARTICIPANT: What happens if you vote
10	3?
11	CO-CHAIR SUSMAN: If you vote 3, we
12	will make you serve on three more NQF panels.
13	(Laughter.)
14	MS. JUNG: Voting is now closed. The
15	results are 55 percent pass, with 12 votes; 45
16	percent not pass, with I am sorry, with 10
17	votes, and then the pass 55 percent pass, with
18	12 votes; 45 percent not pass, with 10 votes.
19	PARTICIPANT: And what does it have to
20	be to
21	MS. JUNG: It has to be at 60 percent,
22	so this does not pass I am sorry

1	CO-CHAIR SUSMAN: This is a
2	MS. JUNG: I keep saying that.
3	Consensus is not reached for this.
4	CO-CHAIR SUSMAN: And we continue to
5	go on then? Yes, okay.
6	So thank you. We now get to look at
7	gap, and let's have our primary reviewers comment
8	briefly about gap.
9	MEMBER QUINONEZ: I think the
10	reviewers definitely showed evidence that there
11	is there is a gap, particularly I think
12	similar to the prior measure, that there is also
13	a lot of disparity in ED utilization with asthma,
14	so it I mean, it the evidence that ED
15	utilization varies for patients with asthma I
16	think is definitely there.
17	CO-CHAIR SUSMAN: Okay. Marlene?
18	MEMBER MILLER: I do think there is
19	obviously evidence for inappropriate use. I
20	still have trouble that we there is not
21	evidence into the parsing of the reason behind it

in terms of access, non-compliance, et cetera,

which obviously influence the ability to move
that needle, if you will, on appropriate use of
the ER.
CO-CHAIR SUSMAN: I don't have
anything new to contribute. And Jim?
(No audible response.)
CO-CHAIR SUSMAN: Nothing? Questions
or comments?
(No audible response.)
CO-CHAIR SUSMAN: And if not, let's
vote on gap.
MS. JUNG: The voting for gap for
Measure 2816 is now open. Option 1, high; option
2, moderate; option 3, low; and option 4,
insufficient.
(Pause.)
MS. JUNG: Lauren, we oh, there it
is.
(Pause.)
(Pause.) MS. JUNG: One more vote.

Oh, one has stepped out.

MS. JUNG: Snuck out.

CO-CHAIR SUSMAN: Uh-oh.

MS. JUNG: Voting is now closed. The results are 9 percent for high, with two votes; 82 percent for moderate, with 18 votes; 9 percent for low, with two votes; and 0 percent for insufficient, with zero votes. The measure does pass for gap.

CO-CHAIR SUSMAN: Okay. Let's move on and talk about our validity issues -- or reliability issues. I am trying to really move us along.

MEMBER QUINONEZ: So following the -the script that we were given for discussing
reliability, here we considered the numerator
statement, the denominator statement, and I think
this is -- this is where a good discussion of the
developer's criteria for appropriateness may be
-- may be in order. I have a lot of difficulty
with that because I think there is -- you know,
since we're looking at appropriate ER visits, and

I realize that the -- they used a RAND/UCLA

Appropriateness criteria method to get at these
criteria, but I think there's a lot of
opportunities here to game the system.

You know, I think for example, all of the reliability criteria are "or," and -- and so passing any of those would -- would give you -- would tell you that -- that the -- the visit is appropriate, so, you know, for -- one example is recorded oxygen saturation below 90 percent. Is that on presentation, or is that at any time during the ER visit? When you get three back-to-back doses of Albuterol, many children drop below 90 percent. It does not really mean much. And so -- but by these criteria, you would meet that -- that appropriateness criteria.

And so I -- you know, and I think

there's -- there's several things in this. The

subjectivity of -- of the physical exam in

respiratory distress, I think there's a criteria

when an ABG was obtained, so I would basically -
you know, I could get an ABG on every single kid

1	that shows up to the ER because I want to meet
2	this criteria, and so I could game the system
3	that way. So I have a lot of concerns about the
4	appropriateness criteria that worried me in this
5	specification.
6	CO-CHAIR SUSMAN: And it sounds like
7	at least some of this is about the validity
8	face validity of the measure.
9	MEMBER QUINONEZ: Yes, except the
10	script really wants to talk about that.
11	DR. NISHIMI: Right, but it does
12	CO-CHAIR SUSMAN: It also yes.
13	MEMBER QUINONEZ: Yes.
14	DR. NISHIMI: It goes to the
15	specifications, which is the first element.
16	MEMBER QUINONEZ: Right.
17	DR. NISHIMI: So it's both.
18	MEMBER QUINONEZ: Yes.
19	DR. NISHIMI: Yes, no, it's both.
20	CO-CHAIR SUSMAN: Okay. Did you want
21	to make a comment, Robyn, about how we're going
22	to handle the reliability and actually not vote

on that, as I understand it.

DR. NISHIMI: So one element of the reliability is what Ricardo spoke to, which are the specifications. So you need to keep that in the back of your mind. But the developer has claimed data element level validity, unlike the measure you just discussed where we were looking at actual scores.

So in this case the developer has relied on the literature for the identification of the denominator and then has done some empiric testing, which is described. He had ten charts at the facility against -- the gold standard was the transposition and the other two abstractors. So that would be the empirical testing of validity against a gold standard at the data element level. And that would be appropriate for reliability as well. So you won't vote on reliability testing because we're going to rely on the validity testing.

CO-CHAIR SUSMAN: So as you're thinking about that -- I think your comments are

very appropriate for at least both of those. 1 2 We have a bunch of questions here. I just had a question 3 MEMBER DORSEY: 4 about that guidance specifically. You want me to 5 hold it? CO-CHAIR SUSMAN: 6 Yes. No, no. 7 MEMBER DORSEY: So I was just curious 8 whether there's any requirements when we think 9 about data element validity testing about a 10 facility. So it's just one facility, but is that 11 -- that's up to us? There's no specific guidance 12 from the staff about that? 13 DR. NISHIMI: No, whether you feel 14 that is sufficient. The validity calculation 15 also asks you questions about meaningful 16 differences. Can't do that with only one. 17 again, that's just one element and the Committee 18 members have to judge where to weight all these 19 different issues. 20 CO-CHAIR SUSMAN: Jim? 21 MEMBER BOST: So when I was reading the guidance, it says, was empirical -- and this 22

1	is on the reliability. It says, was empirical
2	validity testing of patient-level data conducted?
3	Well, this is item level, isn't it? So I don't
4	see patient level. So I would have said that
5	then goes to insufficient.
6	DR. KLEINMAN: May I respond to that?
7	CO-CHAIR SUSMAN: Yes.
8	DR. KLEINMAN: The overall
9	appropriateness score would be the patient level.
10	The items are sort of supporting data
11	information for that, but overall appropriateness
12	is at the patient level.
13	CO-CHAIR SUSMAN: But aren't there the
14	assessment and an element level?
15	DR. KLEINMAN: It's element level
16	building up to patient level, and overall
17	appropriateness is at the patient level, not at
18	the element level.
19	CO-CHAIR SUSMAN: So there
20	MEMBER BOST: So how would we assess
21	that if it's only one institution and
22	CO-CHAIR SUSMAN: Well, I think that's

certainly an important point. I mean, if we're supposed to be looking at differences and the testing is only at one place, even if we give them a pass on validity, it's hard for me to get too excited about that being an adequate demonstration.

Okay. We are sort of continuing to talk about both reliability and validity because of the interrelationship here. Are there other comments or key issues around this that will ultimately influence our voting?

Yes, I see some hands, so I'm going to get Jim first and then we'll go down.

MEMBER BOST: So it should also be mentioned that in the item testing all items could not be tested because a couple of them were not actually collected at that institution. Now the institution did say that it really wasn't needed, that the other items in the list were sufficient to do that. And they did talk to nine other institutions and showed them the list of items. And they thought it was okay to get what

1	they're needing. But again, we didn't get an
2	item-level analysis on every item.
3	CO-CHAIR SUSMAN: And just to add to
4	that, the pharmacy data was variably accessible.
5	So, okay. From our
6	DR. KLEINMAN: And
7	CO-CHAIR SUSMAN: Just a moment.
8	Let
9	DR. KLEINMAN: Oh, sorry.
10	CO-CHAIR SUSMAN: Yes.
11	DR. KLEINMAN: I was just asking if it
12	was time. Okay. Great.
13	MEMBER EDIGER: I'm just confused.
14	Since it didn't pass on evidence, I just think
15	(Simultaneous speaking.)
16	MS. JUNG: Consensus was not reached.
17	CO-CHAIR SUSMAN: Consensus was not
18	reached and per the NQF protocol we continue on.
19	MEMBER EDIGER: Okay.
20	CO-CHAIR SUSMAN: Yes.
21	MEMBER EDIGER: Okay.
22	CO-CHAIR SUSMAN: So, sorry for the

confusion.

MEMBER EDIGER: That's all right.

CO-CHAIR SUSMAN: Okay. Other

comments? Jim and Jon.

MEMBER BOST: To its credit, it was designed like a HEDIS measure so that specification stuff I thought it was well designed in terms of assessing whether it could be reliably collected. And the kappas that were collected on the item level for most were pretty good, although they really needed a lot of practice because the kappas were much better after they were doing it for a while.

CO-CHAIR SUSMAN: Jon?

MEMBER FINKELSTEIN: So the criteria for the appropriateness of the ED visit -- some of them are incredibly objective whether a blood gas was ordered, although I'm guessing that happens a very small percentage of the time anywhere. Others are so subjective and much more frequent, and I'm concerned would drive the measure. So I'm talking about referral by a PCC.

I understand why they thought about that, but I'm not sure that makes it appropriate. It just could make it an inappropriate primary care provider. And I'm guessing that that's going to be a much more common occurrence and could drive the measure.

CO-CHAIR SUSMAN: Or if you've got a busy office, just go to the ED.

(Laughter.)

CO-CHAIR SUSMAN: Kerri?

MEMBER FEI: Thanks. Kind of along the lines of what Jon said, a lot of the things in this list you -- would be tough to test because you don't expect to find all of them all of the time. So getting that type of testing, of testing all of the data elements that are listed here I think would be tough. And again, there's going to be some you're going to find a lot and there's going to be some that you aren't going to find very often. And a lot of them are pretty subjective, which would be tough.

CO-CHAIR SUSMAN: Okay. So are there

1	other did you have another comment, too?
2	(No audible response.)
3	CO-CHAIR SUSMAN: No? Okay.
4	Are there any other new questions,
5	concerns or comments from the panel?
6	(No audible response.)
7	CO-CHAIR SUSMAN: Okay. So we're
8	actually going to be voting on validity.
9	DR. KLEINMAN: May I respond to some
10	of the comments because I think I can help
11	clarify some of the things.
12	CO-CHAIR SUSMAN: Okay. If you could
13	keep your comments very brief.
14	DR. KLEINMAN: I will do it. There
15	are nine criteria the panel endorsed, only six of
16	which are specified here. All the specified
17	criteria were tested. There were 1,000 or so
18	charts that were looked at, so while I was at one
19	institution it was fairly robust. 02 saturations
19 20	institution it was fairly robust. O2 saturations rarely fell below 90. That was not a major
	_

1	because if you remember what was talked about
2	earlier, when appropriateness is very high, it
3	suggests you're doing a worse job of asthma
4	management. Low is a worse job of access. So
5	there is a balance intrinsic to the measure that
6	ought to work against gaming. I'll leave it at
7	that.
8	CO-CHAIR SUSMAN: Thank you. Thank
9	you very much.
10	Okay. Let us go ahead then and vote
11	for validity.
12	MS. JUNG: Okay. The voting for
13	validity for Measure 2816 is now open. Option 1,
14	moderate, option 2, low, and option 3,
15	insufficient.
16	(Voting.)
17	MS. JUNG: One more. Is everyone in
18	the room?
19	(Voting.)
20	MS. JUNG: Voting is now closed. We
21	have the results. Four percent for moderate with
22	one vote, 74 percent for low with 17 votes, and

22 percent insufficient with five votes. 1 2 CO-CHAIR SUSMAN: So this is a mustpass criteria and we did not reach the threshold, 3 4 so we will stop there. 5 Thank you very much again. This is a 6 really important work and I think a very important concept. And I see everybody around 7 8 the table -- which you can't see -- shaking their 9 heads around that, and trying to address some of the, if you will, methodologic challenges here I 10 11 think will be very useful for the field. 12 thank you. 13 DR. KLEINMAN: Thank you. Appreciate 14 your time and your feedback. 15 CO-CHAIR SUSMAN: Okay. We have 16 another measure, and we're going to be talking 17 about the informed coverage from Children's 18 Hospital of Pennsylvania, CHOP. And do we have the measure development -- walking up as we 19 20 speak. Thank you. 21 So if you haven't figured it out, you 22 can provide us your brief overview, introduce

yourself. And we appreciate your attendance.

DR. SILBER: Thank you. It's nice to be here. I am Jeffrey Silber. I direct the Center for Outcomes Research at CHOP and I'm going to be talking about informed coverage.

The measure is constructed to help states get a better sense of their participation rates of their children in Medicaid, participation rates meaning the denominator, the number of kids that are eligible and how many months they should be eligible during the study period, the observation period, and the numerator being of those that are eligible what's the -- or how many actually are enrolled. So we're talking about a fraction of that time period where the kids are enrolled when they're eligible.

The measure fills a gap. Right now there's two kinds of measures that the states can use easily with their claims data. They can use a measure called duration, which is measured as after a gap in enrollment. You follow how long a patient -- once they're back on insurance -- how

long they stay on insurance.

That measure has a problem. That duration measure has a problem because if you don't have gaps, you don't show up in the measure. And we've talked to stakeholders and policymakers at the states who understand that that is a problem. If they're doing very well with a child who's always on during the study period, they don't get counted in the duration metric.

If you -- on the other hand, the other measure is the continuity ratio. It's in the literature. It hasn't been as formally developed as the duration metric. Continuity ratio looks at anyone during the study period who ever had insurance and then it says, well, that's -- then they should have been covered the whole time or participated with being enrolled the whole time. Then what fraction of their months were enrolled. So that's the continuity ratio.

So that has the opposite problem, and that problem -- the problem with the continuity

ratio is that there are kids that never are in the system at all. Those are the worst players, that they were eligible but you didn't know it and those don't show up in the continuity ratio.

So on the one hand you're penalizing states when they do a great job and then on the other hand with the second measure you're ignoring the very worst cases.

So we developed informed coverage to try to get at a better measure of this participation ratio. We developed it using a -- what we wanted was an event that would be random that could tell us about participation. It wouldn't be related to your primary care. It wouldn't be related to any of the care that you've gotten.

And we thought, well, okay,
appendectomies are random events. There's some
literature about slight changes though with sex
and with season, but appendectomies are very
random. And then we can then check to see if you
actually were enrolled before you came down with

your appendicitis and had your appendectomy.

And we know that you wouldn't show up in the MACs claims unless you were eligible. So we have a measure of eligible kids and then we can check going back in time to see if they were enrolled or not. And that's our measure of participation.

Now we bound this measure with two extremes. One extreme is -- we call the presumed eligible. These are looking at all the claims -- not just an appendectomy, looking at all the claims and saying let's make an assumption that if we see you, you should have been eligible for the whole period. We make some modifications. That's similar to CO, but with some modifications for aging out.

And then there's presumed ineligible, which says, well, we presumed that if we didn't see you, you weren't eligible and therefore that gives you a higher participation rate. So we create two bounds, but we basically -- with this measure -- are using the appendectomy rate and

the percentage that had insurance prior to -- and were enrolled prior to getting their appendicitis event as our metric of participation in the states.

And then what we do -- and I'll finish up -- what we do is we compare our rates to the other two rates, to continuity and to duration. And we also go to what some consider a gold standard, which is the -- a survey method. the American Community Survey, that is -- I'm saying it's often considered a good standard to It surveys patients and families and look at. asks them whether they're insured or -- whether they were on insurance or not. And so we present that data in our application as well. show that our metric is best -- better correlated with the ACS than is continuity or than is duration, and it also has less error than the continuity ratio compared to the ACS.

States can't get a hold of the ACS.

In part, they can't link their data to the ACS

and the ACS is -- varies over time and there's

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

even threats about whether that will be available in the same way. So for states that want to use their data to understand their participation rates, we think we have a good solution.

CO-CHAIR SUSMAN: Thank you very much for your succinct and clear explanation.

And we'll move on to Amy.

MEMBER HOUTROW: Yes, thank you. So as we heard, this is a measure of coverage over an 18-month period. And what we need to do here -- because this is an outcome measure -- is take the top part of our guidance for evidence, which is looking at whether this outcome measure has a relationship to at least one healthcare action. And they have provided evidence here that both for the individual who is insured, having health insurance improves their access to health services and outcomes.

And then in addition to the health plans perspective, the Medicaid plan, the disenrolled children who need to be re-enrolled is a very costly process. And so there's both

kind of the patient level related outcomes that 1 2 they point to and then the systems level outcomes that they point to. And I would take those two 3 as kind of the basic for how we would move 4 forward in a decision about this outcome measure 5 and the evidence for it. 6 Okay. 7 CO-CHAIR SUSMAN: Kerri? 8 I totally agree with what MEMBER FEI: 9 Amy said and I think there's plenty of evidence here to support that this is a measure that is 10 11 needed. 12 CO-CHAIR SUSMAN: And what does the 13 man from Ohio have to say? 14 MEMBER KNUDSEN: Agreed. 15 (Laughter.) 16 CO-CHAIR SUSMAN: And, David? 17 MEMBER KELLER: Yes, I actually not 18 only agree, but I applaud them for their 19 creativity. I think using appendicitis as a 20 tracer into the system was a really interesting 21 idea and I think will give some new -- a new way 22 of looking at an old problem in the system.

CO-CHAIR SUSMAN: And the senator from Minnesota?

MEMBER SCHIFF: I didn't announce yet.
(Laughter.)

MEMBER SCHIFF: I think the approach is really novel. I -- my only comment was I just -- the presumed eligible and presumed ineligible, I had trouble with those terms and I was wondering if it could be something like coverage presumed maximally eligible and coverage presumed minimally eligible, because you really are cutting this differently and you're just making an assumption about that. And when I looked up presumed ineligible, I thought of all the reasons why people would be -- think about that as that folks somehow could not get coverage at that time It's just that they -when it's not that. they're just not on at that moment.

DR. SILBER: I think you're right. We could have better terminology. And you're right that they're supposed to be created to create a bound so that -- what's the worst case scenario

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

1	and the best case scenario for what your
2	participation rate is. And we'll we could
3	talk about the word maximum in there. I think
4	you're right.
5	CO-CHAIR SUSMAN: So I'm not hearing
6	a lot of controversy among the five primary
7	reviewers. Are there any other questions or
8	comments? Jon?
9	MEMBER FINKELSTEIN: So I guess
LO	CO-CHAIR SUSMAN: Wow.
L1	MEMBER FINKELSTEIN: And this will be
L <b>2</b>	my last comment for the day.
L3	(Laughter.)
L <b>4</b>	CO-CHAIR SUSMAN: Okay.
L5	MEMBER FINKELSTEIN: So I'm maybe
L6	being dense, but I, too I think the oh,
L7	thank you.
L8	(Laughter.)
L9	MEMBER FINKELSTEIN: Even better. I
20	totally get the appendectomy thing. I agree it's
21	that's really good. Are these guard rails
22	that you've I don't quite understand the guard

rails, and are these guard rails that you've set up on either side to bound it just kind of theoretical and they're so extreme on either side that states would rarely hit them and what this really is is an appendectomy-focused measure, or are these guard rails guard rails that come into play a lot and people would be maxxed or minned all the -- frequently?

DR. SILBER: So the guard rails are in place for two reasons. So the first is that they create a bound and occasionally the appendent appendent rate will be under or over the guard rails. So we didn't want -- we felt uncomfortable with that, so we bound it. It very seldom kicks in. It has a very slight effect, but occasionally you'll see that they're -- that it hits the bound.

The second reason that we have the PI and the PE is that when we look at strata -- let's say we want to stratify by a region or by race. What we do is we work out for every state what the mixture of PE and PI would be to

replicate the appendectomy rate. And then we use for the strata -- we don't go getting appendectomy rates on a minority group or on a subset. We look at the actual PI and PE with all the thousands and thousands of patients in the state. And then we weight them according to what we learned from the overall state rate.

so we still see differences by race and other subgroups based on PE and PI and based on the mixture that was achieved when we first made the overall metric for participation based on appendicitis. So we didn't want to use appendicitis on subgroups where the ends might be too small.

so we use all the patients. We estimate a PI and a PE on everybody, but we -- and so subgroups can be looked at, but how do we put PI and PE together? We use the overall tendency in the state to have PI and PE reflect what we believe to be the true rate, which is the appendectomy rate.

CO-CHAIR SUSMAN: Okay. Jill and

then Jeff.

DR. SILBER: That's the purpose of why we have --

CO-CHAIR SUSMAN: Thank you.

missed this, but a lot of the disenrollment/enrollment in Medicaid is kids that are eligible one month, not eligible the next month because of parental income. I mean, does this take into account what happens over time for a child versus, you know, your appendectomy rate is at one place in time.

DR. SILBER: Okay, so the nice thing about this metric is it's actually a point in time. So if that child, when it -- when they came down with appendicitis and had their appendectomy, if at that point in time they were eligible, right, then we say that that patient was eligible and then we see if they did or didn't have insurance.

Now how do we do this? We actually -- and it's a little complicated in the description.

We go back four months because we know that kids that are eligible but not enrolled, they can be backdated and so that they can then get insurance. So we say -- we go back exactly four months from when the patient had their appendentomy, and when you ask -- we ask then were you insured or not? Did you have -- you were eligible.

We knew you were eligible four months later, so four -- exactly four months earlier -- because no one thought about the kid coming with appendix when their parents did or didn't have insurance. We then ask, well, did you -- were you enrolled four months before? You might have dropped out the next month and the next month. That's not the case because we'll know that you could be backdated or not backdated.

MEMBER MORROW-GORTON: But you may not have been eligible four months before.

DR. SILBER: Right, you might -
MEMBER MORROW-GORTON: It's July. My

parents do seasonal work. I don't qualify for

1	Medicaid in the summer.
2	DR. SILBER: Right.
3	MEMBER MORROW-GORTON: I don't qualify
4	for Medicaid until November when their business
5	closes for the winter. You go back your four
6	months and that kid's going to be not eligible.
7	DR. SILBER: Right. The beauty is
8	that it's random. So, in other words our
9	estimate isn't going to be biased because we go
10	back four months. It's a random event.
11	MEMBER HOUTROW: Well, I think this
12	discussion is something we might need to look at
13	a little more in a subsequent part of the
14	discussion, because I think for the evidence part
15	we have a very clear mandate on what we're voting
16	on. And then there are some additional questions
17	I think that will stem exactly from where you're
18	coming from later on.
19	CO-CHAIR SUSMAN: That's a great
20	point. Jeff?
21	MEMBER SCHIFF: Just a quick thing
22	about presumptive eligibility and retrospective

	coverage. I don't know the rules in every state.
2	Do you know where that's at, because that would
3	that this measure obviously hinges on that.
4	DR. SILBER: Right, so when we did our
5	search and we talked to our stakeholders and did
6	our literature search and talked to the
7	authorities, we thought that four months should
8	do it, that we don't think we have a problem
9	going back four months. Three, two and one,
10	states can vary, but no one goes back farther
11	than four that we know of.
12	MEMBER SCHIFF: And do states do
13	all states allow some amount of retroactive
14	eligibility for kids?
15	DR. SILBER: My sense is they do.
16	MEMBER SCHIFF: Okay.
17	CO-CHAIR SUSMAN: Okay. So very
18	interesting comments and questions, some to
19	defer. Anything new before we take a vote on
20	evidence?
21	(No audible response.)
22	CO-CHAIR SUSMAN: Seeing and hearing

1	none, let's move on to a vote.
2	MS. JUNG: The voting for Measure 3154
3	for evidence is open. Option 1 is pass, option
4	2, not pass.
5	CO-CHAIR SUSMAN: As a clinician this
6	seems very arcane, but important.
7	(Voting.)
8	MS. JUNG: Voting is now closed. The
9	results are 100 percent pass with 23 votes. The
LO	measure passes for evidence.
L1	CO-CHAIR SUSMAN: Okay. Very good.
L <b>2</b>	So, let's move on. Amy, you want to carry
L3	forward? You did such a good time the first
L <b>4</b>	time.
L5	MEMBER HOUTROW: So we're in the
L6	reliability section. And as you guys heard
L7	earlier, the numerator is the number of covered
L8	months in the denominator.
L9	CO-CHAIR SUSMAN: Gaps.
20	MEMBER HOUTROW: Oh, gap. I'm sorry.
21	I jumped ahead.
22	(Laughter.)

1 MEMBER HOUTROW: Okay. So --2 CO-CHAIR SUSMAN: You tried to sneak that by us. 3 4 MEMBER HOUTROW: -- I'll save that 5 thought. So we have heard a little bit about 6 the other methods by which there are ways to 7 8 measure coverage and in the comparison that they 9 did with those other measures. So they chose the ACS survey as the kind of gold standard to 10 compare themselves to. And then two other 11 measures of continuing coverage which they 12 13 performed better than in their analysis. 14 And so I think this does help address a gap that they're seeing in the ability of 15 16 states to actually demonstrate coverage in a more 17 helpful way because we're getting at an issue 18 regarding around whether children were 19 appropriately covered when they could have been 20 covered. 21 I do have a question. Very early in your -- you make a comment about good reasons 22

that people fall out of coverage and bad reasons that people fall out of coverage. So a good reason is that you're no longer eligible, but when you live on the very edge of eligibility -- as you were just saying -- you can fall in and out of coverage and it is actually probably negative. And in fact your coverage levels when you did your analysis were much lower amongst the children who were in the higher parts of the income group than the kids in the lowest end.

And I'd like to hear about how we're going to get better at this issue regarding good reasons versus bad reasons for disenrollment.

DR. SILBER: So good and bad refer to what you would really want as a meaningful statistic when you're evaluating a state. So you don't want to punish a state for a parent winning the lottery and then no longer needing to be on Medicaid. And so that's what we consider a bad reason -- that's a good reason to leave. It would be a bad reason to punish the state.

So I think that's what I -- that's the

terminology that we were referring to. And a good reason to punish the state would be that the patient really was eligible and they were not enrolled and the state needs to be punished for that. So that the family forgot to -- or didn't re-enroll when they should have and then they're kicked off the rolls, etcetera. So, okay. That defines the good and bad as what we meant.

Now again, you're going back to this issue of, well, on the margin you're on and you're off and you're on or you're off. And so we are saying that we're taking a random event, which is the event of appendicitis, which has nothing to do with your healthcare or whether you were enrolled or not enrolled. Then we're just arbitrarily going back four months.

Now the reason we do is because we don't want any back enrollment to affect the fact that you -- we didn't want people to say, well, you were enrolled. Look, they were enrolled when they had their appendicitis, but that's because you back enrolled them and that wouldn't be fair.

You're giving the states credit to something they shouldn't.

So we look at a random point in time four months before the random event and at that event you're either enrolled or you're not enrolled. So to us that is a measure of whether you had insurance or you didn't have insurance when you were eligible. So it might not be perfect, but at least it's random and there shouldn't be bias involved with that.

MEMBER HOUTROW: If we're thinking of this in terms of the percentage of children who are covered or however the rates -- when we're thinking about what the quality mark is for that, we do have this issue of knowing where a threshold belongs, because you don't want to punish the states for families who make too much money, but you don't -- what you want is for kids who need to be on the service to be on the service.

DR. SILBER: Well, I agree. I just don't think that this is punishing the states for

1	families that all of a sudden win the lottery in
2	any way that's biased. Let's put it that way.
3	CO-CHAIR SUSMAN: So let's try to
4	focus on gap. And, Kerri, do you have any
5	further comments?
6	MEMBER FEI: No, I don't think I have
7	I don't have anything else to add. I think
8	what was presented to support the gap is
9	sufficient.
10	CO-CHAIR SUSMAN: Kraig?
11	MEMBER KNUDSEN: Sufficient.
12	CO-CHAIR SUSMAN: David?
13	(No audible response.)
14	CO-CHAIR SUSMAN: Jeff?
15	(No audible response.)
16	CO-CHAIR SUSMAN: All right. Anyone
17	else?
18	(No audible response.)
19	CO-CHAIR SUSMAN: So we're going to
20	vote on gap.
21	MS. JUNG: The voting for Measure 3154
22	for performance gap is now open. Option 1, high,

1	option 2, moderate, option 3, low, and option 4,
2	insufficient.
3	CO-CHAIR SUSMAN: And it looks like
4	Jon is absent, so
5	(Voting.)
6	CO-CHAIR SUSMAN: He has a lapse in
7	coverage here.
8	MS. JUNG: Voting is now closed. The
9	results are 45 percent for high with ten votes,
10	50 percent for moderate with 11 votes, five
11	percent for low with one vote, and zero percent
12	for insufficient with zero votes. The measure
13	does pass for gap.
14	CO-CHAIR SUSMAN: Okay. And did you
15	want to carry on since you were so enthusiastic
16	with the reliability?
17	MEMBER HOUTROW: I'm excited about
18	reliability specifications, so
19	(Laughter.)
20	MEMBER HOUTROW: Okay.
21	CO-CHAIR SUSMAN: If you can get
22	excited about it, it's all yours.

MEMBER HOUTROW: Right. So produce consistent and then credible valid results. So this is all coming from administrative claims data, and you can look at the level of analysis at the state or potentially more regionally, and their interpretation as a higher score means better quality.

And as we know, there are children who age out, and so when they did their testing they made sure that the children who were in the agedout age groups were not included because they would -- anyone who is 16 could be aging out.

Everyone who is 17 to 18 would age out. And then of course as they used their appendectomy, they were thinking about specifically very rare events in the children under the age of two.

And we have heard a lot about how they have come to that, and this does require this related hospitalization. So we need to talk about whether we think this kind of use of the appendectomy is an appropriate surrogate. And I believe that it does help us get there.

And in addition, we need to talk about the relationship to the different things that they tested. So the PE, the PI -- or the CI and the Community Survey as their gold standard.

And if there are any questions about how the data elements are defined and if the codes are appropriate and is the algorithm clear -- I think we had a good presentation of that and I'm feeling quite comfortable with this. again, my only issue is relating around the children who are in the highest income group who will change eligibility, and they will have lower And I don't know that that means scores. necessarily lower quality for them. And so that's where I have an issue as the population of very poor are always going to be income-eligible, but those on the cusp are not, and I don't know that a higher score means better quality for those kids who are on the cusp.

CO-CHAIR SUSMAN: Okay. Let's go around to our primary reviewers first and then I'll get everybody else.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

MEMBER FEI: Sure. So keeping in mind that this measure would more than likely be used for accountability, I'm not sure about the ability to really tell -- compare states, tell differences just because of the breadth of the confidence intervals and the overlap that you see.

I don't know that you can really discern state A is really doing better than state B, than state C, than -- you know. I think that would be a tough -- I think it might be tough to do. I'm not saying you can't do it. I think it would be tough to say somebody's really, really doing better than someone else. So maybe --

CO-CHAIR SUSMAN: It does seem like that's an important issue as defined by the algorithm, so if you have a comment --

DR. SILBER: Sure. I'm not quite sure why you're saying that it doesn't look like you can see that states are different. If you look on page 8 where we show the graph --

MEMBER FEI: Not different, but

comparable.

DR. SILBER: Well, we're talking about confidence intervals that often for many of the states -- or half of the states aren't overlapping with the other half. So we lined them up in order of their informed coverage, and you can see that they're -- if you look at -- we gave you the confidence intervals. We thought that was very strong evidence that there's going to be states that are very different than other states. So I'm not quite sure.

I mean, these are -- there are some states that are very small and that the confidence intervals are wider. So Delaware and Hawaii. And some states that are somewhat funny like Nevada, which is the very last one. But the great majority of the states have tight confidence intervals and they are -- and if you look at the graphs, they're not overlapping with each other. In many, many -- at least half don't overlap with the other half.

But furthermore, you don't -- it's not

just that a confidence interval has to not touch each other. You can easily show significance when they're still touching each other or even overlapping to some extent. So we thought this was just obvious that it was reliable and that it showed that the hospitals were different.

We did have this -- I mean, you can interpret it that way. I don't quite understand the comment.

MEMBER HOUTROW: Well, I guess I want to follow up on that. So I'm thinking of a state like Alabama where people have very low incomes. And then I'm thinking of a state like -- I'm just going to say New Hampshire. And I think they probably have not as low incomes. And if the rates of income are different in those states and the rates of chronic health conditions among children are different in those states -- so two things that we demonstrated are -- you've showed in your data.

So let's say Alabama has a bunch of very, very poor kids and a bunch of very sick

kids, and New Hampshire has less poor kids and weller kids -- which actually I think is true.

And so you could then make a statement that because Alabama's continuous coverage is higher -- which relates to the poverty status and their health status -- that they have better quality than New Hampshire?

Okay. So first of all, DR. SILBER: what I would say first of all is that they might show better informed coverage. That's the first thing, right? So there is a difference. you talk about adjusting for income or adjusting for race or adjusting for other characteristics, you get into a philosophical question regarding how do you evaluate the states. We looked at it. From our perspective the reason why we didn't put in these adjustments, from our perspective it was because we thought that states have to do a good job for whatever population they have. And so, that's why we didn't do those statistical adjustments.

So we can get into a philosophical

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

debate about whether we should have adjusted or not or whether we should add adjustment, but I didn't think that it was appropriate for what we thought the goal was as -- when we were asked to help develop this measure from the PQMP, but maybe I'm not understanding your question.

MEMBER HOUTROW: Yes, so you would -you corrected me, and it's true -- and this is
about informed coverage, right, so higher
informed coverage. But the statement in this is
that higher informed coverage is equal to better
quality. And I think that's where we're
struggling because as a quality measure, then not
risk-adjusting for factors that we know influence
it then makes it such that you can't successfully
compare on quality between New Hampshire and
Alabama. You can still assess them on their
informed coverage, but not on the quality of
that.

DR. SILBER: Well, put it this way.

What I would do is say if I was a state that had

a bad statistic on my informed coverage, I'd at

least want to study it and understand it. And if my excuse was that everyone was winning the lottery and somehow the statistic was off -- which I don't believe is going to be the case -- then okay. But at the very least it's a strong indicator that you might have a problem. And so, in our sense if I was a state, I'd rather have a high number than a low number.

And Illinois is an interesting example. We've looked at Illinois over time and then when they instituted a program about ten years ago that was strongly trying to increase their participation rates, they moved up by our statistic radically.

And so to me it is a measure of quality. Put it this way. Any time you have -you don't look good on a quality metric, you always have to examine it and ask, well, is it real, is it not real? But at least I think it lets the federal government and the states say what's going on there? At least we want to understand it.

CO-CHAIR SUSMAN: Okay. I'm going to try to move this on. First of all, let me ask for any of the primary reviewers who had further comments or questions.

MEMBER KELLER: Yes, only a comment -and I think this relates to the previous comment,
I actually applaud you for including error bars
because I always remember that every measurement
that we take -- whether it is with one of our
tools or with a ruler -- has error in it. And we
forget that a lot. We tend to think these things
are absolute numbers. They all have error, and I
applaud you for making it explicit.

So I think that actually strengthens the measure's reliability, the fact that we can see what the error is depending on the size of the sample and various other things that we're working with. And I don't think that reduces its reliability at all. I actually thought that was great.

CO-CHAIR SUSMAN: Okay. Jeff?
MEMBER SCHIFF: Just a couple things.

I think that when I looked at the variation in states, I thought is this really a measure of the hassle to maintain coverage for individual kids and -- because every state has its way of doing eligibility, and I think that -- so in some ways my concerns are -- which was with the first term is about, presumed ineligible and -- it's almost like this is like the measure of the hassle of how much work it is to stay on coverage for families, because some states that may be -- we may think of as not having great coverage actually may make it easier for people to stay on or get enrolled, where other states -- and I'm looking at my state, which is in the lower end of this, aren't so -- maybe they aren't so good at So I think that's important.

It also may -- this is an editorial.

It may be important if some of the proposals to reform the ACA about sticking to -- about if you lose coverage, you get penalized coming into effect.

So, and then the last thing to say is

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

it'll be really interesting -- and I'm not sure if you did this or not -- to look at this by race and ethnicity.

DR. SILBER: We did. That's in the appendix. And there are differences. In general what we're seeing is that blacks have a higher rate of coverage -- of informed coverage than whites in a lot of studies.

CO-CHAIR SUSMAN: Okay. Let's get the other cards, which seem to be proliferating.

Jill?

MEMBER MORROW-GORTON: So I'm not at all surprised that blacks have a higher -because they have lower incomes in general. I
mean, I think -- I still think I have concerns about the potential for missing a systematic error in the higher income families who are bouncing in and out, tends to be seasonal work, tends to be -- and for a state who might -- that might -- and I don't know even -- I can't see where Massachusetts is in there, and I don't really care in the sense that if you're a state

that has higher incomes in general or you have a bigger population in those higher incomes that would be bouncing in and out, that's never good.

But the reality is doing Child Find for those kids for the months that they're eligible versus the months that they're not is a lot of effort and may not be that -- so I think you need to think about should you be -- it's -- this is not about winning the lottery. This is in fact about the guy that has a landscape business who makes \$50 too much this month and doesn't -- his kids don't qualify for Medicaid. That's what we're talking about.

DR. SILBER: All right --

MEMBER MORROW-GORTON: But I think that, one, you need to think about that because to tell a state that they're doing a really bad job at Child Find when it's that kind of an issue is a disservice in the sense that that doesn't help the state find kids that are not on Medicaid that should be on Medicaid.

CO-CHAIR SUSMAN: I'm going to ask

that we --

DR. SILBER: May I respond?

CO-CHAIR SUSMAN: Just a second. I'm going to ask would you really try to focus on the reliability issue here.

Briefly please respond, but I want to try to bring this to a closure.

DR. SILBER: I probably didn't make it clear enough, but bouncing in and out is not going to adversely bias our metric. It's a point in time. We don't bounce in and out for a point in time. The point in time is exactly four months before you got the random event of appendicitis. We don't look to see whether you did or didn't have enrollment on the day that you had appendicitis. A random point for that patient who we knew was eligible at some point. That random point is what we use and we simply ask were you enrolled.

So I don't think that we're biasing the metric by using the point in time prior to the appendicitis. We could be adding some

variability, and what you're saying is maybe there's more variance, but I don't think we're biasing the metric.

CO-CHAIR SUSMAN: Okay. I'm going to go over here.

MEMBER DORSEY: So, yes, I just wanted some guidance on the reliability vote in particular. I noticed reviewing this that the sort of preliminary guidance about reliability voting on the sheets was low. And my question was about the test that was used to assess reliability and whether that was the issue, right? That this is about the tests had shown as point estimates for the states and the error bars around them and whether or not we're -- our discussion should be is that an adequate test of reliability? That's a question to NQF.

DR. NISHIMI: So the PA focused on the ability -- because it was at the score level -- to distinguish among the states, and the issue that Kerri or someone pointed out in terms of the overlap. So for accountability purposes the

assessment was that the neighboring states that 1 2 are clustered in the middle there -- the score may not be a reliable indication when you started 3 4 making comparisons. And so that's what led to 5 the low rating. But again, that's the staff's best assessment at the time and the Committee 6 7 members need to make their own. 8 CO-CHAIR SUSMAN: Okay. With that 9 explanation and further comment, anything else standing between us and voting? 10 11 (No audible response.) 12 CO-CHAIR SUSMAN: All right. Then 13 let's go ahead on reliability. 14 The voting for Measure 3154 MS. JUNG: 15 for reliability is now open. Option 1, high, 16 option 2, moderate, option 3, low, and option 4, insufficient. 17 18 (Voting.) 19 Voting is now closed. MS. JUNG: The 20 results are four percent for high with one vote,

48 percent for moderate with 11 votes, 39 percent

for low with nine votes, and nine percent for

21

insufficient with two votes. So with that we did not reach the 60 percent threshold, so consensus has not been reached for reliability and we continue to vote.

CO-CHAIR SUSMAN: We continue on, right? So we're in that intermediate range, if you will.

Okay. So let's move on to validity.

MEMBER HOUTROW: So in validity, as we had heard before, they used the ACS gold standard and that was highly correlated showing good numbers. And if you look on -- what page is this? There's a table. Table 2, which is their Pearson correlations of the continuity rate and the duration, as well as their own in comparison with the gold standard in each of the two. you will see there informed coverage has -- with the continuity rate, appears in correlation of 0.77. With duration it's lower, 52. And with ACS it's the highest, 46. And similarly they look good in comparison to the other measures against the gold standard of the ACA.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

We need to talk briefly about
exclusions. We've talked about the 18-month
period, which means you do need to do some
exclusion for some 16-year-olds and all 17-yearolds. And in the appendectomy analysis that they
did, they actually dropped 15 percent of them.
And I would assume that most of those are the
older kids, not the under age two kids. But that
-- more than 15 percent is higher than a ten
percent rate, which would be something I would

feel a little bit more comfortable with.

We need to talk about if they're -these exclusions are consistent with the
evidence. I think from the perspective of you
need to not include people who are going to age
out and the under the age of two for appendectomy
that makes sense, and if there are any issues
regarding the impact of that exclusion. And I
think we don't need to do potentially any
additional empirical testing, although I would
ask is it mostly the older kids, that
appendectomy for that 15.6 that were excluded?

1	DR. SILBER: Yes.
2	MEMBER HOUTROW: Okay. We have
3	already looked at the confidence intervals in the
4	graph of informed coverage by state and the
5	comparison there. And then the issue regarding
6	missing data, which is 12 percent of the states
7	weren't able to provide data.
8	So I think it's very straightforward
9	to get appendectomy codes both in ICD-9 and ICD-
LO	10. That's good. It seems to be relatively
L1	clear. There are some issues with the states,
L <b>2</b>	but I think in general this looks quite good.
L3	And then we've talked a little bit
L <b>4</b>	already about the variability in scores and the
L5	concern.
L6	CO-CHAIR SUSMAN: Kerri?
L7	(No audible response.)
L8	CO-CHAIR SUSMAN: Okay. Any of the
L9	other reviewers have further comments on
20	validity?
21	(No audible response.)
22	CO-CHAIR SUSMAN: Seeing none, anyone

1	else?
2	(No audible response.)
3	CO-CHAIR SUSMAN: Let us vote.
4	MS. JUNG: Voting for Measure 3154 for
5	validity is now open. Option 1, high, option 2,
6	moderate, option 3, low, and option 4,
7	insufficient.
8	(Voting.)
9	MS. JUNG: Okay. Voting is now
10	closed. The results are zero percent with zero
11	votes for high, 74 percent for moderate with 17
12	votes, 26 percent for low with six votes, zero
13	percent for insufficient with zero votes. And
14	with that, the measure does pass the validity
15	threshold.
16	CO-CHAIR SUSMAN: Maybe I'll ask Kerri
17	to start us off just to give you a break.
18	MEMBER FEI: I don't want to steal all
19	of Amy's thunder, you know?
20	CO-CHAIR SUSMAN: Yes, I know.
21	(Laughter.)
22	MEMBER HOUTROW: I'm not so excited

1 anymore.

MEMBER FEI: Did you lose your excitement? You used it all up.

CO-CHAIR SUSMAN: Feasibility.

MEMBER FEI: Feasibility. I don't really see any real problems here. I think the problem isn't with the measure. It's with perhaps the data submitted to the MACs database, which is out of the control of the measure developer, so I don't want to make a big deal about that. I think if you were going to use this on a national level, efforts to improve the database would help this measure immensely, I would think. So, that's an aside.

But other than that, that's all I have.

CO-CHAIR SUSMAN: David?

MEMBER KELLER: Yes, I mean, I agree that the MACs database -- data set had some troubles that they clearly identified in their development of the measure. I think that it is in the interest of both the payers and the

providers to make sure that appendectomies are appropriately billed and paid for. So I think that there is an incentive to get that data in place that you should be able to get from within a state Medicaid agency if you were trying to report on it.

CO-CHAIR SUSMAN: Kraiq?

MEMBER KNUDSEN: I was just surprised by the missing data, actually.

CO-CHAIR SUSMAN: Yes. Jeff, anything further?

MEMBER SCHIFF: Nothing specific, except I guess one of the questions I had is whether this will be a measure that the state officials will want their folks to do, which would require some technical assistance for when it's done nationally through the MACs or some other national set.

DR. SILBER: Well, a couple things. We actually have done the confidence intervals -which would have been the technical side of this -- two ways. We did bootstrapping, which we

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

didn't think the states could do. And then we 1 2 did approximate formulas, which are in the appendix, which the states could just apply in a 3 4 SAS program. And they are almost exactly the 5 They give -- to the last second or third same. decimal point they give the same results. 6 7 made this as user-friendly for the states as we 8 That's why the appendix has the could. 9 confidence interval formulas in there. CO-CHAIR SUSMAN: 10 Amy? 11 MEMBER HOUTROW: No, I'm good. 12 CO-CHAIR SUSMAN: Nothing to add? 13 MEMBER HOUTROW: One time ever. 14 (Laughter.) 15 CO-CHAIR SUSMAN: We know you're good, 16 but we're -- okay. Jill? 17 MEMBER MORROW-GORTON: Okay. So a 18 quick question. Knowing that the MACs data is 19 often not great and you lost six states just 20 based on this, is this something that could be

done in a state MMIS system or a -- or so that it

could be done at the state level maybe not using

21

the MACs data, but the state using their own data?

DR. SILBER: So to us the big issue was whether the managed care patients -- when they get appendectomies, do we see bills. And so, if the states know that they can see a bill from that, then -- and often they do have bills. So when they -- if we know that the bills will show up, then great. Then we can -- then a state can -- and if a state knows that, they can use that data. We have in the appendix the test that we use to see if the state had adequate managed care bills that were ending up with appendectomies.

so the way we did that -- and it's explained in the appendix -- is we looked at all the appendectomy cases and then we know whether they were managed care or not. And then we matched every appendectomy case to ten kids in the state, same age, same sex, who didn't have appendectomy. They just had a data set. They were just in the data set. And then we looked at

1 their managed care rate. 2 If we found that the managed care rate in the kids who weren't hospitalized but just 3 4 were in the system was too much higher than the 5 appendectomy rate kids, then we said the state 6 had a problem. And that's how we -- so we had a filter to get rid of states that had inadequate 7 8 -- that looked like they had problematic data. 9 So a state can try to figure that out. They can ask themselves whether their bills are 10 11 ending up or they can run our filter which we put 12 in the appendix. 13 CO-CHAIR SUSMAN: Thank you. Okay. 14 Any other comments about feasibility? 15 (No audible response.) 16 CO-CHAIR SUSMAN: So if it's feasible, let's vote. 17 18 MS. JUNG: The voting for Measure 3154 19 for feasibility is now open. Option 1, high, 20 option 2, moderate, option 3, low, and option 4, 21 insufficient.

(Voting.)

MS. JUNG: Voting is now closed. The results, four high with one vote, 96 percent for moderate with 22 votes, zero percent for low with zero votes, and zero percent for insufficient with zero votes. And this measure does pass for feasibility.

CO-CHAIR SUSMAN: Usability. Kerri, why don't -- you did such a good job.

MEMBER FEI: Oh, sure. She gave me the easy part.

No, as far as usability I guess from a -- and my -- and it's addressed in the documentation using it for accountability I think is always the big discussion. Knowing that that hasn't been determined yet, I would like to see kind of an evaluation of how that could perhaps take place only because that is kind of the end result of where people are going to want to take this. And then I question if it really should be used in a traditional accountability fashion.

I don't -- I'm not sure this is a measure we should be either rewarding or

penalizing based on performance, but I think it's a necessary thing to know the results in order to improve the enrollment for kids on that for Medicaid. So I guess that's my struggle is whether -- it's an awesome -- it's a great measure. I think it's really innovative and novel. I don't know that using an accountability program would be best use of its results is my concern.

CO-CHAIR SUSMAN: Fair enough. Other comments? David?

MEMBER KELLER: Yes, I mean, it
certainly would have -- I struggle with this with
actually all of our measures is how they will be
used, and I think that any accountability measure
would require a state to develop a feeling for
how this measure works and some time and energy
to go into it.

That having been said, I actually think it should be an accountability measure eventually once they do get used to it, because the issue of continuous coverage and churn is

1	just is so important at the state level. So I
2	think it's but I think it is in its current
3	form the developer has made it as usable as
4	possible and the question is, like all great
5	power, will they use it for good or for evil?
6	(Laughter.)
7	CO-CHAIR SUSMAN: Wow. How could you
8	possibly follow that? But I'll call
9	MEMBER KELLER: I have to quote
10	Spiderman whenever possible.
11	CO-CHAIR SUSMAN: Yes.
12	MEMBER FEI: I mean, and that kind of
13	echoes my concern as well. Yes, I think it needs
14	to be used used the right way.
15	CO-CHAIR SUSMAN: Kraig?
16	MEMBER KNUDSEN: Working for the state
17	government, comparing states, it's kind of like
18	an art of sorts. People look at when we're
19	looking at ourself and we go, oh, well,
20	California is doing this or Hawaii is doing this.
21	And then somebody always in the room is always
22	saying, yes, yes, that's not us. So we're not

comparing ourselves to California or Hawaii. How about Michigan, or something like that? So it's useful in terms of a state -- your own state comparison from year to year, but not necessarily across all states.

CO-CHAIR SUSMAN: Jeff?

MEMBER SCHIFF: I think this would be an interesting measure to present to the National Association of Medicaid Directors to say what's going on?

I do think though that there's a marketing issue. I think it should be -- almost be called the Coverage During Random Appendicitis Measure, because I think that's where it really -- that's the strength of it and it gives people the sense then of whether or not they're -- what they're -- because it's really -- I don't want to go back to my hassle-of-coverage kind of issue, because I think that's where the accountable entity is the enrollment -- or the goal of doing enrollment in Medicaid.

CO-CHAIR SUSMAN: Amy and then I've

got a couple of other comments here about 1 2 usability. I think they've 3 MEMBER HOUTROW: 4 spoken to the things that I was concerned about. 5 CO-CHAIR SUSMAN: Jill? Okay. MEMBER MORROW-GORTON: I just have a 6 great -- this would be a great state self-7 8 assessment tool. 9 CO-CHAIR SUSMAN: Yes. Well said. Carol? 10 11 Yes, so if I were to MEMBER STANLEY: 12 put my hat on in my previous role with the state 13 Medicaid, I would see this as a valuable 14 structural measure, especially measuring how good 15 of coordination we have -- the Medicaid agency 16 and Department of Social Services has in 17 maintaining enrollment. And I could see the 18 outcome of this measure being something to 19 leverage getting more resources and coordination 20 going. 21 But one of the questions I have 22 relating to that is in Virginia if a child is

enrolled in Medicaid or CHIP, they have coverage for a full year regardless of any churning. And I don't know how that -- how it is in other states, if that's a federal law or if -- so -- and then the -- another thing, now that I work for -- in a provider setting sometimes and have actually observed children coming in where their coverage has lapsed and the dilemma that the provider faces, this would be a valuable tool to pitch to the state. Look at how you're doing and how it's affecting us.

So one of the questions I have as far as usability are as far as churning between

Medicaid and CHIP -- and we saw that a lot during the recession -- so when you factor in the calculations if a child moves between Medicaid and CHIP, is that counted as -- how does that come to fruition in your measurements?

DR. SILBER: So if we have evidence that they're eligible and they're enrolled, then they're in and the data sets -- to the extent that they pick up both of those, then we have

that information. So we're not -- it's -- again, 1 2 it's a point in time --MEMBER STANLEY: 3 Right. 4 DR. SILBER: -- so we're not thrown 5 off by a change as long as they have something. So if they're in 6 MEMBER STANLEY: 7 Medicaid in your snapshot today, but they were in 8 CHIP six months ago, they're still going to 9 count. That wouldn't make a 10 DR. SILBER: 11 difference, no. It would be a point in time. 12 CO-CHAIR SUSMAN: Jon? 13 MEMBER FINKELSTEIN: So what I'm going 14 to say I'm not suggesting should be determinative, but I think it's important. 15 16 under use and usability for me a perfect quality 17 measure is easily understandable by all 18 stakeholders. So we read it ahead of time. Ι 19 really delved into it. We've had 40 minutes with 20 the developer. And if each of us was forced to 21 take a whiteboard and explain it to five state

senators, none of us would get it exactly right.

I'm not sure many of us would get it mostly right. I'm talking about myself. So that doesn't make it not technically great and worthwhile. And other things may outweigh this, but it is not an easily understandable measure.

CO-CHAIR SUSMAN: I mean, on the other hand, what I'm hearing from some of the folks who deal with these issues regularly on a policy or state level is that it makes sense to them. And I think that's important, because there are going to be different audiences for these sort of measures. And I would concur. I couldn't do a very good justice to this, but for someone who's running a Medicaid program it may be very valuable.

So, unless I see any other hands up or cards up, let's go ahead and vote on usability and use.

MS. JUNG: The voting for Measure 3154 for usability and use is now open. Option 1, high, option 2, moderate, option 3, low, and option 4, insufficient.

	(Voting.)
2	MS. JUNG: Voting is now closed. The
3	results are four percent for high with one vote,
4	74 percent for moderate with 17 votes, 22 percent
5	for low with five votes, zero percent for
6	insufficient with zero votes. And with that, the
7	measure passes for usability.
8	CO-CHAIR SUSMAN: Okay. So any final
9	comments before voting?
10	(No audible response.)
11	DR. NISHIMI: We don't vote on
12	overall.
13	CO-CHAIR SUSMAN: Oh, we don't?
14	DR. NISHIMI: Because it didn't get
15	CO-CHAIR SUSMAN: Oh, it didn't pass
16	the one was indeterminate? Okay.
17	So what do we do? We pray.
18	DR. NISHIMI: So the developer will
19	have the opportunity to bring additional
20	information. You'll also receive comments from
21	whoever chooses to comment on the measure. Those
22	will come back to the post-comment call. You'll

consider the reliability issue, which is the criterion for which you did not achieve consensus. If you achieve consensus and it passes, then we will take an overall suitability for endorsement.

CO-CHAIR SUSMAN: If it doesn't?

DR. NISHIMI: If you don't achieve consensus or it fails, then it just stops.

CO-CHAIR SUSMAN: Okay.

DR. SILBER: Just a general question just for the process, because when we were talking to NQF, they instructed us that this was what we needed to do. And to us it showed clearly that some states were very different than others. So I would request as close guidance as possible.

I'll do whatever this Committee wants, but I just need to know exactly what it is that they want. And right now it's not clear to me because it still in my mind looks clear that some states look different than others, but maybe I'm missing the point. So I'd just request some help

	possible so that I can answer your questions.
2	DR. NISHIMI: I don't think it's a
3	matter of analyses. I think it's a matter of how
4	to interpret your graph. You we asked you for
5	the graph and you produced exactly what and I
6	think what we heard today and I don't want to
7	put words in the Committee's mouth is that for
8	purposes of accountability the fact that the
9	states that were clustered around, you wouldn't
10	be able to tell one better than the other. And I
11	think that's
12	DR. SILBER: For any distribution
13	there's always going to be a cluster in you
14	know, somewhere, and that's going to be ones that
15	are different than others. So again
16	DR. NISHIMI: Yes.
17	DR. SILBER: I don't understand it,
18	but I will
19	DR. NISHIMI: I think about
20	DR. SILBER: work on
21	DR. NISHIMI: half of them weren't
22	and not.

