NATIONAL QUALITY FORUM

+ + + + +

MEASURE APPLICATIONS PARTNERSHIP HOSPITAL WORKGROUP

+ + + + +

WEDNESDAY DECEMBER 16, 2015

+ + + + +

The Workgroup met at the National Quality Forum, 9th Floor Conference Room, 1030 15th Street, N.W., Washington, D.C., at 9:00 a.m., Cristie Upshaw Travis and Ronald S. Walters, Co-Chairs, presiding.

PRESENT:

CRISTIE UPSHAW TRAVIS, MSHHA, Co-Chair RONALD S. WALTERS, MD, MBA, MHA, MS, Co-Chair ANDREA BENIN, MD, Children's Hospital Association

DAVID ENGLER, PhD, America's Essential Hospitals NANCY FOSTER, American Hospital Association SHELLEY FULD NASSO, National Coalition for Cancer Survivorship

MARTIN HATLIE, JD, Project Patient Care JEFF JACOBS, MD, The Society of Thoracic Surgeons

HEATHER LEWIS, RN, Geisinger Health System SHEKHAR MEHTA, PharmD, MS, Pharmacy Quality Alliance

ALLEN NISSENSON, MD, FACP, FASN, FNKF, Kidney Care Partners

KAREN ROTH, RN, MBA, CPA, St. Louis Area Business Health Coalition

LESLIE SCHULTZ, PhD, Premier, Inc.

BROCK SLABACH, MPH, FACHE, National Rural Health Association

DONNA SLOSBURG, BSN, LHRM, CASC, ASC Quality Collaboration

KELLY TRAUTNER, AFT Nurses and Health
Professionals
WEI YING, MD, MS, MBA, Blue Cross Blue Shield of

Massachusetts

ANN MARIE SULLIVAN, MD

INDIVIDUAL SUBJECT MATTER EXPERTS (Voting):
GREGORY ALEXANDER, PhD, RN, FAAN
ELIZABETH EVANS, DNP
JACK FOWLER, PhD
MITCHELL LEVY, MD, FCCM, FCCP
DOLORES MITCHELL
R. SEAN MORRISON, MD
MICHAEL P. PHELAN, MD, FACEP

FEDERAL GOVERNMENT LIAISONS (Non-voting):
PAMELA OWENS, PhD, Agency for Healthcare

Research and Quality (AHRQ)*

DANIEL POLLOCK, MD, Centers for Disease Control and Prevention

PIERRE YOUNG, MD, MPH, Centers for Medicare and Medicaid Services (CMS)

MAP DUAL ELIGIBILITIES WORKGROUP LIAISON PRESENT:
THOMAS LUTZOW, PhD, MBA

NOF STAFF:

HELEN BURSTIN, MD, Chief Scientific Officer ESLISA MUNTHALI, Vice President, Quality Measurement

TAROON AMIN, Staff Support

WUNMI ISIJOLA, Senior Project Manager

MELISSA MARINELARENA, Senior Director, Hospital
Group

ERIN O'ROURKE, Senior Project Manager

ZEHRA SHAHAB, Project Manager

JEAN-LUC TILLY, Project Analyst

MARCIA WILSON, Senior Vice President, Quality
Measurement

ALSO PRESENT:

HEIDI BOSSLEY, Federation of American Hospitals*
SUZANNAH BERNHEIM, MD, Centers for Medicare and
Medicaid Services (CMS)*

AKIN DEMEHIN, American Hospital Association

MEGAN HAYDEN, Centers for Medicare and

Medicaid Services (CMS)*

TARA LEMONS, Centers for Medicare and
Medicaid Services (CMS)

KAREN SPALDING BUSH, Centers for Medicare and
Medicaid Services (CMS)*

*participating by telephone

C-O-N-T-E-N-T-S

Welcome, Introductions, Disclosures of Interest,
and Review of Meeting Objectives 6
CMS Opening Remarks
Overview of Pre-Rulemaking Approach
Overview of Hospital Inpatient Quality Reporting
(HIQR) Program
Opportunity for Public Comment on Measures Under
Consideration for HIQR
Pre-Rulemaking Input on Hospital Inpatient
Quality Reporting Measure Set - Consent
Calendar 1
Pre-Rulemaking Input on Hospital Inpatient
Quality Reporting Measure Set - Consent
Calendar 2
Pre-Rulemaking Input on Hospital Inpatient
Quality Reporting Measure Set - Consent
Calender 3
CMS Measure Concepts Presentation
Overview of Hospital Value-Based Purchasing
Program
Opportunity for Public Comment on Measures
Under Consideration for HVBP 291
Pre-Rulemaking Input on Hospital Value-Based
Purchasing Program Measure Set - Consent
Calendar 1
Pre-Rulemaking Input on Hospital Value-Based
Purchasing Program Measure Set - Consent
Calendar 2

Pre-Rulemaking Input on Hospital
Value-Based Purchasing Program
Measure Set - Consent Calendar 3 345
Overview of the Hospital Acquired
Condition Reduction Program (HACRP) 400
Opportunity for Public Comment on
Measures Under Consideration for
HACRP
Pre-Rulemaking Input on Hospital
Acquired Condition Reduction Program
Consent Calendar
Opportunity for Public Comment 428
Summary of Day

1 P-R-O-C-E-E-D-I-N-G-S 2 9:03 a.m. 3 CO-CHAIR WALTERS: Welcome and thanks 4 for coming to the meeting. Thanks for all your 5 work prior to the meeting. That will pay off later on. Cristie and I are happy to be your 6 7 chairs and try to put some order into this meeting, try to keep everybody pretty much on 8 9 time and try to get everybody out sometime 10 tomorrow. 11 (Laughter) 12 CO-CHAIR WALTERS: Those of you who 13 are new shouldn't be scared by that last comment. 14 (Laughter) 15 You should just CO-CHAIR WALTERS: 16 remember it. 17 (Laughter) 18 CO-CHAIR WALTERS: But welcome to 19 those of you that are on the Committee for the 20 first time, also. 21 So the thing we love is feedback, so 22 please feel free to give feedback to staff or us,

or write it in Facebook or Twitter or whatever -
(Laughter)

CO-CHAIR TRAVIS: -- about any

opportunities you see for improvement. We've

opportunities you see for improvement. We've made a lot of modifications over the years and we think this is now going to be the best version of this. So welcome again. Thanks for coming.

CO-CHAIR TRAVIS: Thank you, Ron. I'm pleased to be sitting next to Ron. He had this experience last year, so he's the one that I'm going to look to to be sure that we give everyone an opportunity, but that we do try to keep moving. And that will be our challenge today. But I just echo his thanks to everyone for all the work he's put in to date and over the next two days. Thank you.

CO-CHAIR WALTERS: Now, Ann, AKA
Helen --

DR. BURSTIN: I am ready. Helen

Burstin, Chief Scientific Officer here at NQF. I

am actually Ann and Chris. So good morning,

everybody. I'm serving -- and myself I guess

still. Pleasure to be back with MAP again this year. Some people refer to this as the holiday season. At NQF this is MAP season. But hopefully our efforts at continuous quality improvement, which have been pretty significant over the years, have both made it a better and more manageable experience for you as reviewers and members of the table, but also especially important to make it better that our staff do not work across the holidays as best we can.

So we look forward to a full and interesting discussion today. We recognize the importance of MAP. Hospital MAP in particular has always been on the cutting edge of discussing a lot of critical issues and we're looking forward to bringing up all those policy issues throughout the day.

So I'm also going to go through -just to be efficient, we'll do introductions and
disclosures at the same time, just so you guys
can get to work since you have a lot on your
plate for the next two days.

So most of you know you're divided into two different groups. There's the organizational members, as well as those who are individual subject matter experts and the federal liaisons. We'll do the disclosures differently across those different groups.

So organizational representatives, not surprisingly, we do expect that you would represent a particular viewpoint and usually represent the interests of those who have invited you to participate as their organizational representative. As part of your disclosure today we only ask that you disclose if you have an interest of \$10,000 or more. In an entity that's related to any of the work before the Committee. Please tell us who you represent and if you have anything to disclose.

We'll do organizational members first.

We'll see if there's anybody on the phone to do

that. Then we'll come back and do the subject

matter experts. We've seen your CVs since we got

to pick you as part of our Committee process, so

if we went through your full CVs, you would never actually get to the IQR today.

(Laughter)

DR. BURSTIN: So short, brief introductions and any disclosures would be welcomed. So with that, I've got a lovely list here. We're going to begin with the Chairs, so we don't we begin with Cristie?

CO-CHAIR TRAVIS: Hi, Cristie Travis.

I'm the CEO of the Memphis Business Group on

Health and I have no disclosures to make, but I

will also say that I'm very involved over on the

consensus development process for the NQF, being

a member of CSAC as well as the

Admissions/Readmissions Standing Committee and

some other committees that have been operating on

that side. So I think I bring the CDP

perspective to the MAP as well. So thank you.

CO-CHAIR WALTERS: Ron Walters. My day job is at MD Anderson Cancer Center in Houston, and I have nothing to disclose.

DR. BURSTIN: Thank you. I know that

1	Kelly Trautner will be joining us this afternoon
2	from the AFT Nurses and Health Professionals.
3	I'm just going to run down this list
4	just to make it simpler. So, Nancy Foster?
5	MEMBER FOSTER: Thank you, Helen. I'm
6	Nancy Foster. I'm the Vice President for Quality
7	and Patient Safety Policy at the American
8	Hospital Association representing that
9	organization today, and I have nothing to
10	disclose.
11	DR. BURSTIN: David Engler?
12	MEMBER ENGLER: Good morning. I'm
13	David Engler. I'm Senior Vice President of
14	America's Essential Hospitals. It's my third
15	year on MAP and I have nothing to disclose today.
16	Thank you.
17	DR. BURSTIN: Welcome back to those
18	who have returned to do this yet again.
19	Next Donna Slosburg, ASC Quality
20	Collaboration.
21	MEMBER SLOSBURG: Can you hear me?
22	Hi, I'm Donna Slosburg. I'm the Executive

Director of the Ambulatory Surgery Center Quality 1 2 Collaboration. We develop quality measures for ambulatory surgery centers. And this is my third 3 year as well, and the only thing I have to 4 5 disclose is that I am a measure developer for 6 ambulatory surgery center measures. 7 DR. BURSTIN: Thank you. Wei Ying from Blue Cross? 8 9 MEMBER YING: I'm Wei Ying. I'm 10 Director of Performance Measurement and 11 Population Health from Blue Cross/Blue Cross 12 This is the third year I'm on MAPs, and 13 nothing to disclose. 14 DR. BURSTIN: Andrea Benin? 15 MEMBER BENIN: Good morning. 16 Andrea Benin. I'm Senior Vice President for 17 Quality and Patient Safety at Connecticut 18 Children's Medical Center in Hartford. 19 pediatric infectious disease doctor and I am 20 representing the Children's Hospital Association, 21 and I have nothing to disclose. Thank you.

DR. BURSTIN:

Thanks, Andrea.

Heather Lewis?

MEMBER LEWIS: I'm Heather Lewis from Geisinger Health System. I am the Associate Vice President for Quality and Safety for the health system. I'm a nurse by training and I have nothing to disclose.

DR. BURSTIN: Thank you. Allen Nissenson?

MEMBER NISSENSON: I'm Allen
Nissenson. I'm a nephrologist, Emeritus
Professor of Medicine and former Associate Dean
at UCLA Medical School, and currently Chief
Medical Officer for DaVita Health Care Partners.
And I'm representing Kidney Care Partners and
also co-chair the Kidney Care Quality Alliance
which is a measure development group for kidney
care. And my disclosures, I am a full-time
salaried employee at DaVita Health Care Partners.

DR. BURSTIN: Thank you, Allen. And our next organizational member is Mothers Against Medical Error. I know Helen Haskell is not here. Jennifer, are you on the phone?

1	MS. HUFF: I am.
2	DR. BURSTIN: Wonderful. Could you
3	introduce yourself?
4	MS. HUFF: Jennifer Eames Huff. I am
5	an independent consultant and a senior advisor to
6	the Consumer Purchaser Alliance, and I am
7	substituting for Helen for the morning half, and
8	I have nothing to disclose.
9	DR. BURSTIN: Great. Thank you.
10	Shelley?
11	MEMBER FULD NASSO: Hi, I'm Shelley
12	Fuld Nasso. I'm the CEO of the National
13	Coalition for Cancer Survivorship, a patient
14	advocacy group focused on quality of cancer care.
15	This is my third year on the MAP and only my
16	second in person because I did the first by
17	phone, which I do not recommend.
18	(Laughter)
19	MEMBER FULD NASSO: So I'm glad to be
20	here. And I'm also with Cristie and some others
21	a member of the CSAC.
22	DR. BURSTIN: Thank you. Brock?

1 MEMBER SLABACH: Good morning. Мy 2 name is Brock Slabach and I'm with the National Rural Health Association, former hospital 3 administrator, and I have nothing to disclose. 4 DR. BURSTIN: 5 Shek? MEMBER MEHTA: Good morning. 6 is Shek Mehta. I'm the Director of Clinical 7 Guidelines and Quality Improvement at ASHB. 8 9 been on the MAP -- this is going on my fourth 10 year. I had represented ASHB in the past, but 11 now I'm representing the Pharmacy Quality 12 Alliance. 13 DR. BURSTIN: Martin Hatlie? 14 MEMBER HATLIE: Morning. I'm Marty 15 I'm the CEO of Project Patient Care. 16 We're a Chicago-based improvement coalition 17 dedicated to bringing the voice of the patient 18 and his co-partner in improvement and culture 19 transformation work. And I'm a lawyer by 20 training. I do not have anything to declare. 21 DR. BURSTIN: Excellent.

literally walked in just in time to -- and

introduce yourself and if you have any 1 2 disclosures. 3 My name is Jeff MEMBER JACOBS: 4 I'm a cardiac surgeon at Johns Hopkins 5 All Childrens Heart Institute. I chair the Society of Thoracic Surgeons National Database 6 7 Workforce. And other that, I really don't have anything else to disclose except I'm a little bit 8 9 late. 10 (Laughter) 11 Leslie Schultz? DR. BURSTIN: We saw. 12 MEMBER SCHULTZ: Good morning. Leslie 13 Schultz. I am with Premier and I am employed by 14 I also have the privilege of sitting on Premier. 15 the CPD for Patient Safety Measures, and nothing 16 else to disclose. 17 Thanks, Leslie. DR. BURSTIN: Karen 18 Roth? 19 Hi, I'm Karen Roth. MEMBER ROTH: I'm

I represent

the Director of Research at the St. Louis Area

purchasers and I have nothing to disclose.

Business Health Coalition.

20

21

DR. BURSTIN: Thank you. And Thomas Lutzow?

MEMBER LUTZOW: Yes, I'm Tom Lutzow.

I'm President of iCare, an HMO in Milwaukee, and

I'm a crossover representative from the MAP's

Duals Group. Nothing to disclose.

DR. BURSTIN: Excellent. Thank you.

Next we're going to move on to the subject matter experts. These are a little different. You sit as individuals, and so we do ask you to give a bit more detail on your professional activities, particularly disclosures of any activities that are directly relevant to the work before the Committee today: grants, consulting, speaking arrangements, things of those kinds. But again, only if relevant to the Committee's work. We know your CVs.

Again, you sit as an individual. You do not represent the interests of a specific organization or anyone who may have nominated you. And we're just looking forward to hearing from you. And just because you disclose doesn't

mean you have a conflict. Obviously we just want 1 2 to understand what people bring to the table. So with that, let's go to the first 3 person, Greg Alexander. 4 5 Hi, I'm Greq DR. ALEXANDER: Alexander. It's my first year on the MAP, first 6 I'm a registered nurse. 7 meeting here. I'm a professor at the University of Missouri. 8 Мy 9 background is I have research grants. I have 10 several active ones right now, too. 11 particular, one through the Centers for Medicare 12 and Medicaid Innovations Group and on hospital 13 readmissions and long-term care trying to prevent 14 avoidable hospitalizations. 15 And then I have another one through 16 the Agency for Healthcare Research and Quality 17 looking at quality measures related to IT 18 adoption trends over several years. Thank you. 19 DR. BURSTIN: Thanks. Thanks, Greq. 20 Jack Fowler? 21 DR. FOWLER: Hi, I'm Jack Fowler. 22 a part-time advisor these days on the research

agenda of the Informed Medical Decisions 1 2 Foundation in Boston. And the foundation is now 3 part of Healthwise, a non-profit organization 4 that provides health information in a variety of 5 forms to patients who are facing decisions and other medical issues. 6 7 DR. BURSTIN: Any disclosures? That's it? 8 9 DR. FOWLER: (No audible response) 10 DR. BURSTIN: Okay. So no other 11 disclosures? 12 MEMBER FOWLER: Do you think --13 DR. BURSTIN: I think we got it. 14 Sorry. 15 Yes, I'm Mitchell Levy. DR. LEVY: 16 I'm the Director of the Division of Pulmonary 17 Critical Care Medicine at Brown University. 18 the subject matter expert for safety. I've been on the MAP for I think three or four years. 19 20 main work is in sepsis. I do a lot of work in 21 quality improvement and performance improvement 22 and knowledge translation. And I have no

financial conflicts of interest, although I've 1 2 worked as one of the lead investigators of the Surviving Sepsis Campaign for about 12 years. 3 4 And we developed the metrics that now have been 5 taken up by CMS and are mandated nationally. 6 DR. BURSTIN: Thanks. Sean? Sean Morrison. 7 DR. MORRISON: I'm a professor of geriatrics and palliative medicine 8 9 at the Icahn School of Medicine at Mount Sinai in 10 I direct the Palliative Care Institute 11 there and the National Palliative Care Research 12 I receive funding from the NIH, from Center. 13 PCORI and private sector philantrophy, none of 14 which is industry-related. And no disclosures. 15 DR. BURSTIN: Thank you. Dolores? 16 MS. MITCHELL: I'm Dolores Mitchell. 17 I'm the executive director of the Group Insurance 18 Commission of the Commonwealth of Massachusetts. 19 And although I have informed this august 20 organization three times that all of those 21 initials after my name, which are totally

incomprehensible to me; I don't even know what

they -- well, RN, I know what an RN is -- (Laughter)

MS. MITCHELL: -- and I'm not an RN, nor am I a CMM, nor am I an FACHE, nor am I an MSHA. So thank you for the honor, but I'm not entitled to any of them. I'm not sure who decided I was a subject matter expert. All I know about hospitals is what Nancy Foster and Rich Umbdenstock have tried to dis-inform me of my bad opinions.

(Laughter)

MS. MITCHELL: But I'm happy to be here. This is I think maybe my fourth year on this wonderful group. And I'm saying that without sarcasm, by the way. It's been a pleasure. And I think my only conflict could be construed as a non-financial one, namely that I sit on the board of the NCQA, which does develop measures. And I have nothing -- unfortunately I have nothing financial to disclose.

(Laughter)

DR. BURSTIN: Thank you, Dolores. It

was much cheaper than going to all those schools, 1 2 wasn't it? (Laughter) 3 4 DR. BURSTIN: We just pop it on a 5 slide for you and you're good to go. So, Mike, please? 6 7 DR. PHELAN: Can I have some of those initials, Dolores? 8 9 (Laughter) 10 I am Mike Phelan. DR. PHELAN: emergency medicine physician at the Cleveland 11 12 Clinic. Also at that institution I'm on the 13 quality side. And I work pretty extensively with 14 the American College of Emergency Physicians, 15 ACEP's Quality Patient Safety Committee. I have 16 some small grants and other than that nothing 17 really to disclose. Mostly related to research 18 around quality and emergency medicine. 19 Thanks, Mike. DR. BURSTIN: 20 Marie? 21 DR. SULLIVAN: Hi, I'm Ann Sullivan. 22 I'm the commissioner for the State of New York

Office of Mental Health and I'm also on the Medicaid MAP Workgroup. And nothing to disclose.

DR. BURSTIN: Thank you. And lastly, our federal representatives. Pierre, want to introduce yourself?

DR. YOUNG: Hi, I'm Pierre Young. I'm here representing CMS, and at CMS I work on the quality measures that we put into our program.

So happy to be here.

DR. BURSTIN: Dan?

DR. POLLOCK: I am Dan Pollock. I'm representing Centers for Disease Control and Prevention. At CDC I lead the group that's responsible for the National Healthcare Safety Network, which is a surveillance system used, among other purposes, to measure healthcare-associated infections, antimicrobial use and resistance, and other adverse events and adherence to prevention practices. And a pleasure to be here.

DR. BURSTIN: And I know Pam Owens couldn't be here in person today. But Pam are

1	you on the phone?
2	DR. OWENS: I am. Thank you very
3	much. And I am sorry that I'm not able to be
4	there today. My name is Pam Owens. I'm the
5	scientific lead on the AHRQ Quality Indicators
6	and I'm an epidemiologist by training.
7	DR. BURSTIN: Great. Thanks, Pam.
8	So just my last word on this. Oh, I'm
9	sorry. Go ahead.
LO	MS. EVANS: Yes, I wasn't on that.
L1	I'm Beth Evans. I was also one of the expert
L2	DR. BURSTIN: Okay.
L3	MS. EVANS: attendees. And I'm not
L4	on the list, but I'm here.
L5	(Laughter)
L6	MS. EVANS: My name is Beth Evans.
L7	I'm a nephrology nurse practitioner in
L8	Albuquerque, New Mexico. I'm representing
L9	American Nephrology Nursing Association and I'm
20	also on the NQF Renal Standing Committee. Thank
21	you.
22	DR. BURSTIN: Yes, you are. And

you're on my piece of paper, but you missed the slides. Our apologies. Thank you so much.

So lastly, the reason we do
disclosures is just so everybody knows what
everybody brings to the table as we have these
discussions. Again, disclosures don't
necessarily mean a conflict, but really
importantly at any point during this meeting you
have any concerns about somebody's disclosures or
about somebody potential biases they're bringing
to the table, or anything really at all, please
come forward to NQF staff or the Chairs. Always
better to deal with those issues in real time
rather than finding out about them sort of much,
much later when people are concerned that there
was not really a robust and open discussion.

So with that, I'm just going to ask if you have -- based on everything you've heard, do you have any questions of each other about disclosures or any other issues regarding your introductions?

(No audible response)

DR. BURSTIN: All right. I think it's time for you guys to get to work.

CO-CHAIR WALTERS: -- staff?

MS. MARINELARENA: Hi, everyone. My name is Melissa Marinelarena. I'm the Senior Director now in the Hospital Group. This is my first year with MAP. I recently came back to NQF. I was here back in 2008, so it was the pre-MAP area. So I want to thank everybody for all of your hard work, the team, all the support staff that we have here at NQF working on this, and we're looking forward to the next two days.

PARTICIPANT: Talk about where you were before.

MS. MARINELARENA: Where was I before?

I've been a lot of places. Well, I was in the hospital. I worked at Cedar Sinai. I worked with their measures there and did all the measure collection. And so, I went from here, from the policy side to the implementation side. So very familiar with a lot of these measures. And again, welcome.

MS. O'ROURKE: Hello, everyone. I'm Erin O'Rourke. I'm the Senior Project Manager supporting the Hospital Workgroup, and this is my I believe fifth year supporting the MAP. I've been here since the beginning and I'm excited to work with you all for another year.

MS. SHAHAB: Good morning, everyone.

My name is Zehra Shahab. I am the Project

Manager supporting this workgroup. I've been at

NQF for about two-and-a-half years now and I've

supported the readmissions project, care

coordination, population health. I've been on a

variety of projects, but this is my first time on

MAP Hospital and looking forward to a great two

days.

MR. TILLY: Hi, everyone. My name is Jean-Luc Tilly. I'm a project analyst supporting the MAP Hospital Workgroup. I've been at NQF for about three-and-a-half months. It's been great so far.

CO-CHAIR WALTERS: And I'll tell the new people; the people who've been here a while

know, we have excellent staff support. So feel free to talk to them about anything you may need. It's excellent.

So for the new people also, your job is to speak up, it's to get involved and get a buddy for someone that's been here longer, and if you have any questions, feel free to ask them.

Don't be shy. This does not tend to be a shy meeting, by the way.

The objectives are very simple. We want to improve patient care and we want to make sure we know how we're measuring to do that. So let's not forget that it's all about measuring the improvement we make in patient care. And as a part of that, it's to deliver report to CMS about the proposed measures, the measures under consideration.

So that's the objective of the meeting. And we appreciate everybody's input prior to the meeting.

At this time I'm going to turn to over to Pierre, who's going to make some opening

remarks from CMS.

DR. YOUNG: Thanks, Ron. So it's a pleasure to be here. And just so folks know, we at CMS start thinking about the MUC list that we put together that you will be considering today starting in the spring time. So this is almost a year-long process for us at CMS.

And so, we always look forward to the MAP because, one, it's wonderful to see the diversity of perspectives represented on the Committee and the Workgroup, but also because it's a chance to see many returning members, but also to welcome new members. I always look forward to hearing Delores' comments and the perspective she brings to the table. But do want to thank all of you for taking time. I know you're all very busy, so taking two full days to participate and know that you spend many hours in addition outside of the two days at NQF to review the measures and provide your perspective.

I remember sitting here last year and somebody was asking a question checking that CMS

really does consider the input the MAP provides, and I want to reassure that we do take the MAP input very seriously and we want to make sure that we are here. And you'll see my colleagues coming to join me at the table, because we value your input and the diversity of opinions. So thank you for that.

I do want to thank also Ron, and welcome Cristie for chairing this particular workgroup, and also to thank Helen and her staff for all the work they've been putting in. And we've been really lucky to be able to work with them and certainly know that this meeting will proceed really smoothly in large part due to all the work that they've put in. So thank you.

CO-CHAIR TRAVIS: So we have just a couple of minutes. Does anybody have any questions they would like to ask Pierre before we get started? Yes, Nancy?

MEMBER FOSTER: Pierre, first of all, thanks for being here. It's been incredibly important throughout I think all of the years

that we've been doing the MAP to have CMS be a very vital presence at the table and be able to help us understand what's coming and why and so forth.

And in that regard I'd like to ask you if you could help us understand the set of measures that have come forward for the hospital programs this year. If one were to just sort of look at this blank slate, it might look like kind of a hodgepodge of measures. So is there a sort of framing thought or series of thoughts that brought these measures forward for this year that you might help us understand?

DR. YOUNG: Sure. So when we start thinking about putting together the MUC list, I think the thought, our sort of guiding principles and sort of goals are outlined in the National Quality Strategy. So I think that's the first place where we start. But then we also look at each program individually. And as you notice, each program has its own MUC list. So we look at the measures within each program, look at the

goals of those programs and look for particular gaps in the quality measures that are already implemented into those programs.

There are other considerations we also consider, so we also consider when putting together that list prior comments from the MAP. So we review prior MAP reports. We look for opportunities for alignment, because there are certainly concerns around burden and sort of misalignment between programs that we know is very real. So we want to be sensitive to that.

There are also priorities that we additionally have such as care coordination, improving care outcomes, patient and family caregiver, and improving that outcome space. So I think those are some of the priorities we also think about sort of that overlay some of the other considerations that we've put together.

so while the MUC list for each program is only a small subset of measures, you can imagine that those would be potentially implemented into a larger program which has

potentially many more measures. And so we think about the measure set as a whole, not just what you see on the MUC list. So hopefully that helps a little bit.

CO-CHAIR TRAVIS: Delores?

MS. MITCHELL: Well, I wasn't going to say anything right off the bat, but --

(Laughter)

MS. MITCHELL: -- Pierre's comment in response to Nancy's question made me think that I wanted to give CMS an admonition, if you will, which you can ignore or not as you wish.

But I have often been struck in these meetings by what is the appropriate focus on the federal programs. I understand that they're your programs and you pay for them and you want to have the best measures possible for working with them. But I think one of the considerations that I was listening for in your answer that I did not hear is the incredible ripple effect of everything that you decide on the rest of the healthcare world, or the medical world, or the

purchaser world, or the payer world, particularly given the increasing size, scope and magnitude of the federal role.

It may be a program that my agency, for example, has absolutely nothing to do with, but what you decide and how you run things and what rules you use and what measures you use has an incredible impact on us. And I hope that's always on your list of things you think about, because you should.

DR. YOUNG: So thank you, Delores.

And I know that's been a topic of discussion, I think, also in discussions in the MAP, I think, at the Coordinating Committee level as well as in the individual workgroups that have been discussed. And so you're absolutely right that there are ramifications for decisions that CMS makes, and certainly CMS, beyond the work and the discussions here, is also involved with private payers, with like the Care Core Measures

Consortium and other activities with other private partners in terms of thinking about and

sort of making headway towards potentially aligning measure sets, for example, and core measures across program. So certainly that is a consideration, but thank you for bringing that up.

CO-CHAIR TRAVIS: Ron?

CO-CHAIR WALTERS: Yes, I'd like to say also I'm sure I don't need to tell most of the people, or maybe all the people in this room, but as someone who does read the final rule every year and over years, you do get that very sense of appreciation, because they reference NQF Hospital Workgroup frequently in the final rule as rationales for either decisions they made or decisions they did not make. And it also gives you a very good feel, to the answer to Delores' question, as far as not only historically what's been the thinking process, but you get a pretty good feel for what's coming along in future pipeline and so on.

So it's all there. It's in a rather bulky document. But take the opportunity to read

it, if you don't.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

CO-CHAIR TRAVIS: Okay. If you do want to make a comment, please put your tent card up. That'll help me be sure I call on you and can be sure that I get the right person's name. It's a large group.

So Marty?

I just wanted to make MEMBER HATLIE: a comment kind of building on what we've seen so far, because I have the good fortune to be able to listen to a lot of patients and family members. And I think that even though I find this MUC list every year overwhelming to look at, especially just given the time frame, and I always come here feeling a little insecure about whether I've got command of the material, even though I know I don't, I think there is an alignment that I'm seeing. So it can look like a hodgepodge to me, but there is an alignment that you see over time. And I think consumers increasingly are seeing that from CMS as a whole through the different projects that are being

focused on as transformation vehicles for healthcare.

So two or three years ago I remember having a conversation with Helen Haskell about how there was just no confidence that CMS was actually aligning with quality and safety going forward. And I think that's really, really changed in the last couple of years. So it makes me excited to be here and I think I want to just give CMS kudos for I think having a strategy to really drive not only improvement, but culture change in healthcare.

DR. BURSTIN: Okay. Well, seeing no more cards, I think we'll go on and get started looking at the measures themselves, which is why we're here today.

I'm going to turn it over to Erin
O'Rourke and Zehra Shahab. And I just want to
add my thanks to them. One of the biggest
changes that we made in the process this year was
to have some preliminary analysis done according
to an objective rubric, and the staff took on

that responsibility. And I know it was extremely helpful to me in helping me kind of hone my thoughts, and I hope you found the same thing.

So I want to thank Erin and her team for taking on that for us.

And I'm going to turn it over to them to talk about the pre-rulemaking approach so we'll understand how our work over the next couple of days fits into the bigger picture.

MS. SHAHAB: Thanks, Cristie. So good morning. I'm going to be providing an overview of the MAP pre-rulemaking criteria and the approach that we've taken including decision categories and describing the measure selection criteria for everyone as well.

So on this slide, first it's a threestep process how we've improved it. We have
developed program measure sets like frameworks,
which is in Excel, that you can see in the
materials. And this is titled, "The MAP Hospital
Workgroup Frameworks," and it includes the
current measures in the program. And we put it

in an Excel so you can filter and look at it according to topic, priorities and the measure type. So also we've also looked at the measures under consideration for how they would affect the current program sets and we've also identified priority measure gaps for each of these programs and settings.

And on the next slide we also would like each of the MAP workgroups to reach a decision about each of the measures under consideration. And I will describe each of the decisions categories for the measures. Each decision should be accompanied by a statement or rationale that explains the decision by the workgroup.

On the next slide you will see -- so there's two types of pathway. One is for fully developed measures. And for fully developed measures the options are you can either support, conditionally support or do not support. And a few examples of conditions that could be are NQF endorsement, whether they require further

experience or further testing.

Okay. So the second option is for measures under development you can either encourage development if it addresses a critical program objective and promotes alignment, or you could do not encourage further consideration if it already overlaps with a measure that's in the program and if it doesn't address a critical program objective as well.

And the last option is insufficient information, which you can select if the numerator and denominator are not provided.

DR. PHELAN: Can you go back a slide?

MS. SHAHAB: Sure.

DR. PHELAN: You know in the past this conditional support has always kind of been kind of a nebulous category to me. What happens if we give conditional support? Does it automatically -- like for instance, in measures that aren't currently NQF-endorsed but they're in the process of being endorsed at NQF, is there an opportunity for the MAP to revisit that or does conditional

support mean once it's NQF-endorsed it rolls through the process?

MS. O'ROURKE: So technically MAP only needs to review a measure one time. CMS is not obligated to bring a measure back to us unless it's undergone a substantial change. Pierre can probably illuminate that a little bit more, but conditional support, you would not automatically review that again. It would be up to CMS to put the measure back on the MUC list and bring it back to MAP for review.

DR. PHELAN: And the reason I bring that up is because some of these measures are currently undergoing SDS testing and things like that I think it would be very valuable on -- I hate adding another category or something like that, but the idea that we really like the measure and it sounds like a great idea, but we'd really like to see what the final product is.

It has always bothered me on a couple of different levels because I'm like, well, we're kind of endorsing something that we really don't

know what the final product is yet. So I've always wondered if possible -- and that has given me great consternation because then it comes up with a decision of I really like the measure, but I cannot support it because I'm not going to be able to get another shot to look at it.

MS. O'ROURKE: Absolutely. And we recognize that's a grave concern shared by this workgroup and I think all of the MAP workgroups.

And I don't know that I have a satisfying answer for you, but I did want to make sure that everyone knows we capture all of your discussions and concerns and put those in the rationale that goes along with each decision of the support, conditional support, do not support. So even if there's not a formal chance to review it again, all of your feedback does go to CMS.

DR. POLLOCK: Zehra, I wonder if you could just say what you mean by "fully developed measures." Are you using that concept interchangeably with NQF-endorsed measures, or is it something different?

MS. O'ROURKE: Absolutely. So the pathways are really determined by the level of testing. If a measure is specified but has not yet been tested for the setting or level of analysis of the program, that is how it ended up in the measure under development pathway, whereas a measure that's not NQF-endorsed yet but is tested and specified would be considered a fully developed measure.

DR. POLLOCK: I'm still a bit confused.

If a measure is endorsed by NQF, it's typically endorsed for use in a particular type of healthcare location. So again, what is meant by fully developed measures? Are they measures that are indeed NQF-endorsed or is it some other category?

DR. BURSTIN: So typically anything that's endorsed obviously is fully developed. We still do have measures that come forward in which the developer has indicated a desire to continue testing, and I think in a couple of examples we put those in the continued development category.

But I think those are just a few examples that we can talk through.

DR. POLLOCK: So the essence is a fully developed measure can be one that may or may not be subject to further testing depending on what the developer seeks with respect to that measure?

DR. BURSTIN: No, but it may be endorsed and brought in potentially for one level analysis and at another level of analysis we would still consider that needing further testing. So it could be endorsed at one level of analysis or requires further testing for a different level of analysis or issues along those lines.

CO-CHAIR WALTERS: If I could add my two cents. If you show that slide and then the next slide, the really tough distinction which is being talked about here is that conditional support. And it can be subject to NQF endorsement, or encourage continued development. I mean, that's kind of the dividing line. And as

we go through the process I think everybody in the room is going to have to make a decision about the conditional support versus less than the conditional support. So this is a very pertinent topic and it's going to depend a lot on the measure, where it is in development, where it is in the testing, etcetera, etcetera. I mean, that's probably the best you can do.

DR. POLLOCK: And I guess it comes down to then without having another support category in that hat, it probably will fall to a do not support if you don't have enough of the information to make that decision based on socioeconomic factors that are being implemented. And that just has always bothered me because I want to say that we support it. Wait for the next round and the only thing that's really available in that category is do not support, unless you say conditionally support because no matter what comes out at the end of that NQF endorsement process, they're just going to accept it as a good measure, so to speak.

CO-CHAIR TRAVIS: Allen?

MEMBER NISSENSON: Yes, just to follow up on Michael's point. Do you have any data on what actually happens? What fraction of measures are in the conditional support and then what actually happens? So how many of those end up going forward and additional work is done and then they get adopted? So it would give I think a more realistic picture what it means to vote in that category.

MS. MARINELARENA: So most of the measures right now in the hospital are already endorsed. Some of them there may be updates, so it's just an update to the measure. But we also want to assure you, too, that here at NQF we are incorporating the CDP work with the MAP work. So all of the measures that were conditionally supported because they were not NQF-endorsed last year have come to us regarding projects and we reach out to the measure developers.

I know for example I'm leading the cancer work and cardiovascular work as well, so

even measures that were on the MUC last year and got conditionally supported based on NQF endorsement, we are reaching out to the developers to make sure and ask them if they're going to submit the measures. If it's a CMS measure, it does come to us.

CO-CHAIR TRAVIS: Nancy?

MEMBER FOSTER: So I know this has been a learning process over the several years that we've all been involved in -- at least some of us have been involved, so I'm just reflecting on my confusion in response to Michael's question earlier and the conversation that's ensued.

It seems to me, Ron, that your response is right. That is where the tension is. Do we conditionally support, do we encourage further development or do something else? But if a measure has been classified as, quote, "fully developed," we don't have that choice. So maybe part of our conversation should be around whether we think it actually is fully developed, is appropriately classified in that respect for the

program or use for which it is being proposed.

Is that a fair conversation to have?

CO-CHAIR WALTERS: I think that's one of the factors that go into that decision for sure. And there is a certain element of trust, I would say, in the NQF endorsement process that it will make sure that a measure doesn't get through that isn't less than that. But it's going to be measure-specific.

MEMBER FOSTER: Okay. And then in response to Allen's question, I would say I'm in the trust but verify category.

CO-CHAIR TRAVIS: Tom?

MEMBER LUTZOW: Yes, it seems that throughout the measures one of the values that you kind of hit is meaningful comparison between providers. And I think the next generation is going to look back at this work and feel that that's too narrow.

There has to also be to what extent do these measures meet another criteria, and that is meaningful coordination between providers. And

one of the measures in this list speaks to that, and that is the smoking cessation. There are others that could be articulated along the lines of meaningful coordination, and that is readmission. But so much of the success in the total healthcare scheme is related to coordination of resources and our measures don't really get to that. Across the board they don't get to that. And what we have in fact is a siloing effect on many of these measures rather than a coordination effect.

And so collective impact has to be an important consideration in selecting measures.

Smoking cessation can't be taken care of in three days, in a three-patient inpatient stay. There are others, too, especially with chronic conditions that linger beyond that touch period. The entire system, both in the medical side and the social service side, has to be aligned. And wherever Medicaid and Medicare dollars are spent there's an opportunity for coordination.

And so that has to be a value I think

going forward that needs to be addressed by these measures and the question has to be asked to what extent does this measure or that measure speak to coordination? And in some cases it will be zero, it doesn't speak at all. And in other cases it needs to speak to coordination. And maybe that's some other domain that needs to be spoken to, but I think as a general rule; and I'm glad CMS is here, we're too narrow.

CO-CHAIR TRAVIS: Thank you, Tom. And I may give Pierre a chance to kind of respond.

One of the aspects that I've seen develop over time in the MAP work is the desire and actually the implementation of measures, similar measures across programs, something like a smoking cessation, because there isn't just one -- it's not one touch in one setting that's going to have that kind of an impact. And so we have begun to see measures that cross all of these programs intentionally. So especially those that hold providers accountable for like readmissions. It's not just one provider that's impacting the

readmission.

And so we're beginning to see, I
think, from an intentional standpoint from CMS
that some of these measures do need to go across
the programs. And of course care coordination is
one of the priorities that CMS has identified.

So your point I think is very well taken that we need to begin to look across these programs and see how they're working together, not just independently of each other. And that is certainly something on the consensus development process side that we're beginning to see, because we see the measures, a lot of the measures before they get to the MUC list. And that rationale and that intent is beginning to take place.

But I agree with you, Tom, that we need to keep that kind of front and center in our mind. And sometimes it's hard to look across all these measures and programs and see the big picture.

But I don't know, Pierre, if you want

to kind of give us one final comment before we move on.

DR. YOUNG: Sure, Cristie.

Absolutely. So we certainly do think about sort of -- care coordination is one of the priorities for us when we're thinking about measures for our programs, and also alignment between programs as we discussed earlier.

But I did want to go back for a second just to comment on the sort of fully developed measure and sort of how we think about that.

Certainly the measures we put forward on the MUC list we believe are appropriate for the program.

And there are particular reasons we may bring forward during discussions. Like for example, we'll talk about the tobacco measure, for example, just a little bit that we specifically want feedback on and we'll provide additional context when we have those discussions.

And I don't have a hard statistic, but when it comes to the endorsement process, I mean, the timing unfortunately is not -- there are

constraints, because from CMS' perspective in order to implement a measure into a program we have to go through rulemaking, through proposed rule and the final rule, which is a lengthy process. And then the endorsement process is also a lengthy process. So if we were to go sequentially from endorsement first and then bring it to the MAP and then put it through the rule and then add on the measure development time, we're talking like five years. And that's a long time to wait from our perspective to try and really meet our goals of improving healthcare delivered in the nation.

So oftentimes we may have what we consider a fully developed measure that has not gone through the NQF process yet simply because an appropriate project hasn't opened up and that may open up in the next few months. And so those measures we still believe are fully developed and we put them on the MUC list for your consideration at that point. But our intention is to submit them to the NQF's consensus

endorsement -- development process for consideration for endorsement to sort of when that appropriate project comes up. So I hope that helps.

CO-CHAIR TRAVIS: Zehra?

MS. SHAHAB: Thanks. Thanks everyone. So we discussed the pathways and I just wanted to give a quick overview of the measure selection criteria. And I won't read each of these, but I'll give kind of a high-level overview. So just keep in mind that these are not absolute rules. They're more of a general guidance on who the decisions should be made.

The focus should be to select highquality measures that while NQF endorsement is
not required, it is highly preferred. They also
should address the National Quality Strategy
three aims. They should respond to the specific
program goals and requirements. They should
include a mix of measure types. They should fill
critical gaps. Also consider health disparities
and cultural competency. And also increase

alignment.

So on this next slide you'll notice that, as Cristie was referring to earlier, the staff has conducted preliminary analysis for each measure under consideration. This is just to help facilitate the consent calendar. And you will find these in the discussion guide. And these are in the materials.

created using an algorithm which asks a series of questions about each of the measures under consideration. And this was developed from the MAP measure selection criteria and approved by the Map Coordinating Committee. So please note, though, that these are just intended to provide a brief profile and to be a starting point for discussions. And you can wholeheartedly agree or disagree with the staff's preliminary recommendations and vote accordingly.

And before I turn it over to Erin, I wanted to see if there were any other questions about the decision categories or anything I've

reviewed in the slides so far. 1 2 MS. MITCHELL: A quick process 3 Do I assume correctly that the consent question. 4 designation is used in the same way that it's 5 used in most parliamentary venues, namely that unless somebody wishes to discuss it, it is in 6 fact deemed to have passed? 7 Is that correct? Yes, that's correct. 8 MS. SHAHAB: 9 MS. MITCHELL; Correct? Okay. 10 I just wanted to be clear. you. 11 MS. SHAHAB: Yes. Okay. 12 MEMBER FOSTER: Clarity on what's 13 It is the staff recommendation that's passed. 14 Is that right? passed? 15 Yes, that's correct. MS. SHAHAB: 16 MEMBER FOSTER: Thank you. 17 MS. SHAHAB: Okay. Erin's going to 18 review the voting process and we'll also do a 19 test voting slide after this. 20 MS. O'ROURKE: Thanks, Zehra. So I 21 did want to do a few housekeeping items before we 22 jump into the voting process. Does everyone who

is an organizational representative or a subject matter expert have a little blue clicker in front of them? That's what you'll be using to do the vote. If you don't, please raise your hand and Jean-Luc will come assist you.

And as Cristie mentioned, if you wish to speak, please put your tent card up vertically. And also to please have your microphone on when you're speaking so the transcriptionist can capture everything you have to say so that we have it all for our report. We don't want to miss anything. And on another note on the microphones, I believe only three can be on at a time. So if you're having an issue turning your microphone on, please make sure others haven't left theirs on accidentally.

Moving on to some key principles for our voting procedures. We'll be taking a vote on every measure under consideration either as an individual agenda item or as part of the consent calendar as I just described and Delores and Nancy clarified. So if you don't pull a measure

off of the consent calendar, the staff recommendation will pass.

We are asking the workgroups this year to reach a decision on every measure under consideration. This is a request from the MAP Coordinating Committee that we no longer pass things up to them without the benefit of a recommendation from the Workgroup. They recognize that the subject matter experts on hospital measurement are the ones around this table and it's difficult for the Coordinating Committee to make a final decision without the benefit of your input. So we'll be pushing to try to get to a decision on every measure. No more split decisions, if you will.

However, with that being said, the Coordinating Committee does have the option to continue discussion about a particularly important matter if there's a policy issue or a particular strategic issue they wish to discussion. So the measures still will be discussed with the Coordinating Committee.

They'll also have the chance to review the public comments that we received and react to those.

Next slide. So just to let you know a little bit of how things are going to flow, we'll have some introductory presentations from NQF staff and the Workgroup chair to give some context about the programmatic discussion. We'll then open the floor for discussion and voting.

The electronic discussion guide will be the main tool that we'll be using to go through the meeting, so please let us know if you're unable to get that up. That decision has all the information you'll need about the measure, the specifications that were on the Measure Under Consideration list, what public comments we received, as well as the full details of the staff's preliminary analysis. So please let us know if you're having any Internet issues and can't pull that decision up.

The discussion guide is organized as follows: The measure under consideration are divided into a series of related groups for

discussion and voting. Each measure under consideration does have a staff preliminary analysis. As Zehra said, that's really just our attempt to pull together what we could find about that measure and give you all a starting point for discussion. It's not binding in any way.

The discussion guide notes the results of this preliminary analysis, so a preliminary what staff would think it would be a support, do not support of a conditional support based on past MAP deliberations, research from the field, things like that, and provides the rationale of how we got to that decision.

Next slide. So the voting process this year is a little bit different for those of you who've participated in the past. We attempted to eliminate some of the voting that we did last year, so there will be no more voting to vote. And we're also going to attempt to take only one vote per measure. Last year we subjected you to voting if you supported it, voting if you conditionally supported it or

voting if you did not support it. So we collapsed it all. There will be one vote per measure with support, conditional support, do not support all at one time. Hopefully that moves us through a little bit faster.

So the first step is staff will present each group of measures as a consent calendar reflecting the results of the preliminary analysis that we used using the MAP selection criteria and the objectives of the program.

Next slide. The next step, the measures can be pulled from the consent calendar and become a regular agenda item that will be discussed individually. So the Co-Chairs will ask you all to identify any MUCs that you'd like to pull off the consent calendar. Every Workgroup member has the ability to ask that one or more MUCs on the consent calendar be removed for individual discussion.