1 CO-CHAIR SUSMAN: Yes, I mean, does 2 the Committee want to weigh in on this question? Amy, you have -- your hand is --3 I don't know if it's 4 MEMBER HOUTROW: 5 appropriate here, but I would have loved to see some potential risk adjustment for things that 6 7 you knew influenced the rates. 8 CO-CHAIR SUSMAN: Yes, Jeff? 9 MEMBER SCHIFF: I don't know if it would -- I don't know if it's exactly the same 10 thing, but it would be -- there seems to be such 11 12 variability that I can't explain and why the cluster is where it is, but I wonder if there's 13 14 some work that could be done to understand what the -- what explains the variation. 15 16 that's -- that's not about the fact that it's not 17 reliable. It's about the fact that there's some 18 sort of special cause variation that I can't get 19 at. 20 CO-CHAIR SUSMAN: Other comments? 21 DR. SILBER: Pardon me? CO-CHAIR SUSMAN: Yes, sure. 22 Please.

1	DR. SILBER: A clarifying question.
2	When you say the cluster, what cluster or what
3	figure are you referring to?
4	CO-CHAIR SUSMAN: It's on yes, page
5	8.
6	DR. SILBER: So the cluster we've
7	lined them up so that they'll look close next to
8	each other, because they're
9	(Simultaneous speaking.)
10	MEMBER SCHIFF: And I think what I
11	guess what I would say is where the it's
12	probably not a good cluster is not the right
13	word. Where the confidence intervals maximally
14	overlap is what I guess I would say is the
15	cluster, but then there's the like the Nevada
16	or whatever one is very low. So it's really
17	about I guess it's really about trying to
18	understand why there is that variation, maybe.
19	But that's maybe beyond the scope of this.
20	DR. SILBER: And that's part of
21	reliability, I guess. I'll try to answer that.
22	CO-CHAIR SUSMAN: I think

DR. SILBER: That's part of validity
I guess.

CO-CHAIR SUSMAN: -- there is clearly some use internally for a state to look at this sort of data. The question is if this is for accountability, can we reliably say that the state that is on the right is really better than the one next to it and the one next to it and -not necessarily that it's ordered or 100 percent, but you have to go pretty far along before -- and there's pretty wide confidence intervals. And of course that's going to happen in any distribution to a certain extent, but there are also a number of states that have very wide confidence intervals and it may well be just the number of incident cases that are there to analyze. think those are the sorts of issues that anything you can do to make the Committee more comfortable would be helpful.

And I'll leave the last comment to Jill.

MEMBER MORROW-GORTON: I just had a

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

couple of thoughts. One would be think about stratifying income levels and looking at what those numbers look like, because states look very different.

And the other thing you might think about is looking at eligibility at both of those two points in time to get a sense of how many of them are the same -- so those kids would have been eligible that whole time period -- and how many of them are different?

DR. SILBER: That question -- I'll have to explain it better in the next try. The question you're asking is -- I've already addressed and I thought I had. So it has to do with a random point in time and it's -- so I'll try to explain it better.

CO-CHAIR SUSMAN: Carol, did you have any final word or just -- okay. Well, I want to thank everybody, and particularly the measure developer who I think did a tremendous job of trying to make a somewhat difficult series of concepts well -- easily understood.

1 And we have regressed to the mean. 2 We're right on time. And we have scheduled a Then we'll reconvene at a quarter to. 3 break. 4 Do you want to give any guidance, 5 John, about our next task or --CO-CHAIR BROOKEY: No, but we have 6 7 five measures to do between now and going home, 8 so just think about that. So see you back in 15 9 minutes. CO-CHAIR SUSMAN: All right. Fifteen 10 11 minutes. Make it sharp. 12 (Whereupon, the above-entitled matter 13 went off the record at 2:32 p.m. and resumed at 14 2:45 p.m.) 15 CO-CHAIR BROOKEY: So I first want to 16 start out by getting a head count of those that 17 are going to be able to stay the long haul. I 18 know some of you have 7:00, 7:30 flights. We had 19 asked people to stay until 5:30, but I know 20 that's not possible for everyone, so let's just 21 start out by asking how many can stay until 5:30,

22

if necessary.

So 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 1 2 12. And how many -- let's just say 3 Okay. 4 if I said 5:00, how many can stay until 5:00? 5 How many more -- how many who said no could stay until 5:00? Does that help anybody? 6 That helps 7 one. 8 So why don't we just see how it goes. 9 And these five measures have a lot of overlap, and I think if we can get through the first one 10 11 or two, the remaining measures should be pretty 12 easy to do. And if -- worst case scenario we'll 13 do it on the follow-up call. We've already 14 committed to a phone call, so I don't think that we should beat ourselves up if we have to leave 15 16 without getting them all completed, although last 17 year we got them all done before we left, and 18 that was a nice feeling. 19 The developer is on the phone or in 20 person? 21 MS. THEBERGE: On the phone. 22 CO-CHAIR BROOKEY: On the phone?

DR. SOLLOWAY: Hi, this is Michelle Solloway, and I am on the phone, as is my colleague Naraa Gombojav.

CO-CHAIR BROOKEY: Okay. So let me just ask you before you get started, do we -- first of all, do we have everybody in the room? Are we all here? I think we are.

So I would ask you to help us a little bit. We're not going to vote on these as a bundle of measures. We're going to vote on them individually. On the other hand, there are obviously a lot of commonality between these.

And so, if you would give us a brief overview of sort of the set of measures and just very briefly touch on the points that are -- distinguish these measures in terms of why they're different one to the next. Just five minutes. But if you could touch on those topics, it would be really helpful.

DR. SOLLOWAY: Sure. Thank you so much, and thank you for inviting us on the call.

And I first of all want to just express my thanks

to Suzanne and her staff for really helping us through this process. Christina Bethell -- who actually was the original developer of this -- was not able to be on the call today, so I just wanted to first of all say thank you to everyone for all your help with this, because this is the first time I've gone through this process. So please bear with me if I don't understand all your procedures.

so I want to say that all of these measures -- 3219 to 3223 -- are all part of one tool, the Promoting Healthy Development Survey, which was previously endorsed by NQF. So these are different sections of the same tool. And the way this tool is used is it is a survey that is sent by providers to the families after a well-child visit to find out if the providers actually provided the well-child care in accordance with national guidelines.

And these different components,

different measures, as you will, are -- represent

different pieces of standard national guidelines

for well-child care. So anticipatory guidance, asking about parental concerns, family-centered care and family assessment for psychosocial screening and behavioral health and home safety.

So all of those are different aspects of national guidelines that are recommended by the American Academy of Pediatrics. They're all based -- all these measures are based on those recommendations. All these measures are recognized by the National Quality Measures Clearinghouse as being measures that meet basic criteria for use as standard indicators for healthcare quality for children.

Nothing has changed about these measures since they were endorsed as a -- in total as a tool, as the PHDS tool previously by NQF. So that's why they all -- that's why the applications kind of all look very similar.

So the specific details on the validity and reliability might be different because of how the different measures are constructed, but they're really all meant to be

part of and taken together as an assessment of whether children are receiving well-child care in accordance with national guidelines.

Also, several of the items are actually in national surveys, so all of the items in the Anticipatory Guidance Measure, 3219, are in the National Survey of Early Childhood.

Asking about parental concerns and family-centered care are also in the National Survey of Children's Health.

So -- and I also just want to say that the development of the PHDS tool and all these different measures were -- there was a very, very rigorous process a number of years ago that really involved experts in measurement development and research and child health and quality measures that really all came together from expert panels. It was followed up with testing with providers and testing with parents.

And so the ways in which these measures were initially developed went through a very, very rigorous process in which the

reliability, validity and feasibility were all 1 2 very much flushed out and really done in detail. And also these are measures about which providers 3 4 can do something to improve the quality of their services. So nothing is included here that is 5 not actionable. So it's all very actionable. 6 7 And I think I'll stop there and see if you have any questions for me at this point. 8 9 CO-CHAIR BROOKEY: I think that's a good introduction. And so we'll launch into this 10 11 discussion. We're first going to talk about the 12 evidence. This is an outcome measure. 13 And I think, Sue, are you going to kick off? 14 MEMBER KONEK: 15 16 CO-CHAIR BROOKEY: Okay. 17 MEMBER KONEK: This is for 3219, 18 Anticipatory Guidance and Parental Education. 19 And I'll say a little bit more since she did a brief overview. 20 This is a -- this measure is used to 21 22 assess the degree to which pediatric clinicians

discuss key recommended anticipatory guidance and 1 2 parental education topics. Necessarily, anticipatory guidance questions vary by child 3 age, and of course we understand that. 4 This is an outcome measure. 5 The measure proposes a method to determine how well 6 7 the providers are meeting the goal of providing anticipatory guidance and parental education. 8 9 Through a survey of parents post-wellvisit, parents will indicate whether their 10 11 anticipatory guidance and parental education are 12 Providers reviewing results of the surveys 13 grouped in ten or more surveys will learn how 14 effective they are in meeting this goal. Then they can be trained in AAP Bright Futures 15 16 training that's available addressing this topic 17 and subsequently improve the AGPE to better meet 18 patient and family needs. 19 Do you want me to go more into evidence? 20 21 (No audible response.) 22 MEMBER KONEK: Evidence was presented

1	that both parents and clinicians felt that
2	anticipatory guidance was the most important
3	point of discussion at well visits. Evidence was
4	also presented to demonstrate that by using a
5	survey tool followed the I'm sorry, the PHD
6	Survey following that they could use a PDSA QI
7	work, do that work, providers are able to achieve
8	statistically significant improvement in
9	providing this AGPE.
10	Parents are more likely to report
11	their needs for anticipatory guidance were met in
12	follow-up assessments and surveys and to note
13	that it's an ongoing process, so improvement can
14	be measured. And that's the evidence.
15	CO-CHAIR BROOKEY: Before Jim goes
16	and maybe Jim can answer this question. I was
17	looking for the actual survey instrument. I was
18	
19	MEMBER KONEK: Do you want me to

MEMBER KONEK: Do you want me to -oh, do you want us to read that? I have it.

CO-CHAIR BROOKEY: Well, the question

I had is as I recall this is --

20

21

1	MEMBER KONEK: It's a patient
2	CO-CHAIR BROOKEY: it's the
3	parent's recall of the
4	MEMBER KONEK: Yes, the patient
5	reported outcomes.
6	CO-CHAIR BROOKEY: conversation
7	between the
8	MEMBER KONEK: Yes, it's the patient
9	reported
10	CO-CHAIR BROOKEY: pediatrician
11	but was it a laundry list of anticipatory
12	guidance items?
13	MEMBER BOST: So there's three
14	questions. Well, it's there's three different
15	age groups that have slightly different questions
16	for this domain.
17	MEMBER KONEK: Different questions in
18	each group.
19	MEMBER BOST: And there are three
20	questions with sub-parts to them. So there can
21	be a total of like 16 items.
22	And this particular domain in the

measurements and guidelines for it, they talk about a few different roll-up measures. What I believe we're talking about for this one is you look at all 16 items and you see whether or not for each of those items the parent said yes, I received some instruction or no, but I didn't need instructions. And then the measure for the physician is the percent of parents who said those two things for all the items.

DR. SOLLOWAY: Right, and I would just like to mention that there's really three sections, so there's five or six questions on physical health, there's six questions on behavior and language and learning, and then there's three questions on injury prevention. So you can actually just have scores by those three sections, if you want. But you are correct, the way you measure it is the percent of parents who said yes or I didn't need this information to all of the questions. So, yes, that's correct.

MEMBER BOST: So that's the way it's measured. And I don't really have anything more

to add to evidence, just some clarification on how the measure is actually done.

CO-CHAIR BROOKEY: So the evidence -well, the evidence is whether this is actionable
by the pediatrician who gets the results. And
theoretically, if I get kind of a report card
back, I'm going to modify my approach to wellchild care. Is that how we look at the evidence
for this particular one?

MEMBER KONEK: That's it.

MEMBER BOST: And they do mention in one of their studies that it was actually done and they did like a training program at one of the institutions and it showed improvement.

CO-CHAIR BROOKEY: Yes, okay. Jeff?

CO-CHAIR SUSMAN: So just to clarify,

let's say there are 15 measures -- just to make

it easy -- and I do 12 of them, I will not meet

the criterion. And it's also then supposing that

if you do 15 and I do 14, that there's some

difference in quality that is supported by

evidence since this is what we're talking about,

	the evidence.
2	MEMBER BOST: But that's not this
3	measure, like you said.
4	There's another way you could do this.
5	You could look at what was the percent of those
6	15 items that the parent said yes and then take
7	that average across all parents, but that's not
8	what this is.
9	CO-CHAIR SUSMAN: Right. But I mean,
10	it's suggesting that the outcome measure that
11	this 15 out of 15 for argument's sake, is really
12	a significantly better outcome than my doing 13
13	out of 15, if I'm following correctly.
14	MEMBER BOST: Right. Absolutely.
15	Yes.
16	CO-CHAIR BROOKEY: Do the doctors get
17	an itemized report or do they just get that sort
18	of pass/fail for each section?
19	MEMBER QUINONEZ: I mean, it seems
20	like
21	DR. SOLLOWAY: Okay. I was on mute.
22	Sorry about that.

MEMBER QUINONEZ: -- the numerator and denominator, it means you just -- you either did it or not for all 16 items.

CO-CHAIR BROOKEY: That's kind of what I thought as well, but go ahead, developer. Go ahead and clarify.

DR. SOLLOWAY: That's correct. It is really about all of the age-appropriate items because all of them are recommended to be given as anticipatory guidance. So that's the benchmark.

The way the providers get the report, they send this out and then they can generate a report. When they have at least ten surveys they can generate a report, but because we guarantee parent confidentiality, if for example there isn't enough data to maintain that confidentiality, it wouldn't show up as an itemby-item list. If there is enough, we do show that.

And actually, we -- what we do is we show in -- we have the three different domains,

physical health, behavior -- behavioral health and injury prevention. We show those three specifically, like what their percent in each of those domains, but then we also have a chart which is by age and by each of the questions.

And we put in red -- we show them in red which ones they didn't meet, but we can't give them the numbers unless there's really a lot of surveys. So they get the information to see what they're not doing well, but they don't necessarily get the metric on it if we can't guarantee parent confidentiality, if that makes sense. Does that make sense?

CO-CHAIR BROOKEY: So you're saying there's some volume threshold at which you would give them more specifics?

DR. SOLLOWAY: Right, because we're guaranteeing parent confidentiality in this report. So in other words, if they don't have enough surveys -- if they would know for example -- if they could remember what they did or go back in their records and look and they can

1 identify specific parents that they talked about 2 specific things with, we have to make sure that we quard that confidentiality. So, yes. 3 4 CO-CHAIR BROOKEY: Yes, I get it, and 5 I think it's a validity question, too. 6 DR. SOLLOWAY: Right. 7 CO-CHAIR BROOKEY: But it's also an 8 evidence question as to whether you can actually 9 act on the information, because that's really what we're looking for is an outcome --10 11 DR. SOLLOWAY: Right. 12 CO-CHAIR BROOKEY: -- metric. And to 13 say that --14 (Simultaneous speaking.) DR. SOLLOWAY: And we show them in 15 16 red. Like, so we have a chart that has every 17 item by age and by -- so that we highlight it in 18 red if they didn't -- areas where they didn't 19 make the cut, where they didn't ask those 20 questions. So it gives them information about 21 what they could do to improve. 22 Like for example, if they aren't

1	talking about car seat safety or burns or how to
2	keep your child from getting burns, we can
3	highlight that in red and then they could say,
4	oh, we better get we better tell our people to
5	ask about those questions.
6	CO-CHAIR BROOKEY: Yes.
7	DR. SOLLOWAY: Or make sure that they
8	fill out some form where we've asked those
9	questions, because it looks like we're not asking
10	that enough.
11	CO-CHAIR BROOKEY: Yes.
12	DR. SOLLOWAY: So they
13	(Simultaneous speaking.)
14	CO-CHAIR BROOKEY: And just to help
15	you out, when you say they, you're really saying
16	you, because I'm a pediatrician. So
17	DR. SOLLOWAY: Oh, I'm sorry. Yes.
18	Yes, you.
19	CO-CHAIR BROOKEY: So that's why I'm
20	asking a lot of questions. But let's move on to
21	let's see. Well, we have Rajiv and is
22	Martha Martha's here, right?

1 Oh, there you are. We haven't heard 2 So do you want to comment? from you. Yes, the only thing 3 MEMBER BERGREN: 4 I was going to say was that there were several --5 and I'm repeating a little bit that there were identified ways to improve the quality that had 6 7 been demonstrated. So that's it. 8 CO-CHAIR BROOKEY: Okay. So you're 9 saying that that supports the evidence part of this is what you're saying? 10 11 MEMBER BERGREN: Yes. 12 CO-CHAIR BROOKEY: Okay. Rajiv? 13 MEMBER MODAK: Nothing more on that. 14 CO-CHAIR BROOKEY: Okay. Any other comments from the group about the evidence? 15 16 David? 17 MEMBER KELLER: So this is actually by 18 way of a question because within -- I know Bright 19 Futures pretty well and I know the folks who are 20 on your Advisory Committee, and one of the 21 challenges is that within Bright Futures, it recommends that providers focus on three to five 22

1	of the possible items at each visit, the notion
2	being that over time you will end up covering all
3	of these things. And I've been hunting through
4	because I didn't do a close review of this to see
5	what time when you're asking these questions,
6	are these questions related to a particular visit
7	or to a series of visits over time?
8	CO-CHAIR BROOKEY: And I wonder if
9	that's a feasibility question, but go ahead and
10	answer the question briefly. I think that may be
11	more to feasibility and usability, but,
12	developer, you want to comment?
13	DR. SOLLOWAY: Sure. So really it's
14	about the survey is sent out and they're asking
15	about the last visit.
16	MEMBER KELLER: The last visit? Okay.
17	Thanks. That's all I needed to know.
18	DR. SOLLOWAY: Yes.
19	CO-CHAIR BROOKEY: Yes, right.
20	DR. SOLLOWAY: Yes.
21	CO-CHAIR BROOKEY: Any other Jim?
22	MEMBER BOST: So the fact that they

get that itemized list of what's red and not, 1 2 they -- a provider doesn't really need this rate to know where they need to improve. 3 So I would 4 ask the developer what other uses will this rate 5 have? Well, you mean the 6 DR. SOLLOWAY: overall scoring rate? 7 Right. I mean, you can 8 MEMBER BOST: 9 use it to compare or benchmark yourself, or --DR. SOLLOWAY: 10 Yes. 11 MEMBER BOST: -- do you guys use a 12 cutoff that you think means you need to do 13 something or --14 DR. SOLLOWAY: Well, what we do is when we provide the information back to the 15 16 providers or to you, what we would give you is 17 here's the national standard, here's the national 18 average and here's your score. And then the idea 19 is that you can use that in a PDSA quality 20 improvement cycle for which you can get 21 Maintenance of Certification Part 4 credit to -if you go through a process showing at two 22

subsequent time periods that you've implemented some activity to improve anticipatory guidance and that -- and then you have subsequent scores. So in other words you would use this survey at time one to get the baseline data, at time two and time three showing that you could improve over time.

CO-CHAIR BROOKEY: Okay, we don't want to talk about MOC though. That is a whole other discussion.

So, the question is about evidence, and it sounds like there is at least two or different things that can be done with this data. Does anyone have any other comments about the evidence for this particular measure or should we go to vote?

Jill.

MEMBER MORROW-GORTON: Just knowing that parents don't always hear what you say and they don't always remember, and depending on the timeframe between the visit and when they got the survey, do you have any evidence about or any

look at -- and maybe this is reliability, but look at what actually was talked about in the visit measured in some other manner and what parents remembered?

DR. SOLLOWAY: That is a really good question. And I have to say that I was not at CAHMRI at the time that this was developed. I would imagine and suspect that there may have been a little of that validity checking up on to see about that but I don't know. Naraa, do you know if that was done?

DR. GOMBOJAV: Yes, you know, I haven't seen at the time when the issue was up but I know from the previous literature using PHDS survey there are many literature searches being done to develop the survey. So we can -- I think we provided some of this literature found on these topics that --

CO-CHAIR BROOKEY: Okay, so it sounds like no. But I mean there are other things that are out there that depend on coding. So you can blow in a B code for dietary advice and

counseling about screen time and so forth, whether you did it or not, right, especially in Epic.

So this is getting to, really, hopefully what really happened or at least what the parent perceived happened. So you can decide yourself whether one is better than the other, I suppose.

Any other about evidence? David.

MEMBER KELLER: So just a quick
question. How long until the families get the
surveys? What's the timeframe?

DR. SOLLOWAY: The provider can send it out whenever they want. So, it's really up to the provider to make that decision. So they could do it at the end of every visit. You know, they could just have their staff send it out, or if it's available on a patient portal, because that is really up to the provider. We don't have any control over that.

CO-CHAIR BROOKEY: Okay, that may not affect the evidence discussion.

1	Any other questions or comments about
2	evidence? Okay, I would recommend that we go to
3	vote.
4	MEMBER EDIGER: I actually have a lot
5	of thoughts about this.
6	CO-CHAIR BROOKEY: I'm sorry. I
7	didn't see you down there.
8	MEMBER EDIGER: That's okay. So, I am
9	one of the lead discussants on one that's further
10	down so I am happy to save a lot of my thoughts
11	but it seems
12	CO-CHAIR BROOKEY: No, go ahead and go
13	now.
14	MEMBER EDIGER: like they are
15	relevant to all five.
16	CO-CHAIR BROOKEY: Yes, go ahead.
17	MEMBER EDIGER: So, I'm thinking about
18	what you just asked about, like do parents hear
19	what the checklist that the pediatrician's going
20	through? And an example for me is, as I
21	mentioned, I disclosed I have four kids. I had
22	twins. I overshot. It's a long story.

(Laughter.)

MEMBER EDIGER: But so my pediatrician

-- and we have gone to this same pediatrician.

We love her more than oxygen. We've gone to her

for over 16 years. And one of her standard

questions is, do you have your own room? And

every time, my kids are like, "no." Because I

have four kids. And I always felt it always sat

really uneasy with me. I always felt like it was

a very judgmental question. Like, no, we don't

have a house with five bedrooms but thanks for

asking every single time I come in.

I just ask why you ask this question. And she said, "oh, well, I want to know if they feel like they have a place to go that is private. Like do they have space in the house to go to feel like they have their own space?" And I was like, well, then you should ask that. And I told her. I said I feel very judged when you ask my kids four times a year in front of me.

Anyway, so I think that is a really

good example of how good intentions -- she's going through her checklist, so I'm sure that question lines up in her mind with one of the questions on there, but with me it was salt every single time.

And I have other examples like that but just everything about reading about this survey, it didn't sit well with me because the parent gets nothing out of it except a report that says when you go back in 12 months for your next checkup, here's a list of things you should ask about: your car seat, if they have their own room -- yeah, 12 months later.

And I'll say, I'm specifically in the psychosocial screening so I'll save some of it specifically for that when we get there, but I have a lot of concerns about the intent of what this is supposed to do, and the people that do all the work actually filling out the 20-minute survey don't get anything out of it, in my opinion.

CO-CHAIR BROOKEY: You have to

disclose every time that you have guns in the house and things like that. So I appreciate your comments from a parent, because we do, we do survey -- we survey our patients all the time, whether they want to be surveyed or not. And there is very good reasons for doing that but I appreciate your perception of it.

## And Tara?

MEMBER BRISTOL-ROUSE: So I feel a little bit differently, actually. So I work in quality improvement so there is an appeal to me that you can get the data back after ten responses so that you can make some semi-real-time changes in practice.

But I wanted to address the perception issue because I could see where that could be a sticky wicket for some providers, is that I think for parents or caregivers perception is reality.

And so even if a parent is saying you never talked to me about breastfeeding, and this kind of gets to Maureen's point, like, you know, you have to look back and you go, as a provider you

might say, "I know I have talked about breastfeeding with everybody." So then it's like, "well, am I not talking about it in a way that is meaningful to the parent?"

And so I think regardless of how you look at it, the parent's perception is the weighty thing that should help you to improve your practice. So I just wanted to bring up that point about perception and what's meaningful.

CO-CHAIR BROOKEY: Good point.

Jeff.

thinking about this in an accountability
framework and trying to make a judgment about a
provider's performance based on providing the
whole haywagon-full of anticipatory guidance, 15
questions, whatever it is, rather than
potentially meting this out and focusing on maybe
half of the questions or two-thirds of the
questions and then following up later.

So I am not convinced that there is an evidentiary link between doing all this stuff and

an improved outcome. I mean, I believe that each of these individual things are probably good things to do and there is probably some evidence we could find for each of them, but the all or none aspect, I am not clear about.

And in fact I know there is good evidence around changes in behavior, preventive services, that suggests that you focus on a meaningful few, as opposed to everything, or you do some negotiation process. So that's where my dis-ease and looking at it from an evidence perspective.

agree with that, but I also just want to go back and say we're looking to see whether or not the measure, as written, could potentially lead to, in this case, a change in behavior in the provider. Does it have to be broken down into every element or would -- sort of three different answers, you basically have three different pillars of this.

So, is it sufficient for evidence to

say that, even if you don't get the detailed report, that a provider could look at that report, compare themselves to others, potentially change their behavior? That's the question about evidence.

So, we have a couple cards up. I will start with you, Rajiv.

MEMBER MODAK: So I think that what is the challenge is, I think there's a potential to change behaviors when performance is very low and you can improve those behaviors. But when you get to a certain point, I don't know how much you really impact meaningful behaviors that will improve outcomes for patients and will even improve their satisfaction.

So, speaking to going over the top
with the questions that you are asking where I
think there is some support for the idea that you
can move people who are low performers to the
middle.

MEMBER FINKELSTEIN: So, I was listening to what you were saying, John, and I

1	would have said it very differently. If this is
2	if we are considering this an outcome measure
3	are we considering this an outcome measure? I
4	think the question is not whether the measure
5	would result having the measure would result
6	in provider behavior change. That's not the
7	question. The question is, if this is an
8	outcome, does provider behavior is there
9	something the provider can do or not do affect
10	this as an outcome?
11	So, from my perspective, I'm going to
12	have other issues as we get into validity, but I
13	think, if this is an outcome, I could do
14	something to affect this outcome.
15	CO-CHAIR BROOKEY: Yes, just to read,
16	there needs to be a relationship between the
17	measured health outcome and at least one health
18	care action, which is structure, process,
19	intervention.
20	MEMBER FINKELSTEIN: Right.
21	CO-CHAIR BROOKEY: So it could be

so again, I mean, I think ultimately we want

better outcomes for the actual patient. 1 2 this case, we are just looking for some change that could be -- some action that could result 3 4 from this measure, the result of this measure. 5 So it's just the way that the I would like there to be algorithm is written. 6 7 more evidence for actually improved patient 8 outcome but that's not what we are looking at 9 here. 10 Let's see. Carol, did you have your 11 hand up? 12 Jim. 13 MEMBER BOST: I just want some 14 clarification from staff. So it's my 15 understanding that this survey was already 16 approved. Is that true? 17 DR. NISHIMI: Well, not as a quality 18 measure. 19 MEMBER BOST: Actually, what I'm 20 trying to get at is, you have already signed off 21 on the items in this instrument and the domains. 22 So we're not really here to look at whether an

item is good or valid or reliable, just the roll-up measure itself. Or do I not get that?

DR. NISHIMI: There was an original survey instrument 0011. So the fact that it has number 11 means it was very old.

(Laughter.)

DR. NISHIMI: And it was done at a time when NQF considered instruments in their entirety. So the kind of review and the criteria have evolved and the types of testing required have evolved.

numbers because they have been split into specific performance measures based on those items. So previous endorsement doesn't really apply here. You're looking at this performance measure, which is the percent of, you know, blah, blah, blah.

MEMBER BOST: It sounded like the developers weren't ready to answer those kind of item analysis stuff that are previously published psychometric papers but were more here to focus

on the measure.

DR. NISHIMI: And you will see we require item-level testing and score-level testing. And so they have looked at and reported certain focus group-related stuff, but they've also looked at item-level testing. And so that is why that is in there, because our requirements now are different. We're actually looking at the performance measure, not the instrument.

CO-CHAIR SUSMAN: Just briefly, one of the other factors in this is benefits of -benefits and harms. And I see what the sort of natural outcome of this is that the Epics of the world will have checklists, that people will dry-lab every one of those checklists because you want to get credit. Or if they are really honest, they will subject you to all 15 items every time you come in, or whatever the appropriate thing is.

So I think there are some potential harms here that we just need to be mindful of. I don't know whether that really shifts the

conversation fully one way or the other.

CO-CHAIR BROOKEY: David.

MEMBER EINZIG: So, nuances. So when we vote, are we voting -- I mean, I think it is easy to say that will change behavior, but if we don't think it will change behavior in a meaningful way, does that affect how we should vote?

CO-CHAIR BROOKEY: I think we're sort of blending our own personal experience with validity questions. We're questioning threats to validity. We're questioning unanticipated harm, unanticipated reactions from parents even perhaps. So there's a lot -- we're blending in a lot of this together. So I think we need to focus on the first question of evidence, which is, everybody, I refer you back to your algorithm, and just to say, whether you like it or not, the way the measure is created, whether you like the way it is reported back, it is not an item level unless you hit a certain volume threshold.

As it is written, do you believe that there is a relationship between the measured health outcome and at least one healthcare action, which could be a structure, process, intervention, or service, which means, in my mind, that the me getting this report will look at this and say, wow, I need to spend more time on this.

And so that's the question. That's what you have to wrap your head around to say whether or not you believe that is true or not. And that is what we are voting on. And kind of try to put aside all that other stuff for the moment because we are going to get to that.

So is everyone clear on what we are building on, I guess, is my question. So, it's not real satisfactory, is it, but it is what it is. So we're just going to have to go one step at a time.

So, let's go ahead and vote on evidence, pass or not pass.

MS. JUNG: The voting for Measure 3219

for evidence is now open. Option 1, pass; option 2, not pass.

Okay, voting is now closed. We have 68 percent for pass with 15 votes; 32 percent for not pass with 7 votes. And with that 68 percent, the measure passes for evidence.

CO-CHAIR BROOKEY: Okay, so let's talk about measurement or performance gap. Who's going to start this one?

MEMBER KONEK: Alright. So there appeared to be opportunity for improvement. The developers have provided three different well-designed research studies that show substantial variation in the measure across sociodemographic groups. And it showed there is room for improvement.

And we're going to hear more about those tests, those studies shortly. But there was clearly a demonstrated performance gap in providing AGPE, with rates varying from only 40 to 60 percent. The review of the Promoting Healthy Development Survey results of the top

five providers -- and you are going to hear about them through the whole thing; they looked at the people that had the most surveys that came back.

And so they looked at them and the range was 46.8 to 84.8 percent was seen by the proportion of parents who reported discussion of all topics or reported no need to discuss them, such as people with a couple of kids. And the cited KPNW study showed a range of 22.2 to 67.7 percent.

So, it looked like there was a big range in how well people -- the providers were providing this so that the family felt that they had their needs for the information met.

CO-CHAIR BROOKEY: So do you interpret that as a gap?

MEMBER KONEK: Well, that's how it was laid out. It seems they felt that there was a gap as far as performance for this. There was disparity shown with some groups, also, which were also discussed at length.

MEMBER BOST: Yeah, I mean, basically

the rates presented showed a lot of room for 1 2 improvement. There were differences across socioeconomic groups, and, like you said, across 3 4 physicians. 5 MEMBER KONEK: Right. And I also just want to 6 MEMBER MODAK: 7 echo that that's the most important point, to me, 8 was the disparity among ethnic backgrounds, 9 socioeconomic backgrounds. And it's been reported that especially when there's language 10 11 barriers there's a huge discrepancy. So I think 12 there is a significant gap. 13 CO-CHAIR BROOKEY: Yeah, the use of 14 interpreters and health literacy issues, all 15 kinds of things can contribute to that, parents 16 feeling like they weren't communicated to during 17 the visit. Those are very important points. 18 Ricardo. Ricardo. 19 (Laughter.) 20 CO-CHAIR BROOKEY: Your flag is up. 21 MEMBER QUINONEZ: I have a virus. 22 Sorry.

So, in the gap, in the evidence for 1 2 gap, just as a question, does the developer have to show just that there's a gap or that gap means 3 4 there is a difference in quality? I mean, that 5 there's a gap in quality. So, meaning, yes, we know that there's decreased performance if you 6 7 look across different providers, but I'm not sure that necessarily correlates with worse quality. 8 9 CO-CHAIR BROOKEY: Yeah, I think it's not about that. I think it's about whether or 10 11 not this measure is going to -- if you measure 12 it, you are going to see a gap. 13 MEMBER QUINONEZ: Big difference. 14 CO-CHAIR BROOKEY: Right. I think that it's that 15 MEMBER KELLER: 16 the evidence supposedly establishes that there's 17 something there and then the gap shows that 18 there's room for improvement. 19 MEMBER QUINONEZ: No, but because we 20 only voted on whether the evidence can be 21 modified. We didn't actually vote on the merits

of the evidence. So, that's why I am asking.

well, we did vote on evidence, which we defined in this situation as being something that could be acted on. And then the gap is that there is variation between providers and ethnic -- or there's socioeconomic or ethnic differences between the results.

So I think you have to kind of stretch it further to believe there is a quality gap but I don't think that is what we are voting on here.

Yes?

MEMBER DORSEY: So since this is a provider-level measure, the question that I want to see the answer to is either within do providers have differential quality for their higher-income/lower-income patients, or among providers who have a large proportion of certain vulnerable patients, do they tend to have lower scores? Rather than just the raw rate in the subgroups. That doesn't tell me much about the performance gap at the provider level.

CO-CHAIR BROOKEY: Right. So, John?

MEMBER FINKELSTEIN: So I have a question really for the NQF staff. And I'm okay continuing down this road but this was a problem that came up at our last meeting. I will just go on record. This is not an outcome measure. It is a patient report of a process. And when you treat a patient report of a process -- this isn't "can I get up in the morning and go upstairs." That is a patient-reported outcome. When you take a patient report of a process and start treating it like an outcome, we get into funny problems.

So, if that's the road you want us to go down because that's -- that's okay but I just want to call that out.

CO-CHAIR BROOKEY: Okay, duly noted.
Carol?

MEMBER STANLEY: Yeah, a couple of things about gaps. One was this instrument -- is this sent out in Spanish to patients whose primary language is Spanish? Because if that's not the case, then I'm not so sure you can say

1 there's a disparity or what kind there is with 2 ethnicity. The other thing along those lines is 3 I think I read where the instrument is written at 4 5 the eighth or ninth reading level. So, that's pretty high, considering Medicaid population. 6 7 I'm not really sure how accurate this disparity 8 presentation is. 9 And I also agree with the comment that if this is a provider-level measure, then I think 10 11 we would need to see numbers that showed 12 disparities between the providers and not looking 13 at these aggregate numbers. 14 CO-CHAIR BROOKEY: So for the 15 developer, is it sent out in either Spanish or 16 any other threshold languages? 17 DR. SOLLOWAY: I don't believe it is 18 because I don't think we had the money to develop 19 the Spanish version, but I could be wrong about 20 that. Naraa, do you know? 21 DR. GOMBOJAV: Yes, no Spanish version for now. 22

1	DR. SOLLOWAY: I don't think so. I
2	don't think we had the money to develop it.
3	CO-CHAIR BROOKEY: Thanks for bringing
4	that up, Carol.
5	DR. SOLLOWAY: Spanish, yeah, it's a
6	very good point.
7	CO-CHAIR BROOKEY: Jeff?
8	CO-CHAIR SUSMAN: It just seems like
9	a lot of issues that we are talking about are
10	really tending toward more validity issues and we
11	should make sure we come back to them.
12	CO-CHAIR BROOKEY: Yeah, don't forget
13	that one. That's a major concern.
14	So let's see if we can talk about, or
15	at least vote on, gap, now that we do we all
16	know what gap is now for this purpose?
17	So, let's go ahead and vote on it.
18	Let's close the gap.
19	MS. JUNG: Okay, the voting for
20	Measure 3219 for performance gap is now open.
21	Option 1 is high; option 2, moderate; option 3,
22	low; and option 4, insufficient.

Okay, voting is now closed. The results are 5 percent for high with one vote; 77 percent for moderate with 17 votes; 5 percent for low with one vote; and 14 percent for insufficient with 3 votes.

And with this, the measure does pass for performance gap.

CO-CHAIR BROOKEY: Okay, so reliability. Who's going to kick that one off?

MEMBER BOST: So reliability testing was done at three different studies, each that seemed to have adequate sample size and appropriate variability across socioeconomic status and age. The Cronbach's alphas were consistently in the 80 to 90 percent range for all items together and in the 70 to 80 percent range for the items within each of the three questions.

Though it's really mentioned in validity, the items also had high factor loadings on each and acceptable interclass correlation coefficients.

I think, if anything, I might have liked to see some test/retest to see if parents would respond similarly a week apart or something like that. But other than that, I thought there was good reliability assessment.

CO-CHAIR BROOKEY: So, Carol, go ahead. I mean Sue. I'm sorry.

(Off-microphone comment.)

CO-CHAIR BROOKEY: So getting back to the question about language and getting to the question about the provider sending it out themselves and they may send it out the same day or a week later or further down the road, does that affect potentially both reliability and validity or not?

MEMBER BOST: Yeah, that's why I would have liked to see some test/retest to see if it is different. Because then if you're doing something like comparing across clinicians, should you be doing that consistently or not?

And that kind of testing might help us understand that.

MEMBER MODAK: So I think that that's a key point, especially with reliability, is when those surveys are getting sent out as well, because there is a huge difference in patient memory or parent memory from the day of the visit to three days later than after the visit. So, I don't think that has been vetted in this.

CO-CHAIR BROOKEY: So are you suggesting that is a threat to reliability as well as validity?

MEMBER MODAK: Yes.

CO-CHAIR BROOKEY: Okay. Now Carol.

MEMBER STANLEY: Yeah, and along those lines I think with needing to have six well-child visits by 15 months, if you are going by the HEDIS measure, and a parent gets the survey at month 16 and their child has had six well-child visits over the past 12 months with different providers, how do they know which provider they're evaluating if this is going to be a provider-specific report?

CO-CHAIR BROOKEY: I will ask the

developer to answer, that but I'm guessing that 1 2 the questionnaire will say during your last visit. Is that correct? 3 Yes, actually -- well, 4 DR. SOLLOWAY: 5 some of the questions ask in the last 12 months. Actually, these questions ask, "since your child 6 was born did your child's doctors or other 7 8 healthcare providers ask you about the 9 following." So it really includes any of the providers you had. So it's really kind of a 10 comprehensive measure of taken as a whole. 11 12 MEMBER STANLEY: How can that be 13 provider-specific, then? If the report is going 14 to a provider, how do you discern those -- that it's encompassing the providers from the last 12 15 16 months? 17 DR. SOLLOWAY: Well, actually, I 18 misspoke. These are not for the last 12 months. 19 These are since your child was born did you get 20 these questions. 21 And, you know, you're asking a very 22 good question and I think there is probably some

assumption that they're staying with the same provider. But as I said -- oh, and actually in the injury prevention one it is in the last 12 months.

And I know that these questions were really designed to really coincide with the way the questions were asked because they were tested for their validity and reliability in the National Survey of Children's Health. So I know that these questions were meant to align with those questions, which is why the wording is the same. But I understand your point.

CO-CHAIR BROOKEY: So -- and I want
David to go. I just want to back up a notch,
having this new information. Going back to the
question of evidence and saying that I can look
at my report and do something about it, now I'm
hearing that this report may not reflect the care
that I gave. Is that an accurate statement?

PARTICIPANT: You could come to me and tell me what to do better.

CO-CHAIR BROOKEY: I'm asking the

developer if that's accurate, that the report is not strictly speaking just based on what I did.

It's the perception of the parent over all the care they've received, and it could be from numerous providers.

DR. SOLLOWAY: I think that's true, yes.

MEMBER HOUTROW: To speak to that in particular, we did some research several years ago which shows that children with more encounters, including ill visits, which tend not to be with your regular primary care doctor, in fact increase the likelihood that you will get anticipatory guidance, which is a good thing, but it means that attribution is related to all the care not just -- I mean the care to one provider.

CO-CHAIR BROOKEY: Okay, David, I think, is next.

MEMBER BOST: I have the actual question in front of us. And the first one is "since your child was born, did your child's doctor or other health providers talk with you

1	about." The second question is also since your
2	child was born. The third one is in the last 12
3	months.
4	CO-CHAIR BROOKEY: So this is not
5	attributable to any individual unless the child
6	only saw one individual provider.
7	MEMBER MORROW-GORTON: Or even a
8	practice. Other healthcare provider could be the
9	WIC clinic.
10	CO-CHAIR BROOKEY: I think we may need
11	to go back and re-vote on evidence. But let's go
12	ahead and go around the room here.
13	David.
14	MEMBER EINZIG: Yeah, so, I mean, I am
15	having a lot of trouble with this, along with a
16	lot of people, I think, but I just can't remember
17	what happened an hour ago.
18	(Laughter.)
19	CO-CHAIR BROOKEY: That is a different
20	survey.
21	MEMBER EINZIG: And so when you get
22	these responses back, so that there is that

piece, and then there is the piece of this takes
20 minutes for a family and this time consuming.
How do you feel when you get a survey in the mail
like that?

And then the issue of, I mean, just taking into consideration there are so many variable, if it's a family with a bunch of kids and they are stressed and they are struggling to pay rent and then there's this. And you're comparing those surveys with the other families who have one kid and have all the time in the world. So there's a lot of variables that don't feel right to me here.

CO-CHAIR BROOKEY: Could I ask that -could I entertain more comments about evidence?
Would that be okay if we went back and talked a
little bit about that, Helen?

DR. BURSTIN: Everybody, I'm Helen
Burstin, Chief Scientific Officer. So apologies
for not being here this morning.

I'm stuck on John's question because
I think he's absolutely right. This is a process

measure. Just because it's a patient report doesn't mean it's an outcome. And in fact I was just pulling up, Lisa and I were just -- and some of you were actually here just for a behavioral health meeting just a couple of days ago -- and we in fact looked at measures from NCQA that were patient self-report of guidance about smoking cessation. You were here as well. That was a process measure. I just pulled it up.

So, to be consistent, unless it's actually an outcome or a patient experience, it would be a process measure.

And then just one other question.

These measures, when they had come in before with the state level of analysis, and I wonder if when they've gone to the lower level of analysis, I'm not sure -- it would be helpful to hear from the developer of what additional work was done to see their applicability at this much lower level of aggregation.

CO-CHAIR BROOKEY: So, for the developer, did you hear the question?

1 DR. SOLLOWAY: Yes, Naraa, would you 2 like to answer that? 3 DR. GOMBOJAV: Okay. So, based on the 4 previous studies we have done, especially for the 5 Kaiser study, we have tested the plan -- I'm sorry -- the provider, they will --6 7 CO-CHAIR BROOKEY: Excuse me. I'm 8 wondering if you could speak up a little bit. We 9 are having a hard time hearing you. 10 DR. GOMBOJAV: I'm sorry. So we have 11 done some low level analysis in the Kaiser study 12 and also the peer review paper about PHDS testing 13 being included. For plan levels, they were 14 compared in different plans, so those --Naraa, your voice is 15 MEMBER KONEK: 16 really muffled. We're having trouble hearing you 17 in the room. DR. GOMBOJAV: 18 I'm sorry. Yes, I'm 19 out of work today and I'm starting to cough. 20 voice is kind of hard. That's why and maybe you 21 are hearing some difficulties. I'm trying to

22

make it better.

So I am just saying we have done some analysis at the plan level, which was partly involved in the Kaiser study, the initial study we were testing the measures of survey measures. So those are in a peer reviewed paper already published.

CO-CHAIR BROOKEY: Okay.

DR. SOLLOWAY: And the other thing I would just like to say is, so, initially, this was designed to actually compare providers within a practice and then the practices within the plan. So initially, it was done, and it was also done at the state level. So we have state, plan, and practice and provider level. And then we kind of changed it to be just provider-specific and not to compare providers against each other.

CO-CHAIR BROOKEY: Okay.

DR. SOLLOWAY: So we did do individual provider levels as well.

CO-CHAIR BROOKEY: But these measures are specifically meant to be at provider level for individual provider feedback and for

individual provider action related to the
feedback. Correct?

DR. SOLLOWAY: Yes, for individual providers. We have the capability on the back end to actually aggregate the providers within a practice because we know what practice they have.

CO-CHAIR BROOKEY: Well if you are in Kaiser Southern California, you can go all over Southern California.

DR. SOLLOWAY: That's exactly true.

CO-CHAIR BROOKEY: So I'm just clarifying the facts. It sounds like we started out by saying this was at an individual provider level, that we had concerns about it being in the sort of domains and not even individual items, but that this would be used for feedback, and, even further, it could even be used for financial incentives or all kinds of things that groups and health plans do with individual provider measures. But then we have discovered that in fact the questions do not necessarily relate to that individual provider.

1	So I just want to clarify that those
2	are the facts.
3	DR. SOLLOWAY: I would say yes, that's
4	true.
5	CO-CHAIR BROOKEY: So I am going to
6	propose to the group that we revisit the evidence
7	question and we'll vote on a revote. And if we
8	vote to revote, we'll revote.
9	So can I open it up for questions or
10	comments about the evidence? Okay, go ahead.
11	MEMBER FATTORI: I don't know if this
12	is an evidence question but are we voting on this
13	as a process measure or an outcome measure?
14	Process?
15	CO-CHAIR SUSMAN: We're going to
16	change it to process.
17	MEMBER FATTORI: Okay.
18	(Simultaneous speaking.)
19	CO-CHAIR BROOKEY: So, let's just sort
20	of talk informally for just a little bit because
21	if they completely rewrote this to make it a
22	process measure, is it they are not going to

1	change the methodology of the measurement. So,
2	is this going to be a measure that is going to do
3	what it purports to do, which is to be an
4	individual report card for an individual
5	provider? Is it ever going to hit that mark, is
6	my question?
7	MEMBER BOST: Well, it depends, also,
8	on the instructions that you're given. Because
9	if it comes up on the website and it says, please
10	comment based on your visit on such and such a
11	date, would you not think that they are talking
12	about that provider?
13	CO-CHAIR BROOKEY: But they'd have to
14	change the tool.
15	MEMBER BOST: I'm just asking.
16	(Simultaneous speaking.)
17	CO-CHAIR BROOKEY: I'm sorry. Jill,
18	would you repeat what you said?
19	MEMBER MORROW-GORTON: So I think you
20	could give those instructions, except the way the
21	question is asked, at least the one that you gave

us was, in the last 12 months, so that blows your

last visit, and your practitioner and all of your 1 2 other healthcare practitioners. You know, people could have a PT that wasn't even related to the 3 4 practice. 5 CO-CHAIR BROOKEY: So what is your conclusion? 6 7 MEMBER MORROW-GORTON: So my 8 conclusion is that we could not use this to give feedback either to an individual clinician or to 9 a physician practice because it's too open to 10 other healthcare practitioner's input. 11 12 CO-CHAIR BROOKEY: Okay. John. 13 MEMBER FINKELSTEIN: So I just want to defend the measure for a minute and then raise a 14 real concern. So I think when we flip to process 15 16 it's a different pathway for evidence and a 17 different level for evidence, so we are going to 18 have to deal with that. 19 CO-CHAIR BROOKEY: Right. 20 MEMBER FINKELSTEIN: I think the most 21 important question to me isn't the one we're

talking about now. I get it, the attribution

isn't perfect. The evidence that this is based on comes from the evidence behind Bright Futures. And you can quibble with that evidence because the evidence for anticipatory guidance and well-child care in total is thin in some ways, but there was as much evidence to develop Bright Futures as those people could generate and we really have to look to that.

So here is the question, for me, for the developers, is I don't hear them talking about this as an accountability measure. I hear them talking about this as feedback to practitioners so that they can individually improve their care based on the last ten patients they saw and get MOC credit because that's a PDSA cycle. But do they ever think that this, at a practice level, that either individual practitioners or one practice to another to another, can be judged by these measures? Ι realize we are getting into validity, but do they even think about it as an accountability measure? CO-CHAIR BROOKEY: I'm just going to

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

take all of your comments first. So go ahead, Carol.

MEMBER STANLEY: Along the lines of evidence, I'm not hearing anything that tells us that the scores wouldn't have improved anyway just at the mere fact, someone said it earlier, I think, that if you see a physician once and then twice and three, chances are you are going to see an increase and improvement in the scores because you are developing better rapport. So how has the developer sort of addressed that issue that is there evidence that using this tool is improving scores over time versus just the fact that the patient is seeing the same physician six times in 15 months?

CO-CHAIR BROOKEY: So I will let the developer answer that question. Basically, do you have data that shows actual improvement in individual provider scores?

DR. SOLLOWAY: Well, I would say yes to your question but no to the woman's question, because we haven't -- we didn't have research to

actually -- we didn't have the opportunity -- well, no, that's not right.

What I'm saying is asking the question, was it because they used the tool or because they developed a better relationship, would be in and of itself a separate research question and a separate research project.

So what we did know from our focus groups with parents is that they really -- they liked being able to report back to the providers. They liked being able to give this feedback to the providers. And they did see improvement, but whether it was because there was a better relationship developed or did the tool help them develop a better relationship, I don't know that we can tease that out from the data that we have.

CO-CHAIR BROOKEY: Okay, thank you.

So, Rajiv, then Jeff, and then Jill.

MEMBER MODAK: Just, again, on the evidence, we voted about the evidence based on the idea that it was a question asked in the last visit, were all of these questions asked in the

last visit. Now we are changing it to were all these questions asked since you were born. Even with or without a relationship, obviously, if you have three visits, you're going to ask more questions, the potential to ask more question than at one visit. So this is completely different than we initially had voted for.

CO-CHAIR BROOKEY: So what are you concluding?

MEMBER MODAK: Well, we need to take a revote. But the question is, I mean, if we are changing it to a process outcome, then -- the question would be -- my question is, if we have them completely rejigger this to be a process, is it going to change that point about it not being an individual visit questionnaire; it's based on the past 12 months, which could be multiple providers.

So I'm just trying to just ask whether this can ever be an accountability measure at the individual provider level, which is a premise behind all of this.

Jeff.

your question, I think it's invalid. I don't think there is any validity. I think we will vote it down on validity if we were ever to vote on it. I think, at a minimum, what we need to do now is ask for the developer to reprocess the application as a process measure, consider it -- pardon me?

DR. BURSTIN: Do a 511 analysis.

CO-CHAIR SUSMAN: Find the level of analysis, send it back to our comment meeting.

I still doubt very much whether it will pass because I think of the validity issue, but we'll see. We will have an opportunity.

CO-CHAIR BROOKEY: They have the other

-- we can provide feedback to the developer, not
only to redo the evidence review but to give them
feedback that we don't think it is going to pass
validity so you may want to think differently
about how you are going to propose this measure.

CO-CHAIR SUSMAN: And moreover, it

applies to, I think, probably all the measures.

If the unit of analysis is under question and we can't really determine that or need clarification, and if the process versus outcome measure issue, we're just going to be churning and not really accomplishing --

CO-CHAIR BROOKEY: It's not a good use of time.

Okay, Jill.

MEMBER MORROW-GORTON: I think the other thing we have to think about is, if this is in fact paralleled Bright Futures, Bright Futures does not say you should do 16 things at a visit. But the assumption in terms of the how do you improve your -- you know, it's an all or nothing; you had to have met the 16 and are we giving the wrong message to physicians -- if in fact we would say that you could measure an individual physician or a practice, are we giving them the wrong message that based on a single visit but using all the time that happened before, we should expect that all of those boxes would be

1	checked.
2	CO-CHAIR BROOKEY: So, we've been
3	given the signal that the court will now recess
4	for five minutes. So you can all stretch while
5	we huddle in the corner. Okay?
6	(Whereupon, the above-entitled matter
7	went off the record at 3:52 p.m. and resumed at
8	4:01 p.m.)
9	CO-CHAIR BROOKEY: Okay, the court is
LO	back in session.
L1	CO-CHAIR SUSMAN: Hear ye, hear ye,
L <b>2</b>	the Honorable John Brookey.
L3	CO-CHAIR BROOKEY: We have a plan.
L <b>4</b>	CO-CHAIR SUSMAN: It may not be a good
L5	plan but there is a plan.
L6	CO-CHAIR BROOKEY: Is everyone pretty
L7	clear on what the issues are? Okay.
L8	So we need to go back and revote
L9	well, let me just ask for a show of hands. How
20	many feel like it is appropriate to revote on
21	evidence? Okay. Does anyone disagree with that?

Okay.

We think, at this point, the way that it has been presented, it's not different than other measures that we've had that moving forward probably should turn into process measures. But in all fairness, they were asked to present it this way. And so we are going to vote on this measure as a self-reported outcome measure, which means that all the conversation we had earlier is still in play but we have new knowledge that this is not actionable at the individual practitioner level if the patient saw multiple providers.

So when we said this had an action as a result of the measure, we were all thinking that it was based on one visit, one provider and now we know that that is not true. So that may, in your mind, change the strength of the evidence for this measure.

Amy.

MEMBER HOUTROW: We are still in the green bar, which is that this measure -- there's a relationship between this measure and one actionable healthcare action: structure, process

intervention, or service, right?

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

CO-CHAIR BROOKEY: That's correct, but just to restate it, we were initially thinking that this would be -- I'm just going to paraphrase it -- this would be -- and I get If you're a practitioner, you get report these. cards. You get satisfaction report cards. are used to this. We get feedback and we assume that feedback is attributable to me. And then we found out that it's not attributable to me, so I may not be able to use this data because I don't know if I'm the one who didn't give them the advice or not. So I think that's why we are revisiting this as an evidence measure.

MEMBER KELLER: I hear that, and I just wanted to make sure that we all understood that there's actually a number of outcome measures that are not rigged to look at the individual visit and look at the care provided by the system, even though they attribute that questionnaire to individual providers.

CO-CHAIR BROOKEY: That's correct and

that was mentioned earlier. It could just be at a state level. Could it be at a plan level?

There's all different kinds of questions.

MEMBER KELLER: No, no, no. These are used at the -- so, within NCQA, one of the criteria for being a patient-centered medical home is that you regularly survey your patients and they give you extra points if you use the CAHPS survey.

The CAHPS PCMH survey, the questions are all about the care you have received in the last year, both the child and the adult, and they say by your regular doctor or another health provider. So the assumption there in that construct is that, as primary care provider who has a patient attributed to them, you are responsible for the totality of the care even if you don't directly deliver that care, and you are supposed to identify gaps that other people may have left out.

And we can think about whether that's right. I mean, that's actually, in that

1	construct of a patient-centered medical home, I
2	don't think that that's wrong. I actually would
3	argue that that's the right way to ask those
4	questions.
5	CO-CHAIR BROOKEY: So I thought CAHPS
6	had a plan level.
7	MEMBER KELLER: There is a CAHPS PCMH
8	survey.
9	CO-CHAIR BROOKEY: Okay, I wasn't
10	aware of that.
11	MEMBER KELLER: There's an individual
12	provider level as well.
13	DR. BURSTIN: But PCMH is not
14	individual clinician. It's to the medical home,
15	which I think would be different.
16	MEMBER KELLER: It's to the medical
17	home but in many constructs that is in
18	Colorado, sometimes that's an individual
19	physician because, you know, we still have solo
20	practitioners.
21	CO-CHAIR BROOKEY: So that's a good
22	distinction.