And we did attempt to start this process via email. So we do have all of the ones

that you submitted to us ahead of time that you'd like discussed as individual agenda items. So the Chairs have those notes. But if you missed the email, you are still welcome to pull measures at this time. I did want to clarify that. So we have what has already been pulled, but don't feel like you cannot pull additional measures if you wish to discuss them.

Once all the measures that the
Workgroup would like to discuss are removed from
the consent calendar, the Co-Chair will ask if
there's any objection to accepting the
preliminary analysis and the recommendation of
the MUCs remaining on the consent calendar. If
there's no objections made, the consent calendar
and associated recommendations will be accepted.
So we will not be taking a formal vote to accept
the consent calendar. So another change from
last year and eliminate one more click.

Next slide.

MS. MITCHELL: Another procedural question?

1	MS. O'ROURKE: Yes.
2	MS. MITCHELL: Are we going to take
3	each of these subject matter areas one at a time
4	and go through this process, or do you expect to
5	go all the way through the entire list for the
6	pulling of measures?
7	MS. O'ROURKE: We're going to go
8	consent calendar by consent calendar.
9	MS. MITCHELL: We're going to do what?
10	MS. O'ROURKE: We'll do one at a time.
11	MS. MITCHELL: Okay.
12	MS. O'ROURKE: So one area at a time.
13	So we'll finish what was on one calendar
14	MS. MITCHELL: All right.
15	MS. O'ROURKE: then move on.
16	MS. MITCHELL: That's just what I was
17	going to ask to do. Thank you.
18	MS. O'ROURKE: We will not expect you
19	to keep track of 40 measures and then come back.
20	So once we are done with what's left
21	on the consent calendar, we'll move on to voting
22	on the individual measures. So if you were the

member who pulled that measure for discussion, you are first up to discuss it. We'd ask that you explain why you pulled it and why you disagreed with the staff preliminary analysis.

We'll then turn to the lead discussants that have been identified to give their opinion. They are really welcome to say whatever they would like to say about the measure, if they agree with the staff analysis, if they agree with the person who pulled it, or if they have a completely different opinion.

DR. LEVY: I have a question. So a number of the measures appear on more than one program. Do you want one discussion on the measure or revisit it for each program?

MS. O'ROURKE: So right now we've got it for each program. I think that's maybe something as we get to those measures we can pause and ask the group if they feel a need to re-discuss it, if there's meaningful differences say between IQR and the HAC Reduction Program that they would like to discuss. But similarly

to years past we'd like to be as consistent as possible and have one recommendation for the measure across programs, but we understand there might be different issues a Workgroup member would like to discuss for a different program.

So once we've heard from the lead discussants, we'll open up the floor for the entire Workgroup and we'll discuss as needed. We ask that in the interest of time you refrain from repeating points that have already been presented by others. We've got an awful lot to get through today. And then after the discussion of each measure under consideration, we'll go to a vote on that measure.

For a fully supported measure, which

I believe are all but one that we'll be

discussing today, your choices are support,

support with conditions or do not support.

Next slide. So another change from last year is in how we'll be tallying the votes. This is really how we were able to eliminate some of them. If a measure receives greater than or

equal to 60 percent for any one condition; so support, conditional support or do not support, that condition passes. Where the change is is this year we'll be summing the results of the support and conditional support to get to a conditional support decision.

So if 55 percent of you support it, 5 percent would also conditionally support it, it would default to a conditional support and staff will pause afterwards and clarify the conditions. So a little bit of a change from last year that those can be summed to get to a conditional support. If we don't get to conditional support by summing support and conditional support, the recommendation would be a do not support.

And finally, abstentions are discouraged, but they will not count in the denominator. We have built in some additional breaks and a little bit of a longer lunch time this year, so we'd ask if at all possible you not step away during the voting. We know life happens, but please try to participate in all of

the votes if you can.

So next slide. Just a few guidelines for public commenting. We had a public comment period on the measures under consideration. We have incorporated those into your discussion guide. If you see a little number of public comments received, say two for example, if you click that two it will take you so that you can read the full comments that were submitted. We ask that the Workgroup members read these through and consider them in your deliberations.

We'll have an opportunity for public comment before the discussion on each program. Commenters are asked to limit their comments to only the measures for that program and to limit their comments to two minutes so that everyone has a chance to speak.

We will have a global public comment period at the end of each day. This is a chance for the public to weigh in on everything that has been discussed. And if they want to provide comments on a Workgroup recommendation, that

would be the time. We'll also have our usual 1 2 formal written public comment period that this 3 year will be running from December 23rd through January 12th. And these public comments will be 4 5 considered by the Coordinating Committee as well as submitted to CMS. 6 7 I think that is my last slide on voting, so I can take any additional questions. 8 9 MEMBER BENIN: Erin, were there 10 updates to that discussion guide, or if I downloaded it a few days ago is that okay? 11 12 need to re-download it? 13 MS. O'ROURKE: We updated it 14 vesterday. So there's a 12/15 version on the 15 SharePoint site. The SharePoint site is 16 public.qualityforum.org. So if you go there, 17 you'll see a version dated 12/15 that has all the 18 latest updates. 19 MR. TILLY: And just to be totally 20 certain, that version we labeled 3.1 in the top 21 left corner.

Marty?

CO-CHAIR TRAVIS:

MEMBER HATLIE: So there's going to be no split voting, I get that, but suppose there's a very strong minority opinion? It doesn't rise to 40 percent, but it's 35 percent. How does that go forward to the Coordinating Committee, if at all?

MS. O'ROURKE: So that is really what the rational category is for. And we capture both sides of the discussion there when there are strong opinions on both sides or a substantial minority opinion. Staff will also be bringing issues like that to the Coordinating Committee. So we're trying to avoid any re-votes on the measures, but when there is some strong minority opinions about some key issues, those will be going to the Coordinating Committee for consideration.

So if there's no other questions, we're going to do a quick test vote. So on the top of your clicker you'll see the buttons that say 1A, 2B, 3C. Those are the ones that we'll be using today. So if you could all take your

Then our test question is how do you 1 clicker. 2 feel about testing our voting system? (Laughter.) 3 4 MS. O'ROURKE: Do you support this 5 test vote, would you support it with some conditions, or do you not support that we're 6 7 taking this test vote? And if you'd point your clickers at Jean-Luc over there in the corner --8 9 point them at him. I'm told it's not totally 10 necessary, but it seems to work some magic. 11 I also want to add I'm MS. SHAHAB: 12 going to be doing a proxy vote on behalf of 13 Jennifer Eames Huff, who is going to be substituting for Helen Haskell until about 1:00 14 15 So I have that clicker and I'll be getting votes from here from chat. 16 17 (Voting.) 18 CO-CHAIR TRAVIS: Has everybody voted? 19 MS. O'ROURKE: There should be 26. Ιf 20 everyone could keep clicking. 21 And, oh, Jeff is out of the room.

there we go.

1	MR. TILLY: Oh, so that's just
2	sorry. That little clock on that's just the
3	timer on the right.
4	MS. O'ROURKE: Oh.
5	MR. TILLY: We actually have 23
6	responses so far, so I think we need two more.
7	MS. O'ROURKE: Okay. So keep
8	clicking.
9	MR. TILLY: Yes.
10	MS. O'ROURKE: You'll see the red
11	button light up. And your vote will not be
12	counted more than once, so don't be afraid to
13	keep hitting when we have these issues of getting
14	everything tallied.
15	CO-CHAIR TRAVIS: And it will count
16	your last vote if you change your mind, yes.
17	MR. TILLY: Okay. We just hit 25, and
18	that's it.
19	MS. O'ROURKE: So we don't have
20	consensus about testing our voting system. We'd
21	have to sum this.
22	(Laughter.)

MS. O'ROURKE: Conditional support.

So if there's other procedural
questions, I can turn it to Melissa to quick us

4 off for IQR.

MS. MARINELARENA: So this is just going to be a very quick overview. We did this overview during the web meeting, so this is just a review for everybody.

Again, just as a reminder; and I'm sure everybody here is more than familiar with these programs as we sit around the table, the IQR Program is a pay-for-reporting and public reporting program. The incentive structure is; and we did correct this from the web meeting, that hospitals receive a quarter of the applicable percentage points of the annual market basket, or the AMB payment update. And for those hospitals who choose not to participate in the program, they get the same percentage in reduction in payments.

The goal of the program is to provide an incentive for the hospitals to report quality

information about their services and to provide consumers information about the hospital quality so that they can make informed choices.

Next slide. We are reviewing -- this year IQR and the EHR Incentive Program is together, so we're considering both measures for both programs. Again, this is a pay-for-reporting program. And the difference in this now as of 2015 there will be a reduction of three-quarters of a percentage of the applicable percentage of the annual market basket payment update. So the difference is there's no longer an incentive to participate in meaningful use.

Now there is a reduction.

And the program goals here are again to provide widespread adoption of certified EHR technology to providers to incentivize the meaningful use of EHRs for hospitals. And of course by doing that we're looking to include quality, safety, efficiency in reducing health disparities and engaging patients and their family, improving care coordination and

population and public health, and of course to maintain privacy and security of patient health information.

Again this was just a quick overview.

And now I will turn it over to Ron and we'll get started. Yes?

MEMBER BENIN: So what you're saying then is that if we are voting support for any of these metrics, we're supporting them both for the IQR and for meaningful use?

MS. MARINELARENA: Correct. It's just that now CMS is no longer requiring hospitals to submit two separate programs. It's just through one program.

CO-CHAIR WALTERS: Okay. Everybody ready? So as mentioned earlier, at the beginning of every program the first thing we're going to do is call for public comments about the measures, and this will be any public comments about any measure in the entire program. We'll do it first for in the room, but you on the phone can start to think about what you'd like to do.

Are there any public comments? Thank you very much. Go ahead and identify yourself.

MR. DEMIHIN: Morning. My name is

Akin Demihin. I'm with the American Hospital

Association. Thank you for the opportunity to

share a couple of thoughts about the IQR Program.

And actually this point was just raised as a part

of this discussion about the differences and

commonality between the IQR and the Medicare EHR

Incentive Program.

And I guess my recommendation to the Committee would be to continue to consider those programs as parallel programs and not necessarily as the same program. We've begun to see more commonality between the programs over the past couple of years. There is a voluntary eCQM reporting option for the IQR now. There will be a mandatory eCQM reporting requirement that starts at the end of 2016.

Hospitals have expressed an enormous amount of frustration with the current state of eCQM reporting, especially with respect to

getting reliable and accurate data out of eCQMs, the extent to which different EHR vendors support particularly eCQMs. If their vendor doesn't happen to support one, it could leave them without the ability to report data.

We also have ongoing questions about the extent to which eCQMs have been tested across different EHR platforms and are quite concerned about a mandate that would have hospitals report on all of the same eCQMs.

And so as you think about how to recommend some of the measures on this list that are in fact eCQMs, you may want to make those recommendations conditional on their being used to support this kind of separate track for eCQM reporting rather than being something that would be a mandate to all hospitals. Thank you.

MS. BOSSLEY: Heidi Bossley. I'm consultant to the Federation of American Hospitals today. I'm just going to speak generally to a few comments.

I know all of you have already

discussed this, but again from the perspective of the hospitals I wanted to reiterate that it is important to look at the set of measures within a program and make sure that the juice is worth the squeeze, I guess I would say.

What we see with some of the measures that are proposed is a concept still, not quite ready for prime time. We're not sure that we actually know how these measures will be used, nor do we have information on reliability and validity, two critical pieces that we need to see before we see it moved into programs.

The other thing I would just note is even when we look at, for example, the cost measures, you can get that information from claims. So there is an assumption that it is easy for hospitals because there is little work, but actually when you look at the other side of this, there's still the quality improvement perspective as well as just the tracking that they need to do internally to make sure that this data is correct and that they're capturing

everything. 1 2 So just want to balance that perspective of looking at the claims. Oh, it's 3 4 easy. It actually isn't. There's a huge lift. 5 So if you can all be judicious as you think through, that would be very helpful. 6 7 CO-CHAIR WALTERS: Thank you very Are there any other comments in the room? 8 much. 9 (No audible response.) 10 CO-CHAIR WALTERS: Okay. Thank you. 11 Do we have any comments on the phone? 12 OPERATOR: At this time to make a 13 comment, please star then the number one. 14 (Pause.) 15 There are no public OPERATOR: 16 comments at this time. 17 CO-CHAIR WALTERS: Thank you very 18 much. 19 So we will now move onto the consent 20 calendar. As was mentioned earlier, we have 21 grouped these into shorter calendars so that

we're not dealing with 20 and 25 measures at one

time and flipping a bunch of pages. So the first Calendar 1, you should show has five measures on it. Four of them have been pulled for discussion. We'll get to them in just a second. One measure, Measure 2 out of the calendar, which was the harmonized SSI measure, is still on the consent calendar.

Is there anybody in the room that would like to pull that one?

MEMBER SCHULTZ: Yes, this is Leslie Schultz. I'd like to ask that that be pulled.

CO-CHAIR WALTERS: Okay. Measure 2 has not been pulled. That does not leave us a consent calendar anymore.

(Laughter.)

CO-CHAIR WALTERS: So we will now move to the Item No. 1 on the list, which is the adult local current smoking prevalence. And we have a presentation from CMS about that. Then we'll go with Andrea, who was the one who pulled that measure. Then we will go to the lead discussions, and then we'll open it up for

general discussion. Okay? And that's kind of the routine we'll go through for every one of the pulled measures. So first, we're open to the presentation from CMS.

DR. SANGHAVI: Thank you. My name is Darshak Sanghavi. I am a pediatric cardiologist and the Director of Prevention in Population

Healthcare at the Innovation Center in Medicare.

I'll just acknowledge I'm accompanied by several members of my team today.

I'll just review this measure summary in concept, which is a project that our group has proposed and it's something that has also been endorsed by our center director Patrick Conway, as well as Tom Frieden, the leader of the Centers for Disease Control.

The concept is an adult local current smoking prevalence as measured by the Behavioral Risk Factor Surveillance System, BRFSS, affectionately known as "Birfiss." This is NQF-endorsed at the state level, as you can see by given number 2020, which has also -- that data is

also collected at the county level in the identical manner. And this is going to be reported interesting not -- this information is actually collected by the CDC at the county level and reported by the CDC directly. We can talk about that.

Why a geographic measure for the IQR?

And I'm going to try to limit my comments to two
minutes so we can get to the discussion. Happy
to discuss any of the research that underlies
this if that will be useful to any members of the
group.

The first question is why a geographic measure for IQR? We believe that smoking prevalence is a critical outcome measure for population health. We at CMS broadly are interested in quality measures that promote coordination and population-based health. Not only measures, but as some of you are aware, we have announced a national strategy that also tries to put our payment strategies behind that as well with gradually increasing circles of

population-based accountability for payment.

We believe that there is significant evidence demonstrating that the smoking prevalence is substantially impacted by multimodal interventions that occur at the hospital level and also continue afterwards after those encounters as well. And there's substantial opportunity for improvement there.

To take one example, 18 percent of inpatients continue to smoke while they're in hospitals here. Significant community-based measures that can be endorsed by hospitals can have an impact on smoking to the point where last year the BMJ in 2014 reported that, quote, "Their findings by review suggest that delivering smoking cessation as a routine component of hospital-based care can have substantial impacts on prevalence of smoking." We believe this can be substantially also augmented by coordinated efforts across hospitals that are all in a county signaling the possibility of collaboration as well.

14

15

16

17

18

19

20

21

22

Next slide, please. Why the county as opposed to some other geographic denominators? Here we believe that county levels are easy to understand. We are striving for some basic concept of simplicity balanced with obviously an important outcome measure. Many other strategies can exist. Hospital referral regions. Those are derived from cardiac and neurosurgical referral Census tracks others. Each of those patterns. have issues. We believe the county-based level is the way to go because CDC has a methodology to collect that information through the BRFSS and reports it on a county level.

What about counties served by multiple hospitals? The key here, and I think one of the things we'd like to point out, is that the measure applies to all hospitals within a county. It connects them in some way. Hospitals, according to the CDC, have an enormous impact on the population geographically located around -- in which they are. Most Americans are in a county that is served by an acute-care hospital

and we believe that there is substantial possibility of coordinated activities. And we have also seen this activity already catalyzed in multiple health centers and also at large geographic centers including statewide in places like Oregon, as well as Maryland, through some of the other coordinated programs we are putting out there.

So I think one of the things that's been raised is what is CMS' strategic vision?

This is a measure that in many ways starts to push that measurement strategy to go with that strategic vision. We could talk about that as well.

Our final slide is next. Some may legitimately ask, well, what do hospitals -- what powers do they have or what ability do they have to significantly impact smoking rates at the county level? We believe that there is substantial data that underlies this. CDC is developing a tool kit to assist with that. We know that inpatient care can be a critical

component there.

We know that best practices also at employers. One example is at Cuyahoga County, Cleveland Clinic serves, initiated substantial changes in employment practices and that was correlated with a specific potentially attributable reduction in the county-based smoking prevalence at that level.

We also believe that there's substantial opportunities for community partnership as well. And as many of you are aware, there is a significant body of evidence that community-based interventions, of which hospitals play a critical part because of the patient population that are served in those hospitals can fulfill -- and some of those are listed there. Tobacco 21. The effects on impacting price of tobacco as well as cessation campaigns more broadly.

And finally, we also believe that CDC can assist with developing a tool kit which will be distributed. And I had mentioned that.

I'm at time right now. I will stop there, but thank you for the opportunity to bring this to the Committee.

CO-CHAIR WALTERS: Thank you very much, Darshak.

Hold your cards. Now in this

particular circumstance the person who asked that

the measure be pulled happened to be one of the

lead discussants. So, Andrea?

MEMBER BENIN: I think this is a really important area to look at and BRFSS is a really important epidemiological methodology for looking at smoking and how we impact smoking and reduce it as a society. So it's a critically important area. It's an epidemiological piece of work right now and I'm not clear how tying it to an accountability program for hospitals is the right thing as far as really thinking about how this can be moved.

There is only a certain amount that hospitals can impact around the people who come to them and are in contact with them, and so this

really strikes me as an epidemiological tool more than an accountability metric for a hospital. I think that there are lots of opportunities for CDC and CMS to come together and perform these analyses and be able to present out those analyses in order to begin to drive that conversation a little bit different, but this hasn't been used nationally. It's not been looked at nationally and as far as having people understand how it works and how it performs so that hospitals would know really how they're driving it.

So it just seems to me that it's premature for use as an accountability metric in a hospital-based program. It has potential and I think there's a lot of analytics that could be helpful in the future for hospitals to understand this better, but right now this strikes me really as an epidemiological function of BRFSS more than a true quality metric that hospitals are ready to be held accountable for.

CO-CHAIR WALTERS: Do you have a

recommendation about what that should be 1 2 classified as? MEMBER BENIN: I would recommend that 3 4 at a do not support. 5 Now, we're going to CO-CHAIR WALTERS: come back to you for the other measures in a 6 little bit. Leslie, you're the other lead 7 discussant. 8 9 MEMBER SCHULTZ: Thank you. This is 10 Leslie Schultz. This is the harmonized SSI 11 measure. 12 CO-CHAIR WALTERS: We're still on the 13 local current smoking measure. 14 MEMBER SCHULTZ: Okay. Great. Ι 15 agree with both CMS and Andrea that this is a 16 population health measure and we do encourage 17 that, however, again the limitations as to a 18 given hospital's ability to directly influence 19 this measure, we think that's beyond their scope. 20 And so I would support Andrea in the do not 21 support. 22 CO-CHAIR WALTERS: Thank you very

much. Now get the cards ready. I didn't notice
-- Jack, go ahead.

DR. FOWLER: Just two quick comments.

One, I think we know there are a lot of
demographic drivers of smoking and correlates
that really trump almost everything else in terms
of smoking prevalence. And so, it feels like
this would penalize hospitals that happen to be
located in the wrong places where the wrong kinds
of people live.

And second, I do have trouble with the notion that when 15 percent of the population maybe gets hospitalized a year, the whole hospital is responsible for the smoking rate at a population. And this coordination rationale didn't impress me, so I support the against vote.

MS. O'ROURKE: I do want to make one procedural clarification before we go too far.

This is our one measure that is on the under development pathway, so your choices are actually encourage future development or do not encourage further consideration. So they're on the small

screens to the side. It's fully developed at the state level, so this would be an application for the county level and it has not been tested at the county level.

DR. BURSTIN: In addition, in our conversations even if it is at the county level, there's probably an additional step to think through testing as it relates to hospital performance as well.

CO-CHAIR WALTERS: Ann Marie?

DR. SULLIVAN: I'm not sure how the person who developed this considers the big -for example, in New York City, if you up the taxes on smoking or you ban it in certain parts of the city, it has a huge effect on smoking.

That has nothing to do with the hospitals. And so it's not just the hospitals will be penalized for not doing it. I mean, you could have a society, a certain area where smoking initiatives are being made which would make the hospitals look very good and have nothing to do with what the hospitals are doing. So I'm not sure how the

developer of this tying it to what the -- if there's enough value for what the hospitals could do to impact it when big societal things can impact smoking almost in a much more aggressive way than others.

So for example, if you were to have a city that suddenly said you can't smoke any place; and that has cut smoking rates in the city, I'm not sure how that then impacts hospitals. How do you know that the hospital's done anything at all?

CO-CHAIR WALTERS: Okay. You can clarify an answer to that. Thank you.

DR. SANGHAVI: Sure. So that is correct that there can be impact if a city suddenly substantially increased the tobacco taxes. There are also many things that hospitals can do that also impact the smoking rate, though, however, as well.

As I pointed out, there are significant data that show that enhanced inpatient care actually does have substantial

impacts on local-based smoking prevalence.

There's also substantial impact that in hospital employee hiring and other practices can have substantial impacts. And based on our information, looking at Trinity Health, St.

Luke's Center, Kansas City, Partnership for a Healthier Carroll Hospital in Maryland, and numerous others, they have actually created large broad-based campaigns for the express purpose of reducing the smoking prevalence widely in partnership with other hospitals.

changes in -- you know, we passed the Affordable
Care Act in 2010. That was something that was
significantly outside the control of hospitals;
may have improved quality in some places, damaged
it in others. These types of things will happen.
We believe that this should not impede our
efforts to try and actually then realign our work
and our payments at the population-based level.

CO-CHAIR WALTERS: Thank you. We got Sean, Nancy, Brock, Mike and Jeff. Sean?

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

14

15

16

17

18

19

20

21

22

DR. MORRISON: Yes, I mean, I don't think anybody would argue from a societal perspective that smoking has significant impact on public health, but what strikes me about this is that this -- our quality programs seem to be the only hammer that we have against the nail which tobacco use. And, yes, the data suggests that hospitals can reduce smoking, but the reality is the data suggests that increasing the tax on cigarettes is a much more effective approach to reducing smoking cessation, that public service advertising campaigns are a much more effective way of reducing --

And what strikes me about this measure is people are feeling very frustrated about it.

This is the only program where we think we can make an impact, but quite honestly, as Jack pointed out, only 15 percent of Americans are hospitalized. Probably about 20 percent, less than that, are actually smokers. And this seems to put a tremendous burden on the wrong institution and the wrong program to address a

very important public health crisis. And I would suggest that we don't support this and we move efforts about smoking cessation outside of an accountability program and more into a public health perspective where they really belong.

CO-CHAIR WALTERS: Nancy?

MEMBER FOSTER: To keep this short I will just associate myself with all of the remarks that have been made by my colleagues on the Committee thus far. Important program -- or important issue, wrong program, wrong target.