But the CAHPS survey 1 MEMBER STANLEY: 2 also requires 12 months of continuous enrollment. Correct, yeah, they're 3 MEMBER KELLER: 4 looking at your care over the last 12 months. 5 CO-CHAIR BROOKEY: So this particular 6 measure was presented to us as a measure at the 7 individual provider level and it was presented to 8 us as an outcome measure that would lead to some 9 action, presumably by that individual provider believing this report is a reflection of the way 10 11 they communicated with the parent. 12 So I propose that we revote, based on 13 the new information, that we revote on the 14 evidence as written. Are there any other questions or 15 16 concerns before we revote? On the phone? 17 Okay, we all know what we are voting for, right? Okay, so let's open it up. 18 19 MS. JUNG: Okay, voting for Measure 20 3219 for evidence is now open. Option 1, pass; 21 option 2, not pass. 22 CO-CHAIR BROOKEY: I can see where

1 your thumbs are. 2 MS. JUNG: Okay, voting is closed. we have the results are 36 percent for pass with 3 4 8 votes; 64 percent for not pass with 14 votes. 5 CO-CHAIR BROOKEY: MS. JUNG: And with that, we do not 6 7 pass. 8 CO-CHAIR BROOKEY: So the question is, I believe that all five of these measures have 9 the same situation, is that not true? 10 11 Go ahead. 12 MEMBER FINKELSTEIN: So just a 13 clarifying question, because I was assigned one 14 of the other measures. The next measure is, "were you asked 15 16 if you had any concerns." And that is 17 appropriately for the last visit. It's only 18 about what happened in the last visit. It's a 19 very narrow measure. It's at the last visit were 20 you asked if you had concerns. So, let's just go 21 CO-CHAIR BROOKEY: 22 to the next measure, then, and if there are

differences in that, then we will call them out 1 2 and we can move forward. 3 Okay, so this measure did not pass so 4 we are going now -- to is it 3220? Is that 5 right? You know, I could just 6 DR. SOLLOWAY: 7 say that I'm looking at this survey and asking 8 about parental concerns, family assessment for 9 behavioral health and safety, and family assessment for psychosocial screening, they all 10 11 ask in the last 12 months did your child's 12 doctors or other healthcare providers ask you. So it's the same issue for all of them, except, I 13 14 think, family-centered care. Is that Lauren 15 CO-CHAIR BROOKEY: 16 speaking? Who is that speaking? 17 DR. SOLLOWAY: Oh, I'm sorry. This is 18 Michelle Solloway speaking, the developer. 19 CO-CHAIR BROOKEY: Oh, okay. 20 MEMBER FINKELSTEIN: So I just want to 21 follow the logic here. Ask about parental 22 concerns is something that should happen, I would

	argue, at every well-child visit. This is going
2	out after a well-child visit.
3	So, if I'm sending it out because I
4	did a well-child visit and then it goes to a
5	family, they should be if asked the question
6	"has anyone asked if you had concerns in the last
7	12 months," if I don't get a yes on that
8	question, that's a ding on me because I should be
9	asking it because it should be asked at every
LO	well visit, it's different than "over the
L1	lifetime of your child has anyone asked you about
L <b>2</b>	blah, blah."
L3	CO-CHAIR BROOKEY: But if the answer
L <b>4</b>	is yes, it may not have been about you.
L5	MEMBER FINKELSTEIN: Yes, I guess
L6	that's true.
L7	CO-CHAIR BROOKEY: So is it
L8	actionable? So I don't see this as any
L9	different, personally.
20	So I'll just go around the room. Does
21	anyone see this as different?
22	DR. SOLLOWAY: Can I just ask a

1	question about this? Because I think what the
2	person who was just speaking is really asking
3	that it sort of doesn't matter if it was, you
4	know, someone else or not you; if you weren't
5	asked about it, it is a problem.
6	CO-CHAIR BROOKEY: Correct.
7	DR. SOLLOWAY: And you should have
8	been asking about it as a provider. So it still
9	gives the information that you should have asked.
10	CO-CHAIR BROOKEY: Well, no, because
11	if they answered yes and it wasn't about you,
12	then it has nothing to do with your practice.
13	MEMBER FINKELSTEIN: I have to say,
14	that's going to happen very rarely.
15	CO-CHAIR BROOKEY: Well, I know but
16	MEMBER FINKELSTEIN: So there's some
17	noise in the measure.
18	CO-CHAIR BROOKEY: You understand the
19	logic.
20	MEMBER FINKELSTEIN: I understand the
21	logic, but that's a rare event. So we're
22	focusing on a problem now that that's only a

problem if the child was seeing someone else and recently came to my practice. And I agree, that's a problem, a serious problem. But it's a minority. If I did this on 30 kids, that would be a small minority of the kids.

CO-CHAIR BROOKEY: Okay, Ricardo.

MEMBER QUINONEZ: Yeah, I agree with you that the attribution problem is going to be the same for all. But isn't whether this is an outcome or a process measure going to be a problem for all, as well?

CO-CHAIR BROOKEY: Well, I think the question is -- so if we have them go back and rewrite this whole thing as a process measure, if the questions are the same, are we going to have questions with validity?

So I mean how far are we going to go down the road? We need to follow the process.

So the process is we have to vote on evidence first. But as presented, and not just this measure, but other measures --

MEMBER QUINONEZ: But the evidence

level that we vote on is very different if it is 1 2 an outcome or a process measure. CO-CHAIR BROOKEY: That's correct. 3 MEMBER QUINONEZ: And we don't have 4 5 the information. We are not going to --CO-CHAIR BROOKEY: We don't have the 6 information. So we had to make a decision as to 7 8 whether -- because we are singling out this one 9 but there have been others that we have gone 10 ahead and voted on as an outcome measure, right? 11 DR. NISHIMI: Correct. 12 CO-CHAIR BROOKEY: So kind of changing 13 the rules on the fly is probably not the best 14 process for NOF. I think that the staff has gotten feedback and likely, there will be some 15 16 changes. Probably not doing it in the middle of

So the proposal was to go ahead and vote for it as an outcome measure. And I am asking the question now is this problem any different with this particular measure or is it the same?

a meeting -- that is probably not appropriate.

17

18

19

20

21

DR. NISHIMI: Can I have a show of 1 2 hands of anyone who does not think it is the same? 3 4 MEMBER HOUTROW: Thinks it is 5 different. DR. NISHIMI: Thinks it is different. 6 7 Thank you. 8 MEMBER HOUTROW: In the last 12 9 months. CO-CHAIR BROOKEY: David. 10 11 MEMBER KELLER: So again, the issue, 12 if we are going to move this to a process 13 measure, then you are right and anything I am 14 going to say makes no difference. 15 If the issue, though, is whether there 16 is evidence that this measure, as currently 17 constituted, is changeable by an individual 18 provider, I would argue that there is and it was 19 presented to us. It makes -- even if somebody 20 answered this question no: In the last year have 21 any of your providers not attended to your needs? And I take special efforts in my practice to make 22

sure that I ask about the needs at every visit.

Over time, that answer is going to change. We will have changed that outcome, even though I can't change what happened with another provider.

If it is an issue that they are going to see multiple providers within my practice, I can undertake a standardization effort to standardize that question so that it is always asked every time they walk into our office. And that will move that metric. It won't move it to 100 percent but it will move the metric.

So I mean, again, I am sort of with John on this. I think this is different than the questions that are specific to the 15-month-old visit that I am not going to be able change those because by the time they come in for the next one, they are going to be asked a different set of questions. And whether I can change the 15-month one or not is a different.

CO-CHAIR BROOKEY: Rajiv.

MEMBER MODAK: So I just was looking at the questions also. And I want to just point

out that it also says in the last 12 months did your child's doctor, or other health provider, including a nurse, ask if you have any concerns about your child's learning or development. So that is different also. That is no longer provider. You could -- okay.

MEMBER DORSEY: I think they phrase it that way because we fracture the way that we address these issues in clinical practice. Some of us have child life specialists who help the parents fill out development surveys, right? I think that is meant to bow to the structure of the way primary care is delivered differently in different settings. I don't think it is about -- they are not really asking that an emergency doctor to do that.

I think we might feel better about this if we saw some data element validity. That came up in the earlier discussion of the previous measure that if we could see this checked against what actually happened in the practice so that we were confident parents weren't going back to a

visit they had, a WIC visit four months ago and that was what was populating the answer. I think we would feel better about the way it was phrased but I don't think we have all that information from the developer about all the testing that was done during the development of this survey.

So I think some of that is you know just a lack -- we just don't have that in front of us.

CO-CHAIR BROOKEY: Jill.

MEMBER MORROW-GORTON: But I do think that the wording that says or other healthcare providers, such as a nurse, confounds the this may not just be one practice. And it broadens that question to it could be the WIC nurse. It could be the school nurse. It could be -- you know it then takes it out of are we just measuring what is happening within a practice.

DR. NISHIMI: Excuse me. Can I ask what question you are seeing that on the thing about a nurse? Because I don't see it on the version of the survey that I have. So could you

direct me to where you are seeing that, please? 1 2 I see doctors or other healthcare providers but I don't see including a nurse. 3 4 MEMBER MODAK: I'm looking at the NCF 5 Quality Measure ask about and address parental concerns Data Dictionary. 6 7 MEMBER FINKELSTEIN: So the two things are he is looking at the Data Dictionary --8 9 DR. NISHIMI: Oh. 10 MEMBER FINKELSTEIN: And I am looking 11 at the screen shots that are on page 32 of the 12 attachment. 13 DR. NISHIMI: Okay, thank you. Yes, 14 our tool doesn't have nurses in there. 15 CO-CHAIR BROOKEY: Oh, ok. Amy. 16 MEMBER HOUTROW: So I mean I just want 17 to bring us back. This is not being changed to a 18 process measure. It is staying as an outcome 19 measure, for which the criteria to judge evidence 20 is not a lot of criteria. We just have to say 21 yes or no, do we think that an answer to this 22 survey has something that is actionable at any

sort of level in the healthcare system. It doesn't even need to be the personal provider, really and certainly it is.

If no one is doing anticipatory guidance on a kid and they are in your practice, well then start doing some anticipatory guidance.

I mean it is actionable.

And I feel like if we don't change -this is not moving to a process measure. I think
we have to respect the fact that we have to vote
on it as an outcome measure.

CO-CHAIR BROOKEY: So I don't know if there is anything new that can be said about this. I think we all understand exactly what we are talking about but this is an individual provider report card. So I just want to keep on saying that. This is going back as an individual --- they are going to open it up and look at this and think it reflects their care.

So unless there is something new, I would suggest that we vote on evidence, unless anybody disagrees with that.

1	Okay, for number 2 3220.
2	MS. JUNG: This is for Measure 3220,
3	so that would be the second question in the set
4	of five or second measure.
5	Okay, so voting for Measure 3220 for
6	evidence is now open. Option 1, pass; option 2,
7	not pass.
8	Okay, voting is now closed. The
9	results are 45 percent for pass with 10 votes; 55
10	percent not pass with 12 votes. And with that,
11	consensus has not been reached.
12	CO-CHAIR BROOKEY: So we move forward?
13	MS. JUNG: We do.
14	CO-CHAIR BROOKEY: Okay.
15	So now let's talk about gap. And I
16	have lost track of who are the discussants. Is
17	it Lauren or it is Deborah?
18	MEMBER AGORATUS: It's me. It's
19	Lauren.
20	CO-CHAIR BROOKEY: Okay.
21	MEMBER AGORATUS: So under the gap, it
22	is noted that, again the top five providers had

the range of 64.9 to 92.3 percent. Then they looked at the Kaiser study and it said approximately half, 53.3 percent of parents reported that they were asked whether or not there were any concerns. Disparities were race and ethnicity. And the level for risk for at-risk for developmental, behavioral, social delays and another study showed age and birth order as having an effect.

Let me just look here. I thought it was a little vague and I noticed some of the other folks also commented on this that you need to clarify this not just concerns but specific to learning development and behavior and that there also needs to be a response. So I think asking is one thing. What is the response or what resources are the parents being given after they are being asked this.

And that's it. That's all I have.

CO-CHAIR BROOKEY: Debbie.

MEMBER FATTORI: I think my only question goes back to the language issue. So

1	there was a disparity noted between Hispanics but
2	I am curious to know how we can validate that or
3	verify that if the survey isn't going out in
4	Spanish.
5	CO-CHAIR BROOKEY: So is that that
6	is sort of a question mark for a gap.
7	MEMBER FATTORI: Yes.
8	CO-CHAIR BROOKEY: That is also a
9	question mark for validity, right?
10	MEMBER FATTORI: Right.
11	CO-CHAIR BROOKEY: Ok.
12	MEMBER FATTORI: Well, it could be
13	both but for this segment of the conversation,
14	the developer has listed this as a gap. However,
15	I am not quite sure how you can tell.
16	CO-CHAIR BROOKEY: I'm going to go
17	ahead and let the floor make comments and then I
18	will go around.
19	So, John, I think you are next.
20	MEMBER FINKELSTEIN: I don't think I
21	have anything to add. I think they demonstrated
22	some gap.

1	CO-CHAIR BROOKEY: Okay. And then
2	Jeff?
3	CO-CHAIR SUSMAN: Gap.
4	CO-CHAIR BROOKEY: Okay. David?
5	MEMBER KELLER: I was just going to
6	say that it is likely that a large number of
7	Latino or Hispanic folks speak English. So you
8	can, at least in our surveys, we often are able
9	to identify a Hispanic population that is English
10	speaking. I agree that it would be better to
11	have also data on the Spanish-speaking Latino
12	population but it is not essential.
13	MEMBER FATTORI: Agreed. We can't
14	make that determination. That should be the
15	survey they get should be based on their primary
16	language, not necessarily race.
17	CO-CHAIR BROOKEY: Their preferred
18	language, yes.
19	Any other questions about gap or
20	should we vote on gap? Jill, I'm sorry.
21	MEMBER MORROW-GORTON: I just wanted
22	to clarify that I read this right that this was

1	done, the gap was done only on five providers.
2	Just the top five. Is that correct?
3	MEMBER FATTORI: It was the Kaiser
4	Permanente Northwest study as well.
5	MEMBER MORROW-GORTON: Yes, well the
6	Kaiser Permanente study just has one number.
7	MEMBER FATTORI: Right in that study
8	about half didn't get it.
9	MEMBER MORROW-GORTON: Right.
10	CO-CHAIR BROOKEY: Okay, vote on gap.
11	MS. JUNG: Okay, the voting for
12	Measure 3220 for performance gap is now open.
13	Option 1, high; option 2, moderate; option 3,
14	low; and option 4, insufficient.
15	Okay, voting is now closed. The
16	results are 5 percent for high with one vote; 82
17	percent for moderate with 18 votes; 14 percent
18	for low with 3 votes; and zero percent for
19	insufficient with zero votes.
20	And with that 82 percent for moderate,
21	the performance gap passes.
22	CO-CHAIR BROOKEY: Okay, so let's go

to reliability. Is that Lauren or Debbie? 1 2 MEMBER AGORATUS: Yes, it's Lauren and I have under the specifications just a little 3 4 reminder that the developer stated the missing 5 data about the asked parental concerns questions were excluded from analysis but that NQF did not 6 7 consider this as an exclusion. 8 Also under the reliability testing, 9 the developer mentioned there were three 10 different patient-centered strategies used. 11 did not report on the data element, the item level reliability. They did assess the 12 13 difference between measured objects and 14 inter-unit reliability. The ICC was 0.78, where 15 0.74 is considered excellent. 16 And I think -- well, am I supposed to 17 stop there or are we supposed to do all of 18 validity? I'm sorry, I'm losing track of where 19 we are. 20 CO-CHAIR BROOKEY: Reliability. 21 MEMBER AGORATUS: I'm sorry. Done. 22 Okay.

1 CO-CHAIR BROOKEY: Okay, Debbie. 2 MEMBER FATTORI: No, my comments were 3 the same as Lauren's. 4 CO-CHAIR BROOKEY: Okay. I had nothing new to 5 MEMBER FATTORI: add. 6 7 CO-CHAIR BROOKEY: John. 8 MEMBER FINKELSTEIN: Just quickly, I 9 think this goes under reliability. I understand they provided psychometric data but I think test/ 10 11 retest reliability in this case means it gets 12 back to the concern raised earlier about the 13 recall period. So if you send this out two days 14 after the visit, after the index visit, I believe you will get different results than if you send 15 16 it out three months after the visit. And since there is no limit on the time after the visit, 17 18 you can send it out. I think that is a 19 significant problem in reliability. 20 CO-CHAIR BROOKEY: So just to clarify, 21 developer, what time period do we have? unlimited or is there a three month, six month 22

		-	_
747	ı n	do	TAT .
. w.	LIL	uu	w

DR. SOLLOWAY: Well, we don't have control over when the providers send it out. It is sent out at their convenience. They decide when they are going to do that. That said, the studies that we did do were sent closely after the visit. So, it wasn't like -- I don't think it was a three-month time period. It was probably sent within a week or two. I don't know the exact time frame.

Naraa, do you know what the exact time frame might have been on that?

CO-CHAIR BROOKEY: But it sounds like there is no control over it.

DR. SOLLOWAY: Right.

CO-CHAIR BROOKEY: Probably most people will send it out soon.

MEMBER FINKELSTEIN: Right but the point is if this is for accountability and there is no control over when it gets out, I think there is a reliability problem.

CO-CHAIR BROOKEY: Okay, Jeff.

1	CO-CHAIR SUSMAN: Nothing to add.
2	CO-CHAIR BROOKEY: Open it up for
3	committee.
4	So we are voting on reliability.
5	MS. JUNG: The voting for Measure 3220
6	for reliability is now open. Option 1, high;
7	option 2, moderate; option 3, low; and option 4,
8	insufficient.
9	Voting is now closed. The results are
10	zero percent for high with zero votes; 32 percent
11	for moderate with 7 votes; 59 percent for low
12	with 13 votes; and 9 percent for insufficient
13	with 2 votes.
14	And with that, consensus has not been
15	reached for reliability.
16	CO-CHAIR BROOKEY: So we do not move
17	
18	MS. JUNG: Oh, apologies. Yes,
19	correct, it fails.
20	CO-CHAIR BROOKEY: We do not move
21	forward.
22	Okay, 3221, Family Centered Care. And

1	I will just briefly ask the developer to mention
2	if there is, in terms of the instrument as well
3	as the evidence, are there differences with this
4	measure compared to the previous two?
5	DR. SOLLOWAY: No, this asks in the
6	last 12 months did your child's doctors or other
7	healthcare providers and then there are seven
8	items: take time to understand your needs,
9	listen carefully, show respect, et cetera. So it
10	is still asking about you and other providers.
11	CO-CHAIR BROOKEY: Where is Kraig?
12	Oh, Kraig isn't here, is he? Oh, there's Kraig.
13	Kraig, you are the primary discussant, right?
14	PARTICIPANT: No, I think it is Carol.
15	Carol Stanley.
16	CO-CHAIR BROOKEY: I'm sorry. I'm
17	looking on the wrong page.
18	MEMBER STANLEY: Yes, it's me.
19	CO-CHAIR BROOKEY: Carol, it is you.
20	MEMBER STANLEY: Yes, it's me.
21	CO-CHAIR BROOKEY: I believe that I am
22	looking at the wrong, literally looking at the

1 wrong page. Okay, Carol. 2 MEMBER STANLEY: Yes, the comments that came up were identical to the issues we have 3 4 raised regarding attribution to a single 5 provider. And you know the same limitations are there. 6 CO-CHAIR BROOKEY: Okay, there was 7 8 some distinction between the first measure and 9 the second measure, some minor distinction. 10 MEMBER STANLEY: Right. 11 CO-CHAIR BROOKEY: What is your 12 assessment of this third measure? MEMBER STANLEY: 13 I mean it has a 14 12-month look back period when it goes to the parent and it seems very similar to the first 15 16 question that we addressed. This talks about whether the 17 18 healthcare provider understands specific needs of 19 the child and concerns of the parent, if the 20 provider has helped build confidence in the 21 parent, things are explained in a way that the

parent can understand and if the provider shows

respect for a family's values, customs, and how 1 2 they prefer to raise their child. CO-CHAIR BROOKEY: Okay. All right, 3 4 I'm sorry, is it Tarra or Tara? 5 MEMBER BRISTOL-ROUSE: It's Tara. 6 CO-CHAIR BROOKEY: Tara, okay. MEMBER BRISTOL-ROUSE: But I will 7 8 answer to either, especially at this point in the 9 day. You know I echo what Carol said. I 10 think an additional concern for me is calling 11 12 this kind of family centered care because family 13 centered care is an approach to care. So, it 14 includes a lot more than is even represented in 15 these five or seven items. 16 And additionally, I think this maybe 17 even more so than the other ones that we had 18 issues with getting this and not knowing if it 19 was specific to you as a provider will be very 20 difficult to address for improvement. 21 CO-CHAIR BROOKEY: Okay, good 22 comments.

1 Let's see, we also had Jill on the 2 I'm sorry. group. MEMBER STANLEY: And this is another, 3 4 you have to answer at least four of the questions 5 out of the seven, the seven areas it addresses. MEMBER MORROW-GORTON: 6 Yes, and I was 7 going to say that having seven areas and having 8 them sort of they are not -- I mean they are sort 9 of all in the same ballpark. I think it would be -- it might be difficult for people to answer 10 11 them and there is seven. And then what do you do 12 with -- you know do you get them as each 13 individual one? Is that helpful? And how do you 14 actually use that information. CO-CHAIR BROOKEY: Right but you may 15 16 not get the item level result. 17 MEMBER STANLEY: And the developer 18 specifically says in here that there was no 19 improvement among providers who participated in 20 the study with these questions over time. 21 CO-CHAIR BROOKEY: I don't have any additional comments. Amy, are you in this group, 22

too?

MEMBER HOUTROW: No, I was just going to make the point that in fact the family center care measures are conceptually very similar to the ask about parental concerns, which is a part of family centered care. So it is the same discussion that we would have for this set would be appropriate for the discussion that we just had on the previous one.

CO-CHAIR BROOKEY: Any other comments?

MEMBER AGORATUS: This is Lauren. I

just have one clarifying question. On all of

these, and I know we didn't get this far, but on

all of these they discussed there was no

automated reporting system and there was supposed

to be a website launch in February 2017. Do we

know if that happened?

DR. SOLLOWAY: It did not. We got a little bit delayed but it will happen this month.

MEMBER AGORATUS: Okay.

CO-CHAIR BROOKEY: All right.

DR. SOLLOWAY: The way -- okay.

Any other questions 1 CO-CHAIR BROOKEY: 2 or comments from the group? Okay, so we will vote on the evidence 3 4 as an outcome measure for 3221. 5 Okay, voting for Measure MS. JUNG: 3221 for evidence is now open. Option 1, pass; 6 7 option 2, not pass. 8 We're looking for one more vote. Did 9 anyone step out? Oh, there we go. Voting is closed. We have the results 10 11 are 27 percent for pass with 6 votes and 73 12 percent for not pass with 16 votes. And with 13 that, the measure does not pass for evidence. 14 CO-CHAIR BROOKEY: So, I am going to preface this by saying that I don't want to rush 15 16 through this. If we can't finish on time, we 17 will finish on the phone call because I want to 18 be sure that we get everyone's input and not just 19 kind of try to get this done by 5:00. And if 20 people need to leave and we don't have quorum, we 21 will conclude early. So having said that, this is a similar 22

measure. And Kraig, I think you are primary discussant on this one.

MEMBER KNUDSEN: All right. So this is Measure 3222: Assessment of Family Alcohol Use, Substance Abuse, and Safety.

In terms of evidence, again, this is the same issues that we have experienced with the other ones. This measure will evaluate the proportion of kids whose parents report being assessed for three items, alcohol use, substance abuse, and fire arms in the home. It can be used by providers to determine the level at which they discuss these issues with the parents.

The developer provided a logic model with all of the measures, the same thing, which connects the outcomes to provider behavior in terms of quality improvement.

In terms of this one, the developer indicated that the American Academy of Pediatrics and Child Health Bureau Bright Futures Guidelines include assessment of alcohol and drug use, the presence of guns, family violence, and other

1	safety issues in the family.
2	So, that's what they said.
3	CO-CHAIR BROOKEY: And your
4	assessment, based on previous conversations, does
5	this relate to this measure as well?
6	MEMBER KNUDSEN: Yes, it does.
7	CO-CHAIR BROOKEY: Okay.
8	MEMBER KNUDSEN: I believe it does.
9	CO-CHAIR BROOKEY: Okay. Let's see,
10	Karen, I think you are the
11	MEMBER DORSEY: I agree, it is the
12	same.
13	CO-CHAIR BROOKEY: Okay, very good.
14	And I agree. No more comments from me.
15	Any other comments from the group or
15	
15 16	Any other comments from the group or
15 16 17	Any other comments from the group or on the phone? David.
	Any other comments from the group or on the phone? David.  MEMBER KELLER: One question for the
15 16 17 18	Any other comments from the group or on the phone? David.  MEMBER KELLER: One question for the provider or for the developers. I was wondering
15 16 17 18	Any other comments from the group or on the phone? David.  MEMBER KELLER: One question for the provider or for the developers. I was wondering why you split this from the next measure that we

1	a screener that we have but we have it all lumped
2	together as a single thing because we are asking
3	about home safety and basically how the parents
4	are doing.
5	CO-CHAIR BROOKEY: Yes, developer, any
6	rationale why these were split, 3222 and 3223?
7	DR. SOLLOWAY: I don't know what that
8	is. I know there was one but I don't know what
9	that is. I can't really speak to it.
10	Naraa, do you know if there is any
11	rationale?
12	DR. GOMBOJAV: No.
13	DR. SOLLOWAY: It may have just been
14	specific content. You know one is really about
15	psychosocial screening and emotional well-being
16	versus something outside of that.
17	CO-CHAIR BROOKEY: Okay, that's fair
18	enough.
19	Okay, any other comments about the
20	evidence on this particular measure? Any
21	objection to moving to vote?
22	Okay.

1	MS. JUNG: Voting for Measure 3222 is
2	now open for evidence. Option 1, pass; option 2,
3	not pass.
4	Again, looking for one more vote. Do
5	we have everyone in the room? There we go.
6	Voting is now closed. The results are
7	32 percent for pass with 7 votes; 68 percent for
8	not pass with 15 votes. And for that, it does
9	not pass on evidence.
10	CO-CHAIR BROOKEY: Okay, thank you.
11	Why don't we go ahead and start 3223?
12	If we can't finish, we will do it on the phone
13	call but I suggest we go ahead.
14	I believe, David, you are are you
15	able to stay for a few minutes?
16	MEMBER KELLER: Yes, no, I'm here.
17	I'm tracking. I have got Google Maps set and I'm
18	tracking how long it will take me to get to
19	Dulles for my 7:00 plane and I can still make it.
20	CO-CHAIR BROOKEY: I should have put
21	you out of order but go ahead.
22	MEMBER KELLER: I enjoy living close

to the edge. What can I say? To my wife's eternal regret, but still.

And actually this, given the last vote, I think this will take very little time because really this is the same. It is, as I said in my question, it is a parsing of similar questions that were aimed at family -- at parental well-being. We think they are important questions for assessing the environment in which a child is being raised. And they are part of Bright Futures. They are endorsed by the Academy of Pediatrics, as well as HERSA in its Bright Futures Manual.

And basically, but in the same way they ask over the last 12 months has your doctor or any other provider addressed these issues.

And so the evidence presented is really from the same surveys that we have already talked about in detail, I think. And I don't think I have anything else to add -- this really falls into that same bucket of similar surveys, the last four that we voted on.

1	CO-CHAIR BROOKEY: Maureen, do you
2	have comments?
3	MEMBER EDIGER: In the interest of
4	time, no. I will keep them to myself.
5	MEMBER KELLER: Well, we talked about
6	this at the break a little bit, too.
7	MEMBER EDIGER: Yes.
8	MEMBER KELLER: Because we are just
9	starting actually some you all know Maureen
10	she is at our hospital. And we are starting now,
11	in one of the clinics she goes to, to ask these
12	questions routinely of every family that comes
13	in.
14	She hasn't come in since we started
15	doing that.
16	MEMBER EDIGER: But boy, will I!
17	MEMBER KELLER: I suspect she will
18	have some feedback for us when she does.
19	MEMBER EDIGER: Yes, I think this is
20	just I will do a plug for parents being
21	involved in the process because I think the more
22	that families are involved in the process,

families are going to raise their hand and go if 1 2 you are doing something like this, what is in it for me as far as why would I spend 20 minutes on 3 4 this if you are giving me a tool that is going to 5 possibly bring up a lot of emotions. Just having a child with a mental 6 7 health diagnosis, if I sit down and I have to 8 start kind of like regurgitating and telling 9 somebody about how hard things are at home sometimes and then I hit send, I am going to be 10 11 sitting there pretty emotionally raw. And it is 12 like and then what. 13 So, that's all. 14 MEMBER KELLER: For the record, we did have parents involved. We just didn't have you 15 16 involved. 17 MEMBER EDIGER: Right. 18 CO-CHAIR BROOKEY: Thanks, Maureen. 19 Other David. 20 MEMBER EINZIG: I don't have anything. 21 CO-CHAIR BROOKEY: You have nothing to 22 add? Okay, Karen.

1	MEMBER DORSEY: I have nothing to say.
2	CO-CHAIR BROOKEY: Okay. Any other comments from
3	the group? You all look a little worn down.
4	PARTICIPANT: Bring us home, John.
5	CO-CHAIR BROOKEY: Yes, I feel kind of
6	depressed after this whole string of measures we
7	are not endorsing. But I hope that we field the
8	process before we vote on the last measure. I
9	guess after we vote on the last measure we can
10	take one minute to get feedback about process.
11	So, I think we are ready for a vote,
12	unless I am hearing any objections.
13	So this is the final measure, 3223.
14	MS. JUNG: Yes, the voting for Measure
15	3223 for evidence is now open. Option 1, pass;
16	option 2, not pass.
17	CO-CHAIR BROOKEY: Do we have member
18	comment at the end?
19	DR. NISHIMI: Yes.
20	CO-CHAIR BROOKEY: Okay.
21	MS. JUNG: Voting is now closed. The
22	results are 36 percent for pass with 8 votes; 64

percent not pass with 14 votes. And with that, 1 2 it does not pass on evidence. CO-CHAIR BROOKEY: Okay, if you need 3 4 to go to the airport, we are, at this point, 5 going to open it up for member comment and then I would like it if people could stick around for a 6 7 couple minutes just to talk about feedback. 8 So, you are excused. 9 MEMBER KELLER: Well may I make one 10 comment --11 CO-CHAIR BROOKEY: Absolutely. 12 MEMBER KELLER: -- as I pack up to head off to Dulles. 13 14 Just I wanted to express my 15 appreciation for the thoughtfulness of this 16 committee and I wanted to thank CMMI for 17 reconvening us and I hope that we continue these 18 discussions because we really do need measures of 19 these things and we need to be able to force them 20 going forward. 21 So, thanks to everybody for today. 22 appreciate your work.

1	PARTICIPANT: Sing it, sister!
2	CO-CHAIR BROOKEY: Thank you, David.
3	MEMBER FINKELSTEIN: John, do you want
4	to excuse the developer?
5	CO-CHAIR BROOKEY: I'm sorry.
6	MEMBER FINKELSTEIN: Is the developer
7	still on the line?
8	CO-CHAIR BROOKEY: I'm sorry, the
9	developer, we are concluding these measurement
10	discussions. So you can sign off, if you haven't
11	already.
12	DR. SOLLOWAY: Okay, thank you so
12 13	DR. SOLLOWAY: Okay, thank you so much. I appreciate your feedback and we will
13	much. I appreciate your feedback and we will
13 14	much. I appreciate your feedback and we will definitely take it and see what we can do. Thank
13 14 15	much. I appreciate your feedback and we will definitely take it and see what we can do. Thank you.
13 14 15 16	much. I appreciate your feedback and we will definitely take it and see what we can do. Thank you.  CO-CHAIR BROOKEY: Thank you.
13 14 15 16 17	much. I appreciate your feedback and we will definitely take it and see what we can do. Thank you.  CO-CHAIR BROOKEY: Thank you.  Do we have member comments?
13 14 15 16 17	much. I appreciate your feedback and we will definitely take it and see what we can do. Thank you.  CO-CHAIR BROOKEY: Thank you.  Do we have member comments?  PARTICIPANT: Public also.
13 14 15 16 17 18	much. I appreciate your feedback and we will  definitely take it and see what we can do. Thank  you.  CO-CHAIR BROOKEY: Thank you.  Do we have member comments?  PARTICIPANT: Public also.  CO-CHAIR BROOKEY: Public comments?

And there are no public comments. 1 2 CO-CHAIR BROOKEY: There are no 3 comments? Okay. I don't know if it was because I got 4 5 up at 3:00 California time or it is just this meeting but I am kind of spent. 6 7 So I would like to first just ask for 8 any feedback about the fairness of the process 9 today, if there is any concerns about anything. These meetings are always very interesting. 10 just appreciate the group process because if we 11 didn't have individuals on this group, we 12 wouldn't have known as much as we know about 13 14 these measures now. I don't think individually any of us are able to figure this all out. 15 16 took the group for us to figure this out. 17 I appreciate everyone's contribution. 18 But let me just throw it back at you. 19 Thoughts, comments, just for a couple of minutes, if we could. 20 21 Oh, John has his --22 MEMBER FINKELSTEIN: So I would just

echo that I thought it was really a great day and 1 2 people being thoughtful all around the table. For this last set of measures, which 3 4 was kind of an unusual circumstance, I think it 5 is only fair to feedback to the developers that if they want to come back as a process measure 6 7 with the caveats that -- bottom line is I think 8 they might get through on evidence as a process 9 measure but they have real validity problems as 10 an accountability measure. So I just think there 11 should be a discussion and counseling with them 12 and they should be able to come back. 13 CO-CHAIR BROOKEY: So do you think 14 that if they changed it, perhaps to a process and maybe changed the level of reporting maybe it 15 16 might fly? 17 MEMBER FINKELSTEIN: Right and they 18 would have to provide all the evidence that is 19 behind the Bright Futures ---20 CO-CHAIR BROOKEY: Right. 21 MEMBER FINKELSTEIN: --- elements in

order for us to look at them. Anyway, I just

think we should give them a chance.

CO-CHAIR BROOKEY: I think they deserve our feedback and I agree with you. And I hope that we captured that.

Okay. So, Rajiv.

MEMBER MODAK: So I just wanted to say this is my first meeting and I really found it interesting and valuable and the discussions were right on.

And what I just want to express is that just even the discussions just gave me a lot of ideas to take back to my practice and to implement in my practice. So, I just want to give you that feedback that you will help my quality improvement.

CO-CHAIR BROOKEY: Alright, Jim.

MEMBER BOST: Yes, I think that for
the last set of measures that if a rate is low,
there is something you could do to improve. But
I don't think these rates, with the questions the
way they are written could ever be used for
something like Pay-for-Performance or

accountability.

CO-CHAIR BROOKEY: Yes. Amy.

MEMBER HOUTROW: My comment is just in general about this issue about the level of evidence that you need for an outcome measure versus a process measure, which is an NQF issue.

But choosing a patient-reported outcome as a measure of a process of care is kind of a backdoor way to not to provide the rigorous amount of evidence that is required for a process measure and it makes me just a little bit uncomfortable.

And then it also makes these discussions in the room really challenging because we are cognitively thinking about it in a way that is different than they are potentially presented to us.

CO-CHAIR BROOKEY: Yes, thank you.

Let's go this way. Debbie.

MEMBER FATTORI: So I am often accused of falling on the sword and I am going to do it now too, again, because I feel like I have some

personal accountability in this. Because I think that these were some of the questions in my head as I was reviewing this and I am just wondering if there is something that we can do as individuals or a team that we are kind of stopping the line, if you will, before we end up at this point in time.

I don't know if that makes any sense but I went through the process and some of those questions are nagging. Maybe I am not experienced enough in this work but I am just wondering if there is something that we can do before it gets to this point because we had this issue I think with a measure or two last time around.

CO-CHAIR BROOKEY: Yes.

MEMBER FATTORI: So, that is my only comment.

CO-CHAIR BROOKEY: I think all of us had the same thought, what could we have done to have prevented this. And again, I think that this was a situation that none of us really saw the huge big picture of what was going on here.

But I think it took the group process to figure that out. Unfortunately it was for five measures. So that is the unfortunate part.

Kerri.

MEMBER FEI: Yes, so back to those five measures, when it comes to putting on my health plan hat, I suppose, and if you are talking about use and accountability, what we also need to see is that I can know for a fact that an individual provider or a group is statistically worse, better, or the same as some type of benchmark. Right?

When we use them at the Association, that is how we look at accountability. The way it is now, we couldn't -- we would not be able to do that.

So, with always having this need of the NQF measures should have --- be appropriate for accountability, the way it is now, they will need to address that if they want them used for accountability as well.

So you will need to be able to see

1 that statistical significance that you can 2 discern that, I think, between whether it is provider or group, or however they decide to do 3 it, you need to see that back to the insured 4 5 coverage measure as well. I feel bad I think he was a little bit 6 7 upset with me. 8 I think he was upset PARTICIPANT: 9 with everybody. MEMBER FEI: And I feel terrible 10 11 because that was not my intent. But from our 12 perspective, I don't know with that chunk that 13 this state is better --- statistically worse, no 14 different, or better than the ones next to it. 15 And that is what I was trying to get at. 16 CO-CHAIR BROOKEY: From my seat --MEMBER FEI: I feel bad that he was 17 18 mad. That was not my intent. 19 CO-CHAIR BROOKEY: From my seat, that was a very unexpected but rich discussion and I 20 think that he listened to the feedback. 21 think --22

MEMBER FEI: Well and again, I think 1 2 it is one of those where maybe that measure isn't right for that type of accountability but it 3 could be so fruitful and useful from other 4 5 perspectives. CO-CHAIR BROOKEY: 6 Thank you. Jill. 7 8 MEMBER MORROW-GORTON: And I actually 9 wanted us to think about accountability from a 10 broader perspective. Because I think we had a number, it wasn't just kind of the last set or 11 12 the last set plus the state measure but we had this conversation even this morning in some of 13 14 the measures that were a little more 15 straightforward. 16 Should we be adding accountability, or 17 a question about accountability, or does this 18 need an accountability criteria or something like 19 that as we are thinking about these? They are 20 likely to be used for accountability. 21 CO-CHAIR BROOKEY: Yes. And if they are 22 MEMBER MORROW-GORTON:

1	not designed for accountability and they can't
2	distinguish, the people that are sometimes
3	choosing them don't know that and don't
4	understand that. And that is a piece of
5	information that I think would be really helpful.
6	CO-CHAIR BROOKEY: Yes.
7	MEMBER FEI: That's absolutely true
8	because I am the one that gets tagged with that.
9	I have folks say to me I want to use this
10	measure. No, you can't, it is not right for
11	that. But I want to. But no, you can't. It's
12	not right. It's not fair. So, not that
13	everything is fair but they have meaning.
14	MEMBER MORROW-GORTON: Well at least
15	try to be fair.
16	MEMBER FEI: Well absolutely,
17	especially if someone is going to tie your money
18	to it.
19	CO-CHAIR BROOKEY: Karen.
20	MEMBER MORROW-GORTON: Right and that
21	is the biggest piece of it is tying money to it.
22	CO-CHAIR BROOKEY: Believe me, I would

have 9,000 doctors chasing after me if some of these got out of Kaiser. So, yes.

Karen.

MEMBER DORSEY: So just I want to thank you both for your leadership. I thought this was really as smooth as it could have been today, given what has already been said about some of these issues just coming out when we start to talk in groups. I appreciate that. And as usual, it was a wonderful experience to convene with this committee.

I think two things jumped out at me today. One is that I was a little hazy on the guidance around the reliability -- the statistical approach to assessing measure reliability for a couple of these measures. It came up with more than one of the measures. And you know I think we have had this experience this time and the last time where we have a lot of folks who are coming new to the NQF process, to the measure endorsement process, they are newly into measure development. That is just where we

are in pediatric measures right now. And I think the extent that we and NQF staff can really give people guidance about what we mean by a precision assessment and how they should approach it, I think that will be a good service to people.

Because I think there were some good measures that came forward but there were some questions about the specifics of the testing. So I think that is one thing that stood out to me.

And the other is that there is still a lot of haze. And I think this speaks to the last two comments about use and usability issues around these pediatric measures. They are attributed at all different levels. We think about their use in different contexts. We think about maybe assessment of managed care organizations, for the enrollment, and we are thinking about providers for some of these last measures we discussed. And I think that that creates a lot of sometimes confusion and issues for us to work out when we are talking about the measures around whether we think they are

valuable and if they can be used in ways that are going to be productive.

And because it is so complex, I just sort of long for us to have some structure, some conceptual structure around it. And I think I am hearing that from you all, too, around issues of accountability but it is a very different thing to think about parent reported survey information at the provider level and a plan that is going to be held accountable for how well it keeps continuity and enrollment. You know they are just totally different universes. Right? And I think, hopefully, as a standing committee, we will start to develop some guidelines around how we think about it.

CO-CHAIR BROOKEY: So, Karen, to your first point, and I am just going to get shot by the NQF staff here, but if there was an opportunity for those who were interested to have a little tutorial like an hour or two WebEx on how to interpret some of this stuff, do you think some folks would be interested in that? I mean

just some feedback to the staff.

I think your point is really well -I think the orientation was good but it probably
is not deep enough for some of us. And so I
think that might be helpful.

All right, did everyone have a chance?

Jeff, go ahead.

CO-CHAIR SUSMAN: Well first of all, let me thank all of you. You have just been splendid. As usual, I have learned a lot more from being here. I also want to thank the NQF staff who worked just incredibly to try to put these materials together.

In response to what I heard around the table, I do think that the NQF, as an organization, has to look at this issue of outcome versus process measures and really get it down better than we have now. It is difficult but we shouldn't be resolving these issues at the time of our meetings. It is not fair to the people who put a lot of energy and time into the development.

Secondly, I think it really would be very helpful to have some materials that really define, as you have suggested, Karen, like precision. Here are the three ways that we look at this issue. This is what it means and this is what we find acceptable. Or at least some guidance, recognizing that each panel might have certain nuances that need to be brought to bear.

And then finally, the issue which I talked to Shantanu is about the idea of accountability and having wonderful measures, which we all think would help improve health within our systems, or within our states, but are concerned about accountability. And having a more nuanced approach to that issue, so that as we vote, as we are trying to make some difficult decisions, it is not a black and white situation where we are either discarding measures which could really help improve individual performance or plan performance, what have you, or perhaps really should be leading the way and pushing people toward greater accountability.

Again, overall, thank you so much. It is really a pleasure to work with such smart and dedicated people.

CO-CHAIR BROOKEY: Robyn.

DR. NISHIMI: The last word? On behalf of NQF, I really want to thank you. Your discussions today were spot on. You struggled with the issues that I will tell you, having been the founding chief operating officer, every single committee struggles with these things because there are no bright lines or firm guidance.

The first project we ever did at NQF was the so-called Never Events List. Adverse events that should be publicly reported. We weren't even talking about payment then.

So, it is the same conversations and you shouldn't feel good or bad that you had to have them. It is just the way the field is and is evolving. So, I did want to mention that.

The same thing with the PRO versus PROP, patient reported outcome on a process. We

did recognize that this was the committee that raised this as an issue last year that there is something about the level of evidence that should be required for these that is different than a yes/no.

And so some internal processes have begun to discuss those. They just haven't been completed. We haven't landed on one place. And so to be consistent across projects, frankly, that is why you saw what you saw.

But I think we heard it again very loud and clear it is a struggle and the groups that are responsible internally for looking at our algorithm and our criteria and what we require, we are going to take it back and say it happened again and I had to sit there and listen to it again. So let's -- which is not to say that we shouldn't have or couldn't have moved faster but, again, it is the whole milieu we have felt the consistency. And so I did want to let you know that we had heard you the first time and there are people absolutely thinking about how

best to approach this.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

And then the last thing I wanted to just stress because it peeked my interest was the use and usability. I congratulate you on the robustness of the discussions that you had because that is an often sort of set aside, kind of blow through the criterion discussion but you were very thoughtful there. And it is a struggle. And it is especially a struggle because all these measures, with the exception of the CAHMI and for them not for purposes of accountability, and at that level of analysis, but they haven't been in use. But you raised really good, thoughtful questions. I think they were good for the developer to hear and they were certainly good from the NQF staff point of view as we think about that whole criterion. So, that I was especially appreciative of and thank you for that.

That's it from me.

CO-CHAIR BROOKEY: So, I will just echo everything that Jeff said. You know this is

the second time that he and I have shared this meeting together and it is really a privilege to be able to do this and to interact with all of you. It is amazing to watch how things sort of go this way and that way and then back to some area that you didn't think it was going to go into. But at the end of the day, I think it is a good process and it has to be all of you together, including our parents in the back. They are sitting way in the back but next year you can be up here, okay? It is important to have you in the room and I appreciate that.

So, again, thanks, everyone and we are just going to go through a few points for coming up agenda items, our time line and then we will be dismissed.

So, go ahead.

MS. JUNG: I promise I will be brief.

Okay, so upcoming for the time line for our measures, we just have the comment period after this, which we will open to the public and to NQF members. Then we will have the NQF member

1	vote. And then after that, we will have the
2	Consensus Standards Approval Committee or CSAC
3	Committee vote for endorsement and that will be
4	on June 27th. And after that, there will be a
5	30-day appeals process.
6	Special dates for you to note is there
7	will be a post-meeting call Friday, March 10th
8	and that will be from noon to 2:00 p.m. That
9	should be on your calendars. If any of these
10	events aren't on those calendars
11	DR. NISHIMI: Madison, we don't need
12	to have that one.
13	MS. JUNG: Oh?
14	DR. NISHIMI: We went through all the
15	measures today.
16	(Off-microphone comment)
17	DR. NISHIMI: Right but you need to get
18	your comments back in and then you will yes.
19	So we don't expect them to bring it back in the
20	next week.
21	(Off-microphone comment)
22	DR. NISHIMI: That is correct, Gary,

1	we were much harder on you.				
2	CO-CHAIR BROOKEY: So, cancel next				
3	week's meeting.				
4	MS. JUNG: Yes, okay. You will also				
5	get a calendar invitation for that. So, congrats.				
6	After the comment period, we will have				
7	a post-comment call and that will be Wednesday,				
8	May 31st and that will be from 2:00 to 4:00 p.m.				
9	And with that, I just want to say				
10	there is our contact information and the				
11	SharePoint link and the meeting materials will be				
12	posted on the SharePoint for you all to find.				
13	And with that, I would just like to				
14	say a huge thank you from the NQF team for your				
15	high level of engagement today. I know it was a				
16	very long day and a bit tedious but we thank you				
17	very much for all your hard work.				
18	Thank you.				
19	CO-CHAIR BROOKEY: All right, safe				
20	travels.				
21	(Whereupon, the above-entitled matter				
22	went off the record at 5:01 p.m.)				

11			
A	307:17	292:8 312:4 371:17	adjustments 329:17,21
	accessibility 212:10	394:1 412:19 423:18	administered 60:18
<b>a.m</b> 1:9 6:2 162:6,7	accessible 296:4	acuity 106:8	administration 91:1
229:8	accessing 221:13	acute 14:10 22:9 33:4	administrative 49:21
<b>AAP</b> 186:2 370:15			
<b>ABG</b> 144:11 290:21,22	accomplishing 207:11	126:7,13	50:22 80:10 91:15
<b>ABGs</b> 144:8 299:22	427:6	acute-care 126:17	145:15 164:18 232:14
ability 85:10 225:22	accord 150:3	add 7:16 62:14 74:1,8	324:3
236:21 269:14 273:14	account 243:4 273:14	100:13,16 102:5	administratively 52:18
288:1 318:15 326:4	313:10	105:8 118:2,5 124:18	admission 106:5
337:19	accountability 32:18	140:3 174:6 186:19	209:12
able 11:7 44:22 48:2	34:2 154:9,16 155:9	189:7 203:17 206:4	admissions 93:2 126:4
52:7 66:15 67:4,12	155:16 156:11 157:19	217:2 232:21 253:15	126:17 279:13
97:21 99:7 100:4	160:6,17 272:5 326:3	253:17,20 296:3	admit 22:10 129:15
105:16 134:4 138:8	337:22 348:13,20	322:7 330:2 345:12	admits 152:19
138:21 140:6 144:16	349:7,15,20 358:8	374:1 448:21 452:6	admitted 125:9,11
146:17 153:21 156:10	361:6 390:13 422:11	454:1 465:20 467:22	127:1 159:11 209:5
175:19 209:20 213:2	422:21 425:20 453:19	added 264:2 276:11	209:11 279:16
213:21 218:18 226:4	472:10 474:1 475:1	<b>Addiction</b> 2:3 46:18	ado 48:3 236:13
226:17 231:19 232:10	476:8,14,19,21 478:3	adding 177:11 336:22	adolescent 3:4,12 4:18
III	478:9,16,17,18,20	478:16	91:3 186:9,19
243:4 248:10 254:7	479:1 482:7 484:11	addition 51:5 52:7	adolescent- 33:4
257:4,7 262:3 263:11	484:14,22 487:12	79:21 91:22 100:5	adolescent-focused
263:18,21 280:19	accountable 224:14	143:13 167:18 224:2	33:1,3
283:9 341:7 344:4	246:11 351:19 482:10	307:19 325:1	adolescents 4:15
358:10 363:17 366:4	accounted 169:19	additional 5:19 60:16	185:22 186:2 187:5
371:7 424:10,11	accounting 273:22	83:21 85:15,18	adult 15:17 16:6 91:20
430:11 441:15 449:8	accurate 231:15 405:7	190:21 227:17 255:5	97:15 99:19 103:12
464:15 469:19 471:15	411:19 412:1	264:4 268:17 315:16	103:18 105:9 113:15
472:12 476:15,22	accused 474:20		
488:3		340:20 356:19 415:18	115:13,20 129:8
above-entitled 162:5	achieve 42:20 43:6,17	457:11 458:22	149:8,15,17 431:12
229:7 363:12 428:6	357:2,3,7 371:7	additionally 457:16	adults 104:11
490:21	achieved 312:10	address 43:11 58:13,13	advance 232:10
absence 94:1,3	achieving 45:4	64:16 80:18 141:14	advanced 22:5 153:12
absent 202:11 323:4	acknowledge 225:22	170:9 180:4 185:2	171:7,18 172:15
absolute 332:12	226:6	269:3 272:7 301:9	Advancing 92:11
absolutely 106:21	ACOs 24:5	318:14 389:15 442:9	230:18
169:6 213:8 269:2	acquired 126:1	444:5 457:20 476:20	advantage 100:7
375:14 414:22 469:11	<b>ACS</b> 306:17,19,20,21	addressed 54:4,5,11,22	advantages 164:11
479:7,16 486:22	306:22 318:10 339:10	54:22 55:4,8 348:12	adverse 4:8 88:22
abstain 160:8	339:20	362:14 423:11 456:16	89:16 90:2,6,14,16,18
abstractions 83:1	act 35:6 378:9	465:16	90:20 91:6,10,16 93:5
abstractors 292:14	acted 403:4	addresses 458:5	93:10,18,21 94:1,3,11
<b>abuse</b> 5:12 34:5 461:5	acting 68:21	addressing 32:22 53:2	94:12,21 95:3 100:16
461:11	action 96:14 222:18	58:8 166:14 370:16	102:6,7,9,19 103:13
ACA 333:19 339:22	243:7 307:14 393:18	adds 110:21	104:11 106:17 107:1
academic 26:5 92:10	394:3 398:4 418:1	adequate 146:17 246:3	107:2,10 117:12,22
98:4,19,22 123:19	429:12,22 433:9	295:5 337:16 346:12	120:6 122:5 125:13
135:6,8,20,22 136:3,9	actionable 284:22	407:12	127:17 128:19 133:17
278:11	369:6,6 374:4 429:10	adequately 210:1	135:13 147:12 159:20
<b>Academy</b> 2:4 28:7	429:22 436:18 444:22	ADHD 219:5	485:14
367:7 461:19 465:11	445:7	Adjourn 5:21	adversely 336:10
acceptability 38:13	actions 104:2 249:2	adjunct 263:7	advice 384:22 430:13
acceptable 251:15	active 108:6	adjust 135:15	Advisory 380:20
407:21 484:6	actively 28:15 155:20	adjusted 257:12 330:1	<b>AE</b> 89:22
accepted 8:10 234:14	185:5	adjusting 135:17	Affairs 23:17
access 14:8 222:21	<b>activities</b> 18:7 164:6	329:12,12,13	affect 124:19 268:6,9
277:10 284:21 285:8	activity 383:2	adjustment 233:2 330:2	320:18 385:22 393:9
285:12 287:22 300:4	actual 39:10 237:6	359:6	393:14 397:7 408:14
	l	I	I

	1	1	,
affinity 15:3	438:2,7 449:10	alphas 407:14	443:2 444:21 457:8
age 49:18 178:19,19,22	462:11,14 473:3	Alright 399:10 473:16	458:4,10
185:21 186:14 190:5	agreed 93:22 94:4	alter 54:3 105:16	answered 97:5 284:1
231:9,13 236:22	308:14 449:13	altering 279:8	437:11 440:20
237:2,4,6,9 238:15	agreement 122:12	alternate 47:10	answering 114:21
239:1 240:1,9 253:10	agrees 168:12	amazing 488:4	answers 97:12 267:1
257:12 324:9,11,13	Agriculture's 247:4	ambulatory 21:8 164:3	391:20
324:16 340:8,15,16	<b>Ah</b> 248:18	209:16 213:20 214:2	Anthem 27:5
346:20 370:4 372:15	ahead 6:22 9:11 67:10	American 21:15 28:7	antibiotic 4:7 48:15
377:5 378:17 407:14	69:7 73:9 76:9 81:22	92:10 306:10 367:7	49:13 50:19 51:16,22
447:8 age-appropriate 376:8	87:5 105:10 110:22 138:12 155:2,5,17	461:19 amount 8:21 31:10	52:13 59:11 70:2,4 81:11,16 85:2
aged 238:9	167:1 170:8 179:6	247:22 248:11 263:21	antibiotics 50:2,21 52:4
<b>aged-</b> 324:10	203:21 212:21 227:4	316:13 474:10	60:17,21 69:10 70:12
agencies 28:5 156:5	228:22 229:1 230:4	Amy 2:1 28:3 152:20	71:16 80:8,9
165:6 166:5 183:6	270:12 300:10 317:21	307:7 308:9 317:12	anticipation 267:7
211:7	338:13 354:18 355:17	345:10 351:22 359:3	anticipatory 4:18 367:1
agency 181:7 198:15	376:5,6 381:9 386:12	429:18 444:15 458:22	368:6 369:18 370:1,3
344:5 352:15	386:16 398:20 406:17	474:2	370:8,11 371:2,11
<b>agenda</b> 35:14,19	408:7 413:12 419:10	<b>Amy's</b> 342:19	372:11 376:10 383:2
488:15	423:1 434:11 439:10	analogy 154:7 156:17	390:16 412:14 422:4
agent 76:15	439:18 448:17 464:11	analyses 135:15 166:1	445:4,6
ages 48:13 49:22	464:13,21 483:7	255:10 358:3	anybody 31:3 36:19
238:16	488:17	analysis 51:9 59:19	187:17 212:5 241:13
aggregate 405:13 418:5 aggregation 415:20	AHIP 16:5 AHRQ 283:8	76:17 94:7 181:16,19 193:3,5 201:12 206:5	241:21 286:1 364:6 445:22
aggressive 243:12	aimed 465:7	209:14 213:18 232:12	anymore 202:3 343:1
aging 305:16 324:12	air 237:22	234:5 248:14 253:8	anyway 208:11 272:6
agnosticism 39:15	airport 469:4	255:6 262:16 263:2	387:22 423:5 472:22
40:11 239:20	aisle 59:18	264:3 268:5,12	<b>APA</b> 26:6
<b>ago</b> 201:7 211:14	akin 156:18,19	285:10 296:2 318:13	apart 408:3
331:12 354:8 368:14	<b>al</b> 177:20	319:8 324:4 340:5	<b>APHN-BC</b> 1:12
412:10 413:17 415:5	<b>Alabama</b> 328:12,21	395:21 415:15,16	<b>apologies</b> 11:7 158:16
443:1	330:17	416:11 417:2 426:10	414:19 454:18
agonists 268:2,2	Allautanal 200:42	426:12 427:2 451:6	<b>apologize</b> 95:17 176:7
<b>Agoratus</b> 1:12 28:20,21 29:2 60:13 61:19,22	Albuterol 290:13	487:12	263:3
62:3,8,10 74:6,21	<b>alcohol</b> 5:11 461:4,10 461:21	Analyst 2:15 32:1 analytic 166:4	apparent 105:2 appeal 389:11
76:3 79:19 83:19	Alfred 1:18	analyze 361:16	appeals 489:5
85:15 125:7 126:22	algorithm 42:11,12	and/or 239:14	appeared 135:7 399:11
127:3 183:8 184:2	63:14 64:17,19 96:8	anecdote 83:11	appears 73:16 203:16
200:5,10,20 446:18	130:7,13 166:19	anemia 4:7 48:14,20	339:18
446:21 451:2,21	197:13,14 264:9	49:17 50:1,5,8,11,18	appendectomies
459:11,20	325:7 326:17 394:6	51:19 52:1,15 59:4,7	304:18,20 344:1
<b>AGPE</b> 370:17 371:9	397:18 486:14	59:15 64:22 65:3	346:5,14
399:20	algorithms 41:2,7	angle 19:9	appendectomy 106:14
<b>Agrawal</b> 2:12 7:2,3,11	110:17 196:21	Ann 17:17,20 31:7	305:1,11,22 310:20
8:9,16 155:18 agree 54:2 57:12 60:11	align 11:16 411:10 aligned 185:15	announce 309:3 announcements 6:8	311:11 312:1,3,21 313:11,17 314:6
60:13 83:10 107:9	aligns 185:7	another's 262:22	324:14,21 340:5,16
114:2 127:6,9 128:22	all-patient 33:17	answer 40:14,15 98:18	340:22 341:9 346:17
132:10 133:13 155:6	allergic 70:9,16	105:13 108:15 109:12	346:19,21 347:5
169:5 189:11 222:1	allow 270:7 316:13	125:20 160:14 184:21	appendectomy-focus
235:11 236:16 253:14	allowed 77:5 182:8	233:11 240:9 241:8,9	311:5
268:18 273:10 278:1	<b>allows</b> 94:17 143:8	358:1 360:21 371:16	appendicitis 305:1
283:5 285:16 308:8	272:1	381:10 395:20 403:14	306:2 308:19 312:12
308:18 310:20 321:21	Allshouse 217:3	410:1 416:2 423:17	312:13 313:16 320:13
343:18 391:14 405:9	alluding 182:10	426:2 436:13 441:2	320:21 336:14,16,22
II	ı	ı	