I would also point out that hospitals have the annoying capacity to not be related to just one community, right? They serve broadbased communities. And you would decide which county to associate with Mayo Clinic or how to -- even looking at the hospitals here in the District, they serve Maryland and Virginia as well. It becomes very complicated in a way that just causes you to run down a rabbit hole to chase something that's not worth chasing.

CO-CHAIR WALTERS: Brock?

MEMBER SLABACH: I have two questions.

First is how does the data get accumulated? And

I'm concerned about small rural counties in

remote areas. How does that data get put into a

system that now is going to evaluate the

hospital's ability to stop smoking in their

community?

The second issue is is this in the ACO data set? And wouldn't this be more appropriate for those hospitals that have chosen to participate to be accountable for a community's health rather than affecting all the hospitals that haven't made that strategic choice possibly yet?

DR. SANGHAVI: So the answer to the first question is this is done on a county-level basis. There's a minimum number of individuals that have to be in a county for that to survey. There is methodologies used. It's essentially two survey questions. It's a telephone-based survey that are asked. And that's durable over time. It's been done since the early 1980s, and

again reported by CDC directly. So the reporting on the hospitals is not there.

To answer your second question, why

IQR and not other areas? I think again we would

say that smoking as the major and most important

preventable cause of hospitalizations deserves a

multi-modal strategy. We are not simply coming

to the MAP Committee as the sole component of our

anti-smoking strategy, but believe that this is

part of a broader rubric in sort of thinking

about the types of interventions that are most

effective.

We also, for example, don't incentivize strategies that could reduce community-based infection, but we have programs here that certainly look at sepsis, for example. We are downstream to many of these areas, but I think that ultimately we do need to find ways to actually create those programs that have upstream impacts.

So I think that with that, having said that multi-modal strategy again, the strategy

here we could -- we are coming to IQR. There is also as I said a parallel strategy to use this in our Medicaid statewide redesigned programs as well as potentially in the ACO programs that we do.

So again, we would like to create -one of the key things here is that the Committee
here has an opportunity to say we would like to
work with part of this broader public health
effort along with other programs, the direction
in which we're going, or the Committee can say
that we would choose to sort of hold back and
follow the rest of the organization.

CO-CHAIR WALTERS: We have Michael,

Jeff and Marty. And I would probably ask that

each one contribute incremental comments.

Michael?

DR. PHELAN: I hate to be kind of the disagreer amongst the rest of the crowd, but I see this opportunity as the movement of where quality measurement needs to go towards the future. Wellness is the reason why we really

want to get into the healthcare arena, and to not incentivize in a way like this which brings the multiple partners -- it brings health systems together, it brings public and private cooperation, it would do so much around this arena of health wellness to try to improve the -decrease the rates in communities. hospitals, health systems and all the things that are associated with those health systems would be incentivized to cooperate, number one, which is one of the big things that we probably don't do a really good job at doing, and really meaningfully impact the lives of patients, not just in a oneon-one setting, but in a much larger broader sense.

So I kind of sense this is the direction of where healthcare quality measurements needs to go and the incentives that need to be put around something like a community-based smoking rate or community-based hypertension rate, or whatever rate you want to look at, or whatever metric you want to look at

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

for that. And I think this is an opportunity to do that. They could piecemeal pick every single incentive. Like there's some good data that just briefly discussing with patients in the emergency department has about a 10 percent reduction in smoking rate for that population. But to piecemeal do this instead of wholesale trying to get it from the very far end, which is the outcome.

We really want to see the outcome measure be what we're striving for and then let the communities decide however they want to do it, or the hospital decide how they can best impact through whatever programs CDC has or CMS. And the hospitals and hospital systems will go hog wild if there's a measure. And how I envision this is I imagine -- and I don't know how they would incorporate it, but maybe a reduction -- if your community has a higher smoking rate, there may be a reduction in some kind of payment by a percentage or however it goes.

But from a wellness perspective and a community perspective we definitely don't do enough to encourage our patients to not smoke.

And it is a really heavy lift amongst -- if you're in a busy clinic and you're trying to move things along, but to meaningfully impact the patients' lives. The one and done doesn't do it, but to have a community working behind and rallying behind something like smoking -- and unfortunately the only way to get some of these incentives to this is with either a carrot or a stick.

I would much rather see a carrot, an increase in pay for every decrease instead of something to take away, which I think would get a lot more buy-in for the communities that you're trying to impact. Instead of taking it and saying, well, we're going to take some money away from you, well, we're going to encourage you because the up-front investment in this would be tremendous. Because at the back end is where you're going to be saving all the money, the

millions in COPD, cancer care and things like that, or billions down the road. And even in my small practice, I mean, I looked at how many people who actually come in and smoke with a significant disease like COPD, if they were ever given, at least in the medical record, any indication not to smoke. And it's almost negligible.

So when you review a medical record and you see someone who's been in the ED in the last six months four or five times for COPD and not a single provider actually meaningfully sat down and said have you ever thought about quitting? We have programs here at the clinic we can get you involved in. It's discouraging.

So I think I would ask the people in the group to think about this, but also from CMS' perspective the carrot works way better than the stick. So having incentives where it flips it from we're taking money away if your community is higher in smoking, well, we're going to give you money for significant reductions, not just the

fact that you have a 15 or 30 percent smoking in your community. If you show a three or fourpercent reduction, we're going to incentivize you to get that.

So I would actually recommend we; what is it, continued development, but along those lines to incentivize hospitals to do that, because there are a lot of programs out there that can meaningfully impact patients' lives, and this is one where I think the carrot will work better than the stick. And I think it's something that we should be looking at strongly.

These health systems have a tremendous impact based on the community they work in. If it's the worker, employer population where you can say we won't hire you if you smoke, or doing things like actually meaningfully interacting with patients in an in-patient setting, in an ED setting or in an outpatient setting. I think it can significantly impact the smoking rates in the communities that these hospitals and health systems serve.

CO-CHAIR WALTERS: Thank you very much. I will remind everyone we're trying to get through our first measure.

(Laughter.)

CO-CHAIR WALTERS: So please keep that in mind as we move through a couple days here.

Jeff?

MEMBER JACOBS: Thank you. I'll try to be brief. I just wanted to comment, probably say something a little bit different from the majority of what the first speaker said.

It seems from what I understand that our options here are to encourage future development or not encourage future development.

We don't have to fully endorse this at this point in time. And it seems that this measure is somewhat of a paradigm shift in the types of measures that are usually reviewed by this group; although I'm new to the group, but this is a measure that's putting hospitals responsible for the global health of the community.

And that's an interesting idea. It

could be debated whether or not that's the right or wrong idea, but I don't think we should shut that idea down today because it's an interesting idea that I think merits further exploration whether we should develop measures that put a hospital or a group of hospitals in a community responsible for the global health of the community.

And based on that rationale, I would encourage our group to encourage future development of this measure so that the measure developers can try to address some of the other concerns raised by the earlier discussants and come back to this group with a more polished measure that might address those concerns. This is a new idea and I don't think we should just shut down today.

CO-CHAIR WALTERS: Marty?

MEMBER HATLIE: I agree with the last two speakers. I think that we've underestimated the role that hospitals can play partnering with other community groups and public health groups

	in trying to advance wellness. I think it is a
2	paradigm shift. And I think the argument that
3	hospitals shouldn't have accountability, it's
4	unfair because they have a small part of the job,
5	or they can't do it all is just not where we're
6	going. And then the coordination strategy is
7	community responsibility and I think I want to
8	incentivize that.
9	So I'll vote certainly for continued
10	development. Thank you.
11	CO-CHAIR WALTERS: Last comment.
12	Nancy?
13	MEMBER FOSTER: Thanks. Just a very
14	different point, which is that this is proposed
15	for both IQR and EHR meaningful use program. Can
16	we at least agree that since it is not an EHR-
17	derived measure it should not be encouraged for
18	further development for that program and then
19	take a vote on the other?
20	CO-CHAIR WALTERS: Everybody ready to
21	vote?
22	(No audible response.)

1	CO-CHAIR WALTERS: Thank you. So
2	that's how it works, measure by measure by
3	measure. And we'll now open it up for voting.
4	MR. TILLY: Okay. The measure's how
5	open for a vote for the adult local current
6	smoking prevalence. Encourage continued
7	development, do not encourage continued
8	development, and insufficient information are the
9	choices.
10	MS. SHAHAB: Jennifer, can you please
11	send me your vote?
12	(Voting.)
13	MR. TILLY: Okay. So we actually just
14	need one more vote.
15	(Pause.)
16	MR. TILLY: Okay. And the results are
17	60 percent encourage continued development, 40
18	percent do not encourage continued development, 0
19	percent insufficient information.
20	CO-CHAIR WALTERS: So by our
21	guidelines, 60 percent encourage further
22	development.

1	Yes, Mitch?
2	DR. LEVY: I have a question. I'm not
3	sure. So this measure is not fully developed and
4	when if it's part of and the other three
5	are. So if it's part of a consent agenda and we
6	accept that it's not I mean, only
7	I understand that, but had it been
8	left, which I know this group's going to do with
9	anything, but with any of them, but had we
10	left it alone, what would be the voting on all
11	for them? Would we be voting to support them?
12	DR. BURSTIN: Whatever the staff
13	recommendations was remains.
14	DR. LEVY: Ah, I see. I get it.
15	DR. BURSTIN: So support
16	DR. LEVY: All right.
17	DR. BURSTIN: continued development
18	would have been
19	DR. LEVY: That's great.
20	CO-CHAIR WALTERS: Just for your
21	information, after about 25 minutes of discussion
22	the staff recommendation was encouraged for the

development.

(Laughter.)

CO-CHAIR WALTERS: Let's move on to No. 2, which is the SSI measure that was pulled by Leslie. So you will be discussing why you've asked that to be pulled first.

MEMBER BENIN: Ron, is there a place where we're supposed to know what the staff position is? Is that obvious on here somewhere?

CO-CHAIR WALTERS: If you go to that previously referenced new discussion guide, that is 3.1 in the upper left corner, and you scroll down to the measures -- so right now we're on Measure No. 2 in the first calendar, that one was listed as encourage further development.

MS. SHAHAB: So if it's helpful, I can also note what the staff recommendation is for each measure, because that I have that at hand.

So our staff recommendation was encourage further development for this measure. For the next measure, the SSI one, our staff recommendation is conditional support pending NQF update.

CO-CHAIR WALTERS: Okay. Leslie?

MEMBER SCHULTZ: This is Leslie and thank you for helping me get up to speed with process. I mean, I appreciate Zehra's comments there.

In reflection I do support what the staff's recommendation was. I do know that this measure is currently going to be in the process for periodic re-endorsement and review. I want to see the outcome of that first. And then do recommend that it be introduced into IQR, but not into other programs at this time.

CO-CHAIR WALTERS: Okay. The other lead discussant was Andrea.

MEMBER BENIN: I don't have a lot to add about this. I'm just not understanding at all whether this is the NHSN metric or the NSQIP metric, or whether it's -- because how can it be both because they have different sampling frames. And so I just have struggled to understand this and I assumed the idea was to figure it out and throw it in IQR and see how it worked, but I

would love some clarification on that.

DR. POLLOCK: So this is a harmonized measure in which ACS, NSQIP and CDC, NHSN agreed on the core measure constructs and the risk adjustment methodology. And the measures been in use in IQR since 2012, so the system for reporting purposes is NHSN. So we continue to enable both individual instances as well as sampling of the entirety of the denominated patient population being reported into NHSN.

MEMBER BENIN: Well, I think what you're saying is -- just to let me rephrase -- DR. POLLOCK: Sure.

MEMBER BENIN: -- make sure I understand, the NHSN metric has been in place for several years in IQR. We all know that. So, but then the idea here is that in lieu of submitting all of your patients, you could just submit the sample that you used for NSQIP.

DR. POLLOCK: You can submit a sample.

MEMBER BENIN: Okay. So that's what
this is asking. Is it okay to update this to

ĺ		
1	be	
2	DR. POLLOCK: No, the staff will in	
3	part	
4	(Simultaneous speaking.)	
5	MEMBER BENIN: So this is nothing new	
6	about this metric?	
7	MS. MARINELARENA: The only thing	
8	that's new is the name.	
9	MEMBER BENIN: The name?	
10	MS. MARINELARENA: Yes.	
11	MEMBER BENIN: This is a name update?	
12	MS. MARINELARENA: Yes.	
13	MEMBER BENIN: Okay. That's probably	
14	why I was confused.	
15	MS. MARINELARENA: So it's already in	
16	the program.	
17	DR. POLLOCK: I don't think the name	
18	is new.	
19	MEMBER BENIN: So why are we voting on	
20	it?	
21	DR. POLLOCK: Everything's the same.	
22	MEMBER BENIN: I mean, I could not	

1	DR. POLLOCK: We haven't made any
2	changes
3	MEMBER BENIN: sort this out.
4	(Simultaneous speaking.)
5	DR. POLLOCK: since 2012.
6	DR. YOUNG: It's to allow
7	accommodation for calculation of the SIR, the
8	standardized or, excuse me, the ARM.
9	MEMBER BENIN: So it's an update to
10	the ARM methodology that we
11	DR. YOUNG: Correct.
12	MEMBER BENIN: voted on last year?
12	MEMBER BENIN: voted on last year? There were a couple of other metrics, or
	_
13	There were a couple of other metrics, or
13 14	There were a couple of other metrics, or whatever. But this is just to get this one up to
13 14 15	There were a couple of other metrics, or whatever. But this is just to get this one up to date? Okay. I have nothing else to add.
13 14 15 16	There were a couple of other metrics, or whatever. But this is just to get this one up to date? Okay. I have nothing else to add. CO-CHAIR WALTERS: We knew that was
13 14 15 16	There were a couple of other metrics, or whatever. But this is just to get this one up to date? Okay. I have nothing else to add. CO-CHAIR WALTERS: We knew that was going to cause that very discussion. Sean, is
13 14 15 16 17	There were a couple of other metrics, or whatever. But this is just to get this one up to date? Okay. I have nothing else to add. CO-CHAIR WALTERS: We knew that was going to cause that very discussion. Sean, is your card up?
13 14 15 16 17 18	There were a couple of other metrics, or whatever. But this is just to get this one up to date? Okay. I have nothing else to add. CO-CHAIR WALTERS: We knew that was going to cause that very discussion. Sean, is your card up? Michael?

for that? From CPT codes? 1 2 DR. POLLOCK: No, it's an active 3 surveillance where staff within hospitals 4 identify instances of SSIs during 5 hospitalizations or in the aftermath of hospitalizations. So it's not a claims-based 6 7 measure. It's not purely a medical records measure insofar as there can be contact after 8 9 hospitalizations. There can be information 10 collected outside of the scope of what's in the 11 actual medical record of care in keeping with the 12 other approaches that are used in the NHSN 13 healthcare-associated infection measures. 14 DR. PHELAN: And so this is a 15 harmonized measure between NSQIP and NHSN? 16 how is it harmonized? 17 Okay. So why is it on the list? 18 DR. BURSTIN: Updated the methodology 19 to the ARM. It's going to reflect the other 20 NHSN-related measures. 21 DR. PHELAN: Okay. 22 DR. BURSTIN: It was a phenomenal

amount of work, so thank you to ACS and CDC for 1 2 in fact doing this. DR. POLLOCK: We'll be resubmitting 3 for maintenance purposes this coming year. 4 CO-CHAIR WALTERS: Any other cards up? 5 6 Nancy? 7 MEMBER FOSTER: Out of due respect for the NQF process I'm going to suggest that we 8 9 continue to support the staff recommendation 10 I think this is worthwhile doing, updating 11 this measure. It continues to be a familiar and 12 useful measure, but we do want to have NQF take a 13 look at the update just to make sure everything 14 works as planned. 15 CO-CHAIR WALTERS: Jeff? 16 MEMBER JACOBS: This is a very fast 17 question. Does the ultimate results of the 18 measure -- are they identical and use the same 19 definitions whether it's done through NSQIP or 20 through NHSN? 21 DR. POLLOCK: Correct. 22 So the definitions are MEMBER JACOBS:

1	completely harmonizing?
2	DR. POLLOCK: Correct.
3	MEMBER JACOBS: That's beautiful.
4	CO-CHAIR WALTERS: Any other comments?
5	MS. SHAHAB: I just want to remind
6	everyone to speak into the microphones because
7	people on the webinar are having a little bit of
8	trouble hearing some of us.
9	CO-CHAIR WALTERS: Okay. To vote.
10	MR. TILLY: So the polling is now open
11	on the ACS-CDC harmonized procedure specific
12	surgical site infection (SSI) outcome measure,
13	MUC15-534. The options are support, conditional
14	support and do not support.
15	(Voting.)
16	MR. TILLY: We're just missing a
17	couple responses.
18	(Voting.)
19	MR. TILLY: Okay. And the results are
20	52 percent support, 48 percent conditional
21	support.
22	MS. O'ROURKE: So to clarify, this

1	would be a result of conditional support, and the
2	condition would be pending NQF review of the
3	update.
4	CO-CHAIR WALTERS: All right. So that
5	happened again because support was less than 60
6	percent, but with the sum is certainly greater
7	than 60 percent. That's how you end up there.
8	Okay. Let's move on to Measure 3,
9	which is
LO	MS. MITCHELL: Question about that,
L1	Ron. I take it you guys who figured out this
L2	process considered the fact that if you add
L3	conditional support and support together, you got
L4	an overwhelming favorable vote for a measure, but
L5	because the one that's the strongest one didn't
L6	get 60 percent, it doesn't get the nod. There's
L7	something
L8	CO-CHAIR WALTERS: You're exactly
L9	correct.
20	MS. MITCHELL: There's something wrong
21	with that.
22	CO-CHAIR WALTERS: No, you're exactly

correct.

MS. MITCHELL: All right.

CO-CHAIR WALTERS: It doesn't meet, it doesn't have the magic 60 percent to be fully supported. But you're exactly right, it clearly is supported. It's just that the only thing you can do is conditional support.

MS. MITCHELL: Yes, it's a sexist remark, but it's like being a little bit pregnant.

will point out; and Erin did it with this
particular one, especially when it falls into
something like this, the staff will put forth
what they consider to be the condition. If for
some reason we don't agree with the condition, we
can have a conversation around the condition. It
does fall into the conditional support category.
And we may see some of this as we go through this
agenda where staff will summarize what seems to
be the condition and then we'll see what
conditions we put on it. It was one I had very

early in the process, Delores, so I understand. 1 2 CO-CHAIR WALTERS: So when we do conditional supports, yes, make sure to spell out 3 4 your conditions. Nancy mentioned one and then we 5 talked about another one. Item No. 3, INR monitoring for 6 Okay. 7 individuals on warfarin. And Nancy Foster pulled it, so she will be up first. 8 9 MS. SHAHAB: I just want to remind 10 everyone the staff recommendation for this is 11 support. 12 MS. MARINELARENA: And before we get 13 started, this is a fully developed measure. It's 14 AHRQ's IQI measure. No, I'm sorry. This is not 15 -- I'm sorry. This is fully developed and it is 16 endorsed. It got endorsed as of December 10th. 17 So the staff recommendation is support. 18 didn't attach any conditions to it because it's 19 already endorsed, but again you're welcome to 20 have that discussion. 21 MEMBER FOSTER: Great. Ready?

this is again one of those areas where we have

this unique juxtaposition of the two programs here in one. I would suggest that this be a conditional support and that the condition be that the measure be used only as part of the IQR's eCQM reporting pathway rather than being required of all hospitals.

We surely agree that medication safety is an important area and this is a particularly potentially dangerous drug, so very good that we're looking at this. This measure is largely built on especifications and we, as you heard from Akin earlier, have been very concerned about the reliability and validity of the eMeasures going forward. And we have as yet to see the accuracy of this one.

So we think it's a little premature and would recommend that in fact it be conditional support, conditional upon being demonstrated that it is effectively collected in all eCQM platforms and able to be reported and that in fact all vendors are willing to support this data collection.

1 CO-CHAIR WALTERS: Thank you. Clearly 2 stated that. Lead discussant, Leslie? 3 4 MEMBER SCHULTZ: Thank you. 5 disagree with the staff's recommendation, particularly applying this to the hospitals. 6 do believe this measure is better suited to 7 accountable care organizations to individual 8 9 physician measurement systems as hospitals in 10 many cases are unable to track these patients and 11 these INRs are done in on outpatient basis and 12 they may not be on the same information system. 13 So that's our rationale. 14 CO-CHAIR WALTERS: Andrea? 15 I don't have anything MEMBER BENIN: to add to those two conversations, but I do think 16 17 that the -- it does seem as though the issues 18 around being able to make this happen 19 electronically seem untested. 20 Open for any CO-CHAIR WALTERS: Okay. 21 other comments. Marty? No. Yes. Oh, I'm 22 sorry. Greg.

DR. ALEXANDER: Yes, being new to this 1 2 process I was reading this description and it seems like it says adult inpatient hospital 3 discharges to home, that that's a little bit 4 5 Some people go home; some don't. And narrow. INR measures are important in lots of different 6 7 areas post-discharge, including nursing homes or other settings where people go that may not be a 8 9 So I don't know how to address that other 10 than I just sort of think the language is a 11 little bit not complete there.

MS. MARINELARENA: So just a clarification. Discharges to home is actually an exclusion. I know it's in the denominator, the description discharges to home, but then you have -- well, inpatient discharges for which the individuals are monitoring INR at home is an exclusion, so they would not be counted in this measure.

DR. HAYDEN: Hello, this is Megan
Hayden. So that was correct. I mean, they have
to I believe look first to see if the patients

12

13

14

15

16

17

18

19

20

21

are monitoring INR at home. And I know we have our measure developers on the line that can speak to this exclusion if we need to clarify that.

INR DEVELOPER: Yes, the additional -to address the question that was posed regarding
discharge to alternate locations, the presumption
was that the INR would be monitored in those
alternate locations. The primary concern of this
measure is going from a well-tracked condition
where you are in the inpatient facility to going
to home where there is less oversight and less
availability. So the target of this measure is
specifically for those who may not have that
follow-up care in something like an nursing home,
a skilled nursing facility or another post-acute
care facility.

CO-CHAIR WALTERS: Yes, I'll remind everyone that under the discussion guide you can clearly click up the measure specs as an easy link. And to get back to the home page, you just click back.

DR. BURSTIN: And just one more quick

point. And it also links you to the evaluation and the endorsement process. Again, we're trying to link those more closely for you. So again, we don't want to have you feel like you have to dive into redoing endorsement. That's there for you to reference really what can you can do about it at the program set level? Is it applicable?

Does it make sense?

CO-CHAIR WALTERS: Ann Marie?

DR. SULLIVAN: I just think this is a very important measure. I think it's very highrisk. I think it fits a lot of categories of why it should be supported. It's also one of those coordination measures which was mentioned where the hospital does very directly -- makes sure that the patients they discharge on something like this drug that the kind of follow-up care they need if they're not in another setting. I understand there might be some problems with collection, but I think sometimes when you make these measures, then the collection phenomena follows. So I would support it.

CO-CHAIR WALTERS: Yes, Sean?

DR. MORRISON: I'm sorry, Ron, could I just -- Nancy, could you just elaborate just a little bit more on your concerns about the HR collection, because I think that's what I'm having an issue with.

MEMBER FOSTER: So, Sean, thank you for asking. We did a study a couple of years We continued to work with our members to helpfully try and understand what's going wrong with the EHR data collection. What we have heard consistently from them is that when they collect a measure using the especified version, using their electronic health reporting tool, they get a different answer than when they do the chart abstraction. And it is in many cases a very different answer. So I mean, like 90 percent different in some cases. So getting to that accurate data point is what we want to make sure That was one of the conditions I was can happen. offering.