11
351:13
appendix 314:12 334:5 345:3,8 346:11,16
347:12 <b>applaud</b> 308:18 332:7 332:13
<b>applause</b> 88:13,14 161:19
apples 132:21 136:7
applicability 415:19 application 306:15
426:8
<b>applications</b> 367:18 <b>applied</b> 241:16 243:19
applies 427:1
<b>apply</b> 181:12 213:7 278:22 345:3 395:16
appreciate 17:13 31:9
31:12 35:16,17 36:2,4 37:16 106:7 140:6
263:16 270:3,16
301:13 302:1 389:2,7
469:22 470:13 471:11 471:17 480:9 488:12
<b>appreciation</b> 16:11 469:15
appreciative 487:18
approach 90:13 105:16 119:14 128:21 180:16
309:5 374:7 457:13
480:15 481:4 484:15 487:1
approaches 129:13
<b>appropriate</b> 16:17 44:2 48:15 50:2,19 52:13
58:17 136:13 160:13
231:20 247:9 271:10 271:18 288:2 289:22
290:9 292:17 293:1
298:2 324:21 325:7 330:3 359:5 396:19
407:13 428:20 439:17
459:8 476:18 appropriate-use 43:20
appropriate/inappro
275:3
appropriately 16:14 53:22 59:9 181:22
274:8,16 318:19 344:2 434:17
appropriateness 4:14
92:4 119:20 245:16
247:22 270:14 271:18 274:6 277:10 282:21
283:22 289:19 290:2
290:16 291:4 294:9 294:11,17 297:16
299:21 300:2

```
Approval 489:2
approve 68:7
approved 68:22 394:16
approximate 345:2
approximately 92:22
  447:3
apt 154:6
arbitrarily 320:16
arcane 317:6
area 6:12 59:4 488:6
areas 32:22 33:18,19
 34:4 114:6 378:18
 458:5,7
arena 127:11
argue 115:12 141:11
 239:3 432:3 436:1
 440:18
argument's 375:11
Aristotle 39:14
Arizona 25:19
arm 49:11
arms 461:11
arounds 225:20
arrival 35:17 281:22
art 350:18
Arthur 3:2 162:20.21
  170:9,13,15 171:13
  171:20 172:2,7,17
  176:11,15,20 177:16
  179:2,4 180:1,9
  181:14 182:15,18
 183:1,4 186:18
 187:11 200:9,12
 201:2 206:4 207:12
 208:5 215:6 216:1
 222:22
ARTHUS 182:21
articles 167:4,7 168:2
artifice 243:1
ascertainment 267:19
ascribe 8:12
aside 134:15 269:20
 343:14 398:13 487:6
asked 18:5 70:13 225:4
 230:21 255:15,17
 265:6 330:4 358:4
 363:19 379:8 386:18
 387:13 411:7 420:21
 424:21,22 425:2
 429:5 434:15,20
 436:5,6,9,11 437:5,9
 441:9,17 447:4,18
 451:5
asking 216:21 226:18
 244:13 259:10,10
 263:17 296:11 362:13
```

363:21 367:2 368:8

379:9,20 381:5,14

```
387:12 392:17 402:22
  410:21 411:22 420:15
  424:3 435:7 436:9
  437:2,8 439:20
  442:15 447:15 455:10
  463:2
asks 293:15 306:13
  455:5
aspect 144:1 391:5
aspects 271:4 367:5
assertive 226:2,19
assess 12:18 51:15,22
  67:4 92:6 95:12 99:2
  164:17 166:3 283:4
  294:20 330:17 337:11
  369:22 451:12
assessed 51:7 199:10
  461:10
assesses 49:21 85:10
assessing 297:8 465:9
  480:15
assessment 5:11,14
  15:19 28:6 42:6 44:8
  89:15 120:22 255:8
  294:14 338:1.6 352:8
  367:3 368:1 408:5
  435:8.10 456:12
  461:4,21 462:4 481:4
  481:16
assessments 127:19
  371:12
assiduous 157:8
assigned 275:10,15
  434:13
assistance 14:22
  344:16
Associate 22:14 23:2
associated 42:9 49:3
  50:11 64:21 90:18
  147:11
association 1:19 21:11
  21:12,15 26:5 92:10
  92:11 163:21 165:18
  170:17 351:9 476:13
assume 56:13 340:7
  430:8
assuming 47:21
assumption 277:2
  305:12 309:13 411:1
  427:14 431:14
asthma 4:13,15 229:16
  230:22 234:10,12
  235:14 236:19,21
  237:4,10 239:1,8,13
  239:21 240:5,10,22
  241:1,3,10,14,21,22
  242:3,15,19 243:7,13
  244:7 245:1,12,14
```

249:5 260:6,11,13,17 268:2,9 270:17 275:4 279:22 284:16 287:13 287:15 300:3 asthmatic 267:20 astounded 102:6 astounding 102:13,15 astounds 107:21 at-risk 447:7 Atlanta 1:14 27:19 attachment 444:12 attempt 231:4 239:12 247:10 270:20 276:20 attendance 302:1 attended 440:21 attention 128:16 attributable 248:15 413:5 430:9.10 attribute 39:17 430:20 attributed 238:4 258:7 431:16 481:14 attribution 412:15 421:22 438:8 456:4 audible 116:7 118:6,9 130:4 253:18 254:4 272:11 286:3 288:6.9 299:2.6 316:21 322:13,15,18 338:11 341:17,21 342:2 347:15 356:10 370:21 audiences 355:11 audits 147:2 authenticator 141:3 author 217:15 authorities 316:7 **authors** 53:21 55:5 80:18 automate 99:20 100:4 automated 94:16,19,22 98:7,9 99:12 100:7 109:20 111:2,9 153:18 459:15 automating 107:18 109:16 automation 108:4 109:9,14 available 10:6 11:18,22 42:5 52:18 54:12 67:3 138:11,19 174:19 191:14 198:8 243:5 264:22 307:1 370:16 385:18 average 77:13 78:8 375:7 382:18 avoid 182:9 avoidable 163:13 avoided 207:14

aware 15:16 101:8

156:2 239:15 432:10 awareness 89:20 awesome 349:5

## В

**B** 326:10 384:22 **Babies** 3:5,7 **baby** 232:13 back 10:2 37:2 43:11 44:20 47:13 68:10,18 71:6 85:2 101:17 111:16 139:16 162:3 167:22 180:14 202:15 213:19 267:17 271:6 278:18 290:13 292:5 302:22 305:5 314:1,4 315:5,10 316:9,10 320:9,16,18,22 351:18 356:22 363:8 374:7 377:22 382:15 388:10 389:12,22 391:14 397:17.20 400:3 406:11 408:9 411:14,15 413:11,22 414:16 418:4 424:10 426:12 428:10.18 438:13 442:22 444:17 445:17 447:22 452:12 456:14 471:18 472:6 472:12 473:12 476:5 477:4 486:15 488:5,9 488:10 489:18,19 back-to- 290:12 backdated 314:3,17,17 backdoor 474:9 background 21:14 155:21 248:4 backgrounds 401:8,9 backing 222:1 backtracking 237:19 bad 113:8 281:15 319:1 319:13,14,19,21 320:8 330:22 335:17 477:6,17 485:18 **balance** 27:14 300:5 **ballpark** 128:5 458:9 Baltimore 68:19 bar 205:21 429:20 **barriers** 401:11 bars 332:7 337:14 base 38:4 131:17 156:6 156:10 based 80:10 94:7 99:22 120:21 144:10 171:8 177:19 185:3 196:20 204:18 241:4 259:5 260:15 273:1 312:9,9 312:11 345:20 349:1

367:8.8 390:15 395:14 412:2 416:3 420:10 422:1,14 424:20 425:16 427:20 429:14 433:12 449:15 462:4 baseline 383:5 **basic** 308:4 367:11 basically 152:21 290:21 305:21 391:20 400:22 423:17 463:3 465:14 **basis** 67:5 151:13 255:22 Baylor 2:7 23:13 bear 366:8 484:8 **beat** 364:15 **beaten** 82:18 **beauty** 315:7 **bedrooms** 387:11 began 91:19 101:18 150:15 163:2 beginning 217:14 begun 150:19 486:7 behalf 485:6 behavior 373:14 377:1 391:7.17 392:4 393:6 393:8 397:5,6 447:14 461:16 **behavioral** 14:10 16:2 22:13 25:14 231:13 367:4 377:1 415:4 435:9 447:7 **behaviors** 392:10,11,13 belief 234:19 **believe** 10:17 47:5 52:20 70:13 77:14 95:9 96:20 192:13 246:17,19 262:14 271:7 312:20 324:22 331:4 373:3 391:1 398:1,11 403:9 405:17 434:9 452:14 455:21 462:8 464:14 479:22 believes 207:2 believing 433:10 **belongs** 321:16 benchmark 151:1 376:11 382:9 476:12 benchmarking 150:11 beneficiaries 12:6,11 12:15 benefit 44:14 111:7 134:15 199:21 benefits 69:18 212:17

396:11,12

380:3,11

Bergren 1:12 22:4,4

best 20:13 53:13 59:5 141:11 194:10 232:1 259:12 276:8 306:16 310:1 338:6 349:8 439:13 487:1 **Beta** 268:1,2 Bethell 366:2 better 73:16 91:18 103:13 114:9 124:2 163:22 164:2 167:5 168:4 172:13 173:10 180:17 187:3 194:2 205:5,17 211:12 218:7 221:21 231:14 258:16 278:9 281:6 297:12 302:7 304:10 306:16 309:20 310:19 318:13 319:12 324:7 325:18 326:9,14 329:6,10 330:11 358:10 361:7 362:12 362:16 370:17 375:12 379:4,4 385:7 394:1 411:21 416:22 423:10 424:5,13,15 442:17 443:3 449:10 476:11 477:13,14 483:18 beyond 167:7 245:8 274:1 360:19 biannual 220:9 bias 108:14 164:21 260:12 262:5 321:10 336:10 biased 315:9 322:2 biasing 336:20 337:3 **Bice-** 164:8 177:20 205:12 215:7 Bice-Boxerman 164:10 164:19 174:12 175:2 205:2.9 bicillin 68:21 **big** 191:15 343:10 346:3 348:14 400:11 402:13 475:22 bigger 191:17 198:4 335:2 biggest 195:1 479:21 bill 169:17 181:10 346:6 **billed** 170:21 344:2 **billing** 91:15 171:3 193:21 **bills** 346:5,7,8,13 347:10 biological 231:13 Biostats 27:21 **birth** 447:8 birthday 225:9

bit 39:9 54:8 60:15 70:15 80:17,19 84:17 98:6 99:18 100:16 105:9 106:19 108:8 115:9 124:1 130:6 132:2 139:11 140:5 142:19 143:6 149:10 153:15,19 187:2 206:2 226:6 232:13 233:18 234:21 235:22 239:20 240:12 255:7 256:12 257:21 258:13 266:19 268:20 276:20 318:6 340:11 341:13 365:9 369:19 380:5 389:10 414:17 416:8 419:20 459:19 466:6 474:11 477:6 490:16 black 204:13 484:17 **blacks** 334:6,13 **blah** 395:17,18,18 436:12,12,12 **blended** 132:2 blending 397:10,14 **blood** 49:15 243:10 282:6 297:17 Bloomberg 4:19 blow 384:22 487:7 **blows** 420:22 Blue 1:19,19 21:11,11 21:13 27:5,5 213:15 blur 259:17 **blurry** 273:18 board 24:14 25:9 26:4 boarded 25:8 **bodes** 186:3 **body** 7:16 44:10 **boil** 260:1 bonding 222:15,21 bootstrapping 344:22 borders 64:8 born 410:7,19 412:21 413:2 425:2 borne 245:1 Bost 1:13 27:16,16 127:13,15 128:22 154:18 199:6 264:2 275:1 293:21 294:20 295:14 297:5 372:13 372:19 373:21 374:11 375:2,14 381:22 382:8,11 394:13,19 395:19 400:22 407:10 408:16 412:19 420:7 420:15 473:17 **Boston** 1:20 3:6,10,16 25:21 26:3,11 89:9,11 **bother** 225:17

**births** 12:12

bottom 40:18 472:7 **bounce** 336:11 **bounced** 80:19 bouncing 334:18 335:3 336:9 bound 305:8 309:22 311:2,11,14,17 **bounds** 305:21 **bow** 442:12 Boxerman 164:9 177:21 205:13 215:8 **boxes** 427:22 boy 176:15 466:16 breadth 168:19 193:11 326:5 break 6:16 87:3 126:11 161:21 228:10,19 342:17 363:3 466:6 breaking 221:19 247:15 **breaks** 6:13 breakthrough 60:18 breastfeeding 389:20 390:2 breathing 282:7 brief 6:8 32:15 34:7 36:6 47:15 89:3 153:14 299:13 301:22 365:13 369:20 488:18 briefly 35:2 42:17 43:21 58:17 73:10 76:8 81:2 82:14 185:2 255:20 287:8 336:6 340:1 365:14 381:10 390:12 396:10 455:1 bright 370:15 380:18,21 422:2,6 427:12,12 461:20 465:11,12 472:19 485:11 brighter 13:14 bring 43:11 44:20 54:6 143:13 267:17 273:10 276:20 336:7 356:19 390:8 444:17 467:5 468:4 489:19 bringing 406:3 **brings** 146:3 277:11 **brink** 198:8 **Bristol-Rouse** 1:14 24:22 25:1 69:14,21 175:7 190:20 212:16 218:2 389:9 457:5,7 **broad** 106:22 112:22 113:22 114:5 235:15 270:8 broadened 70:14 broadens 443:14 broader 64:20 150:22 171:11 478:10

broadly 174:8 broken 391:18 bronchitis 239:22 268:8 brought 68:19 69:15 91:3 217:6 234:3 484:8 bucket 465:21 **buckets** 136:12 **build** 13:13,14 111:3 178:12 456:20 **building** 294:16 398:16 **builds** 33:8 269:12 **bulk** 198:4 **bull** 276:13 bunch 293:2 328:21,22 414:7 bundle 365:10 **burden** 17:2 84:22 93:19 94:15 99:17 108:2,7 110:21 burdensome 99:15 139:22 Bureau 46:16 461:20 **burns** 379:1.2

## C

**CAHPS** 15:20 431:9,10

**CAHMI** 4:19 487:11

Burstin 2:13 414:18.19

business 315:4 335:11

426:10 432:13

**busy** 11:4 298:8

**by-item** 376:19

**C** 71:14 326:10

**CAHMRI** 384:7

432:5,7 433:1

calculate 178:3 257:9 calculated 82:18 calculation 178:1 293:14 calculations 353:16 calendar 490:5 calendars 489:9,10 calibration 143:22 California 20:22 285:3 350:20 351:1 418:8,9 471:5 California-centric 199:21 call 11:11,15 17:10 19:22 22:15 28:19 43:14 44:20 45:8 115:3 168:11 242:9 263:19 264:6 265:11 265:14,15,17 267:1,8

269:2 270:5 283:20

305:9 350:8 356:22

calling 229:18 274:5 457:11 **CAMHI** 29:7 **campus** 154:4 cancel 490:2 cancer 33:20 61:9 candidate 4:6 91:21 92:2,6 capability 418:4 caps 6:21 capture 107:1 112:8,11 114:4,14 170:22 181:22 183:10 209:6 225:19 247:10 274:18 captured 69:1,3 126:2 201:9 288:22 473:4 capturing 128:11 220:1 car 379:1 388:12 card 374:6 420:4 445:16 cardiovascular 33:20 cards 10:11 48:2 81:20 334:10 355:17 392:6 430:7,7 carefully 121:19 455:9 caregiver 247:7 caregivers 165:6,12,13 165:20 389:18 caring 173:18 Carol 2:9 26:21 159:1 185:18 192:5,14 201:5 206:12 236:3,5 237:15 253:16 352:10 362:17 394:10 404:17 406:4 408:6 409:12 423:2 455:14,15,19 456:1 457:10 Carolina 25:5 66:8 Carolyn 217:3 Carolyn's 217:15 carry 317:12 323:15 case 42:2 45:9 49:4 50:13 59:2 80:21 91:5 105:17 120:17 133:18 153:17 185:10 205:8 219:18 263:6 279:10 292:9 309:22 310:1 314:16 331:4 346:19 364:12 391:17 394:2 404:22 452:11 cases 42:4 50:5 93:11 139:15 189:14 304:8

364:13,14 365:21

490:7

366:4 404:15 435:1

460:17 464:13 489:7

called 7:5,8 90:15 192:9

208:2 302:20 351:13

346:17 361:16 categories 176:19 185:21 catheterization 125:17 causation 170:17 cause 89:18 160:10 359:18 causes 89:17 114:11 caveats 150:7 472:7 **CCM** 192:9 219:16,16 **cell** 4:7 48:14,17,20 49:16 50:1,5,8,11,18 51:19 52:1,15 55:16 59:4,6,14 63:17 64:22 65:3 225:16 center 1:22 2:5,6 3:3,9 3:15 16:4 23:3 24:7 25:18 26:10,16 27:18 27:21 59:18 83:11 89:12 107:2 135:21 136:15 162:16,19 165:2 187:22 217:2,5 217:8,16 302:4 459:3 centered 1:15 4:21 25:2 368:9 454:22 457:12 457:13 459:6 centers 98:19.22 123:19 135:6,8 136:3 230:19 **central** 224:16 **CEO** 2:12 7:2 Cerna 107:22 Cerner 101:10 109:21 109:22 certain 147:12 153:1 361:13 392:12 396:5 397:21 403:17 484:8 certainly 99:10,16 103:3 105:17 109:15 109:18 110:7 127:6,9 135:19 138:10 139:21 143:20 147:5 150:12 153:17 155:22 175:10 179:12 183:19 190:7 263:15,16 275:2 295:1 349:13 445:3 487:16 Certification 382:21 cessation 415:8 cetera 53:18 61:11 167:12,15 273:17 287:22 455:9 **CEUs** 141:19 chair 21:20 23:16 26:5 28:7,12 **chairs** 36:1 269:10 challenge 109:15

232:14,15 234:13

II	
246:9 392:9	221:21 223:2 229:17
challenges 137:22	231:9 239:16 244:22
181:12 301:10 380:21	245:5 271:8,10
challenging 135:1	274:15 279:21 303:8
223:16 243:11 276:15	313:11,15 335:4,18
474:14	352:22 353:16 366:17
<b>chance</b> 45:6 143:9	368:16 370:3 374:8
473:1 483:6	379:2 409:17 410:6
chances 423:8	410:19 412:21 413:2
change 43:5,15 221:21	413:5 431:12 436:11
279:8 284:19 325:12	438:1 442:10 456:19
354:5 391:17 392:4	457:2 461:20 465:10
392:10 393:6 394:2 397:5,6 419:16 420:1	467:6 <b>child's</b> 165:21 205:9
420:14 425:15 429:16	410:7 412:21 435:11
441:2,4,15,18 445:8	442:2,4 455:6
changeable 440:17	child- 32:22 33:2,4
<b>changed</b> 80:17 367:14	childhood 235:14 368:7
417:15 441:3 444:17	children 1:18 4:7,10,13
472:14,15	4:15 12:10,11,15
<b>changes</b> 80:16 279:11	13:15 17:8,12 21:8
304:19 389:14 391:7	24:9,16,20 29:8 48:13
439:16	48:20,22 49:9,10,16
changing 425:1,12	49:22 50:8,9,9,15,18
439:12	51:18,22 52:2,15 53:1
chaos 246:4 characteristics 329:13	56:20 59:3,10 61:7 63:7,19 64:12 65:18
chart 83:1 91:1 95:4	65:20 66:1 70:16
122:6 123:7 145:3	149:1,2 152:19
243:6 264:8,9 271:15	162:17 163:1,6 165:6
271:16 283:6,19	165:13 166:9 178:8
377:4 378:16	178:10,13 180:13
charts 93:18 100:11	187:4 191:18 194:17
108:14,19 139:14	202:1 214:3 223:3
140:11 143:14 245:17 245:18 292:12 299:18	229:15 231:11 234:9 237:8 238:9 239:7,13
chasing 480:1	240:4,6 241:3,8 242:3
chat 40:4 72:12,15	242:10,14 243:11,15
cheat 96:9	245:19 248:1 277:7
check 122:14 128:1	279:22 290:13 302:8
147:14 304:21 305:5	307:21 318:18 319:9
<b>checked</b> 29:6 219:8	321:12 324:8,10,16
428:1 442:20	325:11 328:18 353:7
checking 384:9 checklist 386:19 388:2	367:13 368:2 412:10 children's 1:13,16,17
checklists 396:14,15	1:20,22 2:1,5 3:2,5,6
checkup 388:11	3:7,8,10,11,14,17
chi-squared 256:17	4:16 21:3 23:13,19
Chicago 1:13 21:12	24:15 25:10,11,21
22:7	26:3,12 27:9,13,18,20
chief 2:13 24:2 26:2	52:12 63:20 64:7,10
27:20 32:5 46:7,16	66:18 68:12,13 89:9
414:19 485:9	89:11,13 109:21
child 3:4,12 4:13,18	110:18 111:6 136:14 141:2 162:18 224:7
14:6,12 15:17,19 25:8 29:4 64:4 67:14 70:9	301:17 368:10 411:9
173:17,18 174:1	chime 155:4 203:19
175:19 183:17 200:18	CHIP 12:1,4,5,14 14:20
••	

221:21 223:2 229:17 231:9 239:16 244:22 245:5 271:8,10 274:15 279:21 303:8 313:11,15 335:4,18 352:22 353:16 366:17 368:16 370:3 374:8 379:2 409:17 410:6 410:19 412:21 413:2 413:5 431:12 436:11 438:1 442:10 456:19 457:2 461:20 465:10 467:6
child's 165:21 205:9 410:7 412:21 435:11 442:2,4 455:6 child- 32:22 33:2,4 childhood 235:14 368:7
children 1:18 4:7,10,13 4:15 12:10,11,15 13:15 17:8,12 21:8 24:9,16,20 29:8 48:13 48:20,22 49:9,10,16 49:22 50:8,9,9,15,18 51:18,22 52:2,15 53:1 56:20 59:3,10 61:7 63:7,19 64:12 65:18 65:20 66:1 70:16 149:1,2 152:19
149.1,2 132.19 162:17 163:1,6 165:6 165:13 166:9 178:8 178:10,13 180:13 187:4 191:18 194:17 202:1 214:3 223:3 229:15 231:11 234:9 237:8 238:9 239:7,13 240:4,6 241:3,8 242:3 242:10,14 243:11,15 245:19 248:1 277:7
279:22 290:13 302:8 307:21 318:18 319:9 321:12 324:8,10,16 325:11 328:18 353:7 367:13 368:2 412:10 children's 1:13,16,17 1:20,22 2:1,5 3:2,5,6 3:7,8,10,11,14,17 4:16 21:3 23:13,19
24:15 25:10,11,21 26:3,12 27:9,13,18,20 52:12 63:20 64:7,10 66:18 68:12,13 89:9 89:11,13 109:21 110:18 111:6 136:14 141:2 162:18 224:7 301:17 368:10 411:9 chime 155:4 203:19

15:16 353:1,14,17 354:8 CHIPRA 11:17 13:20 230:19 **choices** 260:15 **choose** 22:21 **chooses** 356:21 **choosing** 474:7 479:3 CHOP 301:18 302:4 **chose** 318:9 chosen 92:7 **Chris** 89:7 105:18 129:11,22 143:22 Chris's 110:2 Christakis 177:20 Christina 366:2 **CHRISTOPHER** 3:6 **chronic** 14:10 33:5 117:21 126:14 135:16 214:3 328:17 chronicity 135:17 **chunk** 477:12 churn 349:22 **churning** 353:2,13 427:5 CI 325:3 Cincinnati 1:21 21:3 circumstance 472:4 circumstances 42:1 243:12 cited 168:16 400:9 cites 167:3 **City** 271:6 claim 56:11 64:21 65:1 68:9.12 241:14 claimed 292:6 claims 49:21 50:22 59:6 65:2 76:11,12 77:7,15 78:9 80:10 169:19 201:13 212:12,19 213:3 245:7,18 259:7 264:8,17 302:19 305:3,10,12 324:3 claims-259:4 claims-based 82:16 259:1,17 clarification 121:3 246:14,20 374:1 394:14 427:4 clarifications 62:17 78:19 clarified 137:16 235:18 255:4 **clarify** 60:16 64:14 140:7 156:16 163:20 200:14 201:18 211:1 244:14 299:11 374:16 376:6 419:1 447:13

449:22 452:20 clarifying 184:3 360:1 418:12 434:13 459:12 **clarity** 268:21 class 260:16 Classen 128:8 149:17 classical 202:2 classification 242:16 242:19 classing 115:8 clear 8:6 30:14 160:4 161:1 176:9 187:13 197:1 198:7 205:16 215:11 221:8 249:4 255:8 271:19 281:21 307:6 315:15 325:7 336:9 341:11 357:19 357:20 391:5 398:15 428:17 486:12 Clearinghouse 367:11 **clearly** 104:10 140:7 199:3 280:11 343:20 357:14 361:3 399:19 clicker 35:1 38:6 39:8 clickers 250:16 clinic 193:22 413:9 clinical 16:4 22:19 23:17,17 27:10 33:1 33:19 189:17 190:2 241:4 270:22 277:4 442:9 **clinically** 189:21 190:17 **clinician** 25:12 132:20 171:14 317:5 421:9 432:14 **clinicians** 85:10 137:21 369:22 371:1 408:19 **clinics** 1:17 16:2 466:11 close 251:21,22 252:1 357:15 360:7 381:4 406:18 464:22 closed 40:9 72:22 74:22 79:7 82:6 84:9 87:16 88:5 116:20 118:17 131:1 137:10 148:2 158:9 161:9 188:16 196:3 203:4 210:15 214:13 227:9 228:4 250:9,10 252:9 254:18 266:8 286:14 289:4 300:20 317:8 323:8 338:19 342:10 348:1 356:2 399:3 407:1 434:2 446:8 450:15 454:9 460:10 464:6 468:21 closely 453:6 **closes** 315:5

1	ı	1	
closure 336:7	<b>combine</b> 9:14 193:17	213:10 285:5	338:4
clues 100:15	combined 12:8 197:15	commercials 199:10	compelling 26:17 31:1
cluster 358:13 359:13	come 25:9 58:4 68:9	commission 114:10	165:17
360:2,2,6,12,15	77:1 111:16 119:14	commit 104:7	competently 175:19
clustered 338:2 358:9	122:3 129:8 159:9,21	committed 364:14	competing 39:2
<b>CME</b> 141:19	174:2 177:7 179:19	committee 1:3,8 7:19	compiled 92:2
CMMI 469:16	181:21 187:7 217:8	7:22 16:11,18 17:5	complement 284:6
CMS 4:3 9:22 11:10	217:16 222:19 231:19	18:2,3,8,18 19:4,15	complete 53:10 194:11
14:21 48:17 283:8	232:3 261:21 278:18	24:13,14 25:15 26:6	194:21 202:4,17
<b>co-</b> 25:13 26:9 208:2	311:6 324:18 353:18	28:9,13 29:18 30:3	211:14,16,18 213:22
<b>Co-Chairs</b> 1:9 20:2,2	356:22 387:12 396:18	35:3,5 36:12 37:18	completed 364:16
30:11	406:11 411:20 415:14	38:16 43:9 45:18	486:8
co-investigator 24:6	441:16 466:14 472:6	46:11,13 74:11 189:8	<b>completely</b> 107:9 114:2
<b>co-payments</b> 208:4,10	472:12	230:11 231:18 232:17	419:21 425:6,14
208:13,17	comes 56:11 159:7	233:12 239:2 267:6	complex 29:4 135:16
coaching 142:19	212:18 245:14 277:9	272:8 278:9,18	162:17 176:18 185:6
<b>COC</b> 164:10,19 166:9	420:9 422:2 466:12	283:14 293:17 338:6	186:11 187:4 204:12
204:18,20 205:13	476:6	357:17 359:2 361:18	216:3 225:11,21
206:5,8 214:1 cockroaches 249:8,11	comfortable 231:5 325:9 340:11 361:18	380:20 454:3 469:16	482:3 <b>complexities</b> 177:10
cocktail 132:22	coming 6:7 18:17 126:9	480:11 482:13 485:10 486:1 489:2,3	complexity 4:10 24:10
code 181:10 196:22	126:10 139:15 178:18	Committee's 358:7	29:6 163:1,6 165:7,14
212:7 213:7,13 259:6	180:14 186:15,19	committees 8:20	178:8 197:14 223:4
384:22	187:6 221:12 225:17	common 100:6 125:18	compliance 58:7
coded 197:18	234:13 239:17 245:16	129:7 298:5	273:15,16 274:3
codes 50:22 69:2 70:12	275:7,18 314:11	commonality 365:12	284:20
111:2,9 181:21	315:18 324:3 333:20	commonly 276:9	compliant 167:15
182:11 209:20 232:19	353:7 480:8,20	communicate 222:8	complicated 248:21
232:20 247:5 268:13	488:14	communicated 401:16	279:16 313:22
325:7 341:9	comment 4:11 5:17	433:11	complications 70:6
coding 197:5 384:21	10:11 59:22 70:19	communication 164:6	71:15
coefficient 257:2	73:10 74:11 79:15	175:9 176:4 179:18	component 234:7
coefficients 51:12	82:14 83:7 100:21	218:4	262:11 282:3
407:22	115:5 119:5 127:6	communicator 176:1	components 366:20
cognitively 474:15	138:3 142:2,6 145:22	community 2:6 22:9,14	comprehensive 125:15
cognizant 217:18	151:21 176:5 184:10	25:18 98:4,19,22	181:21 410:11
coherent 256:6,6	189:17 204:16 211:2	123:19 135:5 136:1,4	computers 86:19
cohort 188:5	215:16 219:10,15	136:9,14 306:10	concentrated 163:18
coincide 411:6	224:19 228:13 238:7	325:4	concept 97:17 215:13
Collaboration 230:18	238:7 246:1 249:15	comorbid 61:8	301:7
collaborative 25:5,13	262:8 267:8,13 281:8	company 65:19	concepts 270:4 362:22
115:7 169:13	281:9 282:18,19	comparable 327:1 compare 134:11 135:1	conceptual 163:3
collaboratives 146:4 colleague 13:10 63:8	287:7 291:21 299:1 309:6 310:12 318:22	<u> </u>	221:16 482:5 conceptually 258:1
230:4 365:3	326:17 328:9 332:5,6	136:13 150:2 306:6 318:11 326:4 330:16	459:4
colleagues 35:22 96:19	338:9 356:21 361:20	382:9 392:3 417:10	concern 59:8 61:2 80:1
207:16 223:18	380:2 381:12 405:9	417:16	80:21 137:17 152:22
collect 271:14	408:8 420:10 426:12	compared 48:22 50:12	160:20 185:3 199:6
collected 295:17 297:9	468:18 469:5,10	123:1 124:3 149:13	204:4 219:22 236:20
297:10	470:22 474:3 475:17	178:11 199:18 206:21	341:15 349:9 350:13
College 2:7 22:7 23:13	488:20 489:16,21	306:19 416:14 455:4	406:13 421:15 452:12
collegial 35:11	490:6	comparing 122:17	457:11
Colorado 1:16 2:2	commentary 76:4	350:17 351:1 408:19	concerned 57:17 60:15
23:18,19 24:15	commented 217:10	414:10	61:5 125:10 199:9
432:18	447:12	comparison 136:7,10	277:4 297:21 352:4
comb-through 100:10	commenter 282:18	318:8 339:15,21	484:14
combination 182:1	commercial 12:1	341:5 351:4	concerning 49:2 55:18
194:6 279:10	199:15,18,18 213:3,4	comparisons 90:7	75:7
I	I		I

II			
concerns 4:20 53:3	161:18	consultant 2:19 32:3	372:6 397:1 429:8
62:6 83:19 85:16	congregated 63:22	consulted 127:18	448:13 478:13
125:6 185:13 187:18	connected 144:8	231:22	conversations 462:4
196:19 199:2 200:4	167:10,13	consumer 15:19	485:17
202:11 212:4 233:21	connection 244:12	Consumers 92:11	convinced 278:15
234:3 267:4 272:7	connects 461:16	consuming 414:2	390:21
273:4 291:3 299:5	consensus 6:4 7:7	contact 490:10	convincing 237:3
333:6 334:15 367:2	42:19,21 43:2,7 45:4	contacts 211:21	cool 83:15
368:8 388:17 418:14	45:10 88:6 158:15	contain 93:18	coordinating 173:17
433:16 434:16,20	287:3 296:16,17	content 463:14	coordination 34:4
435:8,22 436:6 442:3	339:2 357:3,3,8	<b>CONTENTS</b> 4:1 5:9	163:4,8,13 164:5
444:6 447:5,13 451:5	446:11 454:14 489:2	context 147:5 276:19	165:21 171:18 216:6
456:19 459:5 471:9	consequence 126:1	contexts 481:15	220:12,14 242:8,8
concise 225:2	146:15	continuation 263:10	270:19 277:11 352:15
conclude 460:21	consequences 70:6	continue 38:21 43:1	352:19
concluding 425:9 470:9	71:12 134:11 146:10	266:14 287:4 296:18	coordinator 29:2 171:9
conclusion 421:6,8	147:11 148:11	339:4,5 469:17	185:4
conclusions 122:4	<b>consider</b> 36:15 70:8	continued 34:12	<b>copay</b> 285:9
concordance 49:19	106:13 113:1 120:2	continuing 295:7	copy 41:6
concur 355:12	127:7 157:18 240:4	318:12 404:3	core 14:6,12 15:17 16:1
concurrent 96:6 144:10	254:3 266:20 269:11	continuity 4:10 24:9	16:2,5,6 17:7 89:14
concurrently 95:19	269:14 272:21 306:8	162:22 163:7,16,16	143:20 247:21 267:11
condition 126:12 214:4	319:19 357:1 426:8	163:22 164:9,12,13	corner 154:11 428:5
<b>conditions</b> 14:10 33:4,6	451:7	164:17 165:8,18	correct 40:15 71:3
61:9 117:21 135:16	consideration 4:6 61:6	167:4 168:8 171:8	78:14 95:19,21
328:17	71:13 237:5 242:7	172:4,8 174:10,20	171:19 187:11 199:13
conduct 93:14 95:4,8	279:19 414:6	175:10 176:4 180:16	265:12 272:20 373:17
conducted 90:13 98:20	considered 41:21 42:2	185:8 186:17,21	373:20 376:7 410:3
163:15 166:1 294:2	42:18,21 43:17 70:7	189:19 192:13 204:5	418:2 430:2,22 433:3
conference 1:8 6:11	80:4,5 107:5 121:7	204:12 205:2,10	437:6 439:3,11 450:2
confidence 211:15	146:8 190:16 270:18	206:20 207:2,17	454:19 489:22
232:5 257:5 262:18	278:10 289:16 306:11	215:9,14 218:16	corrected 135:11 330:8
262:21 263:1 326:6	395:8 451:15	220:10 221:12 223:13	correcting 86:13
327:3,8,14,18 328:1	considering 34:14	224:8 225:7 303:12	correction 159:3
341:3 344:20 345:9	269:5 393:2,3 405:6	303:14,20,22 304:4	correctly 28:22 135:8
360:13 361:11,14	consistency 41:14,15	306:7,17,19 339:14 339:18 482:11	167:3 375:13
456:20 <b>confident</b> 113:20 182:3	44:9 486:20 consistent 14:7,7 37:18		correlated 51:3 191:10
197:20 442:22	50:6 107:12 166:11	continuous 163:9 178:12 200:7,15,16	306:16 339:11 correlates 402:8
confidential 152:5	170:18 173:16 243:16	205:12 329:4 349:22	correlation 80:8 169:9
confidentiality 376:16	324:2 340:13 415:10	433:2	169:10 170:4 192:20
376:18 377:12,18	486:9	contribute 288:5	284:16 339:18 407:21
378:3	consistently 75:15	401:15	correlations 339:14
confirm 72:18 90:20	121:22 407:15 408:20	contributed 51:19	corticosteroids 242:11
confirmed 94:11 122:6	Consortium 21:17	contribution 471:17	cost 44:5 139:4 207:19
conflict 18:3,14,21 19:6	constant 71:16	control 49:8 221:15,17	cost-free 139:21
29:7 30:2,4,7	constantly 101:8	243:13 256:12 274:2	costly 307:22
<b>conform</b> 266:18	constituted 440:17	343:9 385:20 453:3	costs 111:11 207:14
confounds 285:9	constraints 283:8	453:14,20	cough 416:19
443:13	construct 241:19	controlled 193:4	Counsel 17:21
confused 108:8 198:2	242:22 244:14 431:15	controls 146:17	counseled 167:14
206:14 296:13	432:1	controversy 310:6	counseling 385:1
confusing 275:21	constructed 141:16	<b>convene</b> 480:11	472:11
confusion 140:8 297:1	273:20 280:4 302:6	convened 92:5	count 65:2,2 76:22,22
481:20	367:22	convenience 453:4	77:22 78:3 252:5,8
congrats 490:5	constructing 258:4	convening 7:7	272:2 282:21 354:9
congratulate 487:4	constructs 264:18	conversation 35:11	363:16
Congratulations	432:17	155:7,19 157:14	counted 303:9 353:17
	I	I	I

counties 232:6 264:20 367:12 395:9 431:6 176:6 180:19 189:5 defend 421:14 defer 79:16 96:19 country 12:12 64:11 444:19,20 478:18 195:14 196:12 198:10 66:19 486:14 203:13 212:1 214:22 316:19 county 247:5 262:20 criterion 43:7 58:19 deferred 269:13 223:11 279:3 281:2 couple 10:8 36:1 37:20 131:5 137:3 148:6 308:16 322:12 343:17 **define** 107:12 171:13 55:11 57:11,15 88:17 158:14 357:2 374:19 349:11 380:16 385:9 215:4,12,12 484:3 97:5 98:3,7 104:3 487:7,17 397:2 411:14 412:17 defined 157:9 209:18 critical 95:9 105:7 169:3,7 221:18 413:13 440:10 449:4 238:8,15 325:6 Cronbach's 407:14 462:16 464:14 467:19 326:16 403:2 225:15 255:13 284:14 285:4 295:16 332:22 Cross 1:19 21:11 27:5 470:2 **defines** 320:8 David's 219:15 282:19 344:19 352:1 362:1 213:15 **defining** 163:16 392:6 400:8 404:18 cross- 127:22 day 7:4,13 26:1 45:2 definitely 224:13 415:5 469:7 471:19 cross-check 121:18 113:13 215:22 218:20 276:22 287:10,16 480:16 cross-cutting 33:19 222:4 223:14 233:10 470:14 course 12:14 35:9 cross-reference 245:18 310:12 336:15 408:12 **definition** 50:13 59:9 123:13,16 156:8 crosses 66:5 409:5 457:9 472:1 70:11,15 171:12 241:22 282:16 324:14 crystal 269:2 488:7 490:16 234:12,14,22 238:8 **CSAC** 489:2 361:12 370:4 391:13 days 27:13 50:19 51:17 239:6 241:1,21 242:2 **CSP** 2:4 245:13 264:6 268:19 court 428:3,9 52:4 56:18 76:12,15 **cover** 12:8 213:15 culprit 195:1 77:1,3,8,13,19 78:4 273:2,5 definitional 277:17 coverage 4:16 200:7 curious 98:15 112:3,6,9 78:11,13 80:16 301:17 302:5 304:9 110:19 218:20,21 278:4 112:10 179:7,16 307:9 309:9,10,16 180:6 215:3 282:2 221:4 223:18 259:7 **definitions** 51:6 59:2 316:1 318:8,12,16 293:7 448:2 259:10 409:6 415:5 275:5 319:1,2,6,7 323:7 **current** 67:3 197:9 degree 99:19,19 100:13 452:13 327:6 329:4,10 330:9 215:21 350:2 days' 77:12,12 101:6 104:12 247:5 330:10.11.18.22 currently 26:21 33:13 **Dayton** 27:13 254:2 369:22 84:19 90:2 148:21 333:3,9,11,20 334:7,7 **de** 108:1 111:4,8 135:11 degrees 99:4 339:17 341:4 349:22 284:3 440:16 deal 65:2 134:19 343:10 **Delaware** 327:14 351:13 353:1,8 477:5 curve 59:5,19 124:21 355:8 421:18 **delayed** 67:1 459:19 covered 12:12 132:11 cusp 325:17,19 dealing 58:10 **delays** 447:8 303:17 317:17 318:19 **customs** 457:1 **Dean** 20:11 deliberately 194:4 318:20 321:13 cut 62:11 205:16 277:6 dearth 10:6 delighted 6:5 covering 194:18 381:2 378:19 death 89:18 133:11 deliver 431:18 **CPHQ** 2:9 cutoff 382:12 **debate** 330:1 delivered 271:5 442:13 **create** 55:2 144:10 **cutting** 309:12 **Debbie** 21:6 447:20 **delivery** 15:10 26:6 305:21 309:21 311:11 **cycle** 34:8,14 382:20 451:1 452:1 474:19 **Delphi** 165:4 238:18 delve 123:11 created 41:7 124:7 422:16 **Deborah** 1:18 179:6 247:20 309:21 397:19 446:17 delved 354:19 D creates 481:20 **decade** 90:12 demonstrate 150:20 **D.C** 1:9 27:21 64:7 creating 163:3 282:19 December 260:8 318:16 371:4 creativity 308:19 67:14 89:13 111:6 decent 221:11 234:17 demonstrated 248:13 credible 13:5 324:2 daily 49:10 103:1 110:1 decide 195:8 237:18 271:5 328:19 380:7 credit 174:13,15,21 dashboard 280:14 399:19 448:21 249:2 385:6 453:4 177:12 205:7 297:5 data's 201:9 477:3 demonstration 295:6 321:1 382:21 396:16 decided 11:10 59:13 denominator 50:7,16 data-element 130:12 422:15 database 64:3 181:7 195:17 237:16 238:17 51:7 59:10 176:9 credulity 191:3 decidedly 133:17 178:2 186:7,12 343:8,13,19 crisis 275:20 databases 66:17 67:3 decimal 345:6 197:13,21 232:21 criteria 33:11 37:1 38:1 date 420:11 245:10 260:4 268:19 decision 17:4 268:4,7 38:2,20 41:8 44:7 268:11 269:13 308:5 275:17 279:9 280:2 dates 489:6 45:12 47:18,22 73:4,8 dating 68:18 271:6 385:15 439:7 281:4 289:17 292:11 decisions 484:17 302:9 317:18 376:2 165:9 188:1,22 190:6 Dave 269:8,8 decline 207:18 denominators 285:16 278:22 281:19,19 David 1:17 2:2 3:14 23:15 25:7 68:17 **decrease** 94:15 157:4 dense 310:16 283:13 289:19 290:2 290:3,6,15,16,20 89:12 102:20,20 decreased 187:9 402:6 density 191:11,11 108:16 128:7 140:3 dedicated 485:3 291:2,4 297:15 dental 14:11 299:15,17 301:3 145:21 149:16 169:2 deep 235:15 483:4 **department** 2:3,8 4:12

4:14 26:22 46:17 165:19 166:10 229:15 230:22 231:3 247:4 352:16 departments 107:7 depend 65:13,22 384:21 depending 128:5 146:21 208:10 240:1 332:16 383:20 depends 420:7 depressed 468:6 depth 100:17 163:11 described 199:4 292:12 describing 143:18 146:11 description 97:4 313:22 **deserve** 473:3 design 153:20 designed 16:14 85:9 144:22 271:2 297:6,8 411:6 417:10 479:1 desired 44:11 116:2 despite 54:15 dessert 229:12 detail 369:2 465:19 detailed 128:14 392:1 **details** 367:19 detect 215:9,14 detecting 93:21 147:8 deterioration 283:15 determination 449:14 determinations 93:8 determinative 354:15 **determine** 370:6 427:3 461:12 determined 48:17 92:15 348:15 develop 22:22 23:4 70:3 90:13 91:19 113:6 284:5 330:5 349:16 384:16 405:18 406:2 422:6 424:15 482:14 developed 26:12 57:3 89:14 94:16 113:16 113:18 124:7 167:22 233:6 282:3 303:13 304:9,11 368:21 384:7 424:5,14 **developer** 21:20 35:22 43:10 47:14 60:2 64:14 70:21 81:2 88:21 119:12 160:12 170:1 234:2 253:6 255:13,16,16,20 260:3 265:5 267:4,17

269:5.19 276:3 279:19 281:3,16 292:5,9 343:10 350:3 354:20 356:18 362:20 364:19 366:3 376:5 381:12 382:4 402:2 405:15 410:1 412:1 415:18,22 423:11,17 426:7,17 435:18 443:5 448:14 451:4,9 452:21 455:1 458:17 461:14,18 463:5 470:4,6,9 487:15 developer's 212:7 289:19 58:17 69:20 73:12 76:11 92:1 107:17

developers 47:4 48:4 58:17 69:20 73:12 76:11 92:1 107:17 113:4 132:15 151:22 153:10 189:16 204:15 229:17 234:10 235:16 235:22 238:10 246:14 260:14 270:7 395:20 399:12 422:10 462:18 472:5

developing 17:10 29:9 29:10 105:11 111:7 112:21 234:22 423:10

development 21:16 26:15 28:6,10,16 48:16 108:5,9,13 163:2 181:17 202:8 217:7 283:3 301:19 343:21 366:12 368:12 368:16 399:22 442:4 442:11 443:6 447:14 480:22 483:22

developmental 22:13 447:7

diagnose 236:21 237:3 diagnosed 237:10 diagnoses 244:6,17 diagnosis 55:20 239:9 239:20 241:22 268:8 268:13 467:7

diagnostic 112:10 114:7,13 240:6 dialing 47:5 dichotomization 20

dichotomization 204:9 Dictionary 444:6,8 dietary 384:22

Dietetics 2:4 dietician 27:11 differ 262:22

difference 101:3 123:9 216:20 223:20 268:14 329:11 354:11 374:21 402:4,13 409:4 440:14 451:13
differences 35:10 52:7
90:9,9,10 135:22
149:10 179:9 190:17
231:13 255:12 274:17
293:16 295:2 312:8
326:5 334:5 401:2
403:6 435:1 455:3
differential 403:15
differentiate 181:8
differently 285:14
309:12 389:10 393:1

426:20 442:13 difficile 71:14 difficult 104:7 115:10

122:16 140:2 153:7 257:21,22 258:10 262:3 283:6 362:21 457:20 458:10 483:18

484:16 difficulties 86:13 416:21

difficulty 289:20 diffusion 143:8 dig 54:13

digest 262:1 digesting 258:12 digging 140:11 dilemma 353:8

diligent 154:5 dilute 59:12 dimensions 254:1

ding 436:8 direct 83:12 120:22

169:8,10 170:4 209:5 211:21 231:18 302:3 444:1

directed 88:18 direction 283:10 directly 24:8 26:14 30:12 83:13 234:20 244:2 431:18

director 2:14 20:20,20 21:8 22:5,18 23:2 25:3 27:10,17 32:4 68:4 162:15 192:10 Directors 351:9

directs 217:3

dis-ease 391:11 disadvantage 257:15 disagree 239:3 428:21 disagreeing 10:14 disagreement 93:12 disagrees 445:22 disappointed 207:3

discarding 484:18 discern 326:9 410:14 477:2 discharged 106:15 discharges 109:5 disclose 18:10,13,20 19:18 20:5,17 21:1,4 22:3 23:14,20 24:20 25:6,19 26:3 27:15 28:1,17 45:20 46:19 46:22 389:1 disclosed 386:21

disclosed 386.21 disclosure 4:4 9:18 17:18 19:6,8 disclosures 17:22 19:11 20:1,7,9 21:9

19:11 20:1,7,9 21:9 22:11 23:10 27:6 29:21

discovered 418:20 discrepancies 63:9 discrepancy 401:11 discrete 104:17 discuss 26:18 38:10,12

38:19,19,21 55:5 58:18 95:14 133:19 232:17 233:3 265:11 265:14 270:7 370:1 400:7 461:13 486:7

discussant 96:20 115:4 455:13 461:2

discussants 47:17 79:17 96:18 211:1 214:21 233:16 235:21 386:9 446:16

discussed 17:9 93:10 131:10,18 150:8 172:13 271:1 292:7 400:21 459:14 481:19

discussing 34:16 38:3 55:13 166:13 264:1 272:15,20 289:15

discussion 5:19 35:8 35:21 38:14,15 39:3 47:3 53:8 75:7 97:13 119:4 146:2 153:14 161:16 180:18 189:3 227:4 233:9 286:1 289:18 315:12,14 337:16 348:14 369:11

371:3 383:10 385:22 400:6 442:19 459:7,8 472:11 477:20 487:7 discussions 155:22

469:18 470:10 473:8 473:11 474:14 485:7 487:5

disease 48:17 disenrolled 307:21 disenrollment 319:13 disenrollment/enroll... 313:7

dismissed 488:16 445:6 463:4 466:15 251:7 271:7 318:21 343:12 440:22 **disparities** 61:4 105:20 467:2 368:7 460:21 egregious 132:18 eight 27:3 40:13 98:21 117:19,20 246:15 dollar 208:18 **ease** 108:3 domain 104:6 372:16 253:11 405:12 447:5 easier 144:20 153:19 98:22 256:15 disparity 136:5 201:7 372:22 168:4 256:9 333:12 eighth 405:5 287:13 400:20 401:8 domains 14:8 376:22 easily 73:8 100:1 Einzig 1:17 25:7,7 405:1,7 448:1 302:19 328:2 354:17 377:4 394:21 418:15 169:3 170:2 189:6 dispensed 80:10 donating 9:1 355:5 362:22 203:14 212:12 215:1 dispensing 78:10,11,12 **Dorsey** 1:15 23:1,1 easy 108:4 144:19 215:15 397:3 413:14 78:15 80:16 233:17 234:2 246:13 154:2 159:22 182:13 413:21 467:20 dispensings 78:8 253:3 257:20 268:18 182:15,19 222:19 either 15:2 45:9 46:22 disrespect 160:12 293:3,7 337:6 403:12 223:8 250:1,21 49:9 85:7 102:3 117:6 442:7 462:11 468:1 348:10 364:12 374:18 131:7 148:16 204:13 disservice 335:19 dissociating 154:8 480:4 397:5 205:14 232:1 271:17 distinction 223:6 dose-related 115:15 echo 105:18 281:1 279:8 311:2,3 321:5 432:22 456:8,9 doses 290:13 401:7 457:10 472:1 348:22 376:2 403:14 distinguish 337:20 dosing 115:16 487:22 405:15 421:9 422:17 365:15 479:2 **double** 285:5 echoes 350:13 457:8 484:18 distinguishes 64:17 **Eclipsis** 107:20 doubt 426:13 **EI** 2:6 25:18 distress 290:20 **DQ** 15:14 **ED** 164:2 167:12 187:9 elderly 23:5 distribution 231:21 draft 92:16 120:12 193:4,7 206:20 207:8 electrolyte 133:4,11 253:5,7 255:8 358:12 207:14,18 209:2,4,6,8 drag 207:8 **electronic** 94:18 99:5 361:12 draw 191:17 209:11 216:14 234:9 100:2 101:1,6,11,20 District 14:13 235:3,6,13 238:4 109:12 110:16 138:6 drawing 192:12 disturbances 133:11 drew 107:14 242:10 243:13 244:6 138:7,8,20,21 144:4 **Division** 15:12 27:20 drive 104:20 272:4 244:17,21 245:5,11 144:19 154:1 212:12 **DNS** 1:12 297:21 298:6 246:2 247:22 260:5,8 electronically 254:7 **doable** 183:2,3 driving 219:21 220:1 272:2 275:3 276:9 **element** 137:5 157:8,15 **doc** 209:4,6 219:9,17 drop 290:13 267:12 291:15 292:2 281:22 284:5,16,19 **dropped** 314:15 340:6 285:5,10 287:13,14 292:6,17 293:9,17 docs 219:12 238:20,20 drug 56:4 69:2 102:8 297:16 298:8 294:14,15,18 391:19 244:11 280:18 461:21 edge 319:4 465:1 442:18 451:11 doctor 412:12,22 drugs 100:14 Ediger 1:16 24:12,13 **elements** 52:17 98:9,10 431:13 442:2,16 dry-lab 396:15 62:13 74:9 76:6 79:16 110:2 298:16 325:6 465:15 due 61:8,13 136:2 83:21 85:18 184:11 472:21 doctors 242:5 375:16 237:12 184:14,17,19 225:1,4 **elevate** 156:11 410:7 435:12 444:2 **Duke** 2:9 26:21 226:15 296:13,19,21 elevations 100:14 **Dulles** 464:19 469:13 455:6 480:1 297:2 386:4,8,14,17 eligibility 315:22 doctrine 8:13 duly 404:16 387:2 466:3,7,16,19 316:14 319:4 325:12 document 198:6 duplication 153:11 467:17 333:5 362:6 eligible 59:11 130:14 documentation 166:3 **DuPont** 1:18 21:7 editorial 333:17 281:21 348:13 durable 64:22 67:17 education 4:18 369:18 130:14 137:4 191:18 documents 31:11 duration 302:20 303:3 370:2,8,11 198:14 200:15,19 effect 207:4 311:15 doing 11:20 16:12 303:9,14 306:7,18 201:1 302:10,11,13 18:11 21:15 28:10 339:15,19 333:21 447:9 302:16 304:3 305:3,4 63:8 73:16 86:19 **effective** 15:7 52:14 **dyad** 185:9 305:10,13,19 309:7 100:7 122:9,18,19 dying 133:3 208:2 370:14 309:10,11 313:8,8,18 123:2 127:18 152:11 effectively 76:19 237:4 313:19 314:2,8,9,19 Ε 153:2 156:12 182:1 effectiveness 44:13,14 315:6 319:3 320:3 216:5 220:11 221:10 321:8 335:6 336:17 **E** 182:10 efficacy 237:13 232:11 261:18 264:8 earlier 70:13 109:10 efficiencies 100:5 353:20 362:9 275:19 283:11 297:13 119:4 129:5 138:15 163:12 eliminate 134:5 efficiency 44:6 Elisa 2:17 32:6 300:3 303:7 326:9,14 144:3 224:21,21 333:4 335:4,17 efficient 88:18 **ELLEN** 3:3 233:10 285:8 300:2 **efficiently** 48:3 97:22 350:20,20 351:20 314:10 317:17 423:6 else's 222:6 353:10 375:12 377:10 429:8 431:1 442:19 **effort** 100:10 239:16 email 26:18 31:1 389:6 390:22 408:18 335:7 441:7 452:12 emerged 163:7 408:20 439:16 445:4 early 6:7 35:16 150:15 efforts 81:15 104:8 emergency 4:12,14