The other thing, as you may have heard

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

16

17

18

19

20

21

22

from Akin earlier, is that not all EHR vendors are supporting all EHR collection methods, or measures; excuse me, so if this gets put into an electronic program that is required, it still doesn't force the vendors hand at supporting it. And in some cases vendors have not been very responsive to the requests from the hospitals that they come up with a package to support it. So you are in a sense imposing a requirement on a hospital, but the EHR vendor will not support it. So you create that challenge. And I'm only asking that we make sure that all the vendors are supporting it and that the data can accurately be collected on all of those platforms before it's put into a required program.

MS. HAYDEN: Hi, this is Megan Hayden from CMS. So if I could just speak to maybe a couple of Nancy's concerns. And I think first and foremost this data was conducted a couple of years ago. If we can kind of touch on that first. And that would be we heard concerns as far as accurate data collection. I think the

question to the hospitals or the vendors would be how are they utilizing the specifications? Are they taking the human rateable and hard coating it? Are they consuming our electronic specifications, which would be our preference so that there's consistency. I think maybe that would have to be delved into a little bit further to try to figure out what the exact issue is.

And then when it comes to vendors as far as collecting and submitting on a specific measure, then I can understand there is that concern. CMS does have meetings with the vendor community on a regular basis, as well as obviously we would be putting forth any measure that would be potentially proposing for public comment and to alert the community as to what we are having come forth in the very near future.

so we would hope that this could move in the right direction and that they would be listening to the hospitals that need the measure to be reported to CMS and try to work through these types of issues.

(Off mic comments.)

MEMBER BENIN: -- this metric really potentially favors organizations where the labs and the inpatient and outpatient are all in one system. Like I can't even imagine, you know, it's complicated to know. Sometimes we discharge a patient from the location, if they're not your primary patient, whether or not they got the lab, you communicate that to the outpatient provider, and then whether or not the lab gets back to you as the inpatient doctor, if you're cared for by a hospitalist or whatever else is happening, and then you have the hospital.

challenges and that that conditional support should be really around working out the nuances and clearly whether or not it's possible for hospitals to accrue this kind of information.

Because who then in the hospital -- you're not making the hospital potentially responsible for something that actually the primary care doctors are responsible for. And I think that that's a

tension. So in some environments it may be that they're hospital-based physicians and whether it's the cardiologist or whoever who's also hospital-based, but it may or may not be that way in all environments.

And so I think there are some nuances to this that deserve further exploration because this, you know, it heavily favors organizations where everything is really integrated including the laboratory and other things, because if you go to a laboratory that's not owned by your hospital, there's all of those challenges. So I just think that the idea of working out some of those nuances are --

CO-CHAIR WALTERS: Okay. Let's do Mitchell and then Pierre will give a response. Yes, he may have a response to what Mitchell says, too. So that's why I'm trying to -- and then we'll have a vote.

DR. LEVY: All right. Yes, so while I agree, I think that this is a philosophical issue because the fractured nature of EHRs is

1	going to be true for every measure we talk about.
2	And I think it's a question of whether we think
3	mandating something like this drives change or
4	change is driven by the threat of it. And so
5	from my view, even though I agree with what
6	you're saying, Andrea, a measure like this will
7	individual practitioners will not be able to
8	change electronic health records, but
9	institutions can drive it, especially when
10	they're mandated to report something like this.
11	So I think we're going to deal with this issue
12	over and over again on many different measures.
13	CO-CHAIR WALTERS: Cristie also had a
14	clarifying question.
15	CO-CHAIR TRAVIS: And then Pierre.
16	Try to keep track of all of them.
17	I just want to have a feel for if this
18	measure is recommended support and if CMS decides
19	to move forward and put it in the program, when
20	would it start collecting information? When
21	would it be reported in IQR?
22	DR. YOUNG: So I just want to

because I think these are important issues that 1 2 Andrea and Mitchell raise. We just did want to clarify that this particular measure is a hybrid 3 4 measure, so there is information that comes both 5 from the electronic health record and from claims So whether or not the patient follows up 6 data. 7 and has an INR check comes from the claim system. So it's not that you would need information from 8 9 an EHR for both the inpatient and the outpatient 10 So the information comes from settings. 11 different places.

MEMBER BENIN: So just to clarify that clarification then, so only CMS would be able to calculate it? You would not be able to calculate it yourself because you wouldn't necessarily get the claim for the lab?

DR. YOUNG: Right.

MEMBER BENIN: Perhaps. I mean, you can do all kinds of other things to calculate around it, but then the burden of measurement goes to CMS?

DR. YOUNG: And in terms of

12

13

14

15

16

17

18

19

20

21

implementation, I mean, I don't think we -- we haven't -- we want to get MAP input. We haven't made decisions about timeline for implementation. Obviously this would be -- potentially go into a program, would be -- would go into a rule, excuse me, in the FY '17 rule. But we also have other measures, so we're cognizant of burden. And so, it would probably be a year or two before we would ultimately be able to implement such a measure.

CO-CHAIR TRAVIS: I appreciate that it might not, but just helps me know what the earliest something could do, because there's time between now and then to perhaps have things move forward in such a way that it might not be as difficult once they're implemented.

CO-CHAIR WALTERS: Nancy?

MEMBER FOSTER: Thank you, Mr. Chair.

One data point just to help people. I mean,

hospitals are supposed to be collecting and

submitting data using electronic health records

now. They have the opportunity to either share

that data that they are collecting through their EHRs on the Hospital Compare web site, or not, or something attest to the fact that they are submitting. Ninety-five percent of hospitals currently attest to the submission because they don't believe the data that's coming in.

CO-CHAIR WALTERS: All right.

Jennifer's on the line and has a comment.

MS. HUFF: Hi, I just wanted to make a couple of quick comments. The first is just again emphasizing that this is a really important patient safety issue and it addresses a couple of key things that are high priority, including the adverse drug events.

I also think this is a measure similar to other measures that we'll see where it's looking at not just the care that is occurring within the hospital, but the ability of bring providers together and doing more care coordination by having us look at the 14 days afterwards. I think hospitals are increasingly being responsible for care that is associated

with a hospitalization. That doesn't necessarily occur within the hospital. We've seen that in other measures. So I think this helps move in that direction again of where we seeing of encouraging work across different provider sectors.

In terms of the data issue, I think this really comes to the point of the balancing act. We've seen this with measures. It's not unusual to have challenges with the data. And then it becomes at what point do we start including it in accountability programs? We have seen in the past when the data hasn't been perfect you include it in an accountability program and the pace at which the data improves is much faster.

So I'd say one of my concerns about not supporting this measure is that it will be much longer for it to really be coming to fruition for the data to be improved. And this is an important measure to be looking at. Thank you.

CO-CHAIR WALTERS: Thank you very much. We'll have a vote now.

MR. TILLY: The polling is now open for INR monitoring for individuals on warfarin after a hospital discharge, MUC15-1015. The options are support, conditional support or do not support.

(Voting)

MR. TILLY: And the results are 50 percent support, 46 percent conditional support, and 4 percent do not support. So the result is a conditional support.

CO-CHAIR WALTERS: Dolores, so this is the second one that ends up for the -- the Dolores Rule we're going to call it now.

MS. O'ROURKE: So the conditions that we have at this time are that it not be a required measure. It would rather go into the optional eMeasure reporting pathway and that this be monitored for some of the data issues, the accuracy, reliability, validity and resolution of conditions that not all vendors would support

1 this measure.

CO-CHAIR WALTERS: Does that capture the conditions?

(No audible response)

CO-CHAIR WALTERS: Thank you. And we really do appreciate the rich discussion that's occurring about these measures. Those of you who have been on the Committee for a while, know that IQR is the one that takes a long time to get through.

Measure No. 4, vaginal birth after

Cesarean delivery rate. This was pulled by Nancy
and Andrea, so I think since Andrea is going to

discuss it as a lead discussant, we'll go with

Nancy first.

MS. SHAHAB: So the staff recommendation for this measure is conditional support pending NQF review and endorsement.

MEMBER FOSTER: So, gosh, I actually hated pulling this measure. I think it is critically important that we move the measures from what seem to be fairly heavily centered on

the conditions of the elderly; understandably so, since it's a Medicare program, to including more measures of young adults and the issues that confront children as well.

That said, to the best of my knowledge, as I looked at the specifications, this is driven off of claims data. And the last time we had a conversation with Pierre and his colleagues, the claims they have access to are Medicare fee-for-service for this kind of calculation. I just don't think VBAC in Medicare fee-for-service is going to be telling.

So I would recommend either do not support or conditional upon getting a broader sampling of a population of -- that might work.

CO-CHAIR WALTERS: Pierre, we can wind up your response in a second.

Andrea?

MEMBER BENIN: Thank you. This is obviously an important issue. There are a couple of problems with this metric. I think the first one is that it's not NQF-endorsed and it's not

been submitted for NQF endorsement. The second one is that it's based on claims. And there are times when it's appropriate not to have feedback, and it's not really known what is the correct rate of feedback.

And so the idea that we could measure this using claims data with appropriate exclusions I think is a little bit lofty. This I think is more useful again as an epidemiological understanding of what are our feedback rates looking like and not really as hospital accountability metrics.

When I pulled the ACOG guideline this is not the metric that's recommended in the ACOG guideline. The recommended metric in the ACOG guideline is more around was the trial of labor discussed with the mother? And I do think that different people will value -- one to five, or depending on what percent chance you find in the literature, chance of uterine rupture, which is close to a death sentence in many ways, will value that differently.

And so I am not in favor of this 1 2 metric as a part of IQR and I think that the reasons that the Nancy mentions adds to that, the 3 4 fact it may not be appropriate data set 5 regardless of all of those things. I think that it is nice to be able to 6 try to get some issues for women and children 7 into some of these things, but there are probably 8 9 other venues for that. 10 Leslie? CO-CHAIR WALTERS: 11 MEMBER SCHULTZ: To be incremental, I 12 have nothing to add. I agree with both of my 13 colleagues. 14 CO-CHAIR WALTERS: Thank you. Other 15 comments? Wei Ying? 16 MEMBER YING: First of all, I want to 17 say it's great to see that there is --18 DR. BURSTIN: Could you please get 19 closer to your microphone? 20 MEMBER YING: Oh, I'm sorry. I was 21 saying it's great to see that we have a measure 22 in the IQR set for discussion that it's can

beyond the older population. Like Delores
mentioned earlier, whatever CMS put out, it has
the ripple effect downstream. So for the
commercial population that we look at to the CMS
measure set, these type of measures is very
appealing. And on the topic of C-section there's
definitely one thing that we heavily focus on on
the woman population during that age range.

And my question is there is another Csection measure which covers broader -- well
different set of population but similar topics, a
primary C-section measure. I think CMS already
publicly reporting it. It's not in IQR Program,
but the data is available. So I'm just curious
why CMS is proposing this measure versus the PC02, the primary C-section measure. That's one
question.

And another comment. If there is a solid reason why PC-02 is not actually as good as this one, then the concern of the claims data -- again, it seems just like the discussion on EHR, there is never one data source that's perfect,

but if it is using a data source capturing the data for a very important topic and the performance threshold or performance target being measured on that imperfect data universally I think is doable.

CO-CHAIR WALTERS: Okay. We'll see if Dolores can add to Pierre's list of responses.

Delores?

MS. MITCHELL: Well, I'm very supportive of this measure. I do not consider the claims data are not reliable sources of information. From all the complaints I've heard from my physician friends about some of the electronic health record systems, they leave a lot to be desired, my most recent visit to my own physician having shown me two contradictory drugs which that particular record system didn't recognize and suggested that my doctor go ahead and do both of them. So I now will associate myself with skepticism as to all the data sources rather than focusing on the shortcomings of the claims system.

But more importantly, although I would like to hear the answer to the question that was just raised from CMS about why they chose this one rather than whatever; I forget the number, the other one was, in which case I'd be happy to switch my allegiance -- but I really do think that the enormity of the overuse of C-sections is of epidemic quality in this country. And I know from previous years; if you've been around long enough, you know this, that C-section rates plummeted 25 years ago. And there they are, right back up again. And I think this is a societal problem. It's a fiscal problem. It's a health problem.

I was concerned that a lot of people thought that there were countervailing concerns about the risk of a vaginal delivery after C-section going bad, but as I read the measure, it did say without complications. And it is my understanding that these deliveries do take place in hospitals that are only supposed to take place in hospitals that do have surgical staff nearby

in case they go south during the course of the labor. And so I strongly support this measure.

CO-CHAIR WALTERS: Pierre?

DR. YOUNG: Thanks, Ron. Thanks for saving them all up for me.

(Laughter)

DR. YOUNG: So I'm going to respond, but also just a quick request because there are a couple of CMS staff on the phone with me and they're having a little bit of a hard time hearing, so just to reiterate the request to please speak into the microphone when you're speaking.

But certainly we appreciate the feedback that this is an important topic, that there is a desire to see conditions or measures added to the program which expand beyond conditions highly prevalent in the elderly population. And certainly we also appreciate that the issue of C-sections is a high-priority condition for CMS to tackle.

Certainly because it's a claims-based

measure, we only have access to Medicare claims. We don't have unfortunately access to all care claims, though we certainly are interested in including measures that have all the aspects as the denominator. And we certainly do have those measures in the program, but that is a limitation, as several folks have noted, for this particular measure.

There are some differences between PC-02 and this particular measure, and I was going to ask Megan -- are you -- can you address that?

MS. HAYDEN: Sure. I apologize. I am one of the individuals on the phone that was having a little trouble hearing the exact questions that were being posed about PC-02. So I apologize if I am not answering your questions, but please let me know.

So I guess potentially the question was why IQI 22 is on? I know you've seen PC-02 at the MAP in the past. And so, PC-02 would be a different denominator. So if PC-02 is not looking at a vaginal birth after Cesarean. It is

looking at individuals that receive a Cesarean when the baby is in a vertex position. So it is a different measure. You did I think see it last year.

It is still under development at this time and anybody that may look at our measures development and then the web site could see we've been out for public comment recently. So that is still in the works at the eQCM. And I hope that answers your question, but it hasn't, then please let me know what additional questions you have.

MS. SHAHAB: Jennifer, you had a comment as well?

MS. HUFF: Yes, thank you. A couple quick comments again. I think, one, what people have said, really important measure and an important area to have attention to, and both consumers and purchasers are really interested in seeing more information on this.

I will say to the point of it not being an NQF-endorsed measure, but this is an AHRQ IQI measure, which is in widespread use. I

think we're familiar with AHRQ and how it develops its measures. And it's really transparent in terms of the information it provides on the measure. So I think there's a lot available to be able to make decisions or assessments that would have occurred during the NQF process.

I think this is also an area that is ripe for consumer decision making, and with IQR being a place for public transparency and using Hospital Compare I think we would all agree there's a lot of information that sometimes go up in public reporting, some that grabs the attention of consumers and others and others, consumers in particular and others that doesn't. This is one that really consumers are looking for this information.

In terms of ACOG, I will say in their comments they were one of the organizations that comment during the week time period and they indicated their support for the measure. I think their only concern is just how the measure is

classified in terms of they want to move it to an intermediate outcome. So there is support and ACOG has come forth with being strongly supportive of the measure.

Since I'm also channeling Helen in terms of sitting in for her, I do have a couple comments from Helen, particularly from the patient safety standpoint. And she wanted to raise both for C-sections and VBACs, there are patient safety issues. And VBAC I think we've heard particularly the uterine rupture, while it's rare, it does have a high consequence in terms of what would happen. And so she wanted to make the point about a concern about unintended consequences about this measure and being it out.

She also had one suggestion. She thinks there needs to be balancing measures; that is, complementary measures that are about the outcomes. For example, looking at maternal mortality or infant mortality as well.

CO-CHAIR WALTERS: Thank you. Pamela Owens is on the phone from AHRQ.

DR. OWENS: Thank you very much. AHRQ feels that this is actually quite a strong measure as it's applied to all payer data. So that would include Medicaid and private insurance and the uninsured.

We have not submitted it for NQF endorsement. We certainly could. We don't feel that there's anything wrong methodologically with the measure. And then we can talk about some of the issues that were just raised in terms of the patient safety issues, et cetera.

We have seen this applied, this measure applied in state reporting. We applaud consumers for wanting to be able to help them report out in terms of both making a choice around VBAC, but also choosing the hospital to go to if they're choosing VBAC. This measure was not intended to be applied to Medicare fee-for-service data, however. That calculation is 65-plus or those with disability. And in terms of our reliability and validity of the measure we have not explicitly tested it on Medicare fee-

for-service data.

We feel it's a strong measure as applied to all payer data, but -- to Nancy's point.

CO-CHAIR WALTERS: Thank you very much. Comments around the room? Michael?

DR. PHELAN: I mean it sounds like it would be a great Medicaid measure. And I mean, I understand why CMS -- and I don't understand what measures actually apply to Medicaid. And I'm sorry I'm ignorant on that, but are there are -- because it's a shared program with the states, are there measures that CMS says we really want you to have this measure? Would this measure fall into that category then?

DR. YOUNG: I mean, for this
particular considerations it's just for IQR,
which is focused on the Medicare Program, but
certainly we have discussions with the Medicaid
colleagues and have had discussions about program
priorities including VBAC.

DR. PHELAN: Because clearly this

doesn't fall into a Medicare -- I mean, I don't know what the numbers could be, but it's got to be almost negligible, because -- maybe the disability, but if you're 65 and older or you're disabled, those two kind of -- the 65 and older automatically eliminates you from pregnancy. The disabled might, but I can't imagine that's a huge, huge population.

DR. YOUNG: The numbers are very, very
-- are small, yes.

DR. PHELAN: Right. So I guess, I mean, I think it's a good measure to have out there and to be promoting, but it would definitely not to me fall into the IQR Program and it would be something that I would encourage going into the Medicaid side, or wherever that can be promoted on that direction.

CO-CHAIR WALTERS: Okay. Let's vote.

MR. TILLY: So for the measure IQI 22, vaginal birth after Cesarean delivery rate, uncomplicated, MUC15-1083, the options are support, conditional support or do not support.

(Voting)

MR. TILLY: So the results of the vote are 28 percent support, 28 percent conditional support, 44 percent do not support. The result of the vote is do not support.

CO-CHAIR WALTERS: Okay. In case anyone's been wondering and getting a little bit antsy, we are going to take a brief break after this measure so that we at least complete Calendar 1 of 3 of one program.

The fifth measure is NHSN antimicrobial use measure, and that was pulled by Nancy and Andrea. So, Nancy, go first.

MEMBER FOSTER: Thank you again. This measure is an important first step in getting us to a good measure of actual effective antibiotic use. CDC developed this so that they could get the baseline of information, is my understanding; and, Dan, please correct me if I'm wrong. But they wanted the baseline of information about how antibiotics are currently being used so that they could take the next step and really look at

what's appropriate use and what's not appropriate use so that we can get to a measure of; however you're going to develop it, either the positive appropriate use or the maligning inappropriate use of antibiotics.

But that's what we want to focus on, not just this generic use. There's no risk adjustment here, there's no nothing. This is just collecting the baseline data around use, is my understanding. And for that reason I think it's not ripe for public reporting right now.

It's ripe for measure development, it's ripe for perhaps quality improvement as hospitals begin to look at their own usage of this. And we're fully supportive of hospitals looking at that usage, but I don't know what a measure strictly of use without any risk adjustment, without anything else tells the public about antibiotics.

CO-CHAIR WALTERS: Also pulled by Andrea.

MEMBER BENIN: So the antimicrobial stewardship community is very excited about this

metric and I think very excited about working 1 2 with NHSN about developing a way to understand the utilization of antibiotics. And I think that 3 4 the purpose of this work has really been around 5 getting that group to collaborate around starting to think about these issues. I think the metric 6 just had NQF review maybe last week or something. 7 It's very fresh, very hot off the presses. 8 9 (Off mic comments.) 10 MEMBER BENIN: Right, I mean it just 11 literally --12 DR. BURSTIN: It really was endorsed, 13 not just reviewed. It was just endorsed like a 14 week ago. 15 Last week, right? MEMBER BENIN: 16 it just came through the cycle last week. 17 finish the endorsement? 18 (No audible response) 19 MEMBER BENIN: Okay. And so, I think 20 that people are very excited to start to be able 21 to use this as a way to understand how

antibiotics are being used, but it's definitely

not ready for a hospital accountability level program, and I think actually that that has the potential to negate some of the collaboration and the ability for people to enthusiastically work together around what this looks like.

The way the metric is set up it's not clear that if you have a hospital with higher acuity where you need more antibiotics for good reason -- but that's going to look like you're using more antibiotics, because you are, because maybe you have more patients with bad cancers and things where they need antibiotics, or maybe you're capturing your septic patients earlier, like you should be, I don't know.

And so, I think that until this antimicrobial stewardship community really has the time and is given the space to really work through this and use this metric in a way that it's been developed with all good intent to do the right work for patient safety -- it's not time to put it in the accountability programs. And the higher levels of terror as it stands

right now will clearly look worse on this metric. 1 2 And it's just not the right time for this and I think we need to understand this better and hear 3 4 about it more at some point in the future. Leslie, you're the 5 CO-CHAIR WALTERS: other lead discussant. 6 7 MEMBER SCHULTZ: Yes, again, we completely support these efforts to assess 8 9 antimicrobial use and to work on the 10 appropriateness, however, this is a brand new 11 There is minimal national experience measure. 12 and there are challenges in the collection and 13 reporting. Moreover, the measure developer has 14 stated that this measure ought to be used for 15 several years before it's used in public 16 reporting and accountability. So I would suggest 17 that we heed their advice in that manner. 18 CO-CHAIR WALTERS: Okay. Any other Mitchell? 19 comments? 20 DR. LEVY: I'm amazed. I actually 21 completely agree with Nancy on this.

surprised this is endorsed in that -- and I am a

strong proponent of metrics, but I'm not sure I 1 2 view this as a metric. It's such a broad brush that I'm hard-pressed to really understand --3 4 and, Andrea, you already alluded to it, that --5 where it's -- I don't even know how you would risk adjust a measure like this, but it just 6 7 paints a broad brush of how many antibiotics. It's almost to me as if in order to reduce 8 9 hospital admissions we just count the number of 10 And I really -- I understand the admissions. 11 desire for antibiotics stewardship, but this 12 feels honestly misguided to me.

CO-CHAIR WALTERS: Let's go to Dan first as almost the natural Pierre for this situation.

DR. POLLOCK: Thank you. So the measure that we have proposed and that has -that we proposed submitted to NQF in April has,
as we said, just been endorsed by the NQF Board.
For those of you who are not familiar with the actual measure submission form, a measure developer is required to indicate to state

13

14

15

16

17

18

19

20

21

explicitly the intent of the measure, how it's supposed to be used. And we were very explicit that we see this measure as a valuable measure for internal and external benchmarking and for public health surveillance, but for public reporting and not for accountability for an incentive payment program. Very explicit.

Now we've done numerous presentations, public presentations on that score, so it should come as no surprise to anyone that we are advocating use of this measure, but not for public reporting and accountability purposes.

Why are we advocating use of this measure? Because the measure and of itself does provide an important indicator of potentially overuse of antibiotics in certain patient payer locations where we have other information to indicate there is indeed a performance gap here that amounts to an overuse of antimicrobial agents. So the metric itself is actually a set of 14 specific combinations of patient care locations and antimicrobial categories.

Without going down into the weeds too far; I'll just poke in there for a second, if you have a hospital that's reporting three times or more what would be predicted -- and we do have predictive modeling in this measure. If the hospital's use of, for example, broad spectrum agents predominantly used for community-acquired infections is three, four, five times what the national aggregate would be using the national aggregate data what would be predicted for those patient care locations, there's a potential problem there that warrants investigation.

And that's what this measure is intended to do. That's what benchmarking is about. You benchmark against nationally aggregate data that are presented to you in an actionable form that will require further evaluation to determine whether there has been appropriate or inappropriate use at three, four or five times what would be predicted for that hospital and patient care location.

So I just want everyone to understand

we're not proposing this measure to collect more data and improve the measure itself. Certainly more data can be used for that purpose, but first and foremost we've got a serious problem with not only antimicrobial resistance in this society, we've got a serious problem of misuse of antimicrobial agents in this society. And if we're not measuring it and if we're not looking at the data, we're not going to be in a position to address those problems.

This is a first step, but I don't want the point to get lost in the shuffle here that this is a measure that's ready for use by hospitals right now. And CDC is encouraging its use by hospitals right now. This is a measure that is included in Meaningful Use Stage 3 as an option for reporting to public health registries. It is a purely electronic measure. The data are captured as a byproduct of the record keeping that's done using electronic bedside medication administration systems.

So it's a measure that helps us move

in the direction of using electronic data that
are increasingly available. It's a measure that
connects with the antimicrobial stewardship
community and helps drive patient care practices
in a positive direction. But again, although
we're not advocating use for public reporting or
accountability purposes at this time, we are
certainly advocating use of this measure and
we're working very closely with several large
healthcare systems and hospitals already that are
using these data in their stewardship programs
and are using these data in operational purposes
to drive change.

CO-CHAIR WALTERS: Before we get to Pierre to answer the question why it was proposed, Shek and then Michael.

MEMBER MEHTA: Yes, thanks. I didn't want to take up too much time. I just have a question about the process. And in the list it says "pending additional use." In terms of like the condition, if your vote's on conditional support, what does that mean exactly? Would it

be reviewed next year for inclusion, or is the additional use just some other requirement?

MS. O'ROURKE: Sure, I can take the first pass at what staff was thinking and Helen will clarify.

I think we were trying to address some of the concerns that Dan just raised, that while this is an endorsed measure, at this point it seems more ready for benchmarking than public reporting. However, perhaps this measure could go into the IQR program at this time and have a slower path on Hospital Compare and allow hospitals to gain some experience with the use of this measure rather than immediately putting the results publicly.

DR. BURSTIN: Perhaps I wouldn't have been direct, but we very clearly heard from Dan and CDC as part of this, the endorsement process that this measure -- I think the Committee agreed completely was very, very important, very early stages, and they wanted further experience, although they also made it very clear, back to

Mitch's point of why it was endorsed, this
measure is ultimately intended for
accountability, but it felt like additional
experience was needed prior that happening. So
that was the logic of potentially wrapping that
in the conditional recommendation.

CO-CHAIR WALTERS: Michael?

And I guess this is a DR. PHELAN: critically important question, and I mean I couldn't imagine CDC putting the amount of time and effort to doing this. Hospitals I'm sure would want to see this data. But I think it's promoted in the IQI. And after hearing Dan say a number of times we did not want this for reporting, we did not want this public reported, I guess I'd like to hear what the response is going to be if we say, yes, this is a critically important question. We need to have a measure on it. What's going to happen with the data? there a category in the IQI that says not for public reporting, but just for hospital use to make improvements in this area of care that is a

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

critical question?

So I guess my question is if we support it -- because, I mean, this is a critical question that needs to be answered. It's affecting hospitals across the country. If we say we support it, what kind of assurance do we have that it's not going to end up in a public reporting arena, I guess?

CO-CHAIR WALTERS: So that's teed up for you, Pierre.

DR. YOUNG: Thank you very much. I'm going to say thank you a lot today. But so, one

-- I think we're heartened to hear how much support there is for this particular -- to address this particular topic. I think we all -- what I've heard from everybody who's spoken is that there is a big issue here that needs to be addressed, and that's reflected not just in your comments, but also initiative ongoing within the Federal Government such as the White House's Combatting Antimicrobial-Resistant Bacteria Initiative.

In recognition of that we were interested in trying to fill that gap in the space. As several people have mentioned, we thought this could potentially be a first step forward in terms of trying to address this particular issue in the IQR Program. But also understanding that there are limitations to this measure as a number of people have pointed out. Certainly the intent isn't to undermine any ongoing and vigorous efforts to combat antimicrobial resistance and antibiotic overuse, but rather to support it.

I think I would just say that CMS is aware that there are issues relating to potential public reporting, that it may not go far enough and address actual appropriate use of antibiotics. These are all important considerations that we are thinking through and it's helpful to hear feedback from you on.

In terms of the specific question about sort of public reporting, certainly if measures are implemented into IQR, the general

expectations that they will be publicly reported 1 2 on their results, there's no separate category that says this is just for -- not public -- you 3 4 have to submit data, but we're not going to 5 publicly report it. I mean, if we were to pursue putting 6 7 this measure into the IQR Program, I think we are trying to internally figure out what potential 8 9 options there could be in terms of the public 10 reporting issue, but I think the general 11 expectation is if a measure is in IQR, it would 12 be publicly reported. And that's been the goal. 13 CO-CHAIR WALTERS: Okay. Looking 14 around, ready to vote. I think we've heard all 15 the issues, all the concerns. 16 MR. TILLY: Okay. For the measure on 17 national healthcare safety network antimicrobial 18 use, MUC15-131, the options are support, 19 conditional support and do not support. 20 (Voting) 21 MR. TILLY: We're missing about four 22 responses. Just go ahead and scan your clicker

1 and --2 (Voting) The results are in. 3 MR. TILLY: Okay. 4 Twenty-five percent support, forty-percent 5 conditional support, thirty-three percent do not So the measure has conditional support. 6 7 CO-CHAIR WALTERS: We may need to clarify those conditions a little bit after all 8 9 that discussion. 10 I was afraid of that. MS. O'ROURKE: 11 (Laughter) 12 MS. O'ROURKE: So from what we've 13 heard from the discussion I would say it would be 14 pending the resolution of some of these issues 15 we've heard that the measure is not ready for 16 broad scale use in public reporting. 17 DR. POLLOCK: That's exactly right. 18 It's not ready for public reporting, but if 19 there's an opportunity for voluntary reporting in 20 a program, we're fully supportive of that. 21 if there's no opportunity for voluntary reporting

in a program, we're not supportive of it.

can't be any clearer than that.

The measure from our perspective at CDC is ready for wide use, voluntary use. By voluntary we mean no associated incentive or penalty, willingly reported and with the expectation that the data by virtue of being willingly reported and voluntarily reported are going to have value for the institution. And we fully support that idea, but we can't support use for public reporting.

CO-CHAIR WALTERS: Mitchell, you have conditions?

DR. LEVY: Yes, and I completely support what Dan's saying, but I'm just trying to separate the measure from what we're voting on.

Are we voting on support to include an IQR?

(No audible response)

DR. LEVY: Right. So --

CO-CHAIR WALTERS: That's the program it came under.

DR. LEVY: -- if all of us are saying it's not ready for public reporting, I'm not sure

how we could -- I mean, we're -
DR. BURSTIN: Trying to spell out the

conditions for which it would be --

DR. LEVY: Right. So I guess to me the condition would be not being in IQR.

(Laughter)

DR. LEVY: Not public reporting. I just want to make sure we all understand that we're voting when we say support to be included in public reporting.

CO-CHAIR WALTERS: So the problem is that got 33 percent of the vote, so -- or whatever it is. Thirty-eight. Do not support did not win.

DR. PHELAN: I mean, hearing that from Dan and -- I mean, these are two large federal organizations here, you've got a program -- and I don't know how malleable CMS is when we have a critically important measure like this that people want to support for a number of different reasons and you have the measure developer, a pretty reliable measure developer saying --

(Laughter)

DR. PHELAN: Pretty reliable. Very reliable, actually. But saying that it's not ready for public reporting, I think taking that as our condition, that we recommend that it can be part of the measure -- but until we have better data, more information, more comfort with its use, not to be public reported until a reevaluation by this body, by the MAP again may be something to consider as a condition of support.

CO-CHAIR TRAVIS: One thing that I guess hit me as I was talking -- and really to follow up on what Michael said, what I thought about was condition upon CDC's recommendation that it is now ready for public reporting, because I don't really know that we'd be in a better position to reevaluate that in the future. So to me, I would like to suggest at least that we consider that as the condition.

CO-CHAIR WALTERS: Marty?

MEMBER HATLIE: I'm really just

Neal R. Gross and Co., Inc.

Washington DC

agreeing with the last two speakers. I mean, I thought I was voting for its use on a slower pathway after further use and testing.

DR. BURSTIN: Do people feel comfortable with what Cristie just raised as the condition to move forward with, that it would be conditional upon CDC's agreement that it is ready to move forward?

MEMBER BENIN: CDC's agreement and coming back here.

DR. POLLOCK: So also part of the very astutely revised NQF submission process, if the developer does not specify a public reporting or accountability purpose, the developer needs to describe a strategy for getting to a public reporting and accountability purpose. And so our strategy is really several-fold: We're going to work with hospitals and antimicrobial stewardship programs to better understand how the measure can be honed in ways that dovetail as effectively as possible with stewardship efforts.

The AU, antimicrobial use reporting to

NHSN is part of what we call our AUR module, antimicrobial use and resistance. And so the resistance part of that is only now available.

And what the resistance part enables is electronic reporting, capture of pathogen information, including resistance. And that pathogen information is a likely candidate to include in our predictive modeling that addresses the very important fundamental of there are reasons to administer antimicrobials. And pathogens are the reasons to administer those antimicrobials.

So when we have pathogen data in hand, when we have antimicrobial stewardship experience, we will be in a much better position to say that the measure in its next iteration can be used as an appropriate indicator of judiciousness or injudiciousness of antimicrobial use. That's the point we want to get to. But we don't want to throw out the fact that right now the measure itself can have value in terms of having an impact on injudicious use.

so we're very fine with the status for the next duration of the endorsement period:

non-publicly reporting, not using for the accountability. We're directly opposed to that, just to be as clear as possibly can be. But we're not opposed to voluntary reporting and we're not opposed to using any and every means that we can to encourage voluntary reporting.

There is a lot of competition out there for capturing and delivering measure data. We happen to think that this particular arena, given where we are right now with resistance to antimicrobial use, is a very, very, high priority for quality measurement and improvement purposes.

CO-CHAIR WALTERS: So the last proposed condition, because the vote is what the vote is -- the last proposed condition was that again support for the measure, but CDC has the final say as to when the data is mature enough to move into IQR.

DR. POLLOCK: Well, we don't have the final say. We have a role as the measure

1	developer of factoring in all the very valuable
2	input; and we've gotten lots of valuable input,
3	and will continue to get valuable input, and put
4	forward a next generation. Iteration sounds
5	perhaps too minimal. It's going to be a next
6	generation when we get to the point of being able
7	to include in the predictive model the burden of
8	infectious disease. That's going to be a next
9	generation.
10	CO-CHAIR WALTERS: So representation
11	of the data back to MAP, which is what was
12	mentioned over on this side anyway.
13	MS. O'ROURKE: So I have that we
14	conditionally support this measure pending that
15	it's not public reported until better data is
16	available and reevaluation by the MAP and
17	recommendation by the CDC that it's ready for
18	public reporting.
19	DR. POLLOCK: Could we say "additional
20	data" rather than "better data?"
21	MS. O'ROURKE: Additional? I can
22	(Laughter)

1 CO-CHAIR WALTERS: Thank you very 2 And thank you to everybody for what has much. been a long couple hours, but a lot of good 3 4 input. 5 We're going to take a five-minute break, because we have to get to Calendar 2. 6 7 get up and do what you need to do. (Whereupon, the above-entitled matter 8 9 went off the record at 11:54 a.m. and resumed at 10 12:05 p.m.) 11 Okay, please take CO-CHAIR TRAVIS: 12 your seats. And, if we can ask the people in the 13 back of the room to kind of have softer 14 conversations? 15 Okay, the reward, if we can get 16 through the rest of what we're supposed to do as 17 quickly as possible is that we get to have lunch 18 at 1:00. 19 Now, you know that that is going to be 20 a challenge because we just took a significant 21 amount of time, although I think it was very

valuable conversations that we had, on our first

calendar. And we actually got about three 1 2 calendars to cover before lunch. We do still want to be sure that we 3 4 have good conversations, though, as we move 5 forward. So, we are going to go on and get 6 7 started with the goal that we can eat at 1:00. And, we're going to go to Consent Calendar 2. 8 9 And, we're going to do this calendar a little bit 10 differently than we did the first calendar 11 because there are some common themes across some 12 of the measures that have been included in this 13 calendar. 14 So, just to kind of set it up for you 15 how we would like this part to work for Calendar 16 Number 2 is that there are four measures that are 17 clinical episode-based payment measures. 18 And, we feel that there's a common 19 theme around the clinical episode-based payment 20 approach. 21 So, what we would like to do for those 22 four measures is to have a conversation first

around the payment approach that essentially would be impacting all four measures.

If there are issues relative to the particular clinical aspects, we will, after we've had a general conversation around the approach, we will come and address any particular issues there are relative to the clinical conditions.

So, hopefully, that will help us have the conversation once about the payment approach and not have the conversation four times about the payment approach.

We will then after those first four,
we will come back and cover Measure Number 3
which is the hospital level risk standardized 30day episode of care payment measure for pneumonia
and it is different than the other four measures.

So, hopefully, that will make sense to you all. We will see how this goes, but let's try during the first part of the conversation to focus on the payment approach and then we will move to any concerns around the individual clinical conditions.

And, we'll try to kind of correct ourselves if we get diverted.

As you will see, the other thing we don't have to worry about for this measure -- for this set is whether or not there's a Consent Calendar.

All of these measures have been pulled so we will be discussing all of them in the format that I just laid out.

So, we're going to start with the four clinical episode payment measures and we're going to start with the people who pulled the measure, just like we did the last time. And, that kind of makes it easy to have our new approach because some of the same people pulled all these measures.

So, I am going to start with Jennifer Eames Huff who did pull -- asked to pull all four of these clinical episode-based payment measures. And then, we will move on to the others that wanted to pull the measures.

But, Jennifer, if you can please start

us off and if you will, kind of focus your comments around the payment approach at this time.

MS. HUFF: Yes. Thank you.

So, I think we're all well aware of the health care spending in the United States is a problem. We've seen it \$3 trillion for 2014 and it continues to eat up the gross domestic product.

And, we also know that about one-third of health care spending goes to things that aren't making us healthier. They're going to things that actually do not provide added benefit to patients.

Even with this higher spending,
though, we still have quality issues with
mortality, issues related to patients' experience
with care and other things. And, we've made
progress, I would say, but we still, particularly
in the affordability realm, have a ways to go.

Cost resource use and the spending payment measures are badly needed, help us get

to, I think, the overall goal which we're trying to get to which is understanding what is high-value care and who our high-value providers.

The NQF endorsed measure portfolio has assembled a large portfolio of quality measures, way more preponderance of quality measures than measures related to cost resource use and spending. So, we really applaud the effort of bringing these measures forward.

In regards to the group of the episode-based measures, the clinical episodes, they represent a substantial portion of payment.

And, I mean like a relative substantial portion of payment when looking at how much is spent on this.

And, the hospital care can influence near term outcomes for these procedures or conditions. It also shows that post-acute care payments are high.

And then, there is sizable variation in payment. Those were the requirements for determining what measures to look for in

developing measures related to payment and affordability for the clinical episodes.

So, I think those are all important issues and good reasons that make these measures important for us to be looking at.

It also so happens that this calls attention to conditions and procedures that are known for overuse and waste. And from both cost and a patient safety and quality perspective, both consumers and purchasers are really concerned about unnecessary treatments and how they're happening.

Let's say these clinical episode-based payment measures also address efficiency of care over a relevant time period. So it, again, like was mentioned previously, encourages hospitals to work together with other providers.

It looks at more of instead of a discrete experience, starting to look at more of the continuum of care, the patient as a whole.

It's a more patient centered approach.

There was one of the rationales for

not supporting these measures was that there is an overall Medicare spending per beneficiary measure in the program. I actually don't see that as a negative issue. I see it as a positive and I think it's important for areas that are really important to prioritize them. And, by having measures that may have some overlaps that does it.

I also think it's good to have an overall measure. It doesn't get at, though, the variation that is happening at the condition and procedure level. So, this provides a little bit more information in terms of what's doing -- what's happening and what's driving that Medicare spending per beneficiary.

Thank you.

CO-CHAIR TRAVIS: Thank you, Jennifer.

So, the lead discussant for this is Nancy Foster, so I'm going to turn to her in a moment.

I just want to let you all know that Kelly Trautner won't be here until this

afternoon, so unfortunately, she won't be able to 1 2 comment on this particular calendar. 3 So, Nancy, do you have some issues relative kind of to these four measures from the 4 5 payment approach standpoint? 6 MEMBER FOSTER: Sure, thank you, 7 Cristie. We actually thought that the staff 8 9 recommendation was exactly the right one, that 10 while cost is an important thing to be measured 11 and having good measures of cost would be useful, 12 these are not yet NQF endorsed. My understanding 13 is they haven't even come to the NQF yet. 14 We've never seen these measures. 15 don't know about the -- what the variation is. 16 We don't know anything about sort of how much of this is variation in utilization of post-acute 17 18 care services. 19 If it's predominantly hospital 20 services that are being used, it's kind of odd 21 for Medicare to portray something as being

overpayment because the only thing that they're

portraying is what they paid us, right? 1 2 So, it's as if they're saying well, we've paid them this but it's too much but they 3 4 determine how they're going to pay us, so that's 5 just a really freaky thing. So, you know, really understanding 6 what's here, what's in the measures, what's 7 causing the variation is critically important and 8 9 that occurs when we see things as they come 10 through the NQF process and we get a little 11 experience with them. So, you know, maybe right direction, 12 13 but, you know, far too little information here 14 for us to think that supporting this at this time 15 is the right thing to do. 16 CO-CHAIR TRAVIS: Thank you, Nancy. 17 And, Jennifer, I failed to ask you 18 what your recommendation would have been in terms 19 of when you pulled them. What would be your 20 alternative recommendation? MS. HUFF: Yes, yes, and that actually 21 22 flows very nicely from Nancy's comment of the

recommendation would be conditional support pending NQF review.

And, I would agree that there is not as much information. For example, like on the IQI measures available publicly on these measures. So it would be helpful as a part of the NQF process to get more information on that.

I will say there is some public information and there is some public information on how much the average payment per hospital for these episodes and looking at variation from the 25th to the 75th percentile. And, it does show, you know, high cost and there is variation in looking at the payments.

So, I think that the identification of the areas are right in terms of looking at the conditions and procedures. And, the NQF review would provide more information that people look at in terms of like reliability and validity of measures.

I do also want to add, I do have a question for CMS. As these areas typically cover

areas that are related to appropriateness and as 1 2 it's an episode-based measure, it's getting at only the payment of the episode. 3 And, like I said, I think the 4 5 significant cost and the variation is a rationale for these being important and looking at them. 6 But, it doesn't address whether or not 7 the episode should have happened. So, I'd like 8 9 to hear from CMS in terms of comments around 10 plans for maybe a supplemental or a complimentary 11 measures on actual appropriateness. 12 Though, I don't think that should hold 13 it up in terms of the conditional support. 14 CO-CHAIR TRAVIS: Pierre, would you 15 like to respond? 16 DR. YOUNG: So, thank you for that 17 comment. 18 Certainly it is appropriateness of 19 care, overuse, under use of services is an 20 important topic. 21 I'll just say that, you know, it is an 22 area that is specifically called out in MIPS and

so, something that we're thinking about is we're thinking towards MIPS.

Thank you.

CO-CHAIR TRAVIS: Okay. We would like now to open it up to the committee for discussion kind of around the basic approach. And then, after that, we'll see if anybody has any comments in the particular clinical areas.

So, Michael?

DR. PHELAN: And, I guess this goes to what my question was with the first comment that we had about how do we support these? Is it going to be conditionally support where, I'm going to say it again, at the MAP, or do we do not support knowing that full well that the next iteration will make it back to the MAP?

I think the one thing I'd worry about and with all of these kind of episode group of things is matching it with some type of quality outcome, to me, is very important to these -- not just the raw financial aspect of it.

So, I always want to see some kind of

quality measure because there may be a place 1 2 where they have a much higher spend but they're outcomes are much more -- they're getting better 3 4 care for whatever reason. So, I always worry that when you just 5 say, well, we'll just look at the cheapest 6 7 denominator, so unless these are kind of care or some kind of quality outcome associated with it, 8 9 whether it's patient satisfaction or an actual 10 outcome, you know, a functional outcome or 11 whatever you want to look at. 12 I just worry when these just care 13 episode group what we're able to. 14 CO-CHAIR TRAVIS: Thank you, Michael. 15 Leslie? 16 MEMBER SCHULTZ: Thank you. 17 I agree with the staff's 18 recommendation. The condition specific payment 19 measures overlap with the Medicare spending per 20 beneficiary measure that is currently in both 21 HIQR and the VBP. Adding segments of this 22 creates unnecessary duplication in the programs.

And, while the payment measures would create alignment with the physician value modifier in later MIPS, MAP requires establishment of patient relationship categories and codes to attribute patients and episodes.

This significantly changes the way the episode groupers are implemented and could lead to a lack of alignment between the hospital and the physician specifications.

And so, it would suggest that the measure not be added to the hospital programs in the advance of finalizing the measures with the physician programs.

And, additionally, in general, we have ongoing concerns about these measures. As measures of federal spending, they're not necessarily true indicators of value from the perspective of the beneficiary.

Because now they're capture the quality of care or are paired with measures that so do. Moreover, they don't give the beneficiary a real sense of their financial obligations so

they're not -- the payment reporting and 1 2 beneficiary engagement purposes and the crosscutting measures that are not appropriate 3 4 for evaluating care exclusively in the inpatient 5 setting. Most use a various range in 6 7 differences in both the market availability of these services and some of it is not with real 8 9 control. 10 CO-CHAIR TRAVIS: Thank you. 11 Dolores? 12 MS. MITCHELL: Thank you. 13 First of all, I'm moderately, maybe 14 very moderately, pleased that the issue of costs 15 and price, that all is beginning to percolate 16 into the discussion in the quality community. 17 And, I understand and I will comment 18 on this issue about where does quality fit in? 19 But, let me say, I left Massachusetts 20 yesterday to come down here while we are --21 because we're on a fiscal year that begins in 22 July, in the middle of rate negotiations.

my most favorite activities because I'm basically a bully and I like to bully the health plans into lowering their premium requests.

But, you know, quite seriously, it's scary. It isn't just irritating or upsetting or annoying, it's scary.

After a number of years in which utilization was down and prices moderated a little bit, it's gone right back up. Last year, I had to go to the legislature with a \$190 million shortfall in my spending.

Now, in Washington, that may be chump change, but let me tell you, that in the Commonwealth of Massachusetts and as an agency head, that huge personal, professional embarrassment to have to go back and say, oops, I overspent by a \$190 million.

The concern that I have is in thinking about this because this is my problem, not your problem. But, I think it's very important to separate what I think are the basic components and how they affect the quality agenda.

There's the issue of resource use which I suppose you could say has partly to do with waste or unnecessary duplication. And so, that's different from appropriateness of care, though related. And I think we have to do more and more and more in that. I think we have huge gaps in that area.

I separate the words price from the word cost. Cost doesn't tell you very much.

It's my beef with actuaries. They can tell you what something is going to cost, they don't tell you what it might cost if you did a better job or what it ought to cost.