107:7 165:19 166:10 336:15 349:3 351:20 establishes 402:16 477:9 184:20 193:1 229:15 351:21 352:17 433:2 estimate 258:5 262:16 everybody's 39:7 252:9 230:22 231:3 239:9 481:17 482:11 312:16 315:9 everyone's 460:18 239:18 242:14 248:2 ensure 16:20 37:16 **estimated** 95:6 141:9 471:17 249:6 270:22 271:9 108:14 estimates 257:1 337:14 evidence-based 11:18 277:2,3 280:1,6,7,10 enter 72:12 estimation 276:9 12:19 165:2 187:22 280:12,14,18 281:11 entering 40:5 et 53:18 61:11 167:12 evidentiary 156:6,10 167:15 177:20 273:17 442:15 entertain 414:15 390:22 emergently 126:8 enthusiastic 323:15 287:22 455:9 evidently 86:16 Emeritus 20:11 entire 78:5 93:14 97:11 etcetera 320:7 evil 350:5 emotional 463:15 107:1 109:2 eternal 465:2 evolved 239:13 395:10 emotionally 467:11 entirety 395:9 ethnic 61:4 253:9 401:8 395:11 emotions 467:5 entities 253:7 264:12 evolving 485:20 403:5,6 empiric 204:3 292:11 entity 258:7 351:20 ethnicity 117:20 246:18 exacerbations 243:14 empirical 41:22 61:14 enumerator 239:8 334:3 405:2 447:6 exact 71:5 213:13 119:8 166:8 292:15 environment 150:7 evaluate 44:3 92:17 453:10,11 293:22 294:1 340:20 238:1 465:9 187:21 329:15 461:8 exactly 78:14 146:11 empiricism 39:16 40:13 environmental 237:21 evaluated 33:9 149:3 151:12 152:10 evaluating 32:16 36:17 153:2 255:9 278:1 40:16 243:3,8 employer 19:2 **Epic** 101:11 107:21,22 319:16 409:20 314:4,10 315:17 **enable** 15:9 385:3 **evaluation** 4:5 23:4,7 336:12 345:4 354:22 encompassing 410:15 **Epics** 396:13 33:11 34:18 46:17 357:18 358:5 359:10 encounters 50:10 61:6 epidemiological 233:6 348:16 418:10 445:14 412:11 epidemiologically **evening** 179:20 exam 290:19 ended 124:8 174:12 event 78:13 88:22 128:18 **examine** 331:18 279:17 epidemiologist 48:10 90:18.20 91:7.10 **example** 18:17 19:14 **endorse** 152:1.4 **episode** 245:6 93:19 94:1,3,11 97:11 57:21 60:17 64:4 endorsed 7:17 34:8 equal 330:11 102:8 104:11 120:6 67:13 90:22 92:9 99:5 88:7 299:15 366:13 **equated** 132:17 122:5,13 125:13,18 100:13 101:19 106:14 367:15 465:11 equipment 65:1 67:17 143:17 304:12 306:3 110:3,17 114:13 endorsement 12:22 equivalently 102:3 315:10 320:12,13 126:11 143:11 172:15 39:1 43:9 52:21 88:3 **ER** 21:14 125:11 126:22 321:4,5 336:13 183:11 189:18 193:2 437:21 88:11 158:22 160:5 206:18 225:18 238:20 254:3 273:12 274:2 161:13 227:21 228:8 238:20 274:7,9,16 events 4:8 78:11,15 290:5.9 331:10 357:5 395:15 480:21 277:21 279:21 281:7 89:16,17 90:2,6,14,16 376:16 377:20 378:22 489:3 285:8 288:3 289:22 91:16 93:5,10,21 386:20 388:1 endorses 104:22 290:12 291:1 94:12,21 95:3 98:1 **examples** 204:8 388:6 endorsing 11:21 468:7 error 115:14,15 257:2 100:16 102:6,8,9,20 **Excellence** 24:7 26:10 ends 10:9 312:13 262:17 306:18 332:7 103:1,14,15 104:1 162:16 230:20 energy 223:9 349:17 332:10,12,16 334:17 105:22 106:17 107:1 excellent 88:10 89:20 483:21 337:14 107:3,10 117:12,14 166:7 181:15 451:15 engaged 176:1 errors 112:11,16 114:7 117:22 121:13,14,15 **exception** 42:3 487:10 engagement 490:15 114:10 256:22 122:2 123:4 125:9 exceptional 41:22 126:3 127:17 128:19 exceptions 41:11 engagements 19:20 ERs 236:18 **English** 449:7,9 erythromycin 60:22 129:16,16 132:17 excited 295:5 323:17 323:22 342:22 enjoy 464:22 70:16 133:8,17,21 134:3 enormous 108:2 **especially** 37:12 134:20 135:13 139:19 140:21 excitement 343:3 enormously 99:15 152:22 222:20 267:21 147:12 193:12 275:20 exciting 10:3 139:22 281:20 352:14 385:2 304:18 324:15 485:14 exclude 159:22 260:16 401:10 409:2 416:4 485:15 489:10 excluded 106:6 159:10 enrolled 302:14,16 457:8 479:17 487:9 303:18,19 304:22 eventually 28:10 45:4 340:22 451:6 305:6 306:2 314:2,14 487:18 349:21 excluding 57:15 essence 275:14 everybody 9:6 10:2,2 **exclusion** 61:7 268:1 320:4,15,15,20,20,22 essential 449:12 321:5,6 333:13 17:14 25:20 47:13 340:4,18 451:7 essentially 109:1 120:3 86:14,17 88:18 266:5 **exclusions** 159:7 340:2 336:19 353:1,20 enrollees 12:9 159:17 301:7 312:16 325:22 340:13 enrollment 12:9 200:15 establish 178:9 362:19 365:6 390:2 exclusively 197:4 200:16 302:21 320:18 established 117:17 397:17 414:18 469:21 excuse 90:10 150:21

331:2 416:7 443:19 353:21 361:13 481:2 fairness 429:5 471:8 83:4 92:15 110:7.12 470:4 **external** 15:5 146:17 fall 33:18 319:1,2,5 110:15 120:8 164:20 **excused** 469:8 147:3 **falling** 474:21 212:13,14 243:6 executed 141:7 196:21 extra 431:8 falls 465:21 347:16 exist 13:3 52:6 extract 110:4 120:9 **false** 60:4 February 260:5 459:16 existed 283:8 166:4 197:11 familiar 34:9,22 federal 14:16 20:6 28:4 existing 164:16 extracted 110:10 families 226:7 306:12 331:20 353:4 exists 113:14 131:15 119:18 321:17 322:1 333:10 fee 110:22 **extracting** 139:14,15 334:17 366:16 385:11 189:6.12 fee-for-service 23:5 expand 11:17 284:4 extractions 110:6 414:10 466:22 467:1 194:5,6,19 200:1,22 expanded 197:5 extrapolated 150:6 family 1:12,14 4:21 201:10 202:2 211:8 expansion 54:19 **extreme** 76:18 305:9 5:11,14 22:15 25:2,4 feedback 47:17 124:13 expect 35:7 135:9 29:3 133:20 134:1 215:20 217:12 267:7 311:3 193:16 207:4,7 **extremely** 7:19 8:19 176:2 208:20 215:19 269:19 270:16 301:14 298:14 427:22 489:19 extremes 305:9 215:20 216:22 217:4 417:22 418:2,16 expected 207:18 225:8 238:19 320:5 421:9 422:12 424:11 eye 143:2 expensive 283:7 eyes 251:21 252:1,1,9 367:3 370:18 400:13 426:17,19 430:8,9 **experience** 115:6 123:8 414:2,7 435:8,9 436:5 439:15 466:18 468:10 F 469:7 470:13 471:8 123:14 124:1 141:1 454:22 457:12,12 144:4 149:7 155:7 **FAAN** 1:13 459:3,6 461:4,22 472:5 473:3,14 175:14 216:5,7 **FAAP** 1:11 2:7 3:3 462:1,21 465:7 477:21 483:1 397:10 415:11 480:10 466:12 feel 9:7 52:9 129:21 **fabulous** 115:18 480:18 face 79:22 132:20 165:9 family's 163:11 457:1 131:20 134:3 225:14 experienced 461:7 168:12 204:3 291:8 family- 368:8 226:5 229:12 231:4 475:10 faces 10:3 353:9 family-centered 367:2 235:6 293:13 340:11 experiences 149:16 435:14 387:15,17,20 389:9 facet 126:20 experiment 208:6 facility 126:18 159:10 **FAND** 2:4 414:3,13 428:20 **expert** 41:21 42:1,6 159:21 292:13 293:10 far 75:11 77:7 91:13 442:17 443:3 445:8 49:14 92:5 123:2 115:15 132:8 180:12 468:5 474:22 477:6 293:10 124:3,9,14 233:8,8 fact 11:4.10 58:10 202:4 207:10 274:15 477:10,17 485:18 243:2 260:15 268:4.7 83:10 90:21 97:10 348:11 353:12.13 feeling 325:9 349:16 268:11 271:11 368:18 104:10 128:7 136:3 361:10 400:19 438:17 364:18 401:16 **expertise** 8:21 13:12 204:5 205:4 217:15 459:13 467:3 feels 145:18 16:20 235:4 241:19 269:12 farther 316:10 fees 110:5 Fei 1:19 21:10,10 22:1 **experts** 121:8 122:18 319:7 320:18 332:15 **FASHA** 1:13 238:18 368:15 335:10 358:8 359:16 fashion 100:7 153:18 212:22 213:11 298:11 **explain** 80:20 130:10 359:17 381:22 391:6 348:20 308:8 322:6 326:1,22 135:21 232:21 238:3 faster 486:18 395:4,12 412:13 342:18 343:2,5 348:9 260:3 354:21 359:12 415:2,6 418:21 423:6 fatality 49:5 350:12 476:5 477:10 362:12,16 423:13 427:12,17 Fattori 1:18 21:5,6 477:17 478:1 479:7 explained 346:16 179:7 180:5,10 445:10 459:3 476:9 479:16 fell 299:20 419:11,17 447:21 456:21 fact-base 211:20 **explains** 359:15 factor 353:15 407:20 448:7,10,12 449:13 **fellows** 284:3 450:3,7 452:2,5 felt 59:12 70:2 77:5,14 explanation 234:11 factoring 237:21 263:17 307:6 338:9 474:20 475:16 205:15 206:3 209:15 factors 237:21 243:3 explanations 193:20 210:1 231:2 238:22 274:1 330:14 396:11 fear 147:9 explicit 114:11 281:19 facts 418:12 419:2 feasibility 38:18 82:13 311:13 371:1 387:8,9 332:13 fails 357:8 454:19 82:14 84:4,5,14 92:7 400:13,18 486:19 expounded 263:22 failure 222:5 248:4,5 107:18 109:9 111:14 fewer 177:21 179:2 134:9 137:16 138:4 field 76:12 92:20 98:20 **express** 365:22 469:14 271:1 105:21 120:15 146:19 473:10 failures 271:3 138:13 145:10,18 extended 124:6 173:6 fair 134:6 173:12 147:16,20 148:7,9 165:11 301:11 468:7 extensive 112:20 210:22 211:4 212:2 485:19 240:19 263:20 320:22 212:21 213:2 214:6 Fifteen 162:1,2 363:10 149:19 156:9 349:10 463:17 472:5 extensively 113:18 479:12,13,15 483:20 214:10,18 343:4,5 figure 7:6,7 30:12 285:3 fairly 36:20 55:20 97:20 347:14,19 348:6 176:14 221:19 258:16 extent 12:18 163:17 110:12 125:15,17 369:1 381:9,11 263:8 285:15 347:9 234:19 249:9 328:4 133:9 299:19 feasible 13:5 16:22 360:3 471:15,16

		1	1	1
	476:1	120:19 125:20 137:20	99:9 113:9 139:11	184:11,21 185:8
	figured 301:21	164:13 196:12 231:2	146:16 147:4 162:4	205:5 207:15,16
	file 69:2 110:6 197:11	238:14 239:8 240:9	229:10 281:7 288:21	255:18,21 264:21
	201:20 202:12,16	271:2 272:17 279:5	309:16 344:15 355:7	279:11 347:2 384:17
	files 110:4	291:15 295:13 311:10	380:19 447:12 449:7	430:10 473:7
	fill 143:5 379:8 442:11	312:10 317:13 325:21	479:9 480:20 482:22	foundation 14:18 92:13
	filled 51:17 56:8,10,15	329:8,9,10 332:2	follow 171:7 192:22	foundational 163:8
	77:17	333:6 363:15 364:10	216:14 255:12 302:21	founding 485:9
	filling 56:17 388:19	365:6,22 366:5,7	328:11 350:8 435:21	four 7:4 24:16,20 39:16
	fills 95:9 302:17	369:11 397:16 412:20	438:18	40:10 75:2 141:9
	filter 347:7,11	423:1 438:20 456:8	follow-up 33:2 44:20	177:6,18 178:5,9,18
	final 38:22 43:4,8,13	456:15 471:7 473:7	125:10 364:13 371:12	183:22 186:4,6,8,20
	47:21 93:8 215:15	482:17 483:8 485:13	follow-ups 137:21	187:8 219:5 237:7
	274:20 282:2 356:8	486:21	followed 368:18 371:5	256:14 263:9 266:10
	362:18 468:13	first-ever 15:18	following 39:12 94:11	300:21 314:1,4,9,10
	finally 80:12 280:22	firsthand 115:9	166:19 242:11 282:1	314:10,14,19 315:5
	387:13 484:9	fiscal 14:16	289:14 371:6 375:13	315:10 316:7,9,11
	financial 19:7,9,11	fit 35:14	390:20 410:9	320:16 321:4 336:12
	418:17	fits 177:15	follows 148:9	338:20 348:2 356:3
	find 51:2 69:3 72:15	<b>five</b> 7:4 8:20 14:7 48:13	food 229:4	386:21 387:8,21
	91:3 112:5 140:1	49:18,22 93:17 124:8	force 17:6,9 252:2	443:1 458:4 465:22
	209:20 226:17 242:14	139:10 177:5 194:7	469:19	<b>Fox</b> 3:3 13:10,17
	262:3 298:14,18,20	206:8 211:14 240:4,6	forced 354:20	fraction 93:18 128:3
	335:4,18,20 366:17	256:15 301:1 310:6	foreshadow 233:21	302:15 303:19
	391:4 426:11 484:6	323:10 354:21 356:5	forge 226:4	fracture 442:8
	490:12	363:7 364:9 365:17	forget 20:10 332:11	frame 106:5 235:12
	finding 201:14 226:19	373:12 380:22 386:15	406:12	453:10,12
	253:4 256:14	387:11 400:1 428:4	forgetting 41:15 126:21	framework 160:6 163:3
	findings 166:12	434:9 446:4,22 450:1	forgot 95:17 180:21	221:16 278:11 390:14
	fine 30:21 86:19 112:1	450:2 457:15 476:2,6	320:5	frankly 154:12 262:3
	142:21 261:10 <b>finicky</b> 76:14	five-point 133:10 fix 219:4	<b>form</b> 18:4 59:1 239:11 350:3 379:8	486:9 free 229:12
	finish 45:1 306:5	flag 41:21 184:9 401:20	formal 278:11	frequency 94:9 102:18
	460:16,17 464:12	flat 110:5	formally 303:13	128:19 272:2
	Finkelstein 1:20 25:20	flexibility 77:6	format 47:14	frequent 297:21
	25:21 30:14,19,21	flies 133:3	former 284:2	frequently 122:3
	76:10 77:18 78:6,17	flights 363:18	formulas 345:2,9	135:20 164:15 178:11
	193:10 206:14,17	flip 421:15	forth 107:8 113:6 115:8	178:14 219:17 311:8
	235:11 248:20 253:14	floor 1:8 448:17	122:8 146:22 147:8	Friday 489:7
	258:19,21 260:21	Florida 66:9	150:21 155:8 187:10	front 25:18 229:4
	261:2,5,8,10,13,16	flushed 369:2	222:14 385:1	269:17 387:21 412:20
	267:14 277:16 297:15	flux 143:20	forthcoming 15:18 16:7	443:8
	310:9,11,15,19	fly 439:13 472:16	fortunate 20:13	fruit 132:22 229:12
	354:13 392:21 393:20	<b>FNASN</b> 1:12	fortune 47:11 181:15	fruitful 478:4
	404:1 421:13,20	focus 26:17 128:16	Forum 1:1,8	fruition 353:18
	434:12 435:20 436:15	133:16 170:11 233:18	forward 38:17 43:4 45:9	FTE 111:11
	437:13,16,20 444:7	267:10 322:4 336:4	53:1 57:6 95:14	fulfills 150:12
	444:10 448:20 452:8	380:22 391:8 395:22	120:14 142:22 143:1	full 7:13 35:14 109:16
	453:18 470:3,6	396:5 397:16 424:8	166:13 258:16 270:4	274:1 353:2
	471:22 472:17,21 <b>fire</b> 461:11	focused 33:5 111:14	270:6 308:5 317:13	full-service 64:10
	firm 485:11	128:14 163:19 171:10 223:3 248:22 268:20	429:3 435:2 446:12 454:21 469:20 481:7	fully 109:11 397:1 fun 10:13 27:14
	first 18:7 32:4 38:1,3,13	337:18	found 50:12 51:10	function 72:12 280:11
	47:11 53:20 62:5	focuses 50:4 52:12	52:16,19 63:9 99:7	280:12
	63:14 64:15,16 66:4	focusing 104:17 167:2	102:1 122:10,19,21	functioned 99:11 102:2
	75:9,10 79:15 87:4	220:17 390:18 437:22	123:15 128:2 146:5	functions 101:13
	98:18 104:4 105:1,7	folks 37:11 40:2 46:4	150:4 163:21 166:6,8	fund 11:11
	108:16,17 117:10	53:10 59:17 80:4 88:8	170:16 177:20 183:1	<b>funded</b> 11:15
••				'

funding 14:22 28:5 gather 229:11 **goals** 15:1 400:20 401:3 418:18 284:4 God 269:22 424:9 480:9 486:12 gauge 275:22 funny 194:1 327:15 general 17:3,21 213:1 **gold** 50:12 131:15 guarantee 376:15 292:13,16 306:8 404:11 222:21 334:5,14 377:12 further 11:16 12:16 335:1 341:12 357:10 318:10 325:4 339:10 guaranteeing 377:18 43:11 48:3 57:9 60:2 474:4 339:16,22 guard 310:21,22 311:1 75:19 94:15 105:10 generalization 61:13 Gombojav 3:4 365:3 311:6,6,9,12 378:3 123:11 233:14 262:6 generalize 75:17 384:12 405:21 416:3 guess 39:20 46:9 53:19 272:10 274:22 322:5 generally 271:1 278:3 416:10,18 463:12 55:18 57:4 100:20 generate 376:13,15 Google 464:17 110:14 116:4 134:18 332:3 338:9 341:19 344:11 386:9 403:9 422:7 **GORTON** 132:10 149:6 144:12 145:19 148:20 408:13 418:17 generated 120:11 gotten 109:19 209:10 160:14 168:14 171:6 furthermore 123:17 304:16 439:15 173:2 176:3 177:6 generational 179:9 327:22 generations 180:3 government 20:6 191:22 199:9 218:9 future 13:15 130:10 331:20 350:17 218:22 246:6 264:13 generator 109:6 180:18 283:10 grading 44:9 274:11 275:8 310:9 **gestalt** 167:8 Futures 370:15 380:19 **getting** 37:13 47:13 gradually 111:7 328:10 344:13 348:11 380:21 422:2,7 53:16 56:16 111:15 grail 66:16 349:4 360:11,14,17 427:12,12 461:20 120:20 142:20 151:7 grand 208:5 360:21 361:2 398:16 465:11,13 472:19 173:14 177:12 183:18 436:15 468:9 grant 263:9 202:3,16 209:5 211:2 granting 28:5 guessing 297:18 298:4 G 211:11 258:7 277:20 **grants** 19:20 410:1 279:15 281:16 285:15 graph 326:21 341:4 gained 123:14 138:21 **quest** 6:20 298:15 306:2 312:2 **guidance** 4:18 258:22 game 290:4 291:2 358:4,5 318:17 352:19 363:16 293:4,11,22 307:12 299:22 **graphs** 327:19 gaming 146:16 147:10 364:16 379:2 385:4 337:7,9 357:15 363:4 grasp 258:1 157:8 300:6 398:6 408:9.10 409:3 gray 42:22 367:1 368:6 369:18 422:20 457:18 greater 42:18 75:15 370:1,3,8,11 371:2,11 gap 38:11,12 52:20 115:15 135:7 164:4 372:12 376:10 383:2 58:13 61:1 67:1 73:10 qirls 216:12 73:12.12 74:4.12.16 qive 12:3 47:17 48:4 165:20 484:22 390:16 412:14 415:7 75:5 117:5,8,17,20 75:9 88:12 89:3 111:2 greatly 197:5 422:4 445:5,6 480:14 113:21 139:3 174:13 481:3 484:7 485:12 118:11,13,22 156:1 **Greek** 39:13 189:2,3,6,11 192:20 178:20 187:3 205:7 green 429:20 guide 29:10 195:8,12,18,18,22 274:20 281:5 290:7 ground 36:18 97:21 Guideline 243:10 196:9 200:17 253:2 295:3 308:21 342:17 235:7 **guidelines** 42:19 49:20 253:11 254:9 255:1 68:22 366:19,22 345:5,6 363:4 365:13 group 27:11,22 33:17 287:7,8,11 288:11,12 377:8,16 382:16 34:3 57:18 115:22 367:6 368:3 373:1 289:9 302:17,21 420:20 421:8 424:11 118:5 119:22 138:2 461:20 482:14 317:20 318:15 322:4 426:18 430:12 431:8 145:18 163:10,19 quides 143:15 322:8,20,22 323:13 473:1,14 481:2 164:14 168:7,18 guns 389:1 461:22 given 49:12 66:2 91:2,5 399:8,19 400:16,19 169:10 177:2 186:14 Н 91:7 223:22 225:16 401:12 402:1,2,3,3,5 193:13 215:4,12 402:12,17 403:4,9,21 237:21 241:15 260:12 217:6 222:17 238:22 hairs 278:20 406:15,16,18,20 283:7 289:15 376:9 240:2,17 241:12 half 242:17,19 327:4,5 420:8 428:3 447:17 257:12,19 266:17 407:7 446:15,21 327:20,21 358:21 465:3 480:7 269:4 278:7 285:18 390:19 447:3 450:8 448:6,14,22 449:3,19 449:20 450:1,10,12 gives 132:22 143:9 312:3 319:10 325:11 hallway 6:12 305:20 351:15 378:20 372:18 380:15 419:6 450:21 Hammersmith 17:19,20 GAPPS 4:8 26:14 88:21 437:9 458:2.22 460:2 28:18 29:1,11,14,17 462:15 468:3 471:11 89:14 91:19,22 92:3 giving 174:15 321:1 29:20 30:17,20,22 427:16,19 467:4 471:12,16 476:1,10 92:17,20 93:20 94:6 31:3,5 94:14 95:9 98:20 99:1 glad 23:9 73:17 229:20 477:3 Hampshire 328:14 global 89:14 105:15 104:13 129:6 group-related 396:5 329:1,7 330:16 149:20 gaps 34:3 149:19 156:9 grouped 238:16 370:13 hand 62:22 251:20 303:4 317:19 404:19 goal 27:14 222:20 groups 15:3,3 193:16 303:11 304:5,7 355:7 431:19 226:8,8,12 243:14 193:18 222:14 231:10 359:3 365:11 394:11 330:4 351:20 370:7 237:6 238:16 253:9 **Gary** 489:22 467:1 370:14 324:11 372:15 399:15 hand-vote 251:15 gas 282:6 297:18

			506
	070 44 000 40 000 40		
handle 291:22	276:14 363:16 398:10	hearing 36:22 86:2	210:12,16 214:10,14
hands 252:1 254:5	469:13 475:2	196:14 234:20 310:5	227:7,10 231:11
274:19 295:12 355:16	head-nodding 263:21	316:22 355:7 411:18	236:18 241:11 254:10
428:19 440:2	heads 301:9	416:9,16,21 423:4	254:19 275:16 276:16
happen 129:2 134:16	health 2:3,6 3:4,13 4:18	468:12 482:6	281:10 288:13 289:5
151:12 152:14,19	4:19 8:3 14:9,11 15:4	Heart 49:14 243:10	300:2 322:22 323:9
183:20 219:9 223:10	15:9,13 16:1,2 22:5,6	<b>HEDIS</b> 240:22 242:1	331:8 338:15,20
361:12 435:22 437:14	24:19 25:15,18 28:13	297:6 409:16	342:5,11 347:19
459:19	33:21 34:6 44:11 46:9	held 482:10	348:2 355:21 356:3
happened 123:13 385:5	46:18 52:22 61:6	Helen 2:13 414:17,18	405:6 406:21 407:2
385:6 413:17 427:21	83:11 85:7 89:9 94:18	hello 9:21 28:2	407:20 450:13,16
434:18 441:4 442:21	95:12 96:12,13 99:5	help 10:10 14:19 16:20	454:6,10 490:15
459:17 486:16	101:6,12 110:16	17:5 41:7 72:14 90:16	high-quality 84:21
happening 108:22	125:14 126:4,12	110:4 128:15 135:12	high-risk 52:22 106:13
151:19 152:8 155:14	144:5,19 153:1 154:1	195:2 226:17 238:10	higher 146:6 154:6
193:13 205:6 443:18	163:5,14 199:8,13,16	240:11 257:17 272:4	165:18 175:1 193:6
happens 29:1 64:6	199:18,19,22 201:11	284:6 299:10 302:6	194:16 195:3 204:19
124:13 200:8 286:9	201:15 202:4,14	318:14 324:22 330:5	205:10 305:20 319:9
297:19 313:10	208:5 235:4 238:2,5	335:20 343:13 357:22	324:6 325:18 329:4
happy 8:13,13 21:21	239:14 241:5 246:10	364:6 365:8 366:6	330:9,11 334:6,13,17
26:16 58:20 206:22	248:15 273:13 274:2	379:14 390:7 408:21	335:1,2 340:9 347:4
232:8 233:2,10	275:9 284:14,18,22	424:14 442:10 473:14	higher-income/lower
238:12 239:4 256:3	307:16,17,19 328:17	484:12,19	403:16
272:6 386:10	329:6 367:4 368:10	helped 456:20	highest 58:6 130:14
hard 6:14 10:9 17:14	368:16 373:13 377:1	helpful 83:14 97:7	137:4 193:1 325:11
83:9 104:2 116:19	377:1 393:17,17	132:16 268:21 318:17	339:20
217:20 258:15 261:17	398:3 401:14 411:9	361:19 365:19 415:17	highlight 16:13 87:2
270:3 282:5 295:4	412:22 415:5 418:19	458:13 479:5 483:5	378:17 379:3
416:9,20 467:9	431:13 435:9 442:2	484:2	highly 17:11 51:3 52:10
490:17	461:20 467:7 476:7	helping 35:17 366:1	52:16 144:13 178:4
harder 112:11 490:1	484:12	helps 12:22 86:15	339:11
harm 89:17 99:8 105:17	healthcare 1:13 8:3	178:20 364:6	<b>hinges</b> 316:3
114:12 129:13 133:19	14:11 15:19,20 26:6	hematologist 63:12,18	hire 143:4
148:15 152:14 397:12	27:18 29:8 50:10	64:7 65:5	<b>Hispanic</b> 449:7,9
harms 128:15 396:12	59:14 95:10 96:14	hematologists 63:21	Hispanics 448:1
396:21	126:1 172:19 224:1	64:18	history 150:17 216:18
Harpster 1:21 21:2,2	249:2 307:14 320:14	hematology 67:15	283:15
100:20 101:22 102:4	367:13 398:3 410:8	hemoglobin 49:1 50:3	hit 311:4 397:21 420:5
102:12 103:5,8 106:3	413:8 421:2,11	heroin 91:4	467:10
106:12 117:7 124:17	429:22 435:12 443:12	HERSA 465:12	hits 276:13 311:16
131:9 132:3,7 142:5	444:2 445:1 455:7	hesitate 47:16	hitting 206:20
148:19 149:2	456:18	<b>Hey</b> 190:4	<b>HL7</b> 110:5
Harvard 3:6,11,17 26:1	healthier 13:14	HHS 17:1	hold 48:2 111:13 153:4
hassle 333:3,8	healthy 229:13 366:12	<b>hi</b> 10:19,21 17:19 21:10	154:10 188:10 246:10
hassle-of-coverage	399:22	24:12 25:20 28:21	259:4 261:5 293:5
351:18	hear 48:7 97:7 119:9	48:9 68:17 162:14	306:20
hat 216:4,8 352:12	203:20 230:12 247:15	230:10 365:1	holding 146:5
476:7	267:4 272:18 276:13	high 49:4 50:14 51:11	holy 66:16
hate 160:10	281:2 319:11 383:19	72:3,6 73:1 74:17	home 8:16 16:1 232:12
hats 216:2	386:18 399:17 400:1	75:1 79:2,8 80:8 82:3	238:1 249:8 273:16
haul 363:17	415:17,22 422:10,11	82:7 84:6,10 86:5	274:3 363:7 367:4
Hawaii 213:14,17	428:11,11 430:15	87:16 107:10 112:7	431:7 432:1,14,17
•	487:15	118:14,18 121:4	461:11 463:3 467:9
327:15 350:20 351:1		122:10,21 130:9,15	468:4
327:15 350:20 351:1 havwaqon-full 390:16	I <b>HEALU</b> OU.9 TUO. IZ		
haywagon-full 390:16	heard 60:9 108:12 238:7 253:22 307:9	145:19 147:21 148:3	<b>homes</b> 183:15.16
haywagon-full 390:16 haze 481:11	238:7 253:22 307:9	145:19 147:21 148:3 153:4.5 158:6.10	homes 183:15,16 homework 139:12
haywagon-full 390:16 haze 481:11 hazy 480:13	238:7 253:22 307:9 317:16 318:6 324:17	153:4,5 158:6,10	homework 139:12
haywagon-full 390:16 haze 481:11	238:7 253:22 307:9		1

	İ	İ	Ĺ
honor 31:13	317:15,20 318:1,4	97:22 104:1 110:1	301:6,7 317:6 326:16
Honorable 428:12	321:11 323:17,20	121:14 134:4 163:4	333:16,18 350:1
hope 10:13 105:3	324:1 328:10 330:7	181:5 239:12 248:10	354:15 355:10 371:2
150:22 248:8,12	339:9 341:2 342:22	271:3 378:1 431:19	401:7,17 421:21
468:7 469:17 473:4		449:9	465:8 488:11
	345:11,13 352:3		
hopeful 81:10	359:4 412:8 429:19	identifying 103:13	importantly 49:6
hopefully 13:12 59:17	440:4,8 444:16 459:2	154:14 197:21 240:22	impossibility 263:5
134:4 138:7 142:8	474:3	ignoring 304:8	<b>improve</b> 8:3 14:19
385:5 482:13	<b>huddle</b> 428:5	<b>IHI</b> 149:20	84:21 104:2,8 115:1
hoping 182:8	huge 99:16 101:2	<b>II</b> 165:1 188:5	134:4 163:14 205:20
<b>Hopkins</b> 2:5 4:19 46:8	190:12 401:11 409:4	ill 412:11	284:19 343:12 349:3
hospital 1:16,17,18,20	475:22 490:14	Illinois 1:13 22:7 66:8	369:4 370:17 378:21
1:22 2:1 3:5,6,7,11,11	Human 2:9	73:15 331:9,10	380:6 382:3 383:2,6
3:17 4:16 21:7 23:13	Humira 61:11	illness 135:11,17	390:7 392:11,14,15
23:19 24:15 25:10,22	hundreds 75:13	239:16 240:3 285:12	422:14 427:15 473:19
26:12 27:9 63:20	hunting 69:1 381:3	285:20	484:12,19
89:10 91:4,8 92:22	hurdle 232:2 256:7	image 136:2	improved 36:13 98:2
93:1 98:14 106:6,9,10	hurdles 234:16	imagine 280:13 384:8	116:3 123:15 169:11
108:20 110:9 114:1	hurting 279:17	imbalances 133:4	170:4 187:8 206:2
127:15 129:10,19	hybrid 201:13	imbedded 215:3	391:1 394:7 423:5
136:14 137:22 138:2	hypothesis 201:8	immediately 237:16	improvement 14:21
144:4,15,15 150:1,2,2	hypothesis 201.0		15:2,4 21:18 34:2
		immensely 83:14	1
151:12,14 152:19	: 074:0	343:13	52:6 57:21 73:20
157:4,5 226:9 275:11	i.e 274:2	immune 61:8	81:15,15 104:15
280:15 283:5 301:18	ICC 451:14	immunizations 57:22	105:4,6 149:12
466:10	ICD- 341:9	248:16	150:11,16 151:13
hospital-acquired	ICD-10 197:4,7,8,12,15	immunosuppressive	152:6 154:15,20
125:21	197:18 198:3,7	61:10	272:4 276:1,19 371:8
hospital-based 122:21	ICD-9 197:11,15,18	impact 52:11,22 141:17	371:13 374:14 382:20
hospitalist 8:5 23:12	198:6 341:9	179:17 269:14 273:19	389:11 399:11,16
89:8	ICS 242:16	273:21 340:18 392:13	401:2 402:18 423:9
hospitalization 126:13	ICU 102:17	impasse 44:18	423:18 424:12 457:20
285:6,13 324:19	ICUs 103:1	implausible 193:15	458:19 461:17 473:15
hospitalizations 126:8	idea 56:2 87:6 99:14	implement 213:2	improvements 15:6
164:4 209:7,15,16	141:21,22 142:1	473:13	67:4 95:13 206:7
213:20 214:2 242:2	145:1 154:8 173:14	implementation 146:18	improves 103:20
hospitalized 347:3	232:1 239:6 248:14	implemented 383:1	276:10 307:17
hospitals 3:5,7 64:11	308:21 382:18 392:18	implementing 15:2	improving 28:13
89:21,22 90:1,8 92:19	424:21 484:10	284:9	115:18 154:13 423:13
93:7 94:17 95:4 96:5	Ideally 96:4	implications 277:5	in-person 19:22
98:4,4 104:7 105:14	ideas 23:20 473:12	implies 243:13	inadequate 347:7
109:11 110:18 117:13	identical 456:3	importance 7:14 38:2	inadvertent 167:11
128:15 134:11,16	identifiable 4:13,15	41:18 112:15 217:19	inappropriate 271:20
135:2,6 136:4,9,10	229:16 239:12 240:5	important 7:20 8:1 11:3	283:21 287:19 298:3
138:7 140:1 149:8,11	240:10 242:15,18	11:6,9,13 12:2,4,20	inappropriately 59:13
149:13 151:1 152:11	245:14 267:20	16:21 52:10,19 54:17	incentive 344:3
153:22 224:7 235:4	identification 103:19	55:7,9 56:1 103:6	incentives 418:18
279:14 328:6	122:13 129:13 292:10	127:7,10 133:14	incentivize 222:13
hot 23:9	identified 34:3 39:13	143:1 144:1,6 146:21	incentivized 221:7
hour 413:17 482:20	50:21 53:22 91:2,6	147:14 148:14 154:10	incidence 49:11 52:14
hours 95:5,7 106:7,16	92:19 93:15 98:21	156:15 173:11 175:20	incident 94:8 361:16
132:4 141:9 218:20	103:11 117:14 121:12	175:22 178:6 179:14	incidents 93:15
255:14	241:2,17 343:20	179:21 195:11 220:19	include 15:9 25:13
	1	222:22 223:5,13	
house 225:9 387:11,17	380:6		33:12,14,16 44:8 69:9
389:2	identifier 182:2	225:6,21 226:5,16	70:15 94:13 100:8
housing 246:4	identify 50:9,15 52:7	254:3,16 271:21	126:10,14 164:2
Houtrow 2:1 28:2,3	55:15 59:3 63:15,15	274:13,18 276:18	268:8 340:15 461:21
152:21 307:8 315:11	66:1 90:2,17 91:16,21	277:17 285:21 295:1	included 66:5 70:14
II	1	I	1

II
92:16 125:18,21,22
126:13 165:5 171:19 172:4 183:21 185:13
194:4 205:8 237:6
238:19 260:17 324:11
369:5 416:13
includes 125:14 410:9
457:14
including 16:1 32:22
33:19 59:9 92:9
101:13 148:10 183:18
200:1 237:8,9 238:9
268:12,13 332:7
412:11 442:3 444:3
488:9
inclusion 91:22 92:3 income 313:9 319:10
325:11 328:16 329:12
334:17 362:2
income-eligible 325:16
incomes 210:3 328:12
328:15 334:14 335:1
335:2
incomplete 194:13
incompleteness 77:15
incorporation 217:21
increase 13:1 55:16
163:12 242:21 279:14
331:12 412:13 423:9
increases 81:9,10
185:8
increasing 207:16
incredible 8:22 192:12
incredibly 26:17 140:22
141:15 297:17 483:12
independent 212:9
independently 93:7
indeterminate 356:16
index 164:9,10,11,19
171:10 177:21 204:19
204:20 205:2,10
215:8 256:11,18
285:11 452:14
indicate 60:12 370:10
indicated 94:10 123:6
270:18 461:19
indicates 49:4 52:5
indicating 190:11 indication 11:13 338:3
indicator 11:9 331:6
indicators 245:11
246:21 367:12
individual 85:9 94:8
113:20 275:11 307:16
333:3 391:2 413:5,6
417:18,22 418:1,3,13
418:15,19,22 420:4,4
421:9 422:17 423:19
II

```
425:16,21 427:18
 429:10 430:19,21
 432:11,14,18 433:7,9
 440:17 445:15,17
 458:13 476:10 484:19
individually 113:5
  157:17 365:11 422:13
 471:14
individuals 19:2 198:14
 471:12 475:5
ineligible 305:17 309:7
 309:14 333:7
Infant 15:4
infection 48:22 49:11
  49:14 52:15 125:22
  125:22
infections 49:3,6 60:18
  71:14 85:1 237:13
inferred 116:3
inferring 115:19
inflated 232:2
influence 157:19 247:4
 254:2 273:1,3 288:1
 295:11 330:14
influenced 190:7 359:7
inform 17:5
informally 419:20
Informatics 22:6
information 6:18 18:6
 43:11,22 97:6 158:8
  195:3 241:4 258:13
 263:22 265:5 266:21
 267:18 271:13 294:11
 354:1 356:20 373:19
 377:9 378:9.20
 382:15 400:14 411:15
 433:13 437:9 439:5,7
 443:4 458:14 479:5
 482:8 490:10
informed 4:16 301:17
 302:5 304:9 327:6
 329:10 330:9,10,11
 330:18,22 334:7
 339:17 341:4
infrequent 274:17
inhaled 242:10
initial 92:14 93:11 95:1
  135:15 278:16 417:3
initially 278:7 368:21
  417:9,12 425:7 430:3
Initiative 3:4,13 4:19
  15:4
injuries 34:5
injury 89:19 373:15
  377:2 411:3
```

innovative 349:6

105:22

inpatient 92:18,21

inpatients 107:5 input 17:7 112:22 117:22 217:19 421:11 460:18 **inside** 142:12 insight 128:14 **insist** 151:16 instance 144:7 Institute 3:2.8 49:15 162:18 instituted 331:11 institution 100:3 104:20 107:19 108:22 109:2 111:9 121:22 126:9 133:3 146:12 153:19 159:12 294:21 295:17,18 299:19 institutional 108:5 109:18 128:16 133:2 146:3 institutions 99:4,17 100:22 101:5,10 109:4 113:5 123:17 143:2 147:2,7 150:14 151:17 159:16 295:21 374:14 instructed 357:12 instruction 373:6 instructions 373:7 420:8.20 instrument 371:17 394:21 395:4 396:9 404:19 405:4 455:2 instruments 395:8 insufficient 72:3,8 73:3 74:18 75:3 79:4,10 82:5,9 84:8,13 86:6 87:19 118:15,21 130:21 131:4 137:9 137:13 145:20 148:1 148:5 158:8,12 188:15,19 196:2,6 203:3,7 210:14,18 214:12,16 227:8,12 254:11,22 261:22 265:4,22 266:10 269:18 281:11 288:15 289:8 294:5 300:15 301:1 323:2.12 338:17 339:1 342:7 342:13 347:21 348:4 355:22 356:6 406:22 407:5 450:14,19 454:8,12 insurance 65:19 302:22 303:1,16 306:1,14 307:17 313:20 314:4 314:13 321:7,7

insured 213:16 306:13 307:16 314:7 477:4 integrated 144:11,13 integrates 282:20 integrity 146:3 201:16 intending 215:7 intensive 102:18 140:8 intensivist 102:21 intent 388:17 477:11,18 intentions 388:1 inter-259:2 inter-rater 259:11 inter-unit 451:14 interact 488:3 interclass 407:21 interest 4:4 17:18,22 18:3,21 19:6,8 20:7 224:14 233:2 343:22 466:3 487:3 interested 19:20 99:9 111:8 152:10,13 213:6 482:19,22 interesting 55:12,14 156:18 167:19,21 180:1 260:15 270:3 308:20 316:18 331:9 334:1 351:8 471:10 473:8 interestingly 191:14 213:19 interests 19:8 25:13 272:7 Interim 26:2 intermediate 339:6 internal 147:3 149:12 154:13 486:6 internally 361:4 486:13 interpret 205:20 234:4 328:8 358:4 400:15 482:21 interpretation 152:16 272:1 276:10 324:6 interpreters 401:14 interrelationship 295:9 interrupt 260:20 interval 262:18 263:1 328:1 345:9 intervals 232:5 257:5 262:21 326:6 327:3,8 327:14,18 341:3 344:20 360:13 361:11 361:15 intervention 126:2 208:2 393:19 398:5 430:1 interventions 207:8 235:5 246:3

intrinsic 300:5

introduce 45:19 89:2 406:9,10 428:17 154:17 199:5 264:1 347:18 348:1 355:19 162:11 301:22 442:9 456:3 457:18 267:12 288:5 293:20 356:2 398:22 406:19 introduced 194:1 461:7,13 462:1 295:13 297:4 371:15 433:19 434:2,6 446:2 introduces 260:12 465:16 480:8 481:12 371:16 381:21 394:12 446:13 450:11 454:5 introduction 4:5 36:7 481:20 482:6 483:19 473:16 454:18 460:5 464:1 485:8 job 8:10,14 20:13 26:1 468:14,21 488:18 369:10 introductions 4:4 9:12 it'll 334:1 31:13 103:13 275:19 489:13 490:4 item 294:3 295:15 31:19 300:3,4 304:6 329:19 justice 355:13 intuitively 134:22 296:2 297:10 378:17 335:18 348:8 362:20 173:10 395:1,21 397:21 **John** 1:9,11 7:21 9:6 invalid 426:3 451:11 458:16 20:19 47:9 76:8 88:16 Kaiser 20:21 115:6 invaluable 36:5 item- 376:18 127:12 284:12 363:5 172:14 285:3 416:5 invasive 48:21 item-level 296:2 396:3 392:22 403:22 421:12 416:11 417:3 418:8 invested 153:2 396:6 428:12 441:13 448:19 447:2 450:3,6 480:2 itemized 375:17 382:1 452:7 468:4 470:3 investigating 94:20 Kaisers 224:6 471:21 investigator 26:10 items 294:10 295:15,19 **kappa** 94:2,4 invitation 490:5 295:22 368:4,5 **John's** 2:5 414:21 kappas 297:9,12 **Johns** 4:19 46:8 invite 47:3 195:13 372:12,21 373:4,5,9 Karen 1:15,21 2:14 3:9 Johnson 2:14 24:13 257:18 375:6 376:3,8 381:1 10:17,20 13:17,19 inviting 365:21 394:21 395:15 396:17 joined 45:18 46:5 89:10 14:17 15:12 17:4,16 involved 19:13 24:8,11 407:16,17,20 418:15 joining 35:22 36:4 21:2 23:1 100:19 26:14 137:18 146:4 455:8 457:15 461:10 **Jon** 25:21 193:9 206:13 117:6.6 124:16 131:7 156:5 217:13 233:7 488:15 267:13 277:15 278:5 148:17 233:16 262:14 321:10 368:15 417:3 297:4,14 298:12 268:17 462:10 467:22 466:21,22 467:15,16 310:8 323:4 354:12 479:19 480:3 482:16 involvement 164:5 Jon's 223:12 **James** 1:13 127:13 484:3 **IOM** 28:12 274:20 Jonathan 1:20 235:10 **Kate** 2:16 6:9 31:20 **IRB** 232:11 263:6,8,10 253:13 258:20 260:19 32:10 39:17 40:13 **January** 260:7 irrespective 65:20 judge 269:16,17 293:18 **Jeff** 2:8 7:21 9:20 20:11 keep 35:10,18 43:4 45:9 isolation 120:19 24:1 53:7 57:12 59:22 444:19 47:15 107:12 143:2 issue 53:22 54:10 55:1 69:15 70:18 73:9 judged 387:20 422:19 162:9 216:22 219:6 55:2 69:15 83:3 138:5 75:19 80:13 82:13 judgment 239:2 243:18 223:1 229:1 239:7 144:7 152:17 153:10 85:5 110:13 111:19 390:14 245:9 247:10 287:2 175:9 195:6 197:22 132:13 151:3 160:2 judgmental 387:10 292:4 299:13 379:2 168:22 177:2 181:17 211:4 235:8 238:9 July 314:21 445:16 466:4 246:17 255:11 260:2 191:1 195:2 213:13 jump 56:9 234:16 keeping 6:14 143:21 260:3 273:15 274:5 245:21 267:5 279:4 jumped 317:21 480:12 326:1 318:17 319:12 320:10 280:22 313:1 315:20 **June** 489:4 keeps 482:10 321:15 325:10,15 322:14 332:21 344:10 Jung 2:15 31:22,22 **Keller** 2:2 23:15,15 326:16 335:18 336:5 351:6 359:8 374:15 72:5,11,16,20 74:15 68:17,17 146:1 176:7 337:12,20 341:5 390:11 406:7 424:18 74:22 79:1 82:2 84:5 176:12,17,21 180:20 346:3 349:22 351:12 426:1 449:2 453:22 86:3,9 87:8,11,15 181:2 182:12,16,20 351:18 357:1 384:13 483:7 487:22 88:2,9,11 116:10,16 182:22 183:3,5 192:6 389:16 414:5 423:11 Jeffrey 1:9,11 3:11 116:18,20,22 118:12 192:15 223:12 269:9 426:14 427:5 435:13 118:17 130:19 131:1 269:21 279:4 280:17 302:3 137:2 147:20 158:5 440:11,15 441:5 308:17 332:5 343:18 **Jersey** 251:9 447:22 474:4,6 **JHHS** 2:5 161:6 188:10 195:21 349:12 350:9 380:17 475:13 483:16 484:5 Jill 2:6 22:12 68:1 96:20 202:22 210:11 214:9 381:16 385:10 402:15 484:9.15 486:2 96:20 117:6 118:1 227:5,20 228:4 430:15 431:4 432:7 issues 43:12 53:17 86:8 119:4 131:7 132:9 249:20 250:3,6,8,12 432:11,16 433:3 86:10 148:10 154:14 138:12 148:16 166:20 250:17,20 251:3,6,12 440:11 449:5 462:17 201:16,19 232:11 177:3 208:8 218:13 254:8,18 265:20 464:16,22 466:5,8,17 235:17 255:3 259:18 244:4 312:22 334:11 266:2,7 286:6,14,21 467:14 469:9,12 261:1,12 267:16,18 345:16 352:5 361:21 287:2 288:12,17,20 Kerri 1:19 21:10 298:10 268:15 273:11 289:11 383:17 420:17 424:18 289:2,4 296:16 308:7 322:4 337:21 289:12 293:19 295:10 427:9 443:10 449:20 300:12,17,20 317:2,8 341:16 342:16 348:7 340:17 341:11 355:8 458:1 478:7 322:21 323:8 338:14 476:4 361:17 393:12 401:14 Jim 27:16 127:14 338:19 342:4,9 key 57:2 218:4 233:21

II			3_3
271:11 295:10 370:1	371:19 372:1,4,8,17	142:2 151:9 160:9	lesser 176:19
409:2	374:10 399:10 400:17	161:17 181:1 195:10	let's 8:11 34:22 62:15
kick 167:1 369:14 407:9	401:5 416:15	196:16 206:16 220:5	67:22 81:22 85:19
kicked 320:7	<b>KPNW</b> 400:9	225:3 226:14 227:2	87:8 96:17 161:4
kicks 311:14	Kraig 2:3 46:15 322:10	228:3 236:12 237:17	166:20 170:19 192:5
kid 225:11 249:5 290:22	344:7 350:15 455:11	244:19 249:12 251:1	192:17 203:11 227:4
314:11 414:11 445:5			
kid's 315:6	455:12,12,13 461:1	251:11 252:3,10 270:1 286:13 298:9	229:3,18 233:22 250:12 251:12 253:2
kiddos 225:21		308:15 309:4 310:13	267:10 272:13 273:7
11	laboratory 65:1 99:22		275:14 279:2 286:4
kids 12:16,19 54:16		310:18 317:22 323:19	
58:1,4,5,10 64:8	labored 282:7	342:21 345:14 350:6	287:7 288:10 289:10 305:12 311:20 317:1
65:12,16 66:3 68:20	labs 101:13,19	387:1 395:6 401:19	
77:11 85:12 176:18 177:9 178:17,18	lack 44:13 58:7 81:15 125:12 127:3 443:8	413:18 <b>launch</b> 369:10 459:16	317:12 322:2,3 325:20 328:21 334:9
179:2 186:15,16		laundry 372:11	338:13 339:8 347:17
191:20 192:8,12	lacking 89:22 laid 400:18	<b>Laura</b> 79:5	355:17 363:20 364:3
194:19 219:5,12,16	landed 486:8	Lauren 1:12 28:20	374:17 379:20,21
237:10 275:6,10,18	<b>Landrigan</b> 3:6 89:5,8	60:10,12 74:5,19 76:2	394:10 398:20 399:7
302:10,16 304:1	95:20 96:2,5 98:12,17	79:18 83:18 85:14	406:14,17,18 413:11
305:4 313:7 314:1	101:4 102:1,11,14	125:7 183:8 200:6	419:19 433:18 434:21
316:14 319:10 321:18	103:6,16,21 106:11	288:17 435:15 446:17	446:15 450:22 458:1
325:19 328:22 329:1	106:20 108:15 112:13	446:19 451:1,2	462:9 474:19 486:17
329:1,2 333:3 335:5	112:17 119:13 121:9	459:11	level 16:17,19,22 17:5
335:12,20 340:8,8,21	121:17 119:13 121:9	Lauren's 452:3	85:6 109:18 122:7
346:19 347:3,5 349:3	125:19 127:2,5,20	law 353:4	124:9,14 130:12
362:8 386:21 387:7,8	133:6 135:14 136:19	LAWRENCE 3:5	133:2 136:12 137:20
387:20 400:8 414:7	139:8 140:13,16	lays 59:1	151:13 152:4,4
438:4,5 461:9	141:21 142:1,15	lead 17:21 22:20 44:11	154:16 165:1 169:5
<b>Kim</b> 162:20 173:21	144:17 145:6 146:20	47:17 98:1 125:12	188:5 191:4,9,9
KIMBERLY 3:2	150:9 153:16 159:13	181:11 203:13 214:21	193:13 201:12 206:8
kinds 302:18 401:15	159:18	233:15 257:18 386:9	223:22,22 224:2,11
418:18 431:3	landscape 335:10	391:16 433:8	224:11 247:3 258:7
Kleinman 3:5 229:21	language 226:3 373:14	leaders 104:6	271:10 275:9 277:4
230:6,10,12,15	401:10 404:21 408:10	leadership 7:22 22:6	292:6,17 294:3,4,9,12
238:12 240:14,18	447:22 449:16,18	223:9 480:5	294:14,15,16,17,18
244:10 245:7 247:1	languages 405:16	leading 89:18 141:2	297:10 308:1,2 324:4
247:17 251:9 252:5,8	lapse 323:6	484:21	337:19 343:12 345:22
256:1,3 262:8,13	lapsed 353:8	leads 84:15 173:9	350:1 355:9 397:21
263:14 264:16 270:9	large 25:10 33:11 52:19	272:13	403:21 405:5 415:15
270:11,15 272:16,18	66:11 90:1 100:4	learn 370:13	415:16,19 416:11
276:7 278:5 280:16	101:4,12 117:16	learned 110:18 312:7	417:2,13,14,21
282:11,14,16 284:9	123:4 136:13 150:1	483:10	418:14 421:17 422:17
294:6,8,15 296:6,9,11	169:14 189:13,22	learning 124:20 141:6	425:21 426:11 429:11
299:9,14 301:13	190:7 224:5 403:17	141:12 146:4 373:14	431:2,2 432:6,12
knew 314:9 336:17	449:6	442:4 447:14	433:7 439:1 445:1
359:7	largely 49:6	leave 26:16 29:22 30:13	447:6 451:12 458:16
knowing 321:15 345:18	larger 166:7	30:16,22 300:6	461:12 472:15 474:4
348:14 383:18 457:18	largest 51:21	319:20 361:20 364:15	482:9 486:3 487:12
knowledge 51:20 115:9	Larry 230:12 278:18	460:20	490:15
163:11 429:9	lastly 125:14	led 126:12 338:4	levels 16:8,14,16
known 245:2 471:13	late 210:3	left 263:5 364:17	100:14 165:2 205:1
knows 102:20 175:19	Latino 449:7,11	431:20	319:7 362:2 416:13
225:8 346:10	Laughter 7:10 8:8,15	leisure 265:7	417:19 481:14
Knudsen 2:3 46:15,15	20:15 21:22 23:22	lend 11:5	leverage 352:19
308:14 322:11 344:8	24:21 26:19 31:2	lending 13:11	life 8:13 144:20 442:10
350:16 461:3 462:6,8	39:19,21 40:17,20	length 132:4 233:3	lifetime 436:11
Konek 2:4 27:7,8	82:20 97:2 116:21	400:21	liked 56:2 408:2,17
369:15,17 370:22	140:14,19 141:20	lenses 129:20	424:10,11
<del></del>			