And so, we have not just a cost problem, we also have a price problem. And, I think that it is an issue that this society has been extremely reluctant to address with the exception of the recent Mr. Turing -- how do you pronounce his name -- who sort of maybe pushed that envelop a little further than even his supporters thought was reasonable to defend.

But, except for that one, I think the

issue of cost and, excuse me, of price has been - we've all been too polite with one another and
in the public press about saying that people or
institutions are charging more than is
appropriate or ethical or reasonable.

And, I think we've just got to stop being so polite and address those issues.

But, closely related to price then and most egregiously unfair is disparities in price.

I mean that's an ethical question in my view.

The people least -- the people, the institutions, the communities, the organizations least able to pay are the ones who are over and over and over again charged the most. There's just something basically wrong with that. And, I think we've just got to address that. That is a quality measure. It's an ethical measure or issue.

And then, finally, I think there's a point after which cost and price begin to become a quality issue. And, I think those who say, well, cost isn't our problem, cost isn't our

issue, quality is issue, I think maybe that was true 20 years ago. I think it no longer is true.

And, in what way is it true? If cost and price begin to affect access, then you've got a quality measure and I think we need to keep that higher up in our personal and professional agenda.

And, I don't know how many years it takes for people to understand that when the cost gets too high what people do is not just cut out the unnecessary, not just cut out the duplicative, they cut out and abstain from taking necessary preventive care as well as stuff that is optional.

Going all the way back to I don't know how many years ago the Rand study was, I don't know, probably 20, 30 years ago.

But, you look at the data about high deductible plans and the experience is universal. People don't use necessary as well as unnecessary care.

So, the notion that people are all of

a sudden going to become prudent shoppers and know whether or not they need an MRI or they need 25 or 30 or 40 rehab or physical therapy sessions versus three is just, I think, it's a fantasy.

And, yes, we should let people know what things cost and, yes, we should be transparent about prices. And, yes, we should make judgments about quality. But, I think to put the burden on the patient rather than to solve the problem is just an evasion of our professional responsibilities.

So, I will get off my pulpit. But, I really think those points need to be issued, excuse me, need to be kept on the agenda and on the agenda of the quality community, not just those of us who are penny pinching Simon Legree's who are trying to deprive our patients or our enrollees of their just desserts.

I think it's untrue, unfair, even of insurance companies, the evil insurance companies. Most of them these days, you know, their customers are largely self-insured anyhow,

so the notion that they're the evil ones and that everybody else is a saint, I think is a bit of self-deception that we ought not to indulge in.

CO-CHAIR TRAVIS: Thank you, Dolores.

And, Andrea, I'm going to call on you and, I apologize, I realize you also pulled one of these measures and but thank you for your patience.

MEMBER BENIN: Oh, that's okay, no worries.

Dolores brings up the question about appropriateness and I think that it would be helpful to have some understanding from CMS maybe not necessarily today but as part of the evolution of these types of metrics, a little better understanding about how we think any kind of risk adjustment really is working.

Because, as best I can figure out from the limited materials I could sort through, there's not really any risk adjustment, so you can't tell. Is there some -- I mean they call it risk adjustment but it's like about dollars, it's

not about severity of illness. I can't sort it out.

So, you know, I think that's like if
I look at the hospitals in Connecticut, the ones
that take care of more acute care, you know,
sicker patients, the higher level of care
hospitals seem to have the higher, you know,
dollars attributed to them on the metrics that we
have so far on Hospital Compare versus the
smaller, you know, community hospitals that don't
have the sicker patients.

And so, I'm just not sure that -- I
think that before we could do anything other
than, you know, the do not support that's been
recommended, that we would need to understand
that a little bit better in a more robust way and
understand how that evolves and how that
methodology on each evolve over time.

I think that that's the -- that to me

-- I think there is also potential that I do not

understand around geographical differences. And,

as Nancy mentions, how the pricing gets worked

and how the payments get worked is not 1 2 necessarily uniform, is my understanding, different organizations will have different 3 4 agreements. And so, I'm not sure how that works 5 out. So, those are kind of the types of 6 7 questions that I have that make me feel as though these metrics are -- I mean we have some of these 8 9 payment metrics but we need to understand the 10 ones we have better before we layer it with more 11 of them. That's where my mind was. 12 Thanks. 13 CO-CHAIR TRAVIS: Would CMS like to 14 respond kind of to the methodological issues that 15 Andrea brought up? Because that may influence 16 some of the other questions. 17 MS. SPALDING BUSH: Yes, thanks for 18 the opportunity to respond to that. 19 I'm Kim Spalding Bush from CMS. 20 the lead on these measures and I'm sorry, I don't 21 have my placard.

So, there is risk adjustment for all

of these episode-based payment measures. We actually sent a detailed methodologies document.

I'm not sure whether that made its way, but we can provide that after this if you didn't get it.

The risk adjustment follows along with the existing Medicare spending per beneficiary measures construct in that it takes into account the diagnoses built during the 90 days that precede the episode and as well as the patient's age.

So, it does look at the beneficiaries clinical picture as well as the MS-DRG for the admission to the hospital because these are all - we'll talk about IPPS hospital episodes.

So, it is risk adjusted and I think that's separate maybe what you're thinking of, too, is the payment standardization that we do which removes geographic payment adjustments, differences in wage index, geographic practice costs index so that you can make those comparisons across geographically different areas.

The standardization also removes 1 2 things like if you have teaching hospitals that get an additional payment for IME, those come out 3 4 so they don't look more expensive just by virtue 5 of receiving that add-on payment or if they serve a disproportionate share of uninsured patients, 6 7 we take the payment out. So, the standardization, you know, 8 9 serves to kind of level the playing field in 10 those respects and all of the measures are risk adjusted at the facility level. 11 12 I hope that helps. 13 CO-CHAIR TRAVIS: Thank you. 14 Wei? 15 MEMBER YING: My comment is the 16 previous comments that of these set of measures 17 are sort of a duplicate of the total expenditure 18 I think the opposite. measure. 19 I think the total expenditure measure 20 is more of affordability measure. Actually, for 21 these set of procedure-based measures, does get 22 into quality because if there is major

complication or readmission happens post-hospital 1 2 discharge, then the cost will go up. So, it's definitely implicitly there 3 4 is a quality component procedure-based measure. But, I do have a question for CMS. 5 So, just like hospital readmission measures, 6 7 there is this overall hospital wide and there is a specific condition readmission measure for a 8 9 If we go down this path, there will procedure. 10 be endless procedures that you can pick. 11 So, these four procedures you put out 12 here, I assume you have done some analysis. 13 These are high-volume, maybe even see -- we have 14 already seen the variation in the highest on the 15 top of the procedure list, how you pick them? And, the question for CMS. 16 17 And, another comment is probably more 18 for the NQF endorsement, is if this measure ever come up to NQF consideration is there are many 19 20 procedure groupers out there. 21 If CMS approach is very different from 22 what is out there either on the market or other

organization has developed by themselves, it will cause some disruption, let's put it that way, because if CMS put out it, it becomes sort of the gold standard. But, if it's very different from some of the procedure groupers that have been in existence for a long time, it will cause problems.

CO-CHAIR TRAVIS: Would you all like to respond about why these particular conditions were selected?

MS. SPALDING BUSH: Yes, thank you.

So, they were based on analysis as you had suggested about high prevalence, so they have to represent a high proportion of Medicare payment, being that they're, you know, Medicare payment measures. So, just to narrow down, we did look at high cost conditions and high prevalence conditions.

They also have to have significant variation within the measure so that there is an opportunity to gain efficiencies here. Whereas, if it's an episode where we didn't see a lot of

variation, we didn't select those.

There's also a high proportion of post-discharge care that happens with these. So, I think that also gets at one of -- Leslie or Nancy raised that concern. Oh, Nancy, yes, about whether or not these were really drive by CMS's set, you know, IPPS payment system which they're not. So we made sure to pick episodes that had a lot of post -- high proportion of the included costs are post-discharge payments.

And also, they were selected because the clinical panel determined that they were conditions over which the hospital had a lot of influence on the downstream charges.

So, that's how we went about selecting these measures. And, they do, as people have noted, they overlap in a sense with the spending per beneficiary measure.

I think that the key difference there is that these measures are -- when we say clinical episode-based, we mean that we've only included charges that are related to the

admission in these and they've had a lot of clinical panel reviews, CMS doctors, Acumen, Stanford doctors.

So, the clinicians have agreed that these are the services that are related. So, that's a key difference between these clinical measures. And, I think that was responsive to some of the public comments we received when we proposed the original overall MSVP measure that since become NQF endorsed but, at that point, wasn't and the public had said, you know, we feel like we need some measures that are more clinically oriented and clinically cohesive.

And so, that's what these measures are as well as that the public felt we should really expand our measure sets that we use for resource use measurements so that it's not kind of all dependent on this one.

CO-CHAIR TRAVIS: Thank you.

Nancy?

MEMBER FOSTER: So, I'm also curious about the grouper methodology. It's very

different than what's been used before. We haven't had a chance to kick the tires on this nor has NQF. So, we really don't know how it behaves very well.

And so, I'm curious as to why we've gone down a path that's a very different grouper methodology than used before. We're using a 90-day look back period when previously in other measures that CMS has developed or contracted to develop, they've used a year, two year look back period in order to get a more accurate assessment of the underlying diseases and disorders of the patients.

So, this is a very different approach and I think it's that difference without an understanding of why that, in part, makes me nervous about whether this will do what it's supposed to do.

And, the other thing I don't' know about this methodology, but I think it is important when we talk about all cost methodologies, all cost outcomes, is to look for

whether there are socio-demographic factors that 1 2 will really affect the total cost here. And, one could easily imagine that a 3 4 patient who comes from an impoverished condition 5 and has not -- to Dolores's earlier comments -not accessed the health care system previously 6 7 would have higher costs in many respects, even with the ongoing treatment in order to address 8 9 all of those problems. 10 And, you know, to what extent has this begun to address that SDS issue? 11 12 CO-CHAIR TRAVIS: I'll give you just 13 a brief response to that and then we'll see if 14 anybody has any clinical specific questions. 15 MS. SPALDING BUSH: Thanks, I'll try 16 to talk quickly. 17 So, with respect to the methodology 18 here, it is more aligned with the Medicare 19 spending per beneficiary measure that's in the 20 hospital VBP program. That one uses the 90-day look back as well. 21

And, I think the rationale there

that's different than like an annual total per capita measure is we were looking for the conditions that most directly affect the hospitalization rather than like if you have a total per capita cost measure that spans a year, you might want to look at just the CMS score for the year that preceded it where that, you know, may not actually accurately reflect the conditions that have occurred more closely to this inpatient hospitalization.

And, we also use the MS-DRG for the hospitalization which the total per capita measures don't need to do it because they're just sort of looking at the costs over the course of the year.

And, there was another part to that, yes. So, we are cognizant of the work that's underway that NQF is currently working on, the tier project to look at SDS adjustments and also the Assistant Secretary for Planning and Education has undertaken another analysis that's required under the IMPACT Act.

1 So, we are aware that those are going 2 We're certainly open to future refinements on. once we get the outcomes of those projects that 3 are underway with NQF currently. 4 CO-CHAIR TRAVIS: 5 Thank you. Before we move to a vote on these four 6 7 measures, does anyone have any questions specific to any clinical area or comments, not just 8 9 questions? 10 So, Leslie? 11 MEMBER SCHULTZ: Just in regards to 12 the aortic aneurysm repair. That strikes me as a 13 heterogeneous population. I can see a little bit 14 more homogeneity from certain cholecystectomy and 15 stuff like that. 16 But, the triple-A kind of -- I don't 17 see that as clinical on here. There's very 18 different patients involved. So, just to kind of 19 20 MS. FEINBERG: Hi, I'm Laurie Feinberg

and I'm with Physician who works for Acumen and

we're in measure development working with CMS.

21

There are really two subgroups in the 1 2 triple-A's. There's the thoracics and the abdominals and that, we thought, were there 3 4 relevant ways of separating them. 5 And, if you look at the data which here on page 25 of the 37-page document you 6 7 hopefully should have gotten, it shows that indeed they are different. 8 9 Does that answer your question? 10 CO-CHAIR TRAVIS: Thank you. 11 Are there any other questions about 12 any specific clinical conditions? 13 Michael, do you have a question? 14 DR. PHELAN: It was regarding the 15 spinal fusion episode grouper for that. I 16 remember seeing it when it first came out last 17 year or not last year, maybe earlier in the 18 spring, and I never follow up, but there was some 19 concerns about that measure specifically with the

And, I thought -- I cannot remember

group of patients that were going to be selected

for evaluation.

20

21

the detail now, but did they change their specifications that they were going to look at? Because there's some that are pretty straightforward like the spinal fusion versus more complex patients. And, I didn't know how they addressed that question.

MS. FEINBERG: Hi. Based on the negative comments from the American Congress of Neurosurgeons, we actually had them give us some neurosurgeons to work with us and we developed a methodology that we think is far superior.

What we did is eliminate the cases where there was trauma and the large spinal deformities which we think are quite different and actually maybe not.

But what we were looking at now is focusing on CPT codes that looked at the elective surgeries of which there were lots for degenerative diseases.

And, we had the neurosurgeons help us pick out the right codes. I happen to be a physiatrist and it looks right to me and it looks

1	like our data showed that they're right.
2	So, we actually did quite a bit of
3	refinement here.
4	CO-CHAIR TRAVIS: Andrea?
5	MEMBER BENIN: So, these kind of
6	metrics, what's the relevance around IDC-10
7	stuff? So, do they have to be redone for ICD-10?
8	Because all of these metrics will come into play
9	in an ICD-10 environment. So, how does that
10	MR. FEINBERG: We will crosswalk them.
11	CO-CHAIR TRAVIS: Okay. I don't see
12	any other cards at this point. So, what we're
13	going to do is we're going to vote on each
14	measure because that's our process.
15	And so, I'm going to turn it over to
16	staff to lead us through the vote on each one of
17	these measures.
18	DR. PHELAN: Is this about the vote
19	again?
20	CO-CHAIR TRAVIS: Yes, Michael?
21	DR. PHELAN: So, these are it goes
22	back to that initial question we had. These are

1	fully developed measures or are these
2	CO-CHAIR TRAVIS: Yes, they are fully
3	developed.
4	DR. PHELAN: So, they don't have the
5	it's not that middle category that we can
6	select? Either can select conditionally support
7	which means they're no NQF endorsed or that
8	but there's no middle ground?
9	CO-CHAIR TRAVIS: It's support,
10	conditional support or do not support. So, thank
11	you for helping us clarify that. They are not
12	NQF endorsed at this point, though.
13	Okay, so I'll turn it over to Jean-
14	Luc.
15	MR. TILLY: Thank you.
16	So, for the first measure, Aortic
17	Aneurysm Procedure
18	CO-CHAIR TRAVIS: Sorry.
19	MEMBER FOSTER: So, I'm less than
20	clear on what the condition would be if we were
21	voting to conditionally support. Is it pending
22	NQF endorsement or is it something more?

1	MS. O'ROURKE: So, I think we can take
2	them one at a time. NQF endorsement seems to be
3	the one that we've heard. Are there additional
4	conditions we'd attach to the aortic aneurysm
5	measure?
6	CO-CHAIR TRAVIS: And, we will get a
7	chance, let's see where it ends up and if it is
8	conditional support, we'll just reaffirm that it
9	would be NQF endorsed meant as the condition.
10	And, if it's not, then we'll talk
11	about what that would be for each measure.
12	MR. TILLY: And so, the three choices
13	are support, conditional support and do not
14	support.
15	MS. SHAHAB: This voting is open.
16	MR. TILLY: And we're just missing one
17	more, so if you guys just want to give one final
18	shot.
19	MS. SHAHAB: Is everyone voting?
20	CO-CHAIR TRAVIS: How many votes have
21	been cast? Okay.
22	MS. O'ROURKE: We have one vote

1	missing it looks like, if everyone could click
2	one more time.
3	CO-CHAIR TRAVIS: Ready to vote again?
4	MS. O'ROURKE: Just one second,
5	please.
6	MR. TILLY: And so, polling is open
7	again.
8	CO-CHAIR TRAVIS: Still on Aortic
9	Aneurysm, vote again.
10	MR. TILLY: Okay, so the results are
11	in.
12	Eight percent for support, 32 percent
12 13	Eight percent for support, 32 percent for conditional support, 60 percent for do not
13	for conditional support, 60 percent for do not
13 14	for conditional support, 60 percent for do not support.
13 14 15	for conditional support, 60 percent for do not support. So, the recommendation is do not
13 14 15 16	for conditional support, 60 percent for do not support. So, the recommendation is do not support.
13 14 15 16	for conditional support, 60 percent for do not support. So, the recommendation is do not support. CO-CHAIR TRAVIS: Okay. Thank you
13 14 15 16 17	for conditional support, 60 percent for do not support. So, the recommendation is do not support. CO-CHAIR TRAVIS: Okay. Thank you all. Thank you for your patience and trying to
13 14 15 16 17 18	for conditional support, 60 percent for do not support. So, the recommendation is do not support. CO-CHAIR TRAVIS: Okay. Thank you all. Thank you for your patience and trying to be sure everybody gets their vote in.

1	MR. TILLY: Okay, the voting is now
2	open on Cholecystectomy and Common Duct
3	Exploration Clinical Episode-Based Payment
4	Measure, 115-836.
5	The options are support, conditional
6	support and do not support.
7	The results are 20 percent for
8	support, 28 percent for conditional support and
9	52 percent for do not support.
LO	So, the result is do not support.
L1	CO-CHAIR TRAVIS: Okay, we're going to
L2	skip down to number four which is Spinal Fusion.
L3	MR. TILLY: Okay, the voting is now
L4	open for Spinal Fusion Clinical Episode-Based
L5	Payment Measure 15-837.
L6	The results are 16 percent support, 36
L7	percent conditional support, 48 percent do not
L8	support.
L9	So, the recommendation is do not
20	support.
21	CO-CHAIR TRAVIS: Okay, and now
22	Measure Number 5.

MR. TILLY: Okay, the polling is now 1 2 open for Transurethral Resection of the Prostate for Benign Prostatic Hyperplasia Clinical 3 Episode-Based Payment Measure, 15-838. 4 So, we're actually just missing one 5 more, if you'd all try again. And we got it. 6 Okay, so the results are 20 percent 7 support, 24 percent conditional support, 56 8 9 percent do not support. 10 So, the recommendation is do not 11 support. 12 CO-CHAIR TRAVIS: Okay. Well, thank 13 all of you. Now, we have experience with just 14 about every possible voting outcome, I think. 15 So, that'll help us as we move forward to 16 understand how this works. So, thank you very 17 much for that. 18 We have one final measure that's in 19 this calendar. It is the Hospital-Level Risk 20 Standardized 30-Day Episode of Care Payment 21 Measure for Pneumonia. 22 This was pulled by Nancy, Andrea and Jennifer. Since Nancy is the lead discussant, we'll go to Andrea first then Jennifer and then Nancy.

MEMBER BENIN: You know, I don't have any particular concrete things, I just felt as though this needed a little bit of discussion and explanation about how this metric was thought that it would perform as well as the, you know, what do we need to know about this type of metric. And so I just wanted to make sure we got all the information proper.

CO-CHAIR TRAVIS: Well, maybe, Andrea, what might work is for us to have a conversation and then if you have a specific question still outstanding we can come back to that. Would that be okay?

Okay, Jennifer, in terms of why you chose to pull this measure?

MS. HUFF: Yes, I think so a lot of the comments we made for the clinical episode apply here. So, I'll just focus on some that are different.

So, pneumonia is the leading cause of 1 2 hospitalization for the older population. They're costly and have variation. 3 4 The pneumonia measure has a 5 complimentary outcome measure. It has a mortality measure. But, I think the discussions 6 around the linking the two together, CMS has been 7 doing a good job in moving in that direction with 8 9 some of the measures and this is one of them. 10 So, the improvements and the relative 11 resources can also be viewed in terms of the 12 quality of care that is being provided. 13 And then, I would also say -- let me 14 see -- this measure is currently in use in this 15 It's only that it's changing the program. 16 population and then it's expanding it, the 17 population, to make it more similar to the 18 mortality measure. 19

So, for me, it didn't seem like this was a significant change and it's nice to bring alignment between measures. I saw it more modest alteration, so I would suggest changing the

20

21

recommendation from conditional support to 1 2 support. 3 CO-CHAIR TRAVIS: Thank you, Jennifer. 4 Nancy? 5 So, thank you. MEMBER FOSTER: I am going to make a recommendation 6 7 that we add an additional condition on the conditional support that was the staff 8 9 recommendation. 10 But, before I do, I would note that I 11 continue to be a little bit surprised that the 12 previous measure did not undergo further NQF 13 review because this is a substantial change in 14 the population that's included in the measure. 15 It basically doubles the size of the patient 16 population and that, to me -- and it incorporates 17 a lot of patients that never would have been in 18 the measure before. 19 So, I see this as pending NQF review 20 as a conditional support and that would be 21 appropriate as far as I'm concerned. 22 The other issue for us continues to be socio-demographic factor adjustment. We understand that when this was submitted to CMS under the trial period that, in fact, there were some SDS factors explored with this one.

What I would say is that we thoroughly agreed with the task force that NQF had on sociodemographic factors that suggested that race should never -- probably never, that almost always never, should ever, ever, ever, never be a potential adjustment factor here.

And, yet, when this came forward to NQF for review, it was proposed as an adjustment factor. I can think of no conceptual reason why race should be an adjustment here. But, I can think of a lot of reasons why the differences in the poverty rates in the communities, the access to ongoing care and other such factors would create differences in performance that should be considered for adjustment.

So, we are supporting this with NQF review and deep consideration of SDS factors that do not involve race.

1 Thank you. 2 CO-CHAIR TRAVIS: Thank you, Nancy. And, I'm just trying to be sure I've 3 4 gotten everybody who pulled it. Yes, I have. So, now we'll open it up to those on 5 the committee. 6 7 Wei? My comment here is very 8 MEMBER YING: 9 similar to one other comment I made about the 10 procedure-based measure. 11 When it comes to NOF assessment of all these measures, it's not only endorsing this 12 13 particular measure, it's probably also endorsing 14 the grouping as knowledge. 15 There is an industry standard, 16 probably more than one out there, that either 17 health care -- the providers or the insurance 18 company have been using, especially on the 19 clinical condition. 20 Procedure-based is relatively new, but

condition-based on episode has been going -- has

been in the market -- on the market for quite

21

some time.

If CMS knowledge is very different from the sort of quote, unquote standard out there on the market, then it really will cause problems, especially for those, let's say insurance companies serving different population then there will be a lot discrepancies in between.

CO-CHAIR TRAVIS: Thank you, Wei.

Any other -- Marty?

MEMBER HATLIE: Excuse me, Sean.

I'm concerned about Nancy's additional condition. I don't know that I understand it.

My concern is that I think there are situations, I'm not sure if this is one of them, where racial bias is a determining factor where if you adjust for education level or socioeconomic status, you still see outcomes differing because of color of skin.

And so, I don't like -- my knee jerk reaction is, is I don't like taking that factor out of the equation. But, I'll admit that I just

don't really have granular knowledge about this particular condition.

MEMBER FOSTER: So, Marty, I hope you are wrong in that assessment. I fear you may be right. But, the adjustment factor would essentially take it out of the equation. It would never illuminate differences as a result of race. But we are talking about analyzing things by race, I would say to you, yes, let's do that.

In fact, we have a major effort underway to encourage hospitals to break down some of their measures by what we call real data, race, ethnicity and language data to look and see if there are any disparities in care despite whatever efforts they have underway to make sure that there aren't, we know there possibly can be.