II
likelihood 165:20
literacy 401:14 literally 8:10 263:11
455:22
literature 53:21 54:5,14 54:22 55:7 71:1,5 91:21 97:15 103:12 103:18,19 105:9,10 105:11 112:22 119:16 119:19 129:8 149:15 163:15 164:22 165:3 217:9 246:6,7,7 249:5 264:17 292:10 303:13 304:19 316:6 384:14 384:15,17 little 9:16 39:9 47:12 54:8 60:15 62:22 70:15 77:6 80:17,19 84:17 98:5 100:16 105:9 106:18 115:9 119:9 121:3 124:1

```
130:6 132:2.19 139:3
 139:11 140:5 142:19
 149:10 153:15,19
 187:2 193:12 199:9
 201:6 206:2 207:3
 224:20,21 226:6
 228:22 232:13 233:18
 234:21 235:22 240:11
 255:7 256:12 257:21
 257:22 258:13 266:19
 268:20 275:21 276:20
 280:18 313:22 315:13
 318:6 340:11 341:13
 365:8 369:19 380:5
 384:9 389:10 414:17
 416:8 419:20 447:11
 451:3 459:19 465:4
 466:6 468:3 474:11
 477:6 478:14 480:13
 482:20
live 24:17 108:6 110:20
  111:11 120:10 124:15
 319:4
lived 175:14
lives 52:12 64:4 213:16
living 464:22
LO 3:7 230:2,6
loadings 407:20
local 110:9
located 25:14
location 169:17
log-ins 83:12
logic 167:9 435:21
 437:19,21 461:14
long 7:6,8 22:17 69:2
 111:3,10 161:22
 179:17 302:21 303:1
 354:5 363:17 385:11
 386:22 464:18 482:4
 490:16
long- 68:20
long-term 22:20 163:5
longer 18:4 22:10 37:20
 47:13 319:3,18 442:5
longstanding 135:18
looked 53:14,15 54:11
 54:21 59:3 112:4
 113:3 117:14 120:15
 123:13,22 124:2
 125:15 135:5 174:9
 179:8 180:3 190:13
 194:15 199:12 206:7
 207:13 209:2 231:21
 244:10 264:19,20
 285:2 299:18 309:13
 312:17 329:15 331:10
 333:1 341:3 346:16
```

```
400:2,4,11 415:6
  447:2
looking 19:11,12 28:15
  41:13,16 53:20 56:3
  71:4 72:1 87:5 95:1
  97:19 109:19 138:18
  142:9 169:19 172:8
  172:18,22 173:5,7
  180:3,15 187:4,14
  190:5 200:14 204:22
  205:1 206:17 221:9
  241:11 242:2 246:21
  253:8 262:6 263:20
  264:13 275:4 279:7
  279:20 289:22 292:7
  295:2 305:10,11
  307:13 308:22 333:14
  350:19 362:2,6
  371:17 378:10 391:11
  391:15 394:2,8
  395:16 396:8 405:12
  433:4 435:7 441:21
  444:4,8,10 455:17,22
  455:22 460:8 464:4
  486:13
looks 71:22 76:7
  142:14 234:9 247:8
  248:1 254:13 303:14
  323:3 341:12 357:20
  379:9
loosening 59:8
lose 60:5 333:20 343:2
losing 451:18
lost 60:4 189:22 190:1
  345:19 446:16
lot 18:5 50:3 60:4,14
  63:8 73:14 77:9 81:14
  111:5 131:21 132:11
  136:2 155:12 157:4
  159:16 167:9,16
  168:6 189:15 195:2
  204:2 220:3 221:2,12
  221:13 223:17 225:1
  234:11 257:17 261:1
  274:19 275:6 281:19
  287:13 289:20 290:3
  291:3 297:11 298:12
  298:18,20 310:6
  311:7 313:6 324:17
  332:11 334:8 335:7
  353:14 364:9 365:12
  377:8 379:20 386:4
  386:10 388:17 397:14
  397:15 401:1 406:9
  413:15,16 414:12
  444:20 457:14 467:5
  473:11 480:19 481:11
  481:20 483:10,21
```

lots 25:12 101:16 177:10 244:17 lottery 319:18 322:1 331:3 335:9 loud 486:12 Louisiana 66:9 love 152:18 175:16 207:21 223:12 260:3 387:4 loved 359:5 **low** 71:2 72:3,7 73:3 74:2,17 75:2 79:3,9 82:4,8 84:7,12 86:6 87:18 118:14,20 121:4,11,16 123:3 130:21 131:3 137:8 137:12 145:19 147:22 148:4 158:7,11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 231:10 241:6 254:11 254:21 265:22 266:9 275:5 276:17 281:14 281:14 288:14 289:7 300:4,14,22 323:1,11 328:12,15 331:8 337:10 338:5,16,22 342:6,12 347:20 348:3 355:21 356:5 360:16 392:10,19 406:22 407:4 416:11 450:14,18 454:7,11 473:18 low- 77:10 lower 131:12 164:2,3 165:19 166:10 193:7 194:15 206:19 319:8 325:12,14 333:14 334:14 339:19 403:18 415:16,19 lowest 192:22 238:22 319:10 lucid 53:6 lucky 225:14 **lumped** 463:1 lunch 6:16 224:19 226:21 229:2 Lung 49:15 243:10

#### М

M 182:11 MA 1:12,14 2:4 MACs 65:17 66:21 166:4 194:12 195:4 201:20 202:12,16 209:22 305:3 343:8 343:19 344:17 345:18

346:22 347:8 396:4,6

ı	1	
	346:1	margin 320:10
	mad 477:18	mark 3:10 89:10 321:1
	Madison 2:15 31:22	420:5 448:6,9
	40:1 489:11	marketing 351:12
	magnitude 110:15	marketplace 12:8
	207:1,4,7	Marlene 2:5 29:12,14
	mail 414:3	45:22 46:7,21 62:21
	main 164:17 204:4	71:9 72:10 79:6 106:
	maintain 37:17,17	107:15 111:12 114:1
	333:3 376:17	155:3,5 166:21,22
	maintaining 352:17	184:9 189:10 190:4
	Maintenance 382:21 major 37:1 132:18	196:12,15 203:18,22 212:2 273:8 287:17
	299:20 406:13	Marlene's 144:3 174:7
	majority 45:1 66:3 90:1	Martha 1:12 22:4
	100:4 101:5,12	379:22
	186:13 205:4 327:17	Martha's 379:22
	making 11:2 82:22	Maryland 64:5,6 67:14
	146:13 187:7 224:1	68:11,14
	225:11 258:5 266:22	Massachusetts 2:7
	309:12 332:13 338:4	22:16,19 192:7
	man 308:13	334:21
	managed 4:13 15:22	MassHealth 22:18
	24:5 105:19 194:6,9	matched 264:9 346:19
	194:13,16 199:14	matching 244:6
	200:1,22 201:9,19 202:1 211:2,8 229:16	material 262:1,2 materials 59:18 253:12
	242:5 243:12 346:4	255:5 483:13 484:2
	346:12,18 347:1,2	490:11
	481:16	Maternal 15:3
	management 15:15	mathematical 259:13
	33:3,5 300:4	MATSUOKA 3:9 10:20
	manager 2:16,20 6:10	matter 13:2,6 19:14
	31:18,21 39:17	162:5 229:7 358:3,3
	219:18	363:12 428:6 437:3 490:21
	managing 239:15 mandate 315:15	matters 276:19 279:11
	Mangione-Smith 3:8	<b>Maureen</b> 1:16 24:13
	24:7 162:14,15	60:10 62:12 70:13
	173:13,20 174:4,18	74:7 76:5 79:15 83:2
	183:13 184:4 186:5	85:17 184:15,16
	187:19 188:4 190:4	224:19,22 226:10,11
	191:6,13,22 192:4	466:1,9 467:18
	193:3 194:3 197:9	Maureen's 389:21
	198:5,17,19 199:1,11	maximally 309:10
	200:2 201:17 204:17	360:13
	206:10 207:6 209:13	maximum 95:5,7 310:
	211:6 213:8,12 217:1 220:3,6 224:12	maxxed 311:7 MBA 2:8,21 3:14
	manipulation 256:13	McBurney 207:15
	manner 384:3	McQueston 2:16 6:3,9
	manual 94:14 98:8	9:14,18 31:20,20
	99:13,14 100:10	32:12 39:18,20 40:1
	105:15 138:22 465:13	79:5
	<b>MAP</b> 17:5,9 215:2	<b>MD</b> 1:11,11,15,17,20
	<b>Maps</b> 464:17	2:1,2,3,5,6,6,7,8,12
	March 1:5 489:7	2:13 3:3,5,6,8,10,11
	<b>Marcia</b> 2:21 32:9 156:2	3:14,16
		I
ı	•	

margin 320:10 mark 3:10 89:10 321:14 420:5 448:6,9 marketing 351:12 marketplace 12:8 Marlene 2:5 29:12,14
45:22 46:7,21 62:21 71:9 72:10 79:6 106:1 107:15 111:12 114:16 155:3,5 166:21,22 184:9 189:10 190:4 196:12,15 203:18,22 212:2 273:8 287:17 Marlene's 144:3 174:7
Martha 1:12 22:4 379:22
Martha's 379:22 Maryland 64:5,6 67:14 68:11,14
Massachusetts 2:7 22:16,19 192:7
334:21 MassHealth 22:18 matched 264:9 346:19
matching 244:6 material 262:1,2
materials 59:18 253:12 255:5 483:13 484:2 490:11 Maternal 15:3
mathematical 259:13 MATSUOKA 3:9 10:20
matter 13:2,6 19:14 162:5 229:7 358:3,3 363:12 428:6 437:3 490:21
matters 276:19 279:11 Maureen 1:16 24:13 60:10 62:12 70:13
74:7 76:5 79:15 83:20 85:17 184:15,16 224:19,22 226:10,11
466:1,9 467:18 Maureen's 389:21 maximally 309:10 360:13
maximum 95:5,7 310:3 maxxed 311:7 MBA 2:8,21 3:14
McBurney 207:15 McQueston 2:16 6:3,9 9:14,18 31:20,20
32:12 39:18,20 40:15 79:5
<b>MD</b> 1:11,11,15,17,20 2:1,2,3,5,6,6,7,8,12

```
mean 18:14 31:10
 37:13 66:21 69:12
 77:3 78:7 103:21
  106:20 124:21 128:22
  129:18 133:2 134:8
  137:12 145:12 147:1
  151:10 157:10 172:11
  175:16 178:16,20
  182:12 191:4 193:17
 205:12 206:5,8
 207:21 212:3,16
 213:4 219:13 245:1
  247:1 250:21 257:20
 264:7 265:10,13
 273:9 274:14 287:14
 290:14 295:1 313:9
  327:12 328:7 334:15
  343:18 349:12 350:12
  355:6 359:1 363:1
 375:9,19 382:6,8
  384:20 391:1 393:22
  397:4 400:22 402:4
 408:7 412:16 413:14
 414:5 415:2 425:11
 426:2 431:22 438:17
  441:12 444:16 445:7
 456:13 458:8 481:3
 482:22
meaning 51:16 242:22
  259:12 276:18 302:9
  402:5 479:13
meaningful 27:14
  189:21 207:22 208:21
  255:12 274:18 293:15
  319:15 390:4,9 391:9
 392:13 397:7
meaningfulness 264:4
means 11:8 96:11
  133:7 156:4,6 257:9
  275:17 276:16,17
 324:6 325:13,18
 340:3 376:2 382:12
 395:5 398:5 402:3
 412:15 429:8 452:11
 484:5
meant 206:12 276:4
 277:3 320:8 367:22
  411:10 417:21 442:12
measure's 332:15
measured 73:18 75:14
  96:12 105:19 172:21
  253:7 302:20 371:14
  373:22 384:3 393:17
  398:2 451:13
measurement 2:18,22
  3:4,13 4:19 10:4
  11:12 15:15 16:15
```

89:22 120:13 150:12 160:14 184:1 258:6 276:21 332:8 368:15 399:8 420:1 470:9 measurements 353:18 373:1 measuring 17:13 41:19 56:7 90:14 105:5,21 126:7 218:15 259:20 259:22 352:14 443:18 mechanical 251:19 med 56:16 67:17 median 14:14 **Medicaid** 3:3,9 11:22 12:4,5,13 14:1,19 15:16,18 16:10 17:5 20:21 22:19 24:3 27:2 51:9,14 56:21,22 58:12 64:2 65:15 66:3 66:17 67:2 68:4,4,6 68:10,14 82:15 83:12 165:5,15 166:4,5 181:6,7,19 183:5 190:13 194:8 198:15 199:8,13,22 201:21 202:1 205:9 208:13 211:7,8 222:13,20 241:5,8 285:4 302:8 307:20 313:7 315:1,4 319:19 335:12,20,21 344:5 349:4 351:9,21 352:13,15 353:1,14 353:16 354:7 355:14 405:6 medical 1:22 2:7 3:6,11 3:15,17 4:10 20:12,20 20:20 21:15 22:17 24:2,10 26:1 27:21 29:6 44:4 51:4 64:22 68:4 89:17 90:19 93:14 100:2 107:1 120:9 135:20 138:2 163:1,6 165:6,14,14 178:8 183:14,15 192:9 197:11,14 222:14 223:3 431:6 432:1,14,16 medically 29:4 185:6 186:11 216:3 225:11 **Medicare** 3:3,9 12:7 23:5 27:4 medication 115:14,16 268:3 273:16 274:3 284:16,20 medications 61:10 260:16,17 medicine 1:16 2:2,8 22:15 23:13,18 28:4,8

23:3 26:11 28:6 32:7

II			
10.0.50.10.145.10	00004004044	174.40	040 40 004 40 405 40
46:8 56:10 115:13	306:3,16 312:11	471:19	219:13 321:18 405:18
141:7 165:2 188:1	313:14 331:17 336:10	missed 69:4 123:3	406:2 479:17,21
meds 85:12	336:21 337:3 377:11	143:17 188:2 313:6	month 27:12 68:20
meet 17:6 180:10	378:12 441:10,11	missing 57:19 58:5	108:21 197:16 313:8
183:22 290:15 291:1	metrics 14:7 15:9 28:9	144:6 176:14 334:16	313:9 314:15,15
367:11 370:17 374:18	mic 159:5 230:9	341:6 344:9 357:22	335:11 409:17 452:22
377:7	Michelle 3:12 365:1	451:4	452:22 459:19
meeting 6:4 7:1 10:7,13	435:18	mission 11:16	months 27:1 30:5 48:13
11:1 18:8 30:2,10	Michigan 3:10 47:4	misspoke 410:18	49:22 56:3 77:5
31:6,11 35:15 46:11	48:11 53:10 66:8	mistake 114:13	165:22 242:11 260:6
265:11,14 370:7,14	351:2	mistaken 87:22	260:10 263:9 302:11
404:4 415:5 426:12	microphone 23:10	mix 79:14 123:19	303:19 314:1,5,9,10
439:17 471:6 473:7	142:2 208:22	mixed 101:19	314:14,19 315:6,10
488:2 490:3,11	middle 97:21 338:2	mixing 261:18	316:7,9 317:18
meetings 471:10	392:20 439:16	mixture 311:22 312:10	320:16 321:4 335:5,6
483:20	miles 68:6	MMIS 345:21	336:13 354:8 388:10
meets 145:18	milieu 486:19	MOC 383:9 422:15	388:13 409:15,18
members 29:18 35:6	millennial 179:13	Modak 2:6 25:16,16	410:5,16,18 411:4
36:12 37:18 45:18	Miller 2:5 29:12,14	57:11 74:1 75:11 80:7	413:3 420:22 423:15
120:2 162:19,20	45:21 46:6,7,20 62:21	83:10,16 84:18 185:2	425:17 433:2,4
189:8 203:15 293:18	63:5 65:8 66:2,10,14	185:14 380:13 392:8	435:11 436:7 440:9
338:7 488:22	67:7,11 71:9,11 72:9	401:6 409:1,11	442:1 443:1 452:16
membership 35:6	72:14,18 106:1	424:19 425:10 441:21	455:6 465:15
memory 409:5,5	107:16 110:14 111:18	444:4 473:6	monumental 31:10
mental 2:3 24:18 34:6	111:21 112:1 114:18	model 232:2 256:4,8	morning 6:7 9:5 13:18
46:17 125:14 126:4	155:3,6 167:2 184:12	257:8,11 258:3	20:18 21:5 26:20 27:7
126:12 467:6	184:18 188:8 189:11	461:14	27:16 35:5 48:6 163:1
mention 117:19 148:22	196:17 198:1,9	models 25:14	232:9 404:8 414:20
168:22 373:11 374:11	203:18 204:1 212:3	moderate 72:3,7 73:2	478:13
455:1 485:20	273:9 287:18	74:17 75:2 79:3,9	Morrow 22:12 132:10
mentioned 35:5 66:4	million 12:6,10,16	82:4,8 84:7,11 86:5	149:6
mentioned 35:5 66:4 117:12 119:17 143:22	million 12:6,10,16 mind 105:7 146:3 223:1	82:4,8 84:7,11 86:5 87:17 118:14,19	149:6 MORROW-GORTON
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimul 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11	149:6  MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22	149:6  MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13	149:6  MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14	149:6  MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15	149:6  MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10 methodology 27:22	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9 minority 312:3 438:4,5	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15 modified 238:18 402:21	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7 move 10:17 38:17
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10 methodology 27:22 64:8 119:8 131:17	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9 minority 312:3 438:4,5 minute 71:7 216:4	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15 modified 238:18 402:21 modify 374:7	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7 move 10:17 38:17 45:11 75:7 78:22
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10 methodology 27:22 64:8 119:8 131:17 201:14 204:16 420:1	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9 minority 312:3 438:4,5 minute 71:7 216:4 255:20 421:14 468:10	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15 modified 238:18 402:21 modify 374:7 moment 37:14 41:1,11	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7 move 10:17 38:17 45:11 75:7 78:22 79:13 80:13 82:1 84:4
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10 methodology 27:22 64:8 119:8 131:17	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9 minority 312:3 438:4,5 minute 71:7 216:4 255:20 421:14 468:10 minutes 10:22 37:20	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15 modified 238:18 402:21 modify 374:7 moment 37:14 41:1,11 86:10 112:6 188:11	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7 move 10:17 38:17 45:11 75:7 78:22 79:13 80:13 82:1 84:4 86:16 114:20 117:5
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10 methodology 27:22 64:8 119:8 131:17 201:14 204:16 420:1 methods 77:9 91:17 318:7	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9 minority 312:3 438:4,5 minute 71:7 216:4 255:20 421:14 468:10 minutes 10:22 37:20 93:17 162:1,2,3 229:3	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15 modified 238:18 402:21 modify 374:7 moment 37:14 41:1,11 86:10 112:6 188:11 260:20 296:7 309:18	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7 move 10:17 38:17 45:11 75:7 78:22 79:13 80:13 82:1 84:4 86:16 114:20 117:5 119:2 131:6 157:13
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10 methodology 27:22 64:8 119:8 131:17 201:14 204:16 420:1 methods 77:9 91:17 318:7 meting 390:18	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9 minority 312:3 438:4,5 minute 71:7 216:4 255:20 421:14 468:10 minutes 10:22 37:20	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15 modified 238:18 402:21 modify 374:7 moment 37:14 41:1,11 86:10 112:6 188:11 260:20 296:7 309:18 398:14	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7 move 10:17 38:17 45:11 75:7 78:22 79:13 80:13 82:1 84:4 86:16 114:20 117:5 119:2 131:6 157:13 158:1 187:18 189:2
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10 methodology 27:22 64:8 119:8 131:17 201:14 204:16 420:1 methods 77:9 91:17 318:7 meting 390:18 metric 48:11 242:13	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9 minority 312:3 438:4,5 minute 71:7 216:4 255:20 421:14 468:10 minutes 10:22 37:20 93:17 162:1,2,3 229:3 354:19 363:9,11	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15 modified 238:18 402:21 modify 374:7 moment 37:14 41:1,11 86:10 112:6 188:11 260:20 296:7 309:18 398:14 Monday 27:19	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7 move 10:17 38:17 45:11 75:7 78:22 79:13 80:13 82:1 84:4 86:16 114:20 117:5 119:2 131:6 157:13 158:1 187:18 189:2 196:10 203:11 214:20
mentioned 35:5 66:4 117:12 119:17 143:22 201:7 207:13 215:8 285:7 295:15 386:21 407:19 431:1 451:9 mentor 226:17 mere 423:6 merits 402:21 MERP 133:8 message 427:17,20 met 1:8 43:6 158:14 165:9,22 188:22 370:12 371:11 400:14 427:16 method 51:2 52:14 68:22 92:5 109:3 114:4 120:18 123:12 157:5 290:2 306:9 370:6 methodologic 301:10 methodology 27:22 64:8 119:8 131:17 201:14 204:16 420:1 methods 77:9 91:17 318:7 meting 390:18	million 12:6,10,16 mind 105:7 146:3 223:1 239:7 245:9 247:11 292:5 326:1 357:20 388:3 398:6 429:16 mindful 17:1 396:21 mine 152:10 279:5,5 minimal 93:19 141:17 153:22 154:1 minimally 309:11 minimum 141:10 177:18 178:9 426:6 minned 311:7 Minnesota 1:17 2:8 24:2 25:11,11 73:17 194:9 211:11 217:4 309:2 minor 43:15 102:19 103:2 132:17 159:2 456:9 minority 312:3 438:4,5 minute 71:7 216:4 255:20 421:14 468:10 minutes 10:22 37:20 93:17 162:1,2,3 229:3 354:19 363:9,11 365:17 414:2 428:4	82:4,8 84:7,11 86:5 87:17 118:14,19 130:8,14,20 131:2 137:4,8,11 145:19 147:22 148:4 158:7 158:11 188:14,18 196:1,5 203:2,6 210:13,17 214:11,15 227:7,11 254:10,20 265:21 266:9 288:14 289:6 300:14,21 323:1,10 338:16,21 342:6,11 347:20 348:3 355:21 356:4 406:21 407:3 450:13 450:17,20 454:7,11 modifiable 272:22 273:13 modifications 305:14 305:15 modified 238:18 402:21 modify 374:7 moment 37:14 41:1,11 86:10 112:6 188:11 260:20 296:7 309:18 398:14	149:6 MORROW-GORTON 2:6 22:12 68:2 96:22 97:3 98:13 118:3 119:6 121:1,10 138:14 141:18 177:4 208:9,14,17 209:1 218:14 244:5,16,20 313:5 314:18,21 315:3 334:12 335:15 345:17 352:6 361:22 383:18 413:7 420:19 421:7 427:10 443:11 449:21 450:5,9 458:6 478:8,22 479:14,20 mortality 49:4 54:2 mother 216:2 247:6 motivate 95:12 Mount 263:6,8 mouth 358:7 move 10:17 38:17 45:11 75:7 78:22 79:13 80:13 82:1 84:4 86:16 114:20 117:5 119:2 131:6 157:13 158:1 187:18 189:2

**NJ** 1:12 270:6 284:12 288:1 366:22 367:6.10 320:4 350:13 370:18 368:3,5,7,9 382:17,17 289:10,12 307:7 371:11 393:16 400:14 noise 248:12 437:17 308:4 317:1,12 332:2 411:9 440:21 441:1 447:15 nominate 120:1 455:8 456:18 339:8 379:20 392:19 nationally 344:17 nominated 18:1,2 19:4 435:2 440:12 441:10 nationwide 15:18 negative 70:6 319:7 92:8 441:10,11 446:12 **natural** 396:13 neglect 34:5 non-compliance 454:16,20 naturally 221:10 negotiation 391:10 287:22 moved 106:9 107:19 nature 19:10 128:14 neighboring 338:1 non-statistician 257:16 neither 76:3 119:17 211:7 263:5 143:17 257:22 331:13 486:18 **NCC** 133:8 Nemours 1:18 noon 6:16 489:8 **NCF** 444:4 **NEOMED** 20:12 movement 99:18 normal 48:22 225:13 **moves** 353:16 NCQA 415:6 431:5 neonatal 102:17 **North** 25:5 **NCSN** 1:12 nephrologist 183:12 Northeast 20:12 moving 43:4 101:8 137:15 255:2 429:3 **NDC** 50:22 70:12 net 277:7 Northwest 450:4 near-miss 129:16 network 6:20 92:21 not-quite- 126:16 445:9 463:21 **MPH** 1:20 2:1,13,17 3:2 nearly 165:11 98:21 notch 411:14 3:5,6,7,8,10,16 necessarily 18:21 Nevada 327:16 360:15 note 35:13 54:17 93:13 **MPhil** 3:16 41:13 149:21 177:13 never 29:1 182:18 116:12 137:5 198:13 Msc 2:5 3:16 218:6 222:10 241:9 325:14 351:4 361:9 371:12 489:6 **MSN** 1:18,19 370:2 377:11 402:8 245:6 248:7 304:1 note-taking 101:13 **muffled** 416:16 418:21 449:16 335:3 389:19 485:14 **noted** 61:2 75:13 84:18 multi-level 15:14 necessary 18:5 30:18 new 7:2,5,8 10:3 11:21 85:1,2 98:8 404:16 multiple 28:5 164:1,11 198:15 218:10 349:2 46:13 241:2,5,7 284:3 446:22 448:1 170:18 219:20 425:17 363:22 286:2 288:5 299:4 notes 237:19 429:11 441:6 noticed 159:7 337:8 need 8:6,11,16 15:8 308:21,21 316:19 multispecialty 224:5 20:8 37:14,19 95:10 328:14 329:1.7 447:11 multistakeholder 165:4 96:16 98:1 108:5 330:16 395:12 411:15 notices' 124:4 Munthali 2:17 32:6,6 124:5,11 129:18,19 429:9 433:13 445:13 **notion** 153:21 259:1,2 **must-** 301:2 129:19 130:15 142:9 445:20 452:5 480:20 381:1 must-pass 38:16,20 156:1 162:8 177:10 newborn 50:13 126:16 notoriously 76:14 novel 309:6 349:7 43:7 47:20,22 73:7 205:22 219:4 221:20 232:13 267:12 230:8 240:3 243:12 newly 33:9 122:20 November 260:10 mute 375:21 243:19 266:19 277:7 480:21 315:4 285:17 292:4 307:10 news 8:17 novices 121:7 Ν 307:21 315:12 321:19 **NF2** 211:10 **novo** 108:2 111:4,9 **N.W** 1:8 324:19 325:1 335:8 **NHLBI** 49:15,20 50:6 135:11 **NP** 171:18 **nagging** 475:10 335:16 338:7 340:1,3 68:22 nice 97:4 302:2 313:13 **Naloxone** 91:1,2,5,7 340:12,15,19 357:18 **NPI** 182:2,4,8 193:21 110:2 373:7,19 382:2,3,12 364:18 **NQF** 2:10 4:11 5:17 name 22:17 24:12 396:21 397:15 398:7 **nicely** 10:15 6:19.21 7:18 12:22 25:16 28:2,22 48:9 400:7 405:11 413:10 **NICU** 102:10 16:12 26:7 30:12 32:5 89:7 276:13 425:10 426:6 427:3 nine 27:1 71:3 73:1 33:8,11,22 41:6 88:7 names 184:17 428:18 438:18 445:2 82:7 119:22 165:4 89:1 104:22 151:21 447:12 460:20 469:3 254:19 256:15 295:20 154:10 160:6 161:12 Naraa 3:4 365:3 384:10 405:20 416:1,15 469:18,19 474:5 299:15 338:22,22 228:11 230:11 242:8 ninth 405:5 255:4 258:14,22 453:11 463:10 476:9,17,20,22 477:4 narcotic 91:8 478:18 484:8 489:11 Nishimi 2:19 32:2,2 266:19 286:12 296:18 narrow 107:3 262:21 489:17 160:16 255:10 265:15 337:17 357:12 366:13 367:17 395:8 404:2 273:2,5 434:19 needed 202:14 220:14 267:3 269:15 278:17 231:2 295:19 297:11 nation 12:6 48:18 291:11,14,17,19 439:14 451:6 474:6 308:11 357:13 381:17 292:2 293:13 337:18 476:18 480:20 481:2 **nation's** 13:15 national 1:1,8 3:14 6:4 needing 180:10 296:1 356:11,14,18 357:7 482:18 483:11,15 319:18 409:14 358:2,16,19,21 27:20 49:14 68:12,13 485:6,13 487:16 needle 249:3 288:2 394:17 395:3,7 396:2 488:22,22 490:14 89:13 92:12,20 needs 24:18,19 29:9 **NQF's** 7:2 17:20 33:10 109:22 120:15 141:3 439:11 440:1,6 149:21 152:4 154:16 42:8 121:2 141:14 443:19 444:9,13 35:6 238:18 243:10 343:12 151:12,22 162:17 468:19 485:5 489:11 NQF-endorsed 33:14 344:18 351:8 366:19 163:12 165:22 180:11 489:14,17,22 **NQFguest** 6:21,21

nuance 276:20 obviously 28:14 52:5 130:20 137:7 147:21 110:3 119:22 120:1 nuanced 277:8 484:15 73:8 84:20 99:6 108:7 158:6 160:6 161:7 149:18 150:1,1,3 **nuances** 259:15 397:3 119:16 127:15 143:8 188:12 195:22 203:1 224:6,15 481:17 144:18 149:19 175:16 organizations' 15:5 484:8 210:12 214:10 227:6 number 14:15 37:18 197:4 212:17 224:13 227:20 231:17 238:21 organized 222:12 50:8,17 56:5 70:21 273:12 287:19 288:1 249:21 251:3,4 orientation 483:3 71:6 77:16 97:19 316:3 365:12 425:3 254:10 265:21 286:7 original 255:10 366:3 102:6 109:6 117:12 occasional 147:2 288:13 300:13 317:3 395:3 originally 278:6 117:16,21,21,22 occasionally 311:11,15 322:22 338:15 342:5 127:21 129:7 137:17 occur 90:21 107:10 347:19 355:20 399:1 other's 35:10 177:8 178:16 184:6 128:15 153:11 406:20 419:9 421:10 **OTR/L** 1:21 193:22 215:5,5 occurred 135:20 433:18,20 445:18 ought 300:6 225:16 228:14 241:10 159:20 282:1 446:6 450:12 454:2,6 ourself 350:19 245:11 256:10 260:2 occurrence 298:5 460:6 464:2 468:15 outcome 27:18 41:12 267:22 268:1 274:8 occurring 98:2 128:20 469:5 488:21 41:18,19 44:11 72:2 277:14 279:11,13 occurs 90:19 opening 4:2,3 9:21 96:9,12 97:1 103:20 302:10 317:17 331:8 odds 80:16 166:10 74:10 114:22 115:1 116:1,2 331:8 361:13,15 Off-microphone 408:8 operate 8:21 116:6 187:15 210:2 operating 32:5 120:18 368:14 395:5 430:17 489:16,21 235:3,7,13 238:5 446:1 449:6 450:6 offer 36:12 141:18 485:9 249:1 271:1 272:21 478:11 offered 8:10 operationalized 165:10 273:1,3,6 274:15 numbers 55:21 109:5 office 22:21 58:2 277:19,20,21 278:2 283:16 121:13 201:8 203:15 169:16 226:9 298:8 operationally 278:13 278:10,14,21 279:7 240:11 254:12 332:12 441:9 operations 129:19 307:11,13 308:5 339:12 362:3 377:8 officer 2:13 24:2 26:3 **OPERATOR** 228:12 352:18 369:12 370:5 395:13 405:11.13 32:5 46:7 414:19 470:20 375:10,12 378:10 numerator 50:17 51:2.6 485:9 opinion 35:10 41:21 391:1 393:2,3,8,10,13 260:9 279:9 281:3 officials 344:15 42:1,6 216:22 225:5 393:14,17 394:8 289:16 302:12 317:17 **offsite** 266:6 388:21 396:13 398:3 404:5,9 376:1 oftentimes 106:15 opportunities 52:6 404:11 415:2,11 numerous 412:5 Ohio 2:3 20:12 46:17 290:4 419:13 425:12 427:4 nurse 21:6,14 22:8 308:13 opportunity 58:12 429:7 430:17 433:8 93:16 94:16 95:5 **ok** 444:15 448:11 81:14 95:14 115:14 438:10 439:2,10,19 100:10 139:6 144:20 old 48:14 54:8 145:2 139:17 143:6 178:12 441:3 444:18 445:11 171:8,14,16,19,20 308:22 395:5 247:2 262:1 265:4 460:4 474:5,8 483:17 219:18 442:3 443:13 **older** 168:15 179:1,2 267:10 356:19 399:11 485:22 443:15,16,21 444:3 outcomes 15:13 23:3 340:8,21 424:1 426:15 482:19 nurseries 126:16 **olds** 340:5 opposed 107:6 159:21 28:13 83:14 129:15 nurses 92:11 93:3 **omission** 114:13 212:18 261:4 391:9 130:1 163:5,14,22 94:19 97:7 121:22 omitted 232:20 **opposite** 303:21 164:2 167:5,12 140:17 172:19 225:15 once 35:20 62:20 68:20 options 227:7 229:13 169:11 173:10 180:17 444:14 110:10,10 124:11 oral 14:11 17:22 69:9 187:3,9 192:21 Nursing 21:9 22:8 125:9 302:22 349:21 oranges 132:21 136:7 204:22 205:3,5,17 order 35:14 95:2 99:2 Nutrition 2:4 27:11 206:2 274:14 302:4 423:7 one-day 6:3 35:15 108:21 200:15 239:7 307:18 308:1,2 372:5 one-hour 139:10 243:5 245:10 260:10 392:14 394:1 461:16 **O2** 299:19 one-time 110:8 289:20 327:6 349:2 outlining 209:20 objection 463:21 ones 80:3 97:10 113:11 447:9 464:21 472:22 outpatient 107:8 objections 265:8 194:18 195:5 358:14 ordered 297:18 361:9 outs 206:18 377:7 457:17 461:8 outside 159:22 225:12 468:12 ordering 67:16,16 objective 297:17 477:14 246:11 262:22 280:10 organ 61:9 **objects** 451:13 ongoing 215:21,21 organisms 55:3 463:16 269:7 371:13 organization 110:5,8 outweigh 355:4 observation 107:6 141:1,8,14 143:21 outweighing 69:18 279:5 302:12 **Oops** 188:10 224:9 483:16 **observed** 164:1 353:7 open 39:16 57:9 62:15 over-the-border 68:5 **obsessed** 180:22 72:5,16 74:16 79:1 organizational 85:11 overall 38:22 43:8 52:9 obtained 282:6 290:21 82:3 84:6 86:3 87:11 87:22 88:3 105:16 224:10 obvious 124:21 328:5 88:4 116:11 118:13 organizations 24:5 157:17,20 158:18,21

pardon 252:7 359:21 160:6 161:5,6 193:5 312:11 331:13 89:15.21 91:8 92:11 227:17,21 231:7 426:9 particular 28:15 94:10 92:12 95:13 99:6 parent 24:13 25:1 29:3 294:8,11,16 312:7,11 114:22 116:1 120:5 102:8 104:9,18 312:18 356:12 357:4 29:10 164:20 175:11 122:5 167:20 168:20 106:16 114:12 115:1 382:7 485:1 212:18 215:16,19 169:1 180:15 209:14 115:18 116:3 127:10 217:19 222:16 337:8 overdose 91:4,8 126:10 216:22 217:19 225:5 129:14,17,21 130:1 overlap 129:9,11 326:6 241:9 283:18 319:17 372:22 374:9 381:6 133:19,19,20,22 327:21 337:22 360:14 373:5 375:6 376:16 383:15 412:9 433:5 157:3 163:11 164:14 364:9 377:12,18 385:6 439:21 463:20 169:11,15 183:12 overlapping 327:5,19 388:9 389:3,19 390:4 particularly 10:5 19:19 186:19,22 222:4,6,10 409:5,16 412:3 63:20 101:17 102:16 294:4,9,12,16,17 328:4 **overlay** 152:22 433:11 456:15,19,21 104:12 139:12 287:11 302:22 308:1 313:18 overly 153:10 456:22 482:8 362:19 314:5 320:3 336:17 overshot 386:22 parent's 372:3 390:6 parties 82:19 370:18 372:1,4,8 overuse 230:22 271:22 parental 4:18,20 313:9 **partly** 417:2 385:18 394:1,7 404:6 274:12 275:3 276:22 404:7,10 409:4 415:1 367:2 368:8 369:18 partner 25:2 277:3,22 278:3 370:2,8,11 435:8,21 partners 1:15 25:3 415:7,11 423:14 overview 4:5 32:15 444:5 451:5 459:5 194:8 201:22 211:10 429:11 431:16 485:22 34:7,18 42:15 47:15 465:8 Partnership 25:4 patient's 163:17 48:5 53:6,7 89:3 parents 179:9,13 180:8 parts 319:9 patient-centered 230:5 233:18 270:8 180:11 217:7,10,11 party 225:9 271:13 284:5 431:6 301:22 365:13 369:20 225:20,22 226:16,17 pass 34:17 43:18 45:15 432:1 451:10 Oxford 165:2 187:22 314:12,22 368:19 116:11,12 117:1,2 patient-level 137:5 oxygen 290:10 387:4 157:15 189:19 190:5 294:2 370:9,10 371:1,10 193:7 220:22 249:21 373:8,18 375:7 378:1 patient-reported 404:9 383:19 384:4 386:18 249:22 252:14.21.22 474:7 **P** 190:6 389:18 397:13 400:6 252:22 266:11 279:1 patients 25:12 44:15 P-R-O-C-E-E-D-I-N-G-S 401:15 408:2 424:9 286:8,8,15,16,17,17 57:16 75:13 102:9,10 442:11,22 447:3,17 6:1 286:18,22 289:9 102:13,16 106:6,9 **p-value** 256:16 461:9,13 463:3 295:4 296:14 301:3 107:4,6 126:8 136:4,6 **p.m** 229:9 363:13,14 466:20 467:15 488:9 317:3,4,9 323:13 136:16 159:9,17 428:7,8 489:8 490:8 parsing 287:21 465:6 342:14 348:5 356:15 185:6,10 222:4,15 490:22 part 17:9 18:15 26:15 398:21,21 399:1,2,4,5 223:18 279:16 287:15 **PA** 171:15 337:18 31:14 91:9 98:18 407:6 426:14,19 306:12 312:5,15 **pack** 469:12 113:9 173:13 175:10 433:20,21 434:3,4,7 346:4 389:4 392:14 **packed** 35:15 202:7 217:4 220:21 435:3 446:6,7,9,10 403:16,18 404:20 page 189:2 326:21 239:22 242:6 245:15 460:6,7,11,12,13 422:14 431:7 339:12 360:4 444:11 254:16 264:19 270:17 464:2,3,7,8,9 468:15 patterns 90:11 455:17 456:1 271:20 276:21 306:21 468:16,22 469:1,2 pause 40:7 116:17 pages 18:4 307:12 315:13,14 pass/fail 204:9,13,18 118:16 130:22 168:15 paid 138:1 209:10,12 348:10 360:20 361:1 375:18 249:17 250:2 254:14 366:11 368:1 380:9 pass/no 278:22 266:1,4 288:16,19 344:2 paired 276:4,8 382:21 459:5 462:22 passed 73:4,8 75:4 pay 68:5 140:16 219:12 465:10 476:3 79:11 82:10 84:14 panel 7:7 49:14 62:16 219:14 414:9 part-time 174:22 87:20 117:3 118:22 Pay-for-Performance 92:5,15 119:20 165:4 PARTICIPANT 251:16 131:5 137:14 148:6 473:22 222:7 223:15,16 233:8 243:2 260:16 251:21 252:15,18 166:9 188:21 193:6 payer 16:15 219:11 254:15 286:9,19 196:8 203:9 210:20 268:4,7,11 271:11 payers 343:22 299:5,15 484:7 411:20 455:14 468:4 214:18 227:14 255:1 payment 15:11 485:16 panelists 92:7 165:4 470:1,18 477:8 passes 38:10,12 47:21 payments 208:3 253:1 317:10 356:7 **PCC** 297:22 panels 233:10 286:12 participate 9:3 20:8 368:18 92:19 357:4 399:6 450:21 **PCMH** 431:10 432:7,13 participated 140:1 paper 101:1,21 109:14 passing 7:1 266:14 **PCP** 183:12 222:15 303:18 458:19 290:7 145:2 416:12 417:5 275:7,16,18 papers 217:16 395:22 **PDSA** 371:6 382:19 participating 29:5 password 6:20 par 86:18 participation 302:7,9 patchy 104:17 422:15

304:11,13 305:7,20

306:3 307:3 310:2

pathway 157:9 421:16

patient 1:14 25:2,3

paralleled 427:12

paraphrase 430:5

**PE** 311:19,22 312:4,9

312:16,18,19 325:3

II
Pearson 339:14
pediatric 6:5 8:4,5,12
10:5 11:12,18 16:6
21:6 22:8 23:12 26:5
26:11 28:3 32:17
33:12,14,16 63:17,21
64:6 89:8,15 91:20
92:10,18,20 95:10
102:9,18 103:12,19
105:10,11,22 113:16
117:9 129:8 148:15
117.9 129.0 140.13
150:6 164:1 169:14
197:13 230:18 238:20
270:19 369:22 481:1
481:13
pediatrician 20:19
22:13 23:2 115:11,17
222:3 225:7 244:22
372:10 374:5 379:16
387:2,3
pediatrician's 386:19
pediatricians 238:19
pediatrics 1:3,7 7:17
8:7 22:14 23:16 25:9
25:22 26:22 46:8,10
99:20 104:13 115:13
209:17 367:7 461:19
465:12
peeked 487:3
peer 416:12 417:5
peers 146:7
penalized 173:21 174:1
333:20
penalizing 304:5 349:1
penetration 194:16
penicillin 49:10,11,17
60:20 70:10,14,17
Pennsylvania 301:18
<b>people</b> 10:9 13:3,4,8
28:19 40:3 45:6,22
56:4 57:18 62:19
77:21 82:22,22 124:9
124:11 127:1 133:2
143:5 145:11 174:14
176:16 181:16,19
193:21 206:20 220:16
221:2,8,10,18 228:1
248:9 250:5 274:10
309:15 311:7 319:1,2
320:19 328:12 333:12
340:15 348:18 350:18
351:15 363:19 379:4
388:18 392:19 396:14
400:3,8,12 413:16
421:2 422:7 431:19
453:17 458:10 460:20
469:6 472:2 479:2
481:3,5 483:21
<del>-01.0,0 400.21</del>
II

484:22 485:3 486:22 perceived 280:5 385:6 percentage 48:12 297:19 306:1 321:12 perception 389:7,15,18 390:6,9 412:3 perfect 243:18 321:9 354:16 422:1 performance 1:3,7 6:5 11:12 14:2 15:1,8 16:9 21:16,18 28:8 46:10 51:8 52:8,20 61:1 74:16 75:5 92:17 113:19 118:12,22 190:12 194:15 196:8 202:9 253:5 268:6 322:22 349:1 390:15 392:10 395:14,16 396:9 399:8,19 400:19 402:6 403:21 406:20 407:7 450:12 450:21 484:19,20 performed 99:3 120:17 129:10 318:13 performers 194:20 392:19 performing 143:3 perinatal 14:9 25:4 33:21 period 51:18 78:5 124:11 142:14 144:7 192:10 267:19 302:12 302:12,15 303:9,15 305:14 307:10 340:3 362:9 452:13.21 453:8 456:14 488:20 490:6 **periods** 383:1 Permanente 20:21 450:4,6 perpetual 66:16 persistence 238:8 239:12 persistent 234:10,12 240:22 241:3 242:3 person 11:8 143:11 173:16 174:15 203:15 216:17 217:3 219:20 220:11,16 223:14 266:6 364:20 437:2 person's 229:19 person- 51:19 personal 216:7 232:14 397:10 445:2 475:1 personally 8:1 436:19 perspective 66:18 96:17 133:20,21

284:18 307:20 329:16 329:17 340:14 391:12 393:11 477:12 478:10 perspectives 35:7 45:7 478:5 pertain 33:18 pertaining 36:10 **pharmacy** 76:12 78:9 101:14,20 244:7 296:4 **phase** 7:18 32:20 **PhD** 1:13,15,21 2:1,19 2:21 3:4,9,10,10,11 3:12 371:5 PhDs 259:14 367:16 368:12 384:15 416:12 Philadelphia 3:12 4:17 27:10 philosopher 39:13 philosophical 39:12 329:14,22 philosophically 207:2 phone 19:21 28:20 36:3 40:3 44:20 45:22 46:3 47:5.7 62:22 74:5 81:20 118:8 187:17 210:7 225:16 228:16 229:18 230:7 252:9 263:19 265:11,14 364:14,19,21,22 365:2 433:16 460:17 462:16 464:12 **phrase** 442:7 **phrased** 443:3 physical 24:18 28:8 290:19 373:13 377:1 physician 21:17 28:4 93:13 95:7 139:7 140:5,8,21 141:3,10 171:11,14 183:10 216:10 373:8 421:10 423:7,14 427:19 432:19 physician-level 21:16 physicians 64:18 93:6 93:7,19 94:21 97:9 121:6 122:1 137:17 137:21 138:1 140:10 141:17 238:19 401:4 427:17 **PI** 263:7 311:18,22 312:4,9,16,18,19 325:3 pick 64:8 65:12,16 128:3 129:3 353:22 picked 128:9,10 170:6 **picking** 114:8 **picks** 128:4

picture 101:9 113:22 475:22 **PICU** 102:13 piece 121:2 140:5 176:4 280:3 414:1,1 479:4 479:21 pieces 366:22 piggyback 218:15 pillars 391:21 **pilot** 113:16 pitch 353:10 Pittsburgh 2:1 28:4 place 68:8 110:12 138:17 151:22 153:6 173:22 182:2 253:4 295:3 311:10 313:12 344:4 348:17 387:16 486:8 **placebo** 49:10 **places** 68:7 138:19 198:3 plan 16:10,15 172:19 191:8 199:8,16,18,19 199:22 200:16 201:2 220:13 223:21 224:2 224:11 238:2.5 239:14 241:5 248:6 248:16 256:11,18 257:6,6 262:19 273:13 274:2 275:9 284:15,18,22 307:20 416:5,13 417:2,12,13 428:13,15,15 431:2 432:6 476:7 482:9 484:20 plane 464:19 planning 215:18 plans 21:13 85:7 190:13 199:10,13 200:8,18 201:11,15 202:4,14 232:5 235:5 243:7 246:10 256:11 256:16,20,20 262:21 264:20 307:20 416:14 418:19 **platonism** 39:15 40:12 play 245:14 311:7 429:9 played 113:11 players 304:2 playing 226:7 please 8:13 23:21 37:20 48:4 72:11 76:9 228:13 229:12 248:19 250:20 251:5 282:13 288:21 336:6 359:22 366:8 420:9 444:1 470:21 pleased 230:16

175:11 215:16,20

I
pleasure 485:2
plenty 308:9
<b>plow</b> 62:5 87:7
<b>plug</b> 466:20
<b>plus</b> 78:7 260:7,9
478:12
pneumococcal 48:21
54:10,19,20 84:22 <b>PO2</b> 281:14
point 39:1,22 44:19
45:5 57:13 58:12
86:15 101:9 117:10
133:15 134:5 143:12
146:21 151:5 152:9
176:3 179:18 181:15
187:20 195:7 219:11
220:8 222:9 240:19
246:14 261:14 267:9
276:11 295:1 308:2,3
313:14,17 315:20 321:3 336:10,11,12
336:16,17,18,21
337:14 345:6 354:2
354:11 357:22 362:15
369:8 371:3 389:21
390:9,10 392:12
401:7 406:6 409:2
411:12 425:15 429:1
441:22 453:19 457:8
459:3 469:4 475:7,13
482:17 483:2 487:16
pointed 337:21
pointing 228:1 points 28:22 57:2 119:3
157:18,21 158:18
168:21 205:16 207:17
243:9 362:7 365:15
401:17 431:8 488:14
Poisson 232:1,2 255:7
256:7,7,8 264:3
<b>policy</b> 277:5 355:8
policymakers 303:6
polysaccharide 54:12
54:15 <b>poor</b> 208:20 235:3
236:19 325:16 328:22
329:1
poorly 172:16
pop 30:6
populated 76:14,15,18
77:8
populating 443:2
population 8:4 12:1
22:5 23:6 33:13,15,16
51:20,21 52:3 54:1
58:14 70:3,4,22 81:12
127:7 136:15 148:15 178:7 185:22 186:14
170.7 100.22 180:14
II

191:11 194:17 197:21
206:1 217:20 223:2 241:20 282:20 325:15
329:19 335:2 405:6
449:9,12
populations 32:17,19
99:6 <b>portal</b> 385:18
portfolio 11:17 33:12
34:1
portion 20:8
positive 52:11,22
positives 60:3,5,6 positivity 94:9
possibility 57:17 67:18
70:9
possible 9:2 91:22 92:3
107:13 113:2 154:2 226:10 350:4,10
357:16 358:1 363:20
381:1
possibly 201:10 350:8
467:5
post-267:7
post-comment 43:14 265:15,16 267:1
269:2,6 270:5 356:22
490:7
post-meeting 489:7
post-secondary 71:13
post-secondary 71:13 post-well- 370:9
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7 274:12 276:18 283:3
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7 274:12 276:18 283:3 324:5 340:19 390:18
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7 274:12 276:18 283:3 324:5 340:19 390:18 391:16 392:3 408:14 474:16
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7 274:12 276:18 283:3 324:5 340:19 390:18 391:16 392:3 408:14 474:16 poverty 247:5 329:5
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7 274:12 276:18 283:3 324:5 340:19 390:18 391:16 392:3 408:14 474:16 poverty 247:5 329:5 power 350:5
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7 274:12 276:18 283:3 324:5 340:19 390:18 391:16 392:3 408:14 474:16 poverty 247:5 329:5 power 350:5 PPCNP-BC 1:18
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7 274:12 276:18 283:3 324:5 340:19 390:18 391:16 392:3 408:14 474:16 poverty 247:5 329:5 power 350:5
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18 84:21 146:9 148:15 149:4 152:14 153:9 266:22 277:5 334:16 359:6 392:9 396:20 425:5 potentially 11:21 58:5 58:14 153:3 163:12 205:20 254:3 264:7 274:12 276:18 283:3 324:5 340:19 390:18 391:16 392:3 408:14 474:16 poverty 247:5 329:5 power 350:5 PPCNP-BC 1:18 PPO 213:4 PQMP 330:5 practical 175:14
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18     84:21 146:9 148:15     149:4 152:14 153:9     266:22 277:5 334:16     359:6 392:9 396:20     425:5 potentially 11:21 58:5     58:14 153:3 163:12     205:20 254:3 264:7     274:12 276:18 283:3     324:5 340:19 390:18     391:16 392:3 408:14     474:16 poverty 247:5 329:5 power 350:5 PPCNP-BC 1:18 PPO 213:4 PQMP 330:5 practical 175:14 practice 16:15 39:6,7
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18     84:21 146:9 148:15     149:4 152:14 153:9     266:22 277:5 334:16     359:6 392:9 396:20     425:5 potentially 11:21 58:5     58:14 153:3 163:12     205:20 254:3 264:7     274:12 276:18 283:3     324:5 340:19 390:18     391:16 392:3 408:14     474:16 poverty 247:5 329:5 power 350:5 PPCNP-BC 1:18 PPO 213:4 PQMP 330:5 practical 175:14 practice 16:15 39:6,7     39:11 57:20 64:1
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18     84:21 146:9 148:15     149:4 152:14 153:9     266:22 277:5 334:16     359:6 392:9 396:20     425:5 potentially 11:21 58:5     58:14 153:3 163:12     205:20 254:3 264:7     274:12 276:18 283:3     324:5 340:19 390:18     391:16 392:3 408:14     474:16 poverty 247:5 329:5 power 350:5 PPCNP-BC 1:18 PPO 213:4 PQMP 330:5 practical 175:14 practice 16:15 39:6,7     39:11 57:20 64:1     141:7 169:14 171:18
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18     84:21 146:9 148:15     149:4 152:14 153:9     266:22 277:5 334:16     359:6 392:9 396:20     425:5 potentially 11:21 58:5     58:14 153:3 163:12     205:20 254:3 264:7     274:12 276:18 283:3     324:5 340:19 390:18     391:16 392:3 408:14     474:16 poverty 247:5 329:5 power 350:5 PPCNP-BC 1:18 PPO 213:4 PQMP 330:5 practical 175:14 practice 16:15 39:6,7     39:11 57:20 64:1     141:7 169:14 171:18     218:6 239:14 248:7     297:12 389:14 390:8
post-secondary 71:13 post-well- 370:9 posted 490:12 potential 52:10 69:18     84:21 146:9 148:15     149:4 152:14 153:9     266:22 277:5 334:16     359:6 392:9 396:20     425:5 potentially 11:21 58:5     58:14 153:3 163:12     205:20 254:3 264:7     274:12 276:18 283:3     324:5 340:19 390:18     391:16 392:3 408:14     474:16 poverty 247:5 329:5 power 350:5 PPCNP-BC 1:18 PPO 213:4 PQMP 330:5 practical 175:14 practice 16:15 39:6,7     39:11 57:20 64:1     141:7 169:14 171:18     218:6 239:14 248:7

422:17,18 427:19 437:12 438:2 440:22 441:6 442:9,21 443:14,18 445:5 473:12,13 practices 417:11 practicing 139:15 practitioner 21:7 171:14,20 218:19 421:1 429:10 430:6 practitioner's 421:11 practitioners 421:2 422:13,18 432:20 pray 356:17 precise 237:8 precision 258:5 259:20 259:22 261:11 262:15 263:1 481:3 484:4 predated 129:6 predisposes 273:12 predominantly 168:18 preface 460:15 prefer 457:2 preferred 449:17 preliminary 337:9 **premise** 425:21 **prepare** 110:9 **presage** 261:20 prescribe 56:6,7 prescribed 56:15 70:10 80:9 **prescriber** 56:6 76:20 prescribing 56:9 prescription 242:16 prescriptions 51:4 67:16 77:17 78:10 presence 36:2,5 50:21 93:8 94:1,3 135:15 461:22 present 1:10 3:1,21 137:22 157:1 169:18 170:21 230:16 246:15 256:10 262:5 306:14 351:8 429:5 presentation 290:11 325:8 405:8 presented 61:15 93:4 103:11 165:3 204:3 253:11 322:8 370:22 371:4 401:1 429:2 433:6,7 438:20 440:19 465:17 474:17 presenting 129:14 162:21 **President** 2:12,17,21 32:7,9 presiding 1:9 press 116:19 228:13

470:21,21 pressing 249:15 pressure 225:2 presumably 433:9 presumed 305:9,17,18 309:7,7,10,10,14 333:7 presumptive 315:22 pretty 42:11 55:22 99:7 100:1 102:2,15 110:11 112:19 113:20 114:5 117:16 122:16 153:12 182:3 196:20 206:11 216:6 282:5 284:15 285:2 297:10 298:20 361:10,11 364:11 380:19 405:6 428:16 467:11 prevent 98:2 103:14 125:9 128:17 155:14 192:21 239:17 249:7 preventability 93:9 preventable 4:8 84:22 88:21 90:2 91:10 93:21 95:3 117:15 122:7 133:11.17 159:20 246:2 preventative 14:8 33:1 33:2 prevented 49:7 232:11 475:20 prevention 373:15 377:2 411:3 preventive 391:7 **previous** 33:8 137:2 166:11 170:10 206:6 279:20 281:4 283:14 332:6 352:12 384:14 395:15 416:4 442:19 455:4 459:9 462:4 previously 27:5 33:10 366:13 367:16 395:21 primarily 25:11 150:15 222:16 primary 4:10 14:8 24:9 25:12 63:10,16 64:5 64:18 65:4 69:16 93:3 93:4,16,21 96:20 97:8 121:21 122:1,12 143:7 162:22 163:9 163:20 164:4 171:13 174:4 177:14 178:10 178:16 180:11 181:4 181:5,9 182:4,6 183:10,15,19,22 186:1,10,16 192:20 209:4,5 216:11 218:7 222:20 244:7,11

II
245:3 271:3 274:21 284:21 287:7 298:3 304:14 310:6 325:21 332:3 404:21 412:12 431:15 442:13 449:15 455:13 461:1 prime 154:15 printed 41:3,6 145:3 prior 21:14 113:15 165:22 245:11 260:7 281:11,22 287:12 306:1,2 336:21 priorities 35:8 prioritize 104:8 priority 48:18 216:17 222:14 PRIS 92:21 98:21
private 11:19 34:1
63:22 65:19 387:16 privately 213:16 privilege 31:14 488:2
<b>PRO</b> 485:21
<b>probably</b> 10:6 12:5 16:3 47:12 71:22 80:21
87:6 100:9 104:9
106:16 115:12 121:2
123:6 136:20 138:16 148:14 151:21 187:4
187:8 190:16 194:16
194:19,22 211:17
212:22 219:19 220:19 237:9,12 245:22
274:5 278:12 281:18
284:17 319:6 328:15
336:8 360:12 391:2,3 410:22 427:1 429:4
439:13,16,17 453:9
453:16 483:3
<b>problem</b> 54:18 89:20 182:9 219:3 223:14
280:6,7 303:2,3,7,21
303:22,22 308:22
316:8 331:6 343:7 347:6 404:3 437:5,22
438:1,3,3,8,11 439:20
452:19 453:21
problematic 143:11 347:8
problems 104:18
135:18 141:13 142:18
224:5 235:13 343:6 404:12 472:9
procedure 44:14
266:19
procedures 44:4 106:14 366:9
proceed 48:3
<b>processes</b> 19:8 41:18
II

```
98:1 151:18 154:14
 155:14 163:4 273:3
 486:6
produce 257:8 324:1
produced 358:5
productive 482:2
products 199:15
professional 18:6,18
  19:16 92:8 119:22
Professor 22:14 23:16
 25:22
program 22:19 24:3
 25:10 56:21 68:10,14
  124:7,8 139:9 151:5,7
  151:16,19 192:8,16
 219:16 264:11,12
 331:11 345:4 349:8
 355:14 374:13
programmer 110:19
programming 110:22
  181:16
programs 34:2 68:4,7
  165:15
project 2:15,16,20 4:5
 6:10,10 29:5 31:17,21
 31:22 32:3.15.16.20
 32:21 33:7 39:17 40:2
 424:7 485:13
projects 15:2 486:9
proliferating 334:10
proliferation 17:3
prolonged 125:17
promise 488:18
Promoting 366:12
  399:21
PROP 485:22
prophylactic 60:17
prophylaxis 4:7 48:15
 49:13,18 50:20 51:16
 51:22 52:13 59:11
 69:1 81:11,17
proportion 49:22 52:3
  123:4 400:6 403:17
 461:9
proposal 439:18
proposals 333:18
propose 419:6 426:21
 433:12
proposed 223:21 245:4
proposes 370:6
protocol 296:18
proud 216:2
proved 93:20
provide 17:7 53:7
  100:15 128:13 230:4
 234:11 247:2 253:6
 255:13 264:17 265:5
 269:19 284:20 301:22
```

```
341:7 382:15 426:17
 472:18 474:9
provided 234:5 253:8
 262:2,15 265:6
  266:21 267:2 269:1
  307:15 366:18 384:17
 399:12 430:19 452:10
  461:14
provider 16:9 17:2
 63:11,16 163:10,18
  164:5,17 169:9 170:7
  170:7,20,21 171:4
  172:4 174:5,20
  175:18,18 178:16
  179:14,15,20,22
  181:10 182:2,7 185:9
  193:13,16 215:10
 216:11 218:5,8
 222:16 238:2,5 298:4
 353:6,9 382:2 385:13
  385:15,19 389:22
  391:18 392:2 393:6,8
  393:9 403:21 408:11
  409:19 410:14 411:2
  412:16 413:6,8 416:6
 417:14.19.21.22
 418:1,13,19,22 420:5
  420:12 423:19 425:21
  429:14 431:14,15
  432:12 433:7,9 437:8
  440:18 441:4 442:2,6
  445:2,16 456:5,18,20
  456:22 457:19 461:16
 462:18 465:16 476:10
 477:3 482:9
provider's 390:15
provider-level 15:22
  403:13 405:10
provider-specific
 409:21 410:13 417:15
providers 15:20 82:17
  163:10,19 164:7,14
  164:15 169:10,16
  171:4 173:6.8 174:21
  175:3,17 182:4 185:9
  191:11 215:4,5
  222:17,21 235:5
  246:10 344:1 366:16
  366:17 368:19 369:3
  370:7,12 371:7
  376:12 380:22 382:16
  389:17 400:1,12
  402:7 403:5,15,17
 405:12 409:19 410:8
 410:10,15 412:5,22
  417:10,16 418:4,5
  424:10,12 425:18
 429:11 430:21 435:12
```

440:21 441:6 443:13 444:3 446:22 450:1 453:3 455:7,10 458:19 461:12 481:18 providing 12:19 36:6 63:7,11 100:5 171:8 258:2 264:4 370:7 371:9 390:15 399:20 400:13 **proxies** 243:19 **proxy** 35:6 220:2 psychiatric 126:15 psychiatrist 25:8 psychometric 395:22 452:10 psychosocial 5:14 367:3 388:15 435:10 463:15 psychotic 126:11 **PT** 421:3 public 4:11,19 5:17 11:19 23:8 32:18 34:1 48:18 95:10 104:6 146:22 156:4 159:15 228:11,15 470:18,19 470:21,22 471:1 488:21 publically 134:21 148:12 publicly 152:15 485:15 **published** 113:3 168:16 395:21 417:6 pull 39:5 145:14 **pulled** 24:11 73:13 415:9 **pulling** 415:3 **pulls** 110:1 pulmonary 33:20 278:7 punish 319:17,21 320:2 321:17 punished 154:5 159:17 172:20 320:4 punishing 321:22 punitive 154:21 155:16 **pure** 168:11 purport 182:19 purports 420:3 purpose 177:11 313:2 406:16 purposes 66:7 136:10 150:16 156:11 160:1 337:22 358:8 487:11 **pushes** 198:21 pushing 209:3 221:8 224:9 484:21 put 10:11 31:10 58:15 63:1 110:20 120:3 122:15 133:9 134:14

138:16 151:17 155:8 169:22 184:9 186:7 204:8 243:2 312:18 322:2 329:16 330:20 331:16 347:11 352:12 358:7 377:6 398:13 464:20 483:12,21 putting 57:5 185:22 216:4 476:6 Q Q-48:10 QI 371:6 QIOS 27:4 QQC 41:14

qualified 171:17 260:6 260:11 qualify 245:10 314:22 315:3 335:12 quality 1:1,8 2:17,22 10:4 14:20 15:5,12,21 16:5 17:13 20:19 23:3 24:4,14 26:2,2,11 28:9,14 32:7 34:2 41:13,14 44:9 46:7 48:16 57:20 77:11 83:3 84:20 95:12 141:2 149:12 150:11 150:16 151:13 152:5 154:14 162:16 166:9 177:13 187:21 193:20 195:4 209:22 219:1,1 219:2 230:18 236:19 237:22,22 321:14 324:7 325:14.18 329:6 330:12,13,16 330:18 331:16,17 354:16 367:10,13 368:17 369:4 374:21 380:6 382:19 389:11 394:17 402:4,5,8 403:9,15 444:5 461:17 473:15 **qualms** 60:9 quantified 85:3 quantifies 247:21 quantity 44:9 76:20 quarter 95:4,6,8 108:11 108:20 363:3 quarterback 173:15 quarterly 220:9 question's 212:22 questionable 61:13 194:10 271:18 283:21

quibble 422:3 quick 31:18 39:6 42:15 225:5 244:5 266:6 315:21 345:18 385:10 quicker 67:5 quickly 37:22 67:4 106:12 155:18 262:9 452:8 quiet 216:22 Quinonez 2:7 23:11,12

Quinonez 2:7 23:11,12 103:10,17 192:19 193:8 236:16 253:20 272:14,17,19 287:9 289:14 291:9,13,16 291:18 375:19 376:1 401:21 402:13,19 438:7,22 439:4 quirky 259:13 quite 7:5 35:16 86:18

quite 7:5 35:16 86:18 122:21 127:8 150:4 157:10 217:13,13 226:22 310:22 325:9 326:18 327:11 328:8 341:12 448:15 quorum 37:17 460:20

# R race 246:18 311:21

**auote** 350:9

312:8 329:13 334:2 447:5 449:16 racial 61:3 117:20 253:9 radically 331:14 rails 310:21 311:1,1,6,6 311:9.12 **Rainbow** 3:5,7 raise 62:22 168:3 169:8 252:1 267:5 421:14 457:2 467:1 raised 43:12 57:4 452:12 456:4 465:10 486:2 487:13 raising 62:1,7 Rajiv 2:6 25:16 57:10 73:21 75:9 80:6 83:9 84:16 379:21 380:12 392:7 424:18 441:20 473:5 ramp 124:11 ran 195:6 213:18 256:10 **RAND** 113:9 119:8,19 120:18 131:17 233:8 233:10 238:18

RAND/UCLA 92:4

random 109:1,6 147:2

290:1

304:12.18.21 315:8 315:10 320:12 321:3 321:4,9 336:13,16,18 351:13 362:15 randomized 49:8,9 randomly 93:1 range 51:13 73:14 92:18 99:3 107:2 122:22 173:8 178:19 178:22 190:6,10 206:19 339:6 400:5,9 400:12 407:15,17 447:1 ranged 52:4 231:10 ranges 204:19 253:10 rape 154:4 156:17,19 rapid 283:15 rapport 423:10 rare 100:9,14 324:15 437:21 rarely 216:10 299:20 311:4 437:14 rate 4:8,12 41:7 71:15 91:17 94:9 104:14,20 107:10 120:6 122:2 145:19 206:19 229:14 231:7 233:6 248:5 275:5,13,22 279:8,15 279:20 305:20,22 310:2 311:12 312:1,7 312:20,21 313:11 334:7 339:14,18 340:10 347:1,2,5 382:2,4,7 403:19 473:18 rated 139:19 rater 259:3 rates 51:15 81:9 89:22 90:14 95:2 99:8 105:17 133:1 134:12 135:7,12 147:12 154:5 189:19 190:5 193:1,7 207:9 253:8 273:19 302:8.9 306:6 306:7 307:4 312:3 321:13 328:16,17 331:13 359:7 399:20 401:1 473:20 rating 15:21 133:7 137:4 338:5 ratio 206:18 284:16 303:12,14,20 304:1,4 304:11 306:19

re-enrolled 307:21 re-vote 250:15 413:11 reach 44:18 58:3 212:6 301:3 339:2 reached 42:21 43:2 45:10 88:6 129:17 158:16 287:3 296:16 296:18 339:3 446:11 454:15 reaction 278:16 reactions 397:13 read 144:19 176:13 177:4 217:9 354:18 371:20 393:15 405:4 449:22 readily 52:17 243:5 reading 95:17 97:6 176:8 181:3 293:21 388:7 405:5 readmission 279:15 readmissions 279:7,12 ready 47:2 71:22 116:8 130:5 147:17 154:13 154:15 155:9,15 187:16 251:2 395:20 468:11 real 30:4 52:10 96:2 136:5 139:14 204:11 243:1,20 246:7 280:9 331:19,19 343:6 398:17 421:15 472:9 realities 63:19 reality 63:6 64:9 335:4 389:18 realize 41:4 290:1 422:20 realm 238:2 258:3 reason 11:10 18:15 171:2 219:16 220:21 287:21 299:21 311:18 319:3,20,20,21 320:2 320:17 329:16 reasonable 56:11,13,22 187:8 reasons 13:22 104:3 248:3 270:21 271:12 283:20 309:14 311:10 318:22 319:1,13,13 389:6 reassure 18:13 reassured 80:7 reassuring 79:21 reauthorization 13:20 rebellion 160:11 rebuild 108:2 recall 18:1 164:21 371:22 372:3 452:13

rationale 41:17 42:7

raw 403:19 467:11

re-enroll 320:6

**RD** 2:4

58:18 125:8 463:6,11

**queue** 63:1

questioning 397:11,12

questionnaire 410:2

425:16 430:21

Receipt 50:20

receive 49:9.17 50:1 235:6 relates 211:3 239:6 replicate 312:1 reduced 49:12 279:12 59:11 65:21 83:13 329:5 332:6 reply 91:15 242:19 356:20 **reduces** 332:18 relating 325:10 352:22 report 8:17 38:2 49:4 received 18:3 48:14 reducing 49:13 84:22 relation 174:7 184:22 200:11 212:18 50:18 52:3 231:7 Reeves 3:10 47:6 48:6 relationship 41:17 54:9 231:14 344:6 371:10 374:6 375:17 376:12 242:16 373:6 412:4 48:9,10 58:20 64:15 96:11,13 116:2 120:4 431:11 65:11 66:7,13,20 163:9 173:5 175:13 376:14,15 377:19 receiving 136:3 368:2 67:18,21 69:6,8,19,22 178:12 187:15 204:22 388:9 392:2,3 398:6 recess 428:3 70:8 71:4,17 77:2 307:14 325:2 393:16 404:6,7,10 409:21 398:2 424:5,14,15 recession 353:15 78:3,14 81:6 410:13 411:17,18 refer 42:22 164:10 recognize 9:6 124:10 425:3 429:21 412:1 415:1 420:4 143:19 145:16 234:13 319:14 397:17 relationships 225:12 424:10 430:6,7 270:21 486:1 reference 34:12 433:10 445:16 451:11 226:1,4 recognized 89:18 referral 135:6 297:22 relative 257:1 461:9 367:10 referring 15:13 320:1 relatively 47:15 54:1 reported 14:14,15 90:6 recognizing 484:7 360:3 56:18 66:22 71:2 77:8 133:13 134:21 147:12 recommend 38:17 95:3 refills 77:22,22 78:4 77:16 100:9,14 148:12 164:20 372:5 109:1 136:18 143:4 refined 36:14 94:6 101:11 102:19 104:15 372:9 396:4 397:20 198:20 278:19 386:2 reflect 312:19 411:18 123:4 132:17,18 400:6,7 401:10 447:4 recommendation 38:22 reflected 68:15 104:10 341:10 482:8 485:15,22 43:8,13 108:10,19 171:3 released 16:6 197:14 reporting 14:4,6 23:8 136:8 186:1 reflection 231:16 197:16 32:18 90:10 91:14 recommendations 433:10 relevant 18:10,19 19:13 97:18 128:3 129:16 17:10 50:6 258:10 reflective 77:16 81:14 19:17 24:16 386:15 133:1 146:22 147:8 **reflects** 445:19 152:11 154:4 156:19 367:9 reliable 13:4 52:16 90:8 recommended 39:2 refocus 180:17 91:13 93:20 119:15 156:20.22 157:5 42:19 43:18 88:9 reform 15:8,11 333:19 129:22 157:2 328:5 159:15 165:21 459:15 108:13 120:16 161:12 regard 55:10 240:8,20 338:3 359:17 395:1 472:15 228:7 367:6 370:1 243:3,22 244:15 reliably 55:15 99:8 reports 90:3 109:20,22 376:9 259:19 297:9 361:6 represent 19:2,3 89:13 recommending 257:13 regarding 69:12 283:9 reliant 144:13 90:9 366:21 recommends 49:16 318:18 319:12 329:14 relied 140:10 292:10 representation 9:2 380:22 340:18 341:5 456:4 **reload** 86:11 representatives 20:6 reconsider 263:18 regardless 145:8 353:2 rely 252:14 292:19 165:5 reconsidering 270:5 390:5 relying 146:2 represented 172:16 reconvene 363:3 region 311:20 remain 34:4 37:12 457:14 reconvening 469:17 regionally 324:5 remained 263:7 representing 26:8 record 90:19 91:11 regressed 363:1 remaining 364:11 represents 99:17 93:14 94:18 97:12,19 regression 193:17 remarks 4:2,3 9:22 258:18 100:2 120:9 138:20 regret 465:2 remember 35:20 62:18 reprocess 426:7 138:21 145:2 162:6 regular 219:2,3 412:12 71:5 123:18 135:8 request 43:22 357:15 184:6 300:1 332:8 229:8 363:13 404:5 431:13 357:22 428:7 467:14 490:22 regularly 355:8 431:7 377:21 383:20 413:16 require 212:5 247:2 recorded 290:10 regurgitating 467:8 remembered 384:4 271:13 283:17 324:18 records 50:13 51:4 93:1 rehab 126:15 remembering 47:19 344:16 349:16 396:3 93:2 97:20 99:5 101:6 rehabilitation 28:3,8 remind 19:1 30:1 73:7 486:15 101:12 110:16 144:5 reinforce 8:1 278:17 96:8 188:8 255:21 required 90:19 91:11 154:1 157:3 244:17 reiterate 218:3 reminder 451:4 395:10 474:10 486:4 377:22 rejigger 425:14 **reminds** 279:6 requirement 186:4,6 recurrent 237:12 removal 94:11 108:14 239:10 relate 418:21 462:5 239:21 related 28:16 32:16 Renee 3:3 10:17,19,19 requirements 293:8 recusal 116:15 39:3 60:19 63:18 13:10,16 17:17 396:7 71:12 114:22 139:4 renewal 263:10 requires 95:5 139:11 recuse 26:16 30:15 163:5 205:3 262:10 rent 414:9 145:11 433:2 recusing 169:1 red 377:6,7 378:16,18 270:6 273:5 304:14 repeat 60:11 258:6 requiring 186:10 379:3 382:1 304:15 308:1 324:19 420:18 research 3:2,8 19:21 381:6 412:15 418:1 repeating 380:5 23:4 27:19 46:16 63:9 **redo** 426:18 reduce 52:14 163:13 421:3 replace 39:9 92:21 162:18,20

168:6.18 173:4 Restrooms 6:11 122:15,21 123:2,14 **Robyn** 2:19 32:2 291:21 177:19 268:9 302:4 rests 234:19 124:3 137:19 139:5,6 485:4 368:16 399:13 412:9 resubmission 269:6 139:7 142:18 143:3 **ROC** 59:5,19 result 90:7 230:17 423:22 424:6,7 144:21 147:3 257:18 **role** 28:14 32:4 35:3 researcher 89:9 259:8 348:18 393:5,5 274:21 287:7,10 143:5 147:1 258:12 310:7 325:21 332:3 researchers 24:10 394:3,4 429:13 352:12 residence 247:6 341:19 roles 14:21 150:13 458:16 results 17:2 72:22 75:1 reviewers' 143:20 resident 68:19 roll 16:9 resist 216:4 roll-up 373:2 395:2 79:7 82:6 84:9 87:16 reviewing 7:15 11:20 resistance 55:1 69:16 116:22 118:18 131:2 57:2 76:8 94:20 97:10 rolled 98:22 99:1 70:2,4,22 85:3 137:10 148:2 149:22 97:11 140:21 165:9 193:14 resistant 55:3 152:7,15 158:9 161:9 337:8 370:12 475:3 rolls 142:22 320:7 resolve 30:13 134:1 165:17 188:16 196:3 reviews 93:14,17 95:4,8 room 1:8 9:7,8,13 20:3 resolved 93:11 203:4 210:15 214:13 122:17,17 143:7,7 26:17 30:16,22 37:6,6 227:9 228:5 232:4 resolving 483:19 217:9 264:8,9 283:6 37:12 42:14 45:19 resource 44:5 246:18 254:19 256:6 46:1,5 73:19 140:18 revisit 419:6 resources 97:22 104:8 266:8 286:15 289:5 revisiting 258:14 154:11 184:20 228:2 300:21 317:9 323:9 153:22 283:1,4 430:14 239:9.18 242:15 324:2 338:20 342:10 352:19 447:17 revisits 58:8 248:2 263:20 270:22 respect 35:9 99:12 345:6 348:2 349:2,8 revolves 274:5 271:9 277:2,3 280:1,6 108:18 150:9 445:10 356:3 370:12 374:5 revote 419:7,8,8 425:11 280:7,10,12,14,18 455:9 457:1 399:22 403:7 407:2 428:18,20 433:12,13 281:11 300:18 350:21 **respects** 150:18 434:3 446:9 450:16 365:6 387:6 388:13 433:16 respiratory 290:20 452:15 454:9 460:10 rewarding 348:22 399:16 401:1 402:18 413:12 416:17 436:20 respond 36:9 233:11 464:6 468:22 **rewrite** 438:14 282:11 294:6 299:9 resumed 162:6 229:8 rewrote 419:21 464:5 474:14 488:12 336:2.6 408:3 363:13 428:7 Ricardo 2:7 23:11 roughly 27:1 response 29:13,16,19 103:9 192:18 236:15 retest 452:11 round 88:12 31:4 36:21 53:11 retirement 27:9 82:19 240:13 253:19 272:13 **Rouse** 69:15 74:13 78:20 81:21 retroactive 316:13 292:3 401:18,18 routinely 462:22 466:12 84:2 85:22 86:22 retrospect 280:20 438:6 row 68:1 109:5 279:3 116:7 118:6,9 130:4 retrospective 315:22 rich 277:8,9 477:20 ruler 332:10 147:18 158:2,19 retrospectively 95:18 **richness** 100:17 rules 36:18 316:1 161:3 195:15,19 95:21 145:2 rid 347:7 439:13 196:13 198:12 202:20 return 162:10 rigged 430:18 run 109:20 202:11 210:6,8 214:7 227:18 returning 46:9 rigorous 16:22 368:14 212:9 259:6,6,7 228:20 236:4 253:18 reverse 104:1 368:22 474:9 347:11 rigorously 13:6 92:17 254:4 262:9,14 review 15:5 31:12 34:15 running 153:14 254:13 272:11 282:17 286:3 43:1 54:6 90:19 91:2 Rio 2:6 25:18 355:14 288:6,9 299:2,6 91:10,20 92:1,6 93:15 risk 48:21 54:16 58:6 runs 264:11,13 316:21 322:13,15,18 96:16 99:15 101:18 106:17 120:5 164:3 **rupture** 106:15 338:11 341:17,21 112:22 115:5 119:16 233:2 359:6 447:6 rush 460:15 342:2 347:15 356:10 119:19,19 122:1,2 risk-adjusting 330:14 S 370:21 447:15,16 137:18,20 138:22 risks 69:18 483:14 144:10 149:14 157:2 Rita 3:8 162:11,14 **S** 281:14 responses 232:15 157:8 163:15 165:1,3 **RL** 127:16 s-statistic 257:8 389:13 413:22 174:8 187:20 188:2 **RN** 1:12,18,19 185:3 sabbatical 20:14 responsible 431:17 246:7 264:17 271:15 **RNs** 137:20 safe 490:19 486:13 283:19 381:4 395:9 road 30:6 97:13 404:3 safeguards 155:13 399:21 416:12 426:18 404:13 408:13 438:18 responsive 156:14 safety 5:12 24:14 26:2 robust 12:17 13:13 rest 97:13 101:21 reviewed 16:18 33:10 33:22 89:15,21 92:12 252:22 269:4 92:22 204:21 244:16 101:11 120:20 128:11 92:12 95:11,13 104:9 417:5 129:22 153:3 157:10 restart 229:11 104:18 105:22 115:2 reviewer 95:6 142:12 234:14 237:14 286:1 **restate** 430:3 115:19 116:3 127:10 276:12 restricted 107:4 299:19 129:15,21 130:1 restricting 245:13 reviewers 57:9 69:17 **robustly** 105:21 133:19 141:2 277:6 93:4,4,6,10,13,16,22 robustness 122:14 367:4 379:1 435:9 283:19 restrictive 241:1 242:1 94:2,16 97:8 121:5 487:5 461:5 462:1 463:3

II.	1	1	1
<b>sake</b> 375:11	229:1	32:20 63:18 65:12	178:20 244:18 266:17
salt 388:4	scheduled 170:6 363:2	108:16 149:9 150:10	302:7 316:15 331:7
sample 61:2,14 75:16	schemes 279:17	164:18 169:12 170:5	334:22 335:19 340:17
80:1 99:16 100:22	<b>Schiff</b> 2:8 24:1,1 53:9	170:20 219:10 239:9	351:16 355:9 362:7
117:13 165:11 166:7	60:1 70:20 73:11	260:14 304:7 311:18	377:13,13 475:8
178:16,17 189:13	75:21 80:14 81:3,5,18	336:3 345:5 413:1	sensitive 91:13 164:4
190:1,8 191:14,17,19	82:15,21 83:7 85:6	446:3,4 456:9 488:1	164:13 209:16 213:20
192:7,11 205:8,9	112:2,14 151:4,10	secondary 93:5,10,16	214:2 215:9
332:17 407:12	160:3,8,10,18,21	94:2 122:2,13,14	sensitivity 50:14 59:1
sampled 108:20	168:22 245:22 281:1	137:19 143:7	59:20 121:5,11,16
sampling 108:10,14,18	309:3,5 315:21	Secondly 484:1	123:1,15 124:2,15
109:2	316:12,16 332:22	secret 192:3	131:12
<b>Sara</b> 3:16 89:11	344:12 351:7 359:9	section 264:18 317:16	sent 255:5 258:13
<b>Sarah</b> 3:10 48:10	360:10	375:18	274:15 366:16 381:14
<b>SAS</b> 212:7 213:7	school 1:15 2:2,7 3:6	sections 366:14 373:12	404:20 405:15 409:3
256:12 259:6 345:4	3:11,17 4:19 23:18	373:17	453:4,6,9
sat 18:17 255:14 387:8	26:1 443:16	seeing 10:9 58:2 84:3	sentence 188:1
satisfaction 392:15	schools 39:12	86:1 106:8 136:6,15	sentiment 114:2
430:7	<b>Schuster</b> 3:10 89:10	169:9 174:1,14,15	sentinel 97:18,22
satisfactory 398:17	scientific 2:13 38:12	175:2 179:13,14	separate 185:20 424:6
saturation 281:14	414:19	180:7 190:16 192:16	424:7
282:5 290:10	scientifically 13:6	202:9 221:7 222:6	sepsis 58:6
saturations 299:19	16:21	235:13 244:12 254:5	series 90:4 124:8
<b>sauce</b> 192:3	scope 127:8 134:2	256:19 257:3 316:22	139:13 362:21 381:7
<b>save</b> 91:5 318:4 386:10	245:8 246:12 360:19	318:15 334:6 341:22	serious 103:3 133:21
388:15	score 51:8 130:15	423:14 438:1 443:20	217:21 438:3
savings 207:19 209:8	175:1 204:18 258:4	444:1	seriously 217:13
209:10	294:9 324:6 325:18	seeking 284:3	serve 12:5,16 21:7 26:4
saw 179:6 197:6 198:3	337:19 338:2 382:18	seen 65:4 68:12 166:2	95:11 286:12
202:8 244:22 277:19	score-level 396:3	175:21,22 180:13,13	served 19:15 93:3
353:14 413:6 422:15 429:11 442:18 475:21	scores 52:8 190:10,17 292:8 325:13 341:14	216:10,19 218:6	service 15:10 19:4 182:3 246:3 321:19
486:10,10	373:16 383:3 403:19	242:14 384:13 400:5 sees 164:14 222:3,5	321:20 398:5 430:1
saying 28:22 78:12	423:5,9,13,19	segment 448:13	481:5
108:12 129:12 154:19	scoring 382:7	seldom 311:14	services 2:3,9 3:3,9
155:8 173:21 205:11	screen 385:1 444:11	select 109:7 241:12	14:11 22:20 33:1,2,3
221:11 223:7 236:17	screener 463:1	selected 93:1	33:5 46:18 68:5 89:9
247:19 262:15 270:13	screening 5:15 34:4	selection 24:4	277:6 307:18 352:16
287:2 305:12 306:11	50:13 81:9 91:14	self- 352:7	369:5 391:8
319:5 320:12 326:12	367:4 388:15 435:10	self-report 415:7	serving 32:3
326:19 337:1 350:22	463:15	self-reported 429:7	SES 246:21
377:14 379:15 380:9	screens 42:15 59:17	self-reporting 127:16	<b>session</b> 428:10
380:10 389:19 392:22	script 289:15 291:10	semi-real-time 389:14	set 14:6,12 16:7 17:7
411:16 417:1 418:13	scripts 77:21	senator 309:1	36:7 65:14,17,22
424:3 445:17 460:15	<b>se</b> 64:1	senators 354:22	66:12,21 76:17
says 105:18 176:10	seamless 66:11	send 376:13 385:13,17	101:16 142:12 264:22
215:2 219:11 220:22	search 316:5,6	408:12 426:12 452:13	269:20 271:17 311:1
281:21 293:22 294:1	searches 384:15	452:15,18 453:3,17	343:19 344:18 346:21
303:16 305:18 388:10	season 304:20	467:10	346:22 365:14 441:17
420:9 442:1 443:12 458:18	seasonal 314:22 334:18	sending 40:4 408:11 436:3	446:3 459:7 464:17 472:3 473:18 478:11
scale 133:8,10 204:6	seasonality 260:13	<b>Senior</b> 2:14,20,21 21:8	478:12 487:6
scales 188:9	seasonally 267:21	22:17 31:17 32:4,9	sets 15:17 16:6 48:12
scan 94:17	seat 23:9 41:4 42:13	sense 12:3 65:5 76:19	76:13 353:21
scanned 100:2	162:3,10 379:1	104:21 106:22 107:3	setting 15:1 22:9,10
scenario 309:22 310:1	388:12 477:16,19	108:21 113:6 129:1,2	105:22 146:14 249:3
364:12	<b>Seattle</b> 3:2,8 162:17	135:17 139:3 151:1	273:16 353:6
schedule 162:9 228:22	second 7:18 26:9 27:8	167:9 168:13 169:6	settings 32:19 92:18,21
			,
••			

II
99:10 107:11,13
180:12 442:14
seven 16:6 21:19 22:2
79:8 167:4,7 168:1
256:15 455:7 457:15
458:5,5,7,11
several-year 67:1
severe 126:12
severity 93:9 122:7
133:7 135:11 281:5,6
285:11,20
sex 304:19 346:20
shaking 301:8
<b>Shantanu</b> 2:12 7:2
484:10
<b>share</b> 16:11 18:9
223:12,14 232:9
278:15
shared 152:15 169:13
232:9,17 256:9 488:1
<b>SharePoint</b> 490:11,12
<b>sharp</b> 363:11
sheet 96:9,10
<b>sheets</b> 337:10
<b>Shield</b> 1:19 21:11 27:5
shifts 396:22
shocked 74:2
<b>shop</b> 212:9
<b>short</b> 163:5 196:17
short-acting 268:2
shortly 399:18 shot 75:10 482:17
shots 68:20 444:11
show 54:14 214:1 257:4
281:7 303:4 304:4
305:2 306:16 326:21
328:2 329:10 346:9
376:18,19,22 377:2,6
378:15 399:13 402:3
428:19 440:1 455:9
showed 121:4 287:10
295:21 328:6,19
357:13 374:14 399:15
400:9 401:1 405:11
447:8
<b>showing</b> 165:18 339:11
382:22 383:6
shown 90:5 91:12
337:13 400:20
<b>shows</b> 249:6 280:9
291:1 402:17 412:10
423:18 456:22
sick 216:12 218:17,17
219:2 221:2 247:12
248:2 328:22
sicker 102:16
sickest 136:4 192:8
sickle 4:7 48:14,16,20
, , , ,
П

49:16 50:1,5,8,11,18 51:19 52:1,15 55:15 59:4,6,14 63:17 64:21 65:3 sickle-cell- 63:11 side 12:14 21:21 23:9 58:9 99:19 311:2,3 344:21 sight 190:1 sign 236:19 470:10 signal 221:14 239:11 248:11 428:3 signal-to-noise 51:9 signed 394:20 significance 189:16,17 190:3 328:2 477:1 **significant** 53:22 54:2 57:18 58:12 73:19,19 74:4 80:15 83:3 110:21 190:17 371:8 401:12 452:19 significantly 55:22 123:16 375:12 **Silber** 3:11 302:2,3 309:19 311:9 313:2 313:13 314:20 315:2 315:7 316:4.15 319:14 321:21 326:18 327:2 329:8 330:20 334:4 335:14 336:2,8 341:1 344:19 346:3 353:19 354:4,10 357:10 358:12,17,20 359:21 360:1,6,20 361:1 362:11 Silber's 195:2 similar 121:13 184:17 202:9 206:11 232:4 256:20 287:12 305:15 367:18 456:15 459:4 460:22 465:6,21 similarly 269:18 339:20 408:3 simple 57:22 204:9 273:14 simplest 109:3 simply 90:10 94:22 336:18 Simultaneous 65:9 67:8,20 114:15 296:15 360:9 378:14 379:13 419:18 420:16 **Sinai** 263:6,8 Sing 470:1 single 77:21 97:19 163:9,18 174:20 181:10 193:21 200:16 231:15 264:21 290:22

387:12 388:5 427:20 456:4 463:2 485:10 singling 439:8 **sister** 470:1 sit 8:20 15:12 19:1 21:19 216:15 388:8 467:7 486:16 **sitting** 41:5 181:17 467:11 488:10 situation 44:22 403:3 434:10 475:21 484:17 six 51:10,15 84:11 118:19 129:10 131:3 198:14 223:2 256:15 299:15 342:12 345:19 354:8 373:12,13 409:14,17 423:14 452:22 **size** 61:3,14 75:16 80:2 99:16 189:13 190:1,8 191:15,17,19 332:16 407:12 **skeptical** 80:11 193:12 skewered 151:8 **skills** 226:18 **slate** 12:17 13:13 slide 35:1.1 37:3 38:8 41:2 42:10 43:19 86:11 slides 32:11 40:1 slight 257:15 304:19 311:15 slightly 124:6 372:15 **slow** 104:15 small 54:1 61:2.13 80:4 163:10,18 164:13 169:9 178:2 215:4,5 215:12 218:19 222:16 257:1 274:8 297:19 312:14 327:13 438:5 smaller 80:2 136:14 **smart** 485:2 smoking 415:7 **smooth** 480:6 snapshot 354:7 **sneak** 318:2 **Snuck** 289:2 so-90:14 so-called 94:8 485:14 social 172:5,18 246:2,4 273:17 352:16 447:7 societies 92:9 society 18:18 19:16 sociodemographic 399:15 socioeconomic 401:3,9 403:6 407:13

solid 135:2 235:6 **Solloway** 3:12 365:1,2 365:20 373:10 375:21 376:7 377:17 378:6 378:11,15 379:7,12 379:17 381:13,18,20 382:6,10,14 384:5 385:13 405:17 406:1 406:5 410:4,17 412:6 416:1 417:8,18 418:3 418:10 419:3 423:20 435:6,17,18 436:22 437:7 453:2,15 455:5 459:18,22 463:7,13 470:12 solo 432:19 solution 307:4 Solutions 127:16 solve 280:6,8 somebody 30:3 174:1 175:2 179:6 222:6 259:10 281:12 350:21 440:19 467:9 **somebody's** 326:13 somewhat 106:13 259:17 327:15 362:21 soon 15:17 453:17 sooner 263:4 sophisticated 144:14 **sore** 219:8 **sorry** 46:14,20 62:11 69:8,13,19 71:7 76:9 96:22 106:3 127:14 159:1 166:21 180:20 184:14,16,18 188:10 232:10 240:15 270:12 276:12 286:16,22 296:9,22 317:20 371:5 375:22 379:17 386:6 401:22 408:7 416:6,10,18 420:17 435:17 449:20 451:18 451:21 455:16 457:4 458:2 470:5.8 sort 32:3 47:10 91:11 97:16 101:8,14,19 107:13 108:12 113:10 114:8 119:17 120:18 121:11 122:14,22 126:7,14 128:21 132:21 135:9 136:11 139:18 143:18 146:19 153:2 154:3 177:6 178:21 218:16 219:4 220:1,9 221:22 223:22 224:15 225:12 234:13,14,15,18,22 245:4 251:19 258:3

**solely** 238:4

269:11 276:4 277:11 282:19 284:21 294:10 295:7 337:9 355:11 359:18 361:5 365:14 375:17 391:19 396:12 397:9 418:15 419:19 423:11 437:3 441:12 445:1 448:6 458:8,8 482:4 487:6 488:4 sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish-speaking 49:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 449:10 speaks 246:16 481:11 specialists 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 specialists 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specific 337:3 345:14 441:14 447:13 456:18 457:19 463:14  standard 13:21 33:11 50:12 122:13,11,13 222:13,16 306:9,11	ı	İ		
282:19 284:21 294:10 295:7 337:9 355:11 359:18 361:5 365:14 375:17 391:19 396:12 397:9 418:15 419:19 423:11 437:3 441:12 445:1 448:6 458:8,8 482:4 487:6 488:4 sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 202:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 49:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 specialists 442:10 specialists 183:11 275:8 275:11 specialists 442:10 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18		269·11 276·4 277·11	specifically 11·11	
295:7 337:9 355:11 359:18 361:5 365:14 375:17 391:19 396:12 397:9 418:15 419:19 423:11 437:3 441:12 445:1 448:6 458:8,8 482:4 487:6 488:4 sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 49:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 specialists 442:10 specialist 183:11 275:8 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 3367:19 378:1,2 395:14 441:14 447:13 456:18  112:10 197:3 218:5 2260:18 293:4 324:15 377:3 388:14,16 417:21 458:18 specification 51:1 239:22 291:5 297:7 specification 51:1 239:22 291:5 297:7 specification 51:1 239:22 291:5 297:7 specification 51:1 239:22 291:5 297:7 specification 51:1 239:22 291:5 297:7 specification 51:1 239:22 291:5 297:7 specification 51:4 418:18 235:18 236:1 291:15 292:4 323:18 specificity 50:15 59:2 59:20 91:18 121:4 129:20 specification 51:1 29:175 292:4 323:18 451:3 specification 51:4 181:18 295:18 236:1 299:16 specification 51:4 181:18 235:18 236:1 291:15 292:4 323:18 specification 51:4 181:18 235:18 236:1 291:15 292:4 323:18 specification 51:4 181:18 235:18 236:1 291:15 292:4 323:18 specification 51:4 181:18 295:18 236:1 299:16 specificity 50:15 59:2 59:20 91:18 121:4 122:20 specification 51:4 181:18 295:18 236:1 299:16 specification 51:4 181:18 295:18 236:1 299:16 specification 51:4 181:18 295:18 236:1 299:16 specification 51:4 181:18 295:18 236:1 299:16 specification 51:4 181:18 295:18 236:1 299:16 specification 51:4 181:18 295:18 236:1 299:16 spec				
359:18 361:5 365:14 375:17 391:19 396:12 397:9 418:15 419:19 423:11 437:3 441:12 445:1 448:6 458:8,8 482:4 487:6 488:4 sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 :8,9 specification 51:1 239:12 529:14 323:18 451:3 specification 51:1 239:12 529:14 323:18 451:3 specification 51:1 239:12 529:14 529:1  Specification 51:1 239:12 529:14 529:1  Specification 51:1 239:12 529:14 529:1  181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 181:18 235:18 236:1 199:16 spectrum 153:8 spectifict 37:16 481:8				
375:17 391:19 396:12 397:9 418:15 419:19 423:11 437:3 441:12 445:1 448:6 458:8,8 482:4 487:6 488:4 sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 specialists 442:10 specialist 18:11 275:8 275:11 specialists 442:10 specialist 48:11 275:8 29:31 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
397:9 418:15 419:19 423:11 437:3 441:12 445:1 448:6 458:8,8 482:4 487:6 4488:4 sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:44,818 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 specialists 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:10 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
423:11 437:3 441:12 445:1 448:6 458:8,8 482:4 487:6 488:4 sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 202:13 source 202:13 source 202:13 source 202:14 18:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:10 specialist 442:10 specialist 442:10 specialist 183:11 275:8 275:11 specialist 442:10 specialist 39:214 441:1 4447:13 456:18 specification 51:1 239:22 291:5 297:7 specifications 61:4 181:18 235:18 236:1 291:15 292:4 323:18 specificity 50:15 59:2 59:20 91:18 121:4 122:20 specifica 157:9 299:16 299:16 spectrum 153:8 specds 95:1 145:6 speld 47:10 spend 147:10 spend 147:10 spend 147:10 spend 27:10 481:8 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 359:18 440:22 489:6 spoke 92:1 255:11 specialist 42:10 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 122:1 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
445:1 448:6 458:8,8 482:4 487:6 488:4 sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 specialists 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:21 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
## south ##				
sorts 350:18 361:17 sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 sources 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:10 specialist 44:10 specialist 44:10 specialist 19:20 63:7 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18		,		
sound 264:5 sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8;18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialty 14:9 68:7 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
sounded 255:6 395:19 sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 sources 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 183:11 275:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
sounding 74:4 sounds 48:8 64:13 65:7 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 44:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:10 specialist 183:11 275:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
59:20 91:18 121:4 69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 sources 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 49:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 121:4 122:20 specified 157:9 299:16 spectrum 153:8 speeds 95:1 145:6 spell 47:10 spend 141:12 223:17 398:7 467:3 spent 25:17 140:20 141:6 471:6 sphere 20:17 Spiderman 350:10 spilit 395:13 462:19 463:6 spoke 92:1 255:11 292:3 spoken 269:22 352:4 spoke 92:1 255:11 292:3 spoken 269:22 352:4 spoke 92:1 255:11 292:3 specified 157:9 299:16 spectrum 153:8 speeds 95:1 145:6 spell 47:10 spend 141:12 223:17 398:7 467:3 spent 25:17 140:20 141:6 471:6 sphere 20:17 Spiderman 350:10 spilit 395:13 462:19 463:6 spoke 92:1 255:11 292:3 specified 157:9 299:16 spectrum 153:8 speeds 95:1 145:6 spell 47:10 spend 141:12 223:17 398:7 467:3 spent 25:17 140:20 141:6 471:6 sphere 20:17 Spiderman 350:10 spilit 395:13 462:19 463:6 spoke 92:1 255:11 292:3 spoken 269:22 352:4 spoke 92:1 255:11 292:3 spoken 269:22 352:4 spoke 92:1 255:11 292:3 spoken 269:22 352:4 spoke 92:1 255:11 292:3 spoken 269:22 352:4 spoke 92:1 255:11 292:3 spoke 12:1,2,11,13 292:3 spoken 269:22 352:4 spoke 92:1 255:11 292:3 spoken 26:10 spectrum 153:8 speeds 95:1 145:6 spell 47:10 spect				
69:5 230:14 258:2 260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 50:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 specifics 377:16 481:8 specificd 157:9 299:16 spectrum 153:8 speeds 95:1 145:6 specid 47:10 spend 141:12 223:17 398:7 467:3 spent 25:17 140:20 141:6 471:6 sphere 20:17 Spiderman 350:10 split 395:13 462:19 463:6 Spoke 92:1 255:11 292:3 spoken 269:22 352:4 spok 485:7 stab 117:11 stable 177:21 178:4,22 staff 2:10 16:12 30:12 31:9 37:21 72:12 90:3 138:1 232:9 255:4 278:9 293:12 366:1 385:17 394:14 404:2 439:14 481:2 482:18 483:1,12 487:16 stage 122:20 specifics 377:16 481:8 specified 157:9 299:16 spectrum 153:8 speeds 95:1 145:6 spell 47:10 spend 141:12 223:17 398:7 467:3 spent 25:17 140:20 141:6 471:6 sphere 20:17 Spiderman 350:10 split 395:13 462:19 463:6 spoke 92:1 255:11 292:3 spoken 269:22 352:4				
260:22 291:6 383:12 384:19 418:12 453:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:10 specialist 449:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
384:19 418:12 453:13 source 202:13 source 202:13 source 60:19 South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 183:11 275:8 275:11 specialist 442:10 specialist 183:11 275:8 275:11 specialist 442:10 specialist 183:12 277:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18			_	
source 202:13         299:16           south 66:8         spectrum 153:8           Southern 20:21 418:8,9         speeds 95:1 145:6           space 7:17 10:5 387:17         387:18           Spanish 404:20,21         405:15,19,21 406:5           448:4         spend 141:12 223:17           Spanish-speaking         449:11           449:11         speak 30:4,9 35:2 37:22           42:17 43:21 62:20         106:4,8,18 107:18           108:3 151:4 175:19         185:20 226:3 301:20           412:8 416:8 449:7         463:6           463:9         speaker 62:18 247:18           speaking 19:20 65:9         67:8,20 113:4 114:15           222:3 296:15 360:9         378:14 379:13 392:16           412:2 419:18 420:16         435:16,16,18 437:2           449:10         speaks 246:16 481:11           special 24:18,19 29:8         359:18 440:22 489:6           specialist 183:11 275:8         275:11           specialists 442:10         specialists 442:10           specialist 5 10:2 127:21         148:17 192:8 232:8           493:11 344:12 367:19         378:1,2 395:14           441:14 447:13 456:18         46:6 153:5 256:22           257:2,9 262:17				
sources 60:19         spectrum 153:8           Southern 20:21 418:8,9         speeds 95:1 145:6           space 7:17 10:5 387:17         387:18           Spanish 404:20,21         405:15,19,21 406:5           448:4         Spanish-speaking         449:11           speak 30:4,9 35:2 37:22         42:17 43:21 62:20         106:4,8,18 107:18         5piderman 350:10           108:3 151:4 175:19         185:20 226:3 301:20         412:8 416:8 449:7         463:6           442:8 416:8 449:7         463:9         speaking 19:20 65:9         5poke 92:1 255:11         292:3           speaking 19:20 65:9         57:8,20 113:4 114:15         222:3 296:15 360:9         378:14 379:13 392:16         445:10         435:16,16,18 437:2         449:10         449:10         359:18 440:22 489:6         435:17 394:14 404:2         435:17 394:14 404:2         439:14 481:2 482:18         483:1,12 487:16         435:17 394:14 404:2         435:17 394:14 404:2         439:14 481:2 482:18         483:1,12 487:16         435:17 394:14 404:2         439:14 481:2 482:18         483:1,12 487:16         435:17 394:14 404:2         435:17 394:14 404:2         435:17 394:14 404:2         439:14 481:2 482:18         483:1,12 487:16         435:17 394:14 404:2         439:14 481:2 482:18         483:1,12 487:16         435:17 394:14 404:2         435:13 39:14         481:2 482:18         483:1,12 487:1			-	
South 66:8 Southern 20:21 418:8,9 space 7:17 10:5 387:17 387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 specialists 442:10 specialist 18:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18	Į			
Southern 20:21 418:8,9         space 7:17 10:5 387:17         spell 47:10         spend 141:12 223:17           387:18         398:7 467:3         398:7 467:3         spend 141:12 223:17           398:7 467:3         398:7 467:3         spend 141:12 223:17           398:7 467:3         398:7 467:3         spend 141:12 223:17           398:7 467:3         398:7 467:3         spend 141:16 20           448:4         48:4         spend 147:10           5panish 404:20,21         449:11         spend 26:17           5panish-speaking         449:11         spled 47:6           49:11         speak 30:4,9 35:2 37:22         spled 47:6         441:6 471:6           49:11         speak 30:4,9 35:2 37:22         spled 483:10         spled 483:10           40:13         spled 483:10         spled 483:10           40:14:8 416:8 449:7         463:6         spled 483:10           40:19         463:6         spled 483:10           40:19         463:6         spled 483:10           40:10         speake 62:18 247:18         spoke 92:1 255:11           40:10         speaks 246:16 481:11         special 24:18,19 29:8         359:18 440:22 489:6           40:10         specialist 183:11 275:8         275:11         385:17 394:14 404:2         <				
space 7:17 10:5 387:17         spend 141:12 223:17           387:18         spanish 404:20,21         405:15,19,21 406:5         448:4         spent 25:17 140:20           Spanish-speaking 449:11         speak 30:4,9 35:2 37:22         5piderman 350:10         spirit 156:14         splendid 483:10         spirit 156:14         splendid 483:10	Į	<b>Southern</b> 20:21 418:8.9		
387:18 Spanish 404:20,21 405:15,19,21 406:5 448:4 Spanish-speaking 449:11 speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 specialists 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 183:11 275:8 275:11 specialists 442:10 specialist 183:11 275:8 275:11 specialist 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
405:15,19,21 406:5 448:4  Spanish-speaking 449:11  speak 30:4,9 35:2 37:22 42:17 43:21 62:20 106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9  speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10  speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 specialists 442:10 specialists 442:10 specialist 183:1275:8 275:11 specialists 442:10 specialist 183:13 275:8 275:11 specialist 183:13 275:8 275:13 specialist 183:13 275:8 275:13 specialist 183:13 275:8 275:13 specialist 183:13 275:8 275:14 special 24:18,19 463:6 split 483:10 split 395:13 462:19 463:6 splitting 278:20 SPOE 138:6 spoke 26:22 352:4 spoke 92:1 255:11 292:3 spoken 269:22 352:4 spok 48:7 stab 117:11 stable 177:21 178:4,22 staff 2:10 16:12 30:12 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:12 90:3 31:9 37:21 72:1		387:18	398:7 467:3	
448:4       Spanish-speaking       speak 30:4,9 35:2 37:22       spirit 156:14         49:11       speak 30:4,9 35:2 37:22       spirit 156:14         42:17 43:21 62:20       106:4,8,18 107:18       split 395:13 462:19         106:4,8,18 107:18       463:6       splitting 278:20         185:20 226:3 301:20       SPOE 138:6       spoke 92:1 255:11         43:9       speaker 62:18 247:18       spoke 92:1 255:11         292:3       spoken 269:22 352:4       spoke 92:1 255:11         292:3       spoken 269:22 352:4       spoke 92:1 255:11         292:3       spoken 269:22 352:4       spoken 269:22 352:4         spoke 92:1 255:11       spoken 269:22 352:4       spoken 269:22 352:4         spoken 269:22 352:4       spoken 269:22 352:4       spoken 269:22 352:4         spoken 269:22 352:4       spoken 269:22 352:4       spoken 269:22 352:4         spoken 269:22 352:4       spoken 269:22 352:4       spoken 269:22 352:4         spoken 269:22 352:4       spoken 269:22 352:4       spoken 269:22 352:4         spoken 269:22 352:4       spoken 269:22 352:4       spoken 269:22 352:4         spoken 269:22 352:4       spoken 269:22 352:4       spoken 269:22 352:4         spoken 269:22 352:4       spoken 269:22 352:4       spoken 269:22 352:4         spoke			spent 25:17 140:20	
Spanish-speaking         A49:11         Speak 30:4,9 35:2 37:22         Spirit 156:14         spirit 156:14         spleak 30:4,9 35:2 37:22         Spirit 156:14         spleak 30:4,9 35:2 37:22         Spirit 156:14         spleak 30:4,9 35:2 37:22         spleak 30:4,9 35:13 462:19         463:6         spleak 92:1 255:11         spoke 92:1 255:11         292:3         spoke 92:1 255:11         292:3         spoken 269:22 352:4         spoke 92:1 255:11         stable 177:21 178:4,22         stable 177:21 178:4,22         staff 2:10 16:12 30:12         31:9 37:21 72:12 90:3         138:1 232:9 255:4         278:9 293:12 366:1         385:17 394:14 404:2         439:14 481:2 482:18         483:1,12 487:16         staff's 338:5         stage 122:1,2,11,13         283:3         stakeholder 92:5         stakeholders 156:1         233:7 303:5 316:5         354:18         standard 13:21 33:11         50:12 122:16 131:15         146:6 153:5 256:22         257:2,9 262:17		405:15,19,21 406:5		
449:11       speak 30:4,9 35:2 37:22       split 156:14         42:17 43:21 62:20       106:4,8,18 107:18       split 395:13 462:19         108:3 151:4 175:19       463:6       splitting 278:20         185:20 226:3 301:20       SPOE 138:6       spoke 92:1 255:11         463:9       spoke 92:1 255:11       292:3         speaking 19:20 65:9       67:8,20 113:4 114:15       spoken 269:22 352:4         222:3 296:15 360:9       spoken 269:22 352:4         378:14 379:13 392:16       spoken 269:22 352:4         412:2 419:18 420:16       435:16,16,18 437:2         449:10       speaks 246:16 481:11         special 24:18,19 29:8       359:18 440:22 489:6         specialist 183:11 275:8       275:11         specialists 442:10       specialists 442:10         specialist 19       463:6         spoke 92:1 255:11       292:3         spoken 269:22 352:4       spoke 169:22 352:4         spoke 92:1 255:11       292:3         spoken 269:22 352:4       spoke 17:1         spoken 269:22 352:4       spoken 269:22 352:4         spoken 269:22 352:4       s				
speak 30:4,9 35:2 37:22         42:17 43:21 62:20         splendid 483:10           106:4,8,18 107:18         463:6         split 395:13 462:19           108:3 151:4 175:19         463:6         splitting 278:20           185:20 226:3 301:20         412:8 416:8 449:7         463:6         splitting 278:20           412:8 416:8 449:7         463:9         spoke 92:1 255:11         292:3           speaker 62:18 247:18         spoken 269:22 352:4         spoke 92:1 255:11         292:3           spoken 269:22 352:4         spoke 92:1 255:11         292:3         spoken 269:22 352:4         spoke 92:1 255:11         292:3         spoken 269:22 352:4         spoke 92:1 255:11         292:3         spoken 269:22 352:4         spoke 92:1 255:11         292:3         spoken 269:22 352:4         spoken 269:22 352:4         spoke 92:1 255:11         stable 177:21 178:4,22         staff 2:10 16:12 30:12         31:9 37:21 72:12 90:3         138:1 232:9 255:4         278:9 293:12 366:1         385:17 394:14 404:2         439:14 481:2 482:18         483:1,12 487:16         staff's 338:5         stage 122:1,2,11,13         283:3         stakeholder 92:5         stakeholder 92:5         stakeholders 156:1         233:7 303:5 316:5         354:18         standard 13:21 33:11         50:12 122:16 131:15         146:6 153:5 256:22         257:2,9 262:17				
42:17 43:21 62:20       split 395:13 462:19         106:4,8,18 107:18       463:6         108:3 151:4 175:19       spiltting 278:20         185:20 226:3 301:20       spoke 92:1 255:11         463:9       spoke 92:1 255:11         speaker 62:18 247:18       spoke 92:1 255:11         speaker 62:18 247:18       spoke 92:1 255:11         speaker 62:18 247:18       spoke 92:1 255:11         spoke 92:1 255:11       292:3         spoken 269:22 352:4       spoke 92:1 255:11         292:3       spoken 269:22 352:4         spoke 92:1 255:11       292:3         spoken 269:22 352:4       spoke 92:1 255:11         292:3       spoken 269:22 352:4         spoke 92:1 255:11       292:3         spoken 269:22 352:4       spot 485:7         stable 177:21 178:4,22       staff 2:10 16:12 30:12         31:9 37:21 72:12 90:3       138:1 232:9 255:4         278:9 293:12 366:1       385:17 394:14 404:2         435:16,16,18 437:2       439:14 481:2 482:18         483:1,12 487:16       staff's 338:5         275:11       specialists 442:10       283:3         specialist 94:10       specialist 183:11 275:8       354:18         275:11       233:7 303:5 316:5       354:18		_		
106:4,8,18 107:18 108:3 151:4 175:19 185:20 226:3 301:20 412:8 416:8 449:7 463:9 speaker 62:18 247:18 speaking 19:20 65:9 67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 specialists 442:10 specialist 183:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18				
108:3 151:4 175:19   185:20 226:3 301:20   412:8 416:8 449:7   463:9   speaker 62:18 247:18   speaking 19:20 65:9   67:8,20 113:4 114:15   222:3 296:15 360:9   378:14 379:13 392:16   412:2 419:18 420:16   435:16,16,18 437:2   449:10   speaks 246:16 481:11   special 24:18,19 29:8   359:18 440:22 489:6   specialists 442:10   specialist 183:11 275:8   275:11   specialists 442:10   specialist 14:10 21:21:11 13:283:3   stakeholder 92:5   stakeholder 92:5   stakeholder 92:5   stakeholder 92:5   stakeholder 13:21 33:11   283:3 34:18   standard 13:21 33:11   50:12 122:16 131:15   146:6 153:5 256:22   257:2,9 262:17				
185:20 226:3 301:20				
412:8 416:8 449:7       spoke 92:1 255:11         463:9       speaker 62:18 247:18       spoken 269:22 352:4         speaking 19:20 65:9       67:8,20 113:4 114:15       spoken 269:22 352:4         67:8,20 113:4 114:15       spoken 269:22 352:4         378:14 379:13 392:16       stable 177:21 178:4,22         412:2 419:18 420:16       31:9 37:21 72:12 90:3         435:16,16,18 437:2       138:1 232:9 255:4         449:10       278:9 293:12 366:1         speaks 246:16 481:11       385:17 394:14 404:2         439:14 481:2 482:18       483:1,12 487:16         specialist 183:11 275:8       staff's 338:5         275:11       specialists 442:10         specialists 442:10       specific 33:15 42:7         44:7 50:22 63:12 77:7       233:7 303:5 316:5         108:5 110:2 127:21       233:7 303:5 316:5         148:17 192:8 232:8       293:11 344:12 367:19         278:9 293:12 366:1       243:14 481:2 482:18         275:11       385:17 394:14 404:2         433:3       38takeholder 92:5         378:1,2 395:14       34:13 3:11         44:14 447:13 456:18       50:12 122:16 131:15         146:6 153:5 256:22       257:2,9 262:17				
## speaker 62:18 247:18   speaker 62:18 247:18     speaking 19:20 65:9     67:8,20 113:4 114:15     222:3 296:15 360:9     378:14 379:13 392:16     412:2 419:18 420:16     435:16,16,18 437:2     449:10     speaks 246:16 481:11     special 24:18,19 29:8     359:18 440:22 489:6     specialist 183:11 275:8     275:11     specialists 442:10     specialists 442:10     specialists 442:10     specialists 442:10     specialist 33:15 42:7     44:7 50:22 63:12 77:7     108:5 110:2 127:21     148:17 192:8 232:8     293:3     spoken 269:22 352:4     stab 117:11     stable 177:21 178:4,22     staff 2:10 16:12 30:12     31:9 37:21 72:12 90:3     138:1 232:9 255:4     278:9 293:12 366:1     385:17 394:14 404:2     439:14 481:2 482:18     483:1,12 487:16     stage 122:1,2,11,13     283:3     stakeholder 92:5     stakeholders 156:1     233:7 303:5 316:5     354:18     standard 13:21 33:11     50:12 122:16 131:15     146:6 153:5 256:22     257:2,9 262:17				
speaker 62:18 247:18spoken 269:22 352:4speaking 19:20 65:967:8,20 113:4 114:1567:8,20 113:4 114:15spot 485:7222:3 296:15 360:9stable 177:21 178:4,22378:14 379:13 392:16stable 177:21 178:4,22412:2 419:18 420:1631:9 37:21 72:12 90:3435:16,16,18 437:2138:1 232:9 255:4449:10278:9 293:12 366:1speaks 246:16 481:11385:17 394:14 404:2special 24:18,19 29:8439:14 481:2 482:18359:18 440:22 489:6439:14 481:2 482:18specialist 183:11 275:8483:1,12 487:16275:11specialists 442:10staff's 338:5specialist 34:15stakeholder 92:5stakeholder 92:5stakeholders 156:1233:7 303:5 316:5354:18293:11 344:12 367:19378:1,2 395:14441:14 447:13 456:18257:2,9 262:17				
speaking 19:20 65:9       spot 485:7         67:8,20 113:4 114:15       stab 117:11         222:3 296:15 360:9       stable 177:21 178:4,22         378:14 379:13 392:16       staff 2:10 16:12 30:12         412:2 419:18 420:16       31:9 37:21 72:12 90:3         435:16,16,18 437:2       138:1 232:9 255:4         249:10       278:9 293:12 366:1         359:18 440:22 489:6       359:18 440:22 489:6         specialist 183:11 275:8       439:14 481:2 482:18         275:11       specialists 442:10         specialist 442:10       staff's 338:5         specific 33:15 42:7       stakeholder 92:5         44:7 50:22 63:12 77:7       233:7 303:5 316:5         108:5 110:2 127:21       233:7 303:5 316:5         148:17 192:8 232:8       293:11 344:12 367:19         278:9 293:12 366:1       2439:14 481:2 482:18         439:14 481:2 487:16       383:5         54:18       54:18         55:12       233:7 303:5 316:5         354:18       354:18         50:12 122:16 131:15       146:6 153:5 256:22         257:2,9 262:17				
67:8,20 113:4 114:15 222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 specialist 442:10 specialist 18:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18  stab 117:11 stable 177:21 178:4,22 staff 2:10 16:12 30:12 31:9 37:21 72:12 90:3 138:1 232:9 255:4 278:9 293:12 366:1 385:17 394:14 404:2 439:14 481:2 482:18 483:1,12 487:16 stage 122:1,2,11,13 283:3 stakeholder 92:5 stakeholders 156:1 233:7 303:5 316:5 354:18 standard 13:21 33:11 50:12 122:16 131:15 146:6 153:5 256:22 257:2,9 262:17				
222:3 296:15 360:9 378:14 379:13 392:16 412:2 419:18 420:16 435:16,16,18 437:2 449:10 speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 speciality 14:9 68:7 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18  stable 177:21 178:4,22 staff 2:10 16:12 30:12 31:9 37:21 72:12 90:3 138:1 232:9 255:4 278:9 293:12 366:1 385:17 394:14 404:2 439:14 481:2 482:18 483:1,12 487:16 stage 122:1,2,11,13 283:3 stakeholder 92:5 stakeholders 156:1 233:7 303:5 316:5 354:18 standard 13:21 33:11 50:12 122:16 131:15 146:6 153:5 256:22 257:2,9 262:17				
412:2 419:18 420:16 435:16,16,18 437:2 449:10  speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialists 442:10 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18  31:9 37:21 72:12 90:3 138:1 232:9 255:4 278:9 293:12 366:1 385:17 394:14 404:2 439:14 481:2 482:18 483:1,12 487:16 stage 122:1,2,11,13 283:3 stakeholder 92:5 stakeholders 156:1 233:7 303:5 316:5 354:18 standard 13:21 33:11 50:12 122:16 131:15 146:6 153:5 256:22 257:2,9 262:17		222:3 296:15 360:9	stable 177:21 178:4,22	
435:16,16,18 437:2 449:10  speaks 246:16 481:11 special 24:18,19 29:8 359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialty 14:9 68:7 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18  138:1 232:9 255:4 278:9 293:12 366:1 385:17 394:14 404:2 439:14 481:2 482:18 483:1,12 487:16 staff's 338:5 stage 122:1,2,11,13 283:3 stakeholder 92:5 stakeholders 156:1 233:7 303:5 316:5 354:18 standard 13:21 33:11 50:12 122:16 131:15 146:6 153:5 256:22 257:2,9 262:17		378:14 379:13 392:16		
449:10  speaks 246:16 481:11 special 24:18,19 29:8     359:18 440:22 489:6 specialist 183:11 275:8     275:11 specialists 442:10 speciality 14:9 68:7 specific 33:15 42:7     44:7 50:22 63:12 77:7     108:5 110:2 127:21     148:17 192:8 232:8     293:11 344:12 367:19     378:1,2 395:14     441:14 447:13 456:18      278:9 293:12 366:1     385:17 394:14 404:2     439:14 481:2 482:18     483:1,12 487:16     staff's 338:5     stage 122:1,2,11,13     283:3     stakeholder 92:5     stakeholders 156:1     233:7 303:5 316:5     354:18     standard 13:21 33:11     50:12 122:16 131:15     146:6 153:5 256:22     257:2,9 262:17		412:2 419:18 420:16	31:9 37:21 72:12 90:3	
speaks 246:16 481:11       385:17 394:14 404:2         special 24:18,19 29:8       439:14 481:2 482:18         359:18 440:22 489:6       483:1,12 487:16         specialist 183:11 275:8       5taff's 338:5         275:11       283:3         specialists 442:10       283:3         specific 33:15 42:7       33:7 303:5 316:5         44:7 50:22 63:12 77:7       33:7 303:5 316:5         108:5 110:2 127:21       354:18         148:17 192:8 232:8       354:18         293:11 344:12 367:19       50:12 122:16 131:15         378:1,2 395:14       146:6 153:5 256:22         441:14 447:13 456:18       257:2,9 262:17		435:16,16,18 437:2		
special 24:18,19 29:8       439:14 481:2 482:18         359:18 440:22 489:6       483:1,12 487:16         specialist 183:11 275:8       staff's 338:5         275:11       stage 122:1,2,11,13         283:3       stakeholder 92:5         specific 33:15 42:7       stakeholders 156:1         44:7 50:22 63:12 77:7       233:7 303:5 316:5         108:5 110:2 127:21       354:18         148:17 192:8 232:8       standard 13:21 33:11         293:11 344:12 367:19       50:12 122:16 131:15         378:1,2 395:14       146:6 153:5 256:22         439:14 481:2 482:18         483:1,12 487:16         stage 122:1,2,11,13         283:3         stakeholder 92:5         stakeholders 156:1         23:7 303:5 316:5         354:18         standard 13:21 33:11         50:12 122:16 131:15         146:6 153:5 256:22         257:2,9 262:17				
359:18 440:22 489:6 specialist 183:11 275:8 275:11 specialists 442:10 specialist 442:10 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18  483:1,12 487:16 staff's 338:5 stage 122:1,2,11,13 283:3 stakeholder 92:5 stakeholders 156:1 233:7 303:5 316:5 354:18 standard 13:21 33:11 50:12 122:16 131:15 146:6 153:5 256:22 257:2,9 262:17				
specialist 183:11 275:8         275:11       staff's 338:5         specialists 442:10       283:3         specialists 442:10       stage 122:1,2,11,13         283:3       stakeholder 92:5         stakeholders 156:1       233:7 303:5 316:5         108:5 110:2 127:21       354:18         148:17 192:8 232:8       standard 13:21 33:11         293:11 344:12 367:19       50:12 122:16 131:15         378:1,2 395:14       146:6 153:5 256:22         441:14 447:13 456:18       257:2,9 262:17				
275:11 specialists 442:10 specialty 14:9 68:7 specific 33:15 42:7 44:7 50:22 63:12 77:7 108:5 110:2 127:21 148:17 192:8 232:8 293:11 344:12 367:19 378:1,2 395:14 441:14 447:13 456:18  stage 122:1,2,11,13 283:3 stakeholder 92:5 stakeholders 156:1 233:7 303:5 316:5 354:18 standard 13:21 33:11 50:12 122:16 131:15 146:6 153:5 256:22 257:2,9 262:17				
specialists 442:10       283:3         specialty 14:9 68:7       stakeholder 92:5         specific 33:15 42:7       stakeholders 156:1         44:7 50:22 63:12 77:7       233:7 303:5 316:5         108:5 110:2 127:21       354:18         148:17 192:8 232:8       standard 13:21 33:11         293:11 344:12 367:19       50:12 122:16 131:15         378:1,2 395:14       146:6 153:5 256:22         441:14 447:13 456:18       257:2,9 262:17				
specialty 14:9 68:7         specific 33:15 42:7       stakeholder 92:5         44:7 50:22 63:12 77:7       233:7 303:5 316:5         108:5 110:2 127:21       354:18         148:17 192:8 232:8       standard 13:21 33:11         293:11 344:12 367:19       50:12 122:16 131:15         378:1,2 395:14       146:6 153:5 256:22         441:14 447:13 456:18       257:2,9 262:17				
specific 33:15 42:7       stakeholders 156:1         44:7 50:22 63:12 77:7       233:7 303:5 316:5         108:5 110:2 127:21       354:18         148:17 192:8 232:8       standard 13:21 33:11         293:11 344:12 367:19       50:12 122:16 131:15         378:1,2 395:14       146:6 153:5 256:22         441:14 447:13 456:18       257:2,9 262:17				
44:7 50:22 63:12 77:7       233:7 303:5 316:5         108:5 110:2 127:21       354:18         148:17 192:8 232:8       standard 13:21 33:11         293:11 344:12 367:19       50:12 122:16 131:15         378:1,2 395:14       146:6 153:5 256:22         441:14 447:13 456:18       257:2,9 262:17				
108:5 110:2 127:21 354:18 148:17 192:8 232:8 <b>standard</b> 13:21 33:11 293:11 344:12 367:19 50:12 122:16 131:15 378:1,2 395:14 146:6 153:5 256:22 441:14 447:13 456:18 257:2,9 262:17				
148:17 192:8 232:8				
293:11 344:12 367:19 50:12 122:16 131:15 378:1,2 395:14 146:6 153:5 256:22 441:14 447:13 456:18 257:2,9 262:17				
378:1,2 395:14 146:6 153:5 256:22 441:14 447:13 456:18 257:2,9 262:17				
457:19 463:14 292:13,16 306:9,11				
		457:19 463:14	292:13,16 306:9,11	

318:10 325:4 339:10 339:16,22 366:22 367:12 382:17 387:5 standardization 441:7 standardize 441:8 standardized 133:9 143:14 **Standards** 6:4 16:4 489:2 **standing** 35:3 275:22 338:10 482:13 Stanley 2:9 26:20,21 159:2,6 185:19 201:6 236:5,6,9 237:18 352:11 354:3,6 404:18 409:13 410:12 423:3 433:1 455:15 455:18,20 456:2,10 456:13 458:3,17 star 228:13 start 6:7 13:13 18:22 20:1,2 46:4 47:14 63:3 68:1 109:19 110:21 117:6 170:13 188:11 189:5 220:7 229:14 234:1 277:14 342:17 363:16.21 392:7 399:9 404:10 445:6 464:11 467:8 480:9 482:14 started 13:19 27:12 28:11 112:20,20 115:12 119:16 142:20 162:10,13 205:6 229:5 338:3 365:5 418:12 466:14 starting 47:18 416:19 466:9,10 state-specific 65:15 stated 249:14 451:4 statement 173:12 289:17,17 329:3 330:10 411:19 statements 108:9 states 14:2,2,13,15 15:1 21:13 51:10,15 65:18,18 66:5,5,15 73:15,17 75:16 190:11,14 191:15,16 192:22 193:6 194:4,5 194:15 195:2,3 199:14 202:7,15 204:8 208:3,13 211:18,21 302:7,18 303:6 304:6 306:4,20 307:2 311:4 316:10 316:12,13 318:16 321:1,17,22 326:4,20

327:4,4,10,11,13,15 327:17 328:16,18 329:15,18 331:20 333:2,10,13 337:14 337:20 338:1 341:6 341:11 345:1,3,7,19 346:6 347:7 350:17 351:5 353:4 357:14 357:21 358:9 361:14 362:3 484:13 statewide 191:4 stating 206:7 statistic 319:16 330:22 331:3,14 statistical 190:2 231:20 329:20 477:1 480:15 statistically 371:8 476:11 477:13 statisticians 231:22 statistics 259:14 status 329:5,6 407:14 stay 132:4 226:9 248:22 303:1 333:9,12 363:17,19,21 364:4,5 464:15 **staying** 35:18 174:12 411:1 444:18 stays 275:16 steal 342:18 Steering 25:15 stem 315:17 **step** 37:14,19 58:3 95:1 105:1,7 120:14,19 398:18 460:9 stepped 289:1 steps 56:5 58:1 119:15 steroids 61:11 stick 61:17 233:22 469:6 sticking 235:12 333:19 sticks 71:1 sticky 389:17 stimulates 105:3,6 **Stockwell** 3:14 89:12 105:8 109:8 129:5 133:15 140:4,15,17 140:20 141:22 143:12 149:14 156:16 stoicism 39:14 40:10 **stood** 267:18 481:9 **stop** 43:9 45:15 57:1 266:15,16 269:18 301:4 369:7 451:17 stopping 475:6 **stops** 357:8 **story** 134:13 135:12 386:22 straightforward 36:20

П	
	42:11 52:18 55:20
	205:19 206:3 341:8
	478:15
	strata 311:19 312:2
	strategies 451:10
	strategy 108:10
	stratification 136:18
	185:21 247:3
	stratified 136:11 231:14
	stratify 237:2 246:17,20
	311:20
	stratifying 362:2
	straw 196:18
	streamlined 94:13
	113:17
	Street 1:8
	strength 351:15 429:16
	strengthen 17:7
	strengthens 332:14
	<b>strep</b> 220:19
	stress 487:3
	stressed 414:8
	stressors 273:17
	stretch 135:21 403:8
	428:4
	stretched 101:17
	stretches 191:2
	strictly 174:19 194:5
	412:2
	striking 190:9
	string 468:6
	stringent 240:21
	strong 42:7 48:19
	179:11 222:2 327:9
	331:5
	stronger 128:20
	strongly 49:15 52:20
	331:12
	structural 42:8 352:14
	<b>structure</b> 166:18 393:18 398:4 429:22
	442:12 482:4,5
	structured 126:6
	structures 85:11
	struggle 152:12 183:6
	349:4,13 486:12
	487:9,9
	struggled 485:7
	struggles 183:6 485:10
	struggling 179:11,11
	218:9 330:13 414:8
	stuck 57:14 102:7
	145:3 175:8 414:21
	<b>studied</b> 159:21
	studies 54:7,9 90:4
	91:12 104:11 115:13
	127:22 164:1,8,22
	170:16,16,18 188:5
**	

successfully 151:7

succinct 53:10 86:14

267:15 307:6

330:15

```
sudden 322:1
Sue 27:7 369:13 408:7
suffer 102:19
suffers 194:13
sufficiency 255:6
sufficient 75:17 76:20
  80:5 116:5 189:21
  218:11 293:14 295:20
  322:9,11 391:22
sufficiently 239:15
suggest 247:9 265:8
  445:21 464:13
suggested 283:14
  484:3
suggesting 123:5 173:9
  354:14 375:10 409:9
suggestions 36:13
suggestive 205:15
suggests 232:4 242:22
  273:21 300:3 391:8
suitability 88:3 158:21
  160:5 161:5,7 227:21
  357:4
suite 231:1 247:11,20
  248:21 270:17
sulfamethoxazole
  60:22
summarize 255:17
summarized 235:16
summary 231:20
summed 78:16
summer 315:1
sun 113:1
Sunrise 107:20
supervised 192:16
supplied 76:12,16 77:8
  77:13,19
supply 77:12,13
support 14:22 19:21
  41:17 180:16 308:10
  322:8 392:18
supported 48:19
  374:21
supporting 6:10 294:10
supports 22:20 235:1
  380:9
suppose 103:22 385:8
  476:7
supposed 68:3 87:3
  176:18 216:11 229:2
  295:2 309:21 388:18
  431:19 451:16,17
  459:15
supposedly 402:16
supposing 374:19
suppressed 61:8
surface 169:5
surgery 33:20
```

**surprised** 77:19 194:14 334:13 344:8 surrogate 324:21 survey 241:9 284:5 306:9,10 318:10 325:4 366:12,15 368:7,9 370:9 371:5,6 371:17 381:14 383:4 383:22 384:15,16 388:8,20 389:4,4 394:15 395:4 399:22 409:16 411:9 413:20 414:3 417:4 431:7,9 431:10 432:8 433:1 435:7 443:6,22 444:22 448:3 449:15 482:8 surveyed 389:5 **surveys** 306:12 368:5 370:12,13 371:12 376:14 377:9,20 385:12 400:3 409:3 414:10 442:11 449:8 465:18,21 SUSAN 2:4 suspect 384:8 466:17 suspected 93:5,9,15,18 94:1,21 97:11 **Suzanne** 2:20 3:7 29:6 31:8,15,17 32:13 34:18 130:6 229:22 230:3,10 233:14 272:10 366:1 **switch** 88:16 200:8 201:3 switched 200:18 285:17 sword 474:21 system 15:7,21 46:9 66:4 95:12 101:15 107:20 111:4 138:6 144:11,20 145:15 146:16 147:10 154:20 172:14 181:9 222:5 222:12 223:22 224:1 226:8 271:4 280:11 283:5 290:4 291:2 304:2 308:20,22 345:21 347:4 430:20 445:1 459:15 **systematic** 42:5 44:8 89:21 90:13 91:20 157:2 233:7 334:16 systems 15:20 22:6 61:8 90:7 91:14 127:16 128:3,12,13 144:14 153:1,6,11

171:7 172:15 226:20

1	ı	1	1
308:2 484:13	190:19 196:12 198:10	232:20 275:15 277:9	they'd 420:13
	212:1,15 389:8 457:4	278:11 284:14 287:22	thin 422:5
T	457:5,6	297:8 309:8 321:12	Thinks 440:4,6
table 18:8 36:1 37:15	<b>Tara's</b> 222:9	337:21 351:3 365:16	third 126:20 247:15
41:5 58:22 80:17 81:4	target 195:5	427:14 455:2 461:6	268:6 276:12 345:5
301:8 339:13,13	targeted 241:20	461:17,18	413:2 456:12
472:2 483:15	<b>Tarra</b> 457:4	terrible 477:10	thought 55:12,13 56:1
tackle 47:11 103:7	task 17:6,9 363:5	terribly 113:14 194:13	56:1 57:5 60:6 70:1
108:16	<b>TCD</b> 81:8,9	test 44:14 92:20 98:20	70:22 80:15 111:13
tag 183:9	team 31:18,18 40:2	120:15 258:18 298:13	112:7 120:4 169:12
tagged 479:8	48:11 89:14 143:20	337:11,16 346:11	179:5 182:13 198:1
tagging 144:2	162:12,20 171:8	test/ 452:10	213:1 224:1 231:22
taken 275:7 368:1	173:6,15,18,22	test/retest 259:3,9	244:21 246:22 250:18
410:11	174:21 183:9 185:3	408:2,17	282:22 283:2 295:22
takes 220:22 414:1	475:5 490:14	tested 13:6 16:19 17:1	297:7 298:1 304:17
443:17	tease 424:16	113:10,18 197:8,17	309:14 314:11 316:7
talk 37:5,8 41:11 53:13 55:10 75:8 84:16	technical 14:22 86:13	198:4 224:13 264:11	318:5 327:8 328:4
96:15 98:5 130:6	344:16,21 technically 355:3	295:16 299:17 325:3 411:7 416:5	329:18 330:4 332:19 333:2 362:14 376:5
131:14,16 145:12	technologies 44:4	testing 38:7 59:1 61:12	408:4 432:5 447:10
167:8 172:13 211:10	tedious 490:16	61:15 79:20 129:3	472:1 475:19 480:5
226:11 233:17 235:22	teens 231:10	130:12,15 137:3,7	thoughtful 156:13
237:16 238:11 253:2	teleconference 3:21	165:11 166:8 197:10	179:12 248:9 472:2
259:19 289:11 291:10	telehealth 179:19	197:12 198:5 202:6	487:8,14
295:8,20 310:3	tell 8:4 20:3 23:21	258:17 266:22 292:12	thoughtfulness 469:15
324:19 325:1 329:12	135:12 140:22 226:11	292:15,19,20 293:9	thoughts 362:1 386:5
340:1,12 369:11	231:8 290:8 304:13	294:2 295:3,15	386:10 471:19
373:1 383:9 399:7	326:4,4 335:17	298:15,16 324:9	thousands 312:5,5
406:14 412:22 419:20	358:10 379:4 403:20	340:20 368:19,19	threat 125:4 132:19
446:15 462:20 469:7	411:21 448:15 485:8	395:10 396:3,4,6	134:18 138:10 172:14
480:9	telling 134:12 275:6	407:10 408:21 416:12	409:9
talked 73:12 75:22	467:8	417:4 443:5 451:8	threats 307:1 397:11
117:8,18 131:12,21	tells 262:17 423:4	481:8	three 39:15 48:13 49:22
132:5 138:15 145:10	ten 40:12 207:17 229:3	tests 111:1 337:13	50:10 55:14,18 57:13
148:13 149:10 156:22	256:15 278:20 292:12	399:18	57:16 59:2,5,6,14
204:7 300:1 303:5	323:9 331:11 340:9	<b>Texas</b> 23:12 66:9	60:4 61:5 63:15 65:2
316:5,6 340:2 341:13	346:19 370:13 376:14	text 225:17	216:3 237:7 239:3
378:1 384:2 389:20	389:12 422:14	thanks 35:1 69:22 76:1	256:4,14 259:10
390:1 414:16 465:19 466:5 484:10	tenants 221:16 tend 114:6 332:11	77:2 79:5 81:6,18 87:1 89:6,7 95:13	267:16,18 268:14 271:6 286:12 290:12
talking 26:13 45:22	403:18 412:11	136:21 200:12 267:2	316:9 372:13,14,19
53:1 62:17 66:22	tended 123:3	298:11 365:22 381:17	373:11,15,16 376:22
110:22 138:16 145:13	tendency 312:19	387:11 406:3 467:18	377:2 380:22 383:6
154:11 155:1 173:3	tending 406:10	469:21 488:13	391:19,20 399:12
177:14 184:7 219:19	tends 104:17 334:18,19	that'd 203:15	407:11,17 409:6
223:1,17 236:1	term 333:6	Theberge 2:20 31:16,17	423:8 425:4 451:9
283:18 297:22 301:16	terminology 309:20	32:8 34:20 36:22 37:4	452:16,22 461:10
302:5,14 327:2	320:1	37:8,11 39:22 40:8,18	484:4
335:13 355:2 357:12	terms 11:20 97:13,15	40:21 45:3,14,17 46:2	three-month 77:20
373:3 374:22 379:1	97:21 100:6 109:8,11	46:12 47:1,8 130:11	453:8
390:3 406:9 420:11	112:17 126:4 134:10	162:1,4 364:21	three-visit 58:18
421:22 422:10,12	138:5 139:9,21 144:6	theoretical 311:3	threefold 242:21
445:15 476:8 481:21	144:15 146:22 151:20	theoretically 256:5	threshold 42:16 183:22
485:16	152:18 157:5 168:18	374:6	301:3 321:16 339:2
talks 456:17	170:19 173:8 176:3	theory 248:6	342:15 377:15 397:22
tapped 155:19 Tara 1:14 24:22 69:14	182:10 194:17 197:21 199:12 200:7 204:11	therapeutic 112:16 therapies 167:15	405:16 throat 219:8 220:20
175:6 179:18 190:18	211:3 215:20,22	therapies 167.15	throw 471:18
175.0 179.10 190.10	211.0 210.20,22	anorapist 172.0	1110W 7/ 1.10
II	•	•	•

thrown 354:4 thumbs 434:1 thunder 342:19 **THURSDAY** 1:5 tie 65:18 140:5 479:17 tight 257:5 327:17 tightly 35:16 time-consuming 283:7 timeframe 383:21 385:12 times 48:21 63:12 82:21 91:17 174:14 176:13 186:20 194:10 219:5,20 225:6 242:20 387:21 423:15 tiny 191:19 today 6:13 7:12,15 8:14 11:5,20 12:22 18:19 19:14,17 26:13 32:14 34:16 36:17 89:10 129:14 131:18 164:10 165:9 166:14 207:13 216:2 229:13 354:7 358:6 366:4 416:19 469:21 471:9 480:7 480:13 485:7 489:15 490:15 told 182:14 241:10 255:16 278:9 387:19 **Tom** 213:13 tool 66:10 92:16 93:20 94:6.13 95:12 105:15 114:8 117:9 119:15 126:5 128:4,9 132:16 144:16 149:20 150:11 167:20 168:2,7,16,17 168:20 352:8 353:9 366:12,14,15 367:16 367:16 368:12 371:5 420:14 423:12 424:4 424:14 444:14 467:4 tools 90:15 91:12,15,16 113:16 115:7 123:20 332:10 **Toomey** 3:16 89:11 top 47:19 83:9 96:10 307:12 392:16 399:22 446:22 450:2 topic 32:22 153:15 156:15 370:16 topics 5:19 365:18 370:2 384:18 400:7 total 12:8 93:2,2 104:20 116:13 123:4 367:16 372:21 422:5 **totaled** 78:11 **totality** 431:17 totally 66:21 81:13

185:15 277:19 308:8 310:20 482:12 touch 263:11 328:1 365:15,18 touched 119:3 139:1 148:10,19 touching 328:3 tough 298:13,17,21 326:11,11,13 town 109:21 tracer 308:20 track 35:18 65:19 128:18 134:4 159:19 219:6 446:16 451:18 tracking 464:17,18 trade 21:12 tradeoff 59:19 60:7 tradition 277:9 traditional 348:20 traditionally 107:5 train 139:6 trained 122:20 370:15 training 124:6 139:4,9 139:16 142:14,19 370:16 374:13 transferred 159:10.16 transformation 15:10 23:17 transient 103:2 transition 109:14 transitioning 107:7 transparency 18:15 transparent 104:5 238:21 transplant 61:9 183:11 transposition 292:14 **trauma** 34:5 travels 490:20 treat 404:7 **treated** 281:13 treating 404:11 treatment 91:9 125:12 243:15 treatments 237:14 tremendous 102:20 248:10 362:20 trepidation 155:13 triage 281:15 trial 49:8 trialed 174:11 tried 113:6 121:18 127:22 181:20 195:5 217:20 231:21 239:5 318:2

trigger 90:15,18,22

94:14,17,22 97:16

99:13 105:15 115:6

91:6,12,16 92:1 94:10

120:3,4,5 123:20 125:16 128:9 149:20 trigger's 94:8 triggers 90:15,17 91:21 92:2,6,14 94:12,13,18 94:20 95:1 97:16 99:21 100:12 109:16 109:20 112:8 113:7,8 113:20 120:12 138:9 144:10 243:8 trimethoprim 60:22 **trip** 176:16 **triple** 25:9 trouble 45:4 287:20 309:8 413:15 416:16 troubles 343:20 true 47:6 60:3,5 90:9 170:15,22 208:12 233:5 312:20 329:2 330:8 394:16 398:11 412:6 418:10 419:4 429:15 434:10 436:16 479:7 truly 134:12 216:18 try 18:12 37:15 47:15 61:16 77:10 86:10 87:8 98:2 99:2 110:17 124:9 128:18 154:2 157:13 195:1 222:8 224:20 239:17 250:12 250:17 251:19 267:15 267:15 273:18 304:10 322:3 332:2 336:4,7 347:9 360:21 362:12 362:16 398:13 460:19 479:15 483:12 trying 78:1 103:14 106:22 107:11 108:7 112:4 119:14 123:10 127:9 128:16 131:19 134:11,16 157:1 171:3 176:14 181:12 187:2,3,13 192:21 195:8 205:22 220:10 221:18 224:17 263:21 285:15,20 289:12 301:9 331:12 344:5 360:17 362:21 390:14 394:20 416:21 425:19 477:15 484:16 **Tucson** 25:19 tune 220:12 turn 6:12 13:16 31:8,15 32:10 62:18 210:22 429:4 turning 13:9 17:17 **tutorial** 482:20

twice 423:8 twice-daily 49:17 twin's 225:9 twins 216:3 386:22 two 24:17 26:4 27:13 28:22 38:20 39:14 45:18 55:6 57:22 63:13 74:3 93:5 95:7 99:10 107:16 115:4 129:13,20 132:2 143:5 149:6 165:15 169:16 174:14 175:1 175:3,13 176:19,21 202:6 210:2 213:9 216:2 220:16 236:22 237:8 238:22 242:11 256:14 259:7 262:9 268:1 284:21 289:5,7 292:14 302:18 305:8 305:21 306:7 308:3 311:10 316:9 318:11 324:16 328:18 339:1 339:16 340:8,16 344:22 362:7 364:11 373:9 382:22 383:5 383:12 444:7 452:13 453:9 455:4 475:14 480:12 481:12 482:20 **two-thirds** 390:19 tying 479:21 type 44:2 125:21 126:11 136:7 147:14 154:20 182:7,11 298:15 476:12 478:3 types 64:20 126:2,16 128:2 136:5 139:18 174:9 246:21 395:10 typical 256:13 264:6 typically 110:8 143:4 256:22

### U

**U.S** 89:19,21 90:1 92:9 120:1 223:2 **UCLA** 29:5 **Uh-oh** 289:3 ultimate 103:20 120:12 ultimately 262:2 295:11 393:22 unable 14:1 181:8 unanticipated 397:12 397:13 uncertainty 240:7 unchanged 94:22 unclear 90:8 125:16 uncomfortable 311:13 474:12 uncommon 76:21

**Twenty** 229:3

underscore 7:13 **upcoming** 488:19 75:8 79:14,20,22 82:1 vastly 186:2 underserved 58:14 **update** 11:17 82:2,11 83:5 92:7 **verify** 448:3 understand 16:13 **upset** 477:7,8 119:8 120:13,21 verifying 94:3 upstairs 404:8 37:13 78:7 115:20 121:20 127:19 131:7 version 176:10 197:15 123:11 125:4,8 **Urban** 247:4 131:8,17,22 132:20 198:7 405:19,21 134:17,22 145:11 urbanicity 247:3 137:1,3,7,14 150:20 443:22 147:16 152:3 171:10 urbanization 237:22 165:9 166:3,8 168:12 versions 150:15 240:11,15 259:15 urbanness 254:2 172:13 203:12 204:3 versus 97:18 98:4,8,19 268:3 272:14 292:1 usability 38:19 43:10 204:4,11 210:5,12,20 99:13 112:16 149:13 298:1 303:6 307:3 84:16,17 85:20 86:4 241:19 258:3 259:16 150:11 186:3 189:20 310:22 328:8 331:1 87:12,20 134:8,9 259:21 261:1,8,19 219:7 313:11 319:13 331:22 358:17 359:14 148:9,18 151:20 262:4 264:18 266:21 335:6 423:13 427:4 360:18 366:8 370:4 152:18 153:9 157:15 463:16 474:6 483:17 267:5,11,12 268:15 408:21 411:12 437:18 157:17,22 158:4,6,15 282:9 289:11 291:7,8 485:21 437:20 445:14 452:9 214:20 215:2 218:1 292:6,16,20 293:9,14 vet 139:17 455:8 456:22 479:4 227:6,14 348:7,11 294:2 295:4,8 299:8 **vetted** 409:7 understandable 263:16 352:2 353:13 354:16 300:11,13 339:8,9 viable 55:9 85:8 266:18 354:17 355:5 355:17,20 356:7 341:20 342:5,14 Vice 2:17,21 23:16 32:6 understanding 149:17 381:11 481:12 487:4 361:1 367:20 369:1 32:9 201:21 211:9 248:22 video 139:13 **usable** 152:1 350:3 378:5 384:9 393:12 258:17 260:4 330:6 useable 13:5 16:22 397:11,12 406:10 videos 124:8 139:10 394:15 useful 143:13 149:12 407:20 408:15 409:10 142:7,8,19 143:14 understands 18:16 150:4 215:19 267:3,7 411:8 422:20 426:4,5 view 151:5 217:21 456:18 267:16 269:3 270:4 426:14,20 438:16 487:16 understood 175:5 301:11 351:3 478:4 442:18 448:9 451:18 **violence** 461:22 362:22 430:16 user 20:22 472:9 viral 237:13 undertake 441:7 user-friendly 345:7 valuable 95:11 128:12 Virginia 27:2 352:22 undertaken 146:12 username 6:20 140:22 141:6,16 virtue 241:19 **underuse** 274:13 uses 49:20 164:18 215:17 352:13 353:9 virus 401:21 underwent 165:10 168:2,17 382:4 355:15 473:8 482:1 visibility 13:1 undetected 123:8 **usual** 480:10 483:10 value 100:13 205:12.12 visit 4:12 55:17 60:3 **uneasy** 387:9 **usually** 23:8 51:13 215:21 224:8,9 258:8 166:11 178:9 181:8,9 values 35:7 76:18 100:1 unexpected 477:20 63:22 68:6 145:13 182:11 209:11 219:1 **unfairly** 172:19 260:17 190:6 457:1 220:10,20 229:15 unfortunate 476:3 **UTI** 159:11 vantage 219:11 235:13 242:10,12 unfortunately 6:13 90:4 utilization 163:13 164:3 variability 73:15 157:4 245:5,12 249:11 193:11 204:7 257:10 103:1 211:19 225:10 165:19 187:9 193:7 260:5,8 290:8,12 297:16 366:17 370:10 476:2 234:9 236:18 284:17 257:10 337:1 341:14 **unified** 104:19 284:19 285:5,6,11 359:12 407:13 381:1,6,15,16 383:21 unintended 71:12 287:13.15 variable 178:4 267:19 384:3 385:16 401:17 134:10 146:9,9,15 utilize 144:16 414:7 409:5,6 410:3 420:10 148:11 **UTIs** 125:16,20 variables 414:12 421:1 424:22 425:1,6 **unique** 19:10 variably 296:4 425:16 427:13,20 V unit 199:8 427:2 variance 191:16 337:2 429:14 430:19 434:17 **United 21:13** variation 73:19 146:18 434:18,19 436:1,2,4 vaccination 54:10 units 102:18 190:12 191:14 281:20 436:10 441:1,15 vaccine 54:15,19,20 universes 482:12 vaccines 54:12 333:1 359:15,18 443:1,1 452:14,14,16 **University** 1:13,15 2:2 360:18 399:14 403:5 452:17 453:7 vague 447:11 2:6,9 3:5,7,10 20:12 valid 50:14 51:3,7 52:17 variations 50:4 visits 4:13,15 55:14,18 22:7,16 23:18 26:22 varied 35:7 92:15 95:11 119:14 57:14,16 59:14 60:4 varies 267:20 287:15 47:4 48:11 120:7 203:16 324:2 63:15,17 64:17,20 unlimited 452:22 395:1 306:22 67:13,15 68:7 163:17 unnecessary 167:12 variety 264:12 validate 448:2 167:12 177:5,11,14 validated 197:18 244:8 various 208:18 231:9 279:13,21 177:18,22 178:5,17 unreadable 41:4 validating 244:14 264:20 270:21 332:17 178:18 181:5,6,22 unrelated 28:5 validation 245:15 vary 316:10 370:3 184:1,21 186:1,4,7,8 unsettling 133:22 validity 38:14 42:12 varying 99:4 399:20 193:1 206:18 207:14 **unusual** 472:4 53:17 61:15 69:12 vast 205:4 207:18 209:2,6,8

218:16,16,17,17 219:14 220:18 221:7 221:8 229:16 231:9 235:3,6 238:4 243:14 244:11 246:2 280:1 289:22 371:3 381:7 409:15,18 412:11 425:4 vital 8:19 17:11,12 175:10 vitally 12:20 **voice** 416:15,20 Voices 1:12 29:3 217:4 volume 213:5 377:15 397:21 **voluntary** 14:5 90:3 91:14 128:2 129:15 156:19.22 volunteer 18:19 19:16 131:8 196:11 volunteering 17:15 voted 118:18 402:20 403:1 424:20 425:7 439:10 465:22 vulnerabilities 141:13 156:21 vulnerable 403:18

waiting 40:5 72:17.20 86:21 87:15 250:3 266:2 walk 41:9 143:15 441:9 walked 9:8 124:4 walking 301:19 wanted 7:13 8:1 10:22 35:2,13 37:22 41:1,20 42:16 43:21 54:2 55:10 57:13 60:1 70:20 130:6 145:21 174:6 197:2,7 198:7 205:7 212:6 240:20 267:5 271:8 282:2 304:12 337:6 366:5 389:15 390:8 430:16 449:21 469:14,16 473:6 478:9 487:2 wants 291:10 357:17 warehouse 213:7 warmed 161:15 **Washington** 1:9 181:18 194:9 201:22 211:11 wasn't 9:9 127:8 138:11 170:21 192:15 197:1 199:10 215:11 253:4 255:8 295:18 421:3 432:9 437:11 453:7 478:11

watch 488:4 watching 142:8 way 47:19 60:16 68:18 98:19 102:3 126:5,5 128:11 129:12,22 135:10 153:3 155:16 157:3 183:10 205:14 221:17 226:19 237:8 238:15 257:9 259:4 271:4 273:20 278:12 279:10 280:4 291:3 307:2 308:21 318:17 322:2,2 328:8 330:20 331:16 333:4 346:15 350:14 366:15 373:18 373:21 375:4 376:12 380:18 390:3 394:5 397:1,7,19,20 411:6 420:20 429:1,6 432:3 433:10 442:8,8,13 443:3 456:21 459:22 465:14 473:21 474:9 474:16,19 476:14,19 484:21 485:19 488:5 488:5.10 wavs 36:14 121:19 154:7 157:11 168:4,4 182:5 204:6 256:5 274:11 276:3 278:20 283:22 318:7 333:5

344:22 368:20 380:6 422:5 482:1 484:4 wearing 216:1

WebEx 482:20 website 212:7 420:9 459:16

Wednesday 490:7 week 7:4 27:13 218:20 219:20 221:4 222:4 223:14 408:3,13 453:9 489:20 week's 490:3

weekend 232:12 weekly 219:19 weeks 8:20 weigh 257:19 359:2 weight 293:18 312:6 weighty 390:7 welcome 4:2 6:3 10:1

11:1 30:9 32:7 48:4 229:20

well- 366:16 374:7 well-being 33:21 462:21 463:15 465:8 well-calibrated 143:10 well-child 366:18 367:1 368:2 409:14,17 422:5 436:1,2,4

well-coordinated 104:19 144:19 well-designed 399:13 well-planner 29:8 weller 329:2 went 53:14 55:17,21,22 60:3 112:19 120:9,14 162:6 200:21 214:1,2 229:8 245:5 363:13 368:21 414:16 428:7 475:9 489:14 490:22 weren't 232:10 305:19 341:7 347:3 358:21 395:20 401:16 437:4 442:22 485:16 Western 263:6 whatsoever 64:21 wheezing 237:12 239:16 244:22 245:6 white 204:14 484:17 whiteboard 354:21

whites 334:8 WIC 413:9 443:1,15 wicket 389:17 wide 107:2 361:11.14 wider 327:14 widespread 75:17 wife 8:5,13 192:9

wifi 6:19 willing 11:5 willingness 9:3 **WILSON** 2:21 win 322:1 window 453:1

wife's 465:1

winning 319:17 331:2 335:9 winter 315:5

wireless 6:18

wisdom 167:8 wish 226:10 woman's 423:21 wonder 111:13 189:16 193:19 359:13 381:8 415:15

wonderful 87:4 154:13 193:16 480:10 484:11 wondering 69:16 106:4 106:18 107:17 108:3

wondered 76:16 98:5

110:14 129:1 146:8 159:3,6 185:19 204:15 207:5 265:2 268:11 309:9 416:8 462:18 475:3,11

word 179:12 247:16 271:19 310:3 360:13 362:18 485:5

wording 197:6 411:11 443:12 words 10:8 122:5 315:8 358:7 377:19 383:4 work 6:14 7:14,18 8:11 9:1 11:9,14,19 13:11 13:12 16:11 17:11,14 18:10,19 19:10,17 21:11,15 23:7 25:10 27:14 31:9,10 33:8 34:3 35:1 77:19 86:19 90:12 108:6 109:15 111:5 129:6 140:9 143:9 145:4 153:21 156:5 174:22 181:17 191:8 217:17 218:20 221:3 225:20 226:20 230:17 270:3 279:12 280:9 284:4 300:6 301:6 311:21 314:22 333:9 334:18 353:5 358:20 359:14 371:7 371:7 388:19 389:10 415:18 416:19 469:22 475:11 481:21 485:2 490:17

worked 16:4 27:4 142:20 264:21 483:12 worker 172:5 workers 172:18 working 25:17 27:12 39:8 47:19 87:13 93:6 149:16 181:20 194:7 251:6,13 254:13 275:9 332:18 350:16 works 119:10 145:7 251:10 349:17 world 20:13 113:15 169:13 213:5 224:7,7 243:1,20 396:14

414:12 worn 468:3 worried 10:14 190:1 204:10 260:12 291:4 worry 212:10 worse 194:2 274:15 300:3,4 402:8 476:11 477:13 worst 304:2,8 309:22

364:12 worth 55:12 100:9 283:11,11

worthwhile 234:20 355:4

wouldn't 65:16 70:2 140:12 171:19 183:21 186:11 200:19 209:10 269:19 281:3 304:14

1000 279:21 304:15 305:2 320:22 118:20.21 131:4 **18** 75:1 210:17 252:19 **1030** 1:8 354:10 358:9 376:18 248:6 254:22 289:8 256:16 266:11 289:6 423:5 471:13 323:11,12 342:10,10 **10th** 489:7 324:13 450:17 wow 83:17 191:9,21 **11** 7:15 34:15 87:17 342:12,13 348:3,4,4,5 **18-month** 307:10 340:2 216:16 310:10 350:7 356:5,6 450:18,19 158:12 241:14 252:18 **186** 77:14,19 78:4,11,13 398:7 454:10,10 323:10 338:21 364:1 **19** 252:19 wrap 224:20 398:10 **zero-** 232:1 395:5 **1977** 167:22 168:20 zero-inflated 256:7 1980s 271:6 writing 77:21 **11,000** 189:14 **11.1** 102:7 written 51:4 391:16 zone 42:22 43:2 1990s 89:19 394:6 398:1 405:4 11:49 229:8 0 2 433:14 473:21 **12** 56:2 77:4 87:17 wrong 114:11 138:17 **0** 51:13 73:3 75:3 79:9 104:14 165:22 241:14 **2** 1:5 72:7 74:17 79:3 176:8,11 181:3 252:18 260:9 286:15 82:4 84:7 86:5 88:4 79:10 82:8.9 84:11.12 405:19 427:17,20 87:18,18 118:19,20 286:18 341:6 364:2 90:5 116:12 118:14 374:18 388:10,13 432:2 455:17,22 131:3 137:12,13 128:5 130:21 137:8 456:1 409:18 410:5,15,18 147:22 158:7 161:8 158:10,10 188:19,19 wrote 76:20 196:5,6,6,7 204:20 411:3 413:2 420:22 188:13,18 195:22 210:18,18 214:15,15 425:17 433:2,4 203:2,7 210:12 435:11 436:7 440:8 214:16,16 227:12,13 214:11 227:7,22 442:1 446:10 455:6 249:22 252:15,21 254:21 289:7 Υ 0.001 256:17 465:15 254:10 265:22 282:5 12-month 78:5 456:14 Yale 1:15 23:4 **0.05** 257:3.3 262:17 286:8 288:14 300:14 **0.25** 262:18 **12:15** 229:9 317:4 323:1 338:16 **Yay** 87:14 0.34 257:2 262:17 **13** 73:2 196:5 242:17 ye 428:11,11 339:13 342:5 347:20 252:18 254:20 260:6 year 9:10 14:16 27:1,8 **0.45** 262:19 355:21 364:1 399:2 27:17 33:8 48:15 50:2 0.516 256:18 375:12 454:12 406:21 433:21 446:1 50:11,20 51:17 59:7 **0.58** 256:19 **14** 82:8 161:10 188:17 446:6 450:13 454:7 **0.65** 257:3 203:6 214:15 252:19 454:13 460:7 464:2 59:15 78:16 81:8 374:20 407:4 434:4 141:10 184:1 216:19 **0.69** 94:2 468:16 218:21 219:6 241:15 0.74 451:15 450:17 469:1 **2.0** 15:14 241:22 260:7,7 **0.77** 339:19 **15** 25:17 148:4 162:3 2:00 489:8 490:8 267:21 351:4,4 353:2 **0.78** 451:14 176:13 241:7 252:19 **2:32** 363:13 364:17 387:21 431:12 **0.8** 51:12 340:6,9 363:8 374:17 **2:45** 363:14 440:20 486:2 488:10 **0.81** 94:5 374:20 375:6,11,11 **20** 108:20 198:20 year's 34:8 **0.873** 256:18 375:13 390:16 396:17 252:19 260:10 414:2 years 4:13 21:19 22:2 **0011** 395:4 399:4 409:15 423:15 467:3 25:17 27:3 48:13 50:1 464:8 **20-minute** 388:19 1 **15-month** 441:19 51:20 81:16 99:21 **20,000** 207:20 **15-month-old** 441:14 20.65 231:8 104:14 122:19 123:3 **1.000** 4:9 299:17 194:8 211:14 229:17 1,290 207:19 **15.08** 231:10 **2005** 51:17 231:9 236:22 237:9 **15.6** 340:22 **2007** 101:17 1,300 207:18 279:22 331:12 368:14 **15th** 1:8 **2008** 166:4 194:12 **1,362** 207:19 387:5 412:9 **1,500** 165:11 202:7 **16** 14:15 79:9 92:19 197:10 202:15 100:21 117:13 118:18 2009 13:20 226:11 yes/no 486:5 **10** 4:3 56:2 77:4 90:5 131:2 137:11 227:11 **2010** 51:18 yesterday 9:9 112:5 91:17 128:5 129:9 241:7 252:19 324:12 yield 94:12 158:11 198:4 206:19 **2012** 165:16 yielded 207:17 207:9 252:18 286:16 372:21 373:4 376:3 **2015** 14:16 387:5 409:17 427:13 2016 14:12 34:14 York 241:2,5,8 284:3 286:18 341:10 364:1 427:16 460:12 **2017** 1:5 17:6 34:15 young 187:5 237:4 446:9 16-year-olds 340:4 10:15 6:15 226:10 459:16 younger 180:7 185:22 **162** 4:10 203 102:12 186:3,14,21 231:11 **10:30** 162:6 **17** 4:4 40:9 75:1 84:10 240:4 **10:45** 6:15 162:4 **21** 117:1 252:19 166:5 178:19 188:18 10:46 162:7 **22** 116:13 301:1 348:3 youngest 238:9 **100** 4:13 7:16 33:13 190:13 210:17 228:5 356:4 252:19 266:9 300:22 **22.2** 400:9 48:21 88:6 91:17 **zero** 73:4 75:4 77:12 102:8.9.12 229:16 324:13 342:11 356:4 **228** 4:11 79:10,11 82:9,10 231:9 275:13 317:9 407:3 **229** 4:13 **17-year-** 340:4 23 33:9 88:6 148:4 84:12,13 87:18,19 361:9 441:11

190:11 203:5 227:11 369:17 398:22 406:20 **8** 129:9 161:11 214:14 5 228:5 317:9 433:20 252:18 326:21 360:5 **5** 117:1 148:3,4,5 **24** 106:7,16 132:4 **3220** 4:20 435:4 446:1,2 364:1 434:4 468:22 158:12 203:5,7 218:20 446:5 450:12 454:5 **8.4** 12:16 204:19 205:6,10 **240** 92:22 **3221** 4:21 454:22 460:4 8.6 241:17 206:1,7,9 210:16 245 4:15 460:6 8:00 1:9 220:22 227:10,12 **25** 109:7 198:20 8:02 6:2 **3222** 5:11 461:4 463:6 228:6 364:1 407:2.3 **26** 14:12 84:10 342:12 464:1 **80** 58:11 75:15 213:16 450:16 **3223** 5:14 366:11 463:6 **27** 94:13 118:19 131:3 407:15.16 **5.7** 73:14 137:12 460:11 464:11 468:13,15 80ish 64:9 **5:00** 364:4,4,6 460:19 27th 489:4 **34** 242:19 **82** 289:6 450:16,20 **5:01** 490:22 **2816** 4:14 286:7 288:13 **35** 40:12 **84** 49:12 **5:30** 363:19,21 36 21:13 52:5 73:14 84.8 400:5 300:13 **50** 14:13 68:6 77:12 29 4:5 161:10 214:14 434:3 89 4:9 117:15 158:11 211:21 **29.7** 231:11 468:22 323:10 335:11 9 **360** 56:17 **50/50** 43:3 45:10 3 **365** 218:20 **9** 129:11 188:18 196:4 **51** 12:9 **3** 52:4 72:7 74:17 79:3 **365/7** 221:3 198:21 203:6 206:19 **511** 426:10 82:4 84:7 86:5 118:14 **367** 4:19 252:18 289:5,6 364:1 **52** 87:16 339:19 **374** 60:4 454:12 130:21 137:8 147:22 **53.3** 447:3 158:7 188:14,17 **3814** 93:2 9,000 480:1 **54** 92:14 120:12 39 73:1 82:7 254:19 196:1 203:2 208:19 **90** 122:22 282:6 290:10 **55** 286:15,17 446:9 210:13 214:11 227:7 338:21 290:14 299:20 407:15 **57** 73:2 254:20 252:15 254:11 265:22 **90s** 271:7 **59** 196:4 454:11 4 286:10,11 288:14 **92** 93:22 94:4 122:11 300:14 323:1 338:16 4 40:10,16 58:22 72:7 92.3 447:1 6 342:6 347:20 355:21 73:2 74:18 75:2 79:3 **95** 116:22 262:18 **6** 4:2 104:14 137:11,12 364:1 406:21 407:5 82:4 84:7 86:6 118:15 **96** 190:11 191:3 348:2 364:1 460:11 450:13,18 454:7 147:22 158:7 188:14 **9th** 1:8 **60** 42:18,20 95:4 108:19 **3.1** 241:2 196:1 203:2 206:7.8 286:21 339:2 399:21 3:00 471:5 210:13,17 214:11 61 82:7 3:30 6:17 227:8 254:11,20 **62** 189:20 **3:52** 428:7 266:8 288:14 323:1 **64** 161:10 203:5 214:14 **30** 49:5 79:8 95:5 438:4 338:16 342:6 347:20 434:4 468:22 **30-day** 200:17 489:5 355:22 364:1 382:21 64.9 447:1 **300** 50:19 51:17 52:4 406:22 450:14 454:7 **65** 206:5 56:17 77:1,3 80:16 **4.63** 178:17 **67** 189:19 **3000** 51:19 **4:00** 490:8 **67.7** 400:9 301 4:17 **4:01** 428:8 **68** 148:3 399:4,5 464:7 **3136** 4:8 26:13 89:2 **40** 12:10,11 42:20 43:17 116:10 118:13 130:19 354:19 399:20 137:7 147:21 158:5 **409** 60:3 **7** 80:17 81:4 198:17 161:7 **41** 196:4 218:20 221:4 252:18 3153 4:10 162:22 **414** 117:14 364:1 399:5 454:11 188:12 195:21 202:22 43 40:11 464:7 210:11 214:9 227:5 **435** 4:20 **7:00** 363:18 464:19 3154 4:16 317:2 322:21 **45** 158:10 286:15,18 **7:30** 363:18 338:14 342:4 347:18 323:9 446:9 **70** 12:6 79:8 407:16 355:19 **450** 191:18 **72** 4·7 **3166** 4:7 72:6 74:16 454 4:21 **73** 118:18 131:2 137:11 79:2 82:3 84:6 86:4 46 339:20 227:10 460:11 87:12 88:3 **46.8** 400:5 **74** 84:10 102:9 300:22 **3189** 4:12 249:20 254:9 **461** 5:12 342:11 356:4 265:20 **464** 5:15 **77** 188:17 210:16 228:5 **31st** 490:8 **470** 5:17 407:2 **32** 399:4 444:11 454:10 **471** 5:19 **78** 75:1 92:2 266:10 48 87:17 338:21 464:7 **3219** 4:18 366:11 368:6 **490** 5:21 8

## <u>C E R T I F I C A T E</u>

This is to certify that the foregoing transcript

In the matter of: Pediatrics Performance

Measures Committee

Before: NQF

Date: 03-02-17

Place: Washington, DC

was duly recorded and accurately transcribed under my direction; further, that said transcript is a true and accurate record of the proceedings.

Court Reporter

near Nous &