But, this is an adjustment factor that would blend that out and I don't -- we don't see that as a legitimate adjustment factor and that's what I'm saying

CO-CHAIR TRAVIS: Leslie?

MEMBER SCHULTZ: Thank you.

recommendation on this one, that it go back through the process. They've really changed the population when they introduced aspiration pneumonia and the subcohort, it's radically different as Nancy alluded to.	
population when they introduced aspiration pneumonia and the subcohort, it's radically	
pneumonia and the subcohort, it's radically	
6 different as Nancy alluded to.	
7 You double the populations of	
8 something meaningful. It has changed clinically.	
9 CO-CHAIR TRAVIS: Thank you.	
Michael?	
DR. PHELAN: I'm just wondering,	
because there seems to be a concern for some of	
the other people, I'm wondering if CMS can	
comment on why that was done and why it matters?	
CO-CHAIR TRAVIS: Which particular	
l6 part?	
DR. PHELAN: The double the	
population.	
CO-CHAIR TRAVIS: The change in the	
population?	
DR. PHELAN: The change in the metric	
which I don't I'm not, as a clinician, too	
which I don't I'm not, as a clinician, too	

concerned, but I just wanted to hear what CMS thoughts were on that.

CO-CHAIR TRAVIS: Okay. That sounds good.

DR. YOUNG: So, we discussed this on a couple of the other pneumonia measures that we have in the IQR program last year, last year's MAP.

substantive change to the payment measure to align it with the other pneumonia measures which is essentially to update it to attempt for, you know, some -- what we've noted in terms of coding practices, in terms of coding of severity of pneumonia to capture folks who are now designed as sepsis with the primary -- as their primary diagnosis on a discharge with a secondary condition of pneumonia as well as to capture those patients that have aspiration pneumonia.

So, we believe overall this is a more comprehensive assessment of the pneumonia population that a hospital treats.

I would also turn to Suzannah Bernheim who helped developed this measure and led those efforts if she has additional comments.

But, the other thing I think we just want to clarify was also that, while we looked at race as part of the SDS trial in NQF, race is not part of the risk adjustment methodology.

CO-CHAIR TRAVIS: Thank you.

MS. BERNHEIM: I mean I'm happy to add more, although I think Pierre basically covered it. Right? We brought, you know, to this committee both the mortality and readmission pneumonia measures last year with this cohort expansion on a pretty extensive discussion about why the cohort was being expanded.

That went into last year's rule and we actually, in response -- you can see, Nancy -- okay, just hold it a bit closer, okay, sorry.

So, the expansion of the cohort for the mortality and readmission measure came to this group last year in response to some great stakeholder input. We actually narrowed the

expansion so the mortality and readmission 1 2 measures have been finalized and moved forward with a cohort that is expanded from the previous 3 4 one but actually somewhat narrower than what came 5 in front of this group last year. This work is now to bring the 6 7 mortality measure cohort expansion to the payment measure so that those two measures stay aligned. 8 And, yes, we -- the payment measures 9 10 were one of the first to go through the SDS trial 11 as an ad hoc review and we looked at a wide 12 range, not that wide a range, but as wide a range 13 of SDS variables as we could to see the impact on 14 the measures. 15 So, we looked at race but we in no way 16 proposed race being infiltrated into these 17 measures and don't intend to do so. 18 CO-CHAIR TRAVIS: Okay. Thank you. 19 MS. SHAHAB: Cristie, Jennifer has a 20 comment as well. 21 CO-CHAIR TRAVIS: Yes, Jennifer? 22 MS. HUFF: Hi, I have a question for

clarification and it's around the addition of the conditional support regarding looking at SDS.

I'm on the NQF Cost and Resource Use Standing Committee, so have some knowledge about what's been going through that process and this pneumonia measure, the current pneumonia measure and the IQR program has gone through that endorsement process and also gone through the SDS trial process of being reviewed.

The committee's given feedback to the measure developer that has led to what different measures to look at.

So, I'm wondering is it like is it -is that suffice for the condition that's being
put forward? Is it being looked at since it has
had some review already? And, I think it may
have gone to the Board recently.

But, I know it has completed the Standing Committee review.

CO-CHAIR TRAVIS: I'm going to ask NQF staff to kind of answer that for us so that we get the right answer.

MS. O'ROURKE: Sure. I can attempt to take that and I may look to Helen or Taroon who are also involved in this project.

So, the current version of the measure that is used in the program has been NQF endorsed and was looked at by the Cost and Resource Use Standing Committee for consideration of adding SDS factors in the risk adjustment model.

The committee, at the time, did not recommend that those factors be included in the risk adjustment model. So, that measure has undergone the Standing Committee's review and will be going to CSAC as the Board for finalization in the coming months.

However, this update to the cohort has not been reviewed by the Standing Committee for either the change to the population included in the measure and if that change in the measure should be also again considered for SDS adjustment.

CO-CHAIR TRAVIS: And, just to be sure

I'm on the same page, assuming that this measure

1	comes back in for the update and the review,
2	potential review and re-endorsement during the
3	SDS trial period, they would go through the SDS
4	review at that time for this measure.
5	So, I think that will happen if,
6	assuming those things I just said.
7	MS. O'ROURKE: And, I just wanted to
8	be explicit about it, that's my only thing.
9	CO-CHAIR TRAVIS: Right.
10	All right, we'll let's take a vote.
11	MR. TILLY: The polling is now open on
12	Hospital Level Risk Standardized 30-Day Episode
13	of Care Payment Measure for Pneumonia, MUC 15-
14	378.
15	The options are support, conditional
16	support and do not support.
17	Okay, so the results are support, 32
18	percent, conditional support, 60 percent and do
19	not support, 8 percent.
20	So, the result is conditional support.
21	MS. O'ROURKE: Sure, so I think the
22	conditions I've heard is that it's NQF review and

endorsement of this update to the cohort with particular attention paid to inclusion of social demographic factors.

CO-CHAIR TRAVIS: Okay well not

CO-CHAIR TRAVIS: Okay, well, not hearing any opposition to that, that's the condition that will go forth.

And, I know I said I was going to try to get us through all three of these calendars before lunch, but I'm personally very hungry.

So, we will take a break, but before we do, I'd like to see what Tom would like to share with us.

MEMBER LUTZOW: Yes, as you follow through on those convictions, do you actually look at raw data? In this case, are intercity hospitals at a disadvantage to suburban or rural are dually eligible patients in the fee-for-service system actually costing more than non-duals? Do you look at the hard data? Can you see a difference and what is it?

MEMBER FOSTER: I was going to say, there have been a number of studies that look at

socio-demographic effect on readmissions, on cost, on anything else.

These particular conditions, I'm not -- pneumonia yes, people have looked at that.

And, yes, there is clearly an effect of poverty, if you will. So, whether you're measuring that by dual eligibility, which gets a little funky because some states have expanded their Medicaid population and others have not. And so, you've got sort of a strange confounding factor in there.

Or, you look at it by Census track which is probably a more rigorous way to look at it. Or zip code, some people have suggested.

You can find a poverty factor in there that affects total cost, total number of readmissions, I'm not aware of the mortality, but somebody can correct me if I'm wrong.

MS. BERNHEIM: So, when we brought these measures back again, it was much later and the current version of, not the version that's in front of you, we did exactly that.

So, we looked at hospitals with high proportions of dual eligible patients, hospitals with high proportions of patients coming from neighborhoods indicated by our SES index. think we did that one for payment, we've done this for a lot of measures right now as you can image because they're all coming back. And, we looked at race.

And, what's surprises people with these payment measures, because they are looking at an episode and because, unfortunately, sometimes patients in poor communities are less likely to get procedures or are less likely to get follow up care and sometimes they are more likely -- at most, it comes out in the wash. You see much less difference than you might expect with these actual measures and those factors.

And, all of the stuff that we did is public. It's on the NQF website because we brought it back to the committee. So, you can look at it in detail.

But, I think it surprised the

committee how little in the case of these measures and the versions of SDS that we can feasibly include, how little difference it made.

MR. AMIN: So just a few clarifications. So, I just wanted to provide -- take a step back from this question and just sort of articulate a little bit of what we're doing in the SDS trial and the approach that we're asking measure developers to undertake.

I think it might help to provide a little bit of clarity and hopefully some confidence about, you know, what happens with these measures when you ask -- well not even when you ask us to look at the SDS question because this is being implemented across all NQF projects in the next -- for the next few years.

By the way, my name is Taroon Amin, by the way. I'd just like to introduce myself. I'm the Staff Support for the MAP Coordinating

Committee and also Staff Support on the SDS Trial

Period along with my colleague Karen Johnson here and others.

So, with this change, NQF convened an expert panel to look at the question of the appropriateness of including SDS factors in risk adjusted models.

Many of you were on that panel and the main summary statement there, while it was a very extensive report and I highly encourage you to take a look at it if you haven't seen it yet, the main operational impact was that it removed this consideration that SDS factors should just not be included in risk adjusted models which was our prior guidance.

And so, we lifted this ban, if you will, but that, I want to be clear that lifting that ban means a few specific things.

The question of whether SDS factors should be included in risk adjusted models is dependent on each individual measure and should follow a pretty defined process within our NQF endorsement process.

The first is that there is a conceptual analysis on whether and how these SDS

factors influence the outcomes of interest.

So, there should be sort of an underlying conceptual rationale for the way that's low income, for instance, or the dual eligibility variable influence the outcome of interest.

That is a critical element of how one should decide whether or not these factors should be included in risk adjusted models.

The second is once you have that conceptual understanding, to then be able to test it empirically to understand how much these factors are influenced in the outcome.

Now, there are clear challenges in the field about how well the data that we have, the individual variables represents the underlying conceptual construct.

And, that's a discussion that's going to be well beyond our two year trial period and, quite honestly, well beyond what many measure developers can do with the current state of the data that they have to test this.

So, this is going to be a learning process for us as a field to continue to understand, you know, I think some interesting findings so far in the context of these measures.

And then, as this measure expands to expand the population, you know, we'll have to go back and take a look at this question and I'm sure Suzannah and the CMS team are going to do that.

But, I wanted to provide context in the fact that we're looking at these measures individually. Every single measure starting this past calendar -- well, 2005 is in this trial period. There were -- 2015, I'm ten years off -- 2015 are in this trial period.

The NQF Board asked that certain measures that were in 2014 to go back into the trial period, so that's where these measures -- these three measures that Suzannah talked about of large number of readmissions measures went back into this trial period and then all, you know, all these measures in the next few years

will have to go through this conceptual analysis and then an empirical analysis.

But there are going to still going to be underlying data challenges, you know, my summary statement.

And so, we can go into a discussion about how well dual eligibility represents underlying SDS factors or low income or how that data can be collected. And those are definitely conversations that need to be had and we are convening a Disparities Standing Committee to really address some of these more long term issues that we're going to need to grapple with that are going to require many of us to, you know, help advise the field in where we need to go forward.

So, Cristie, I just wanted to provide this background of what we're doing and hopefully that addresses the question that was raised.

CO-CHAIR TRAVIS: Thank you.

And, I'm sure that'll be an ongoing conversation as it goes on.

Michael, did you have a question?

DR. PHELAN: You know, I'm sure you're

familiar with the Barnett's paper that internal

medicine with the different patient

characteristics.

Because I heard someone from CMS say that they didn't really see this kind of a wash out, but there's other studies out there showing that some of the, for at least for the all cause readmission, there's a Barnett, I think they had a paper that looked at 29 different factors that may be contributing to the differences in readmission.

So, whether or not the data coming out from CMS actually explored each of those, I don't know if they did or not, but there are factors that are there. I just I got this impression that it was kind of being minimized --

CO-CHAIR TRAVIS: Trust me, the review process -- participating on that side of it as several people around here do, it is thorough.

So but, there are these challenges that, you

know, this trial period is actually helping to 1 2 uncover which is why it is a trial period so that we can learn what it takes to do it the right 3 4 way. 5 So, your comments are right on target in terms of what is going on in the trial period. 6 7 So, thank you for that. And, I'll go to David for the last 8 9 comment before lunch. 10 MEMBER ENGLER: Thank you very much. 11 So, I don't want to stand between us 12 and lunch. 13 But, to your point, what we have done 14 in the last couple of years at America's 15 Essential Hospitals and it's a resource that we'd 16 like to offer all members of MAP if you're 17 interested in, we've published the results of at 18 least 18 or 19 different studies looking at the 19 impact that SDS has on outcome measures. And, 20 that's all available on our website. 21 And, to generalize from those 19

studies or so, it has a significant impact on

1	selected metrics. Okay? In particular,
2	pneumonia, in particular, stroke, and in
3	particular, of the admissions as a general theme.
4	So, we offer that as a resource to all
5	members of MAP and as you're looking at the
6	impact that socio-demographic factors have, we've
7	published also race, ethnicity and language tools
8	that are available through our site as well.
9	So, I just wanted to offer that.
10	CO-CHAIR TRAVIS: Well, thank you,
11	David.
12	MEMBER ENGLER: Thank you.
13	CO-CHAIR TRAVIS: Thank you very much.
14	Okay, well, like I said, we had a
15	reward for three. We only got through one, but
16	we're doing continuous improvement and
17	adjustment.
18	So, we're going to have lunch right
19	now and I'm going to staff, though, as to what
20	time we need to come back.
21	MS. O'ROURKE: 1:45, 30 minute lunch.
22	CO-CHAIR TRAVIS: Are people up for a

1	working lunch? Okay.
2	MS. O'ROURKE: Maybe we can take 15
3	minutes to get your lunch and decompress a little
4	and then come back at 1:30 for a working lunch.
5	CO-CHAIR TRAVIS: That sounds good.
6	Thank you all.
7	(Whereupon, the above-entitled matter
8	went off the record at 1:17 p.m. and resumed at
9	1:35 p.m.)
LO	CO-CHAIR WALTERS: Okay, Helen
L1	Haskell, one housekeeping thing for you, would
L2	you just tell the group about your conflicts or
L3	lack thereof?
L4	MS. HASKELL: Hello, I'm Helen Haskell
L5	for Mothers Against Medical Error and Consumers
L6	Advancing Patient Safety and I have no conflicts
L7	to report.
L8	CO-CHAIR WALTERS: Thank you very
L9	much.
20	Okay. We're moving into Consent
21	Calendar 3, the 11:00 item. And so, I'm pleased
22	to inform you that when we started to put

together these Consent Calendars, we purposefully did that in kind of groupings to facilitate some of the discussion that, like you just saw on the last Consent Calendar, so we knew might be able to catch up a little ground.

And, this one almost naturally groups into numbers two, three and four because they are all about ischemic stroke mortality. And, I'm sure we'll need --

And then, the first one has to do with the excess days which is a different type concept.

But, before we get to two, three and four and then one, let's talk about number five which is the RPSI composite. That, to this point in time, has not been pulled by anyone. So, I want to see if everyone wants to leave it on the Consent Calendar which was recommended by staff for support?

Is there anybody in the room that wants to pull that from the Consent Calendar?

Good. Okay, thank you.

1 We will now go over two, three and 2 four which is those group of measures regarding ischemic stroke mortality. 3 4 They were pulled by a combination of 5 Nancy, Sean and Andrea, either two at a time or three at a time. 6 So, who doesn't have food in their 7 8 mouth? Let's see, Sean, no you're not there. 9 DR. MORRISON: I'm here. 10 CO-CHAIR WALTERS: You have food in 11 your mouth yet. 12 No, not yet. DR. MORRISON: 13 CO-CHAIR WALTERS: Andrea, do you have 14 -- okay, Sean, you go first. 15 DR. MORRISON: Okay. 16 CO-CHAIR WALTERS: And, this is taking 17 two, three and four kind of as a group because I 18 suspect where we're going end up is talking about 19 the three measures together and what's the same 20 about them and what's different and so on. 21 DR. MORRISON: Right. So, these are 22 the three measures around adjusted stroke

mortality. And, I had a couple of concerns about those and let me just preface by the data that are out there.

The first element is that there,

particularly related to stroke, there are a

number of data point -- or a number of studies

out there that demonstrate that there really is

something that patients consider a fate worse

than death and that is living with either

profound cognitive or functional impairment and

that is often a result following a severe stroke.

The second data element out there is that we know that patients goals of care are not discussed well by physicians in the acute care setting.

And, the third point of data is that it is very easy, or relatively easy, to keep somebody alive for a prolonged period of time following a severe stroke if you place a tracheostomy into their larynx and then put a gastrostomy tube into their stomach.

And, many of us who work in this area

are very familiar with the comment by our neurosurgeons and our neurologists, it is time for a trach and PEG. Trach, PEG and send them home.

So, the idea of putting a mortality measure out there without any consideration as to whether (a) goals of care were discussed, (b) whether there was any consideration as to whether patients were enrolled in hospice following a severe stroke means that we are not protecting our most vulnerable patient population and, indeed, may be placing many of them in a situation which they would consider to be a fate worse than death.

And, I think unless there is some accountability for either goals of care discussions, patients preferences, that mortality in and of itself for this measure is a poor measure and I would vote either (a) to support continued development with that indicated or (b) not move it forward at all.

CO-CHAIR WALTERS: Thank you.

1 Nancy, you asked that it be pulled, 2 too? 3 MEMBER FOSTER: Thank you. 4 And, I appreciate Sean's comments very 5 much that very important concerns. My question was really about why three 6 What's it going to tell us if we 7 measures? endorse all three of them? What's the difference 8 9 between the three of them? 10 I appreciate the fact that you have --11 that CMS and its measure development team has 12 taken the step of trying to adjust these for 13 stroke severity which is clinically the most 14 important thing, I understand, in determining 15 stroke outcome. 16 So, great step, but help me understand 17 why three are on the MUC list. 18 CO-CHAIR WALTERS: The spec to that 19 came up and I think we're going to get a response 20 to that as the discussion unfolds. That's why 21 they're kind of grouped together. 22 And, Andrea, you had a problem with

three and four. You asked that that be pulled, those be pulled.

MEMBER BENIN: No, my comments were similar and I think Sean made some excellent points and I think we need to understand what the differences are between these three and why there's three and what the implications are around them.

CO-CHAIR WALTERS: Okay. Let's head into the response. That was anticipated to be the number one question. So, let's head into two, three and four as a group. Why all three of them are there, what their differences are, why all three of them should to be important or not and then we'll get into comments after that.

DR. YOUNG: Sure, so thank you for the comments and if there are specific comments about the technical specifications, though, I'll ask Suzannah to help answer those.

But, we felt as we were developing these measures with Suzannah and her team, we wanted to move forward but were also cognizant

that the landscape of data sources and movement towards use of electronic health records as a data source for quality measures was also happening.

And, as I mentioned before, usually take several years before CMS can implement a measure into a program.

So, the main difference between the different versions, if you will, of these measures, is essentially the data sources we essentially have one claims-based measure.

We have a hybrid measure which uses data from claims information as well as data from EHRs and then an EHR version.

So, the reason we included all three was really because we were cognizant that, you know, we want to move forward with ultimately achieving this vision of having quality data pulled from EHRs.

And so, we wanted to have some -thought it would provide some flexibility if we
had different versions that we may consider

appropriate for the program at different times depending on what data source was -- and what the stage of development is with EHRs.

CO-CHAIR WALTERS: Yes, open for discussion.

MEMBER FOSTER: So, Pierre, if I could say that back to you in a slightly different way, it is not your intent to implement more than one of these at a time, in essence. You are looking for guidance on whether to move a measure forward and, if so, whether one of these is preferred.

Is that right?

DR. YOUNG: Certainly that would be valuable input. I mean sometimes we have had two versions. Right? We've had paper measures and the voluntary ECQM version of that measure. So, certainly we've had that situation in the past.

So, there are possibilities that you may have different versions of the same measure in the program at the same time. But, I think the goal here is really to have a measure in the program.

CO-CHAIR WALTERS: I'll address it 1 2 before I get to David. Greg as the lead discussant. 3 4 DR. ALEXANDER: Thank you. 5 So, I've reviewed all the comments on these and the only thing that I have to add is 6 7 there was one comment about the sort of usability, human computer interaction components 8 9 of EHRs. 10 And, since I have some experience with 11 that, I thought it was an interesting comment in 12 that different users, the different EHRs and the 13 ways EHRs are designed should be considered in 14 relationship to this measure because the measure 15 is only as good as the data underlying it. 16 And, if the data isn't collected 17 consistently and reliable across different 18 vendors, then you're not really measuring the 19 same thing across different settings. 20 And so, this was a concern that was raised and I think it's a valid concern that 21 22 should be considered.

1 So, I guess I would recommend 2 conditional acceptance based on this. CO-CHAIR WALTERS: And, the other lead 3 4 discussant, Heather? 5 I have to say that in MEMBER LEWIS: concur with Sean's comments and I do have a 6 7 question regarding risk standardization and selectively with this stroke mortality measure, 8 9 it selectively disadvantages of hospitals as 10 we've seen in some of our experience. 11 CO-CHAIR WALTERS: And, I'll go back 12 to David. 13 MEMBER ENGLER: So, thank you very 14 much. 15 So, I had both a comment and a 16 question. 17 So, when we looked at the metric 18 itself, we were very supportive. American's 19 Essential Hospitals was very supportive in the 20 sense that the adjustment was going to be made 21 for the stroke severity scale. So, thank you for 22 doing that.

But the follow up question for that is whether or not in the collection of the data both claims-based and EHR, if those data elements are routinely collected for the purposes of the scale, if they are not, then we would withdraw our support for it. If they are, then we would continue to endorse it.

CO-CHAIR WALTERS: Pierre?

DR. YOUNG: So, with this switch to ICD-10, there is -- we now do -- or will be collecting eventually NIH Stroke Scales as part of the claims data, so that's how we can include that as part of the risk adjustment model with even just the claims-based measure.

CO-CHAIR WALTERS: Leslie?

MEMBER SCHULTZ: Very similar theme, applaud the inclusion of the adjustment for the stroke scale. However, unsure if those elements can capture consistently across EHRs.

And CE HTR requirements need to be incorporate the elements prior to the implementation.

CO-CHAIR WALTERS: Jack?

DR. FOWLER: I'm on Sean's team, I guess, that the notion of having a quality measure that encourages hospitals to keep people alive given the fact that we know there's an awful lot of over treatment at the end of life, it doesn't strike me as rational.

CO-CHAIR WALTERS: Sean?

DR. MORRISON: I would just add that
I would suggest that mortality is not the right
measure here but it's cognitive and functional
outcome and that mortality is just -- it's just a
wrong outcome for this condition.

DR. LEVY: Yes, I was about to say the exact same thing that Sean said. I'm not sure that mortality is a measure of quality here because the outcomes of stroke could cognitive. I think that's much better.

But, the relationship between stroke and mortality in terms of quality is very unclear to me.

CO-CHAIR WALTERS: I have kind of a

question myself. With three measures of kind of different sources, mixture of sources, et cetera, it's kind of a version of the one that someone asked earlier.

And, if they're all in the program, and if it all happens to be at the same time, how's that work for an individual hospital?

DR. YOUNG: So, I don't know -- so, from the CMS perspective, we, I don't think we've made any formal decisions in terms of which measure or all measures to potentially propose for IQR.

So, certainly if all three are in, we recognize that there would be these complications because then it becomes, well, which one would a hospital submit?

What I can say is, you know, in the past, we have had paper -- we've had two versions of the same measure in the IQR program. We've had, you know, a paper -- like a chart extracted measure and a voluntary ECQM version of that same measure that hospitals could voluntarily submit

data on instead of the paper of the measure.

So, that could be one possibility for how we could have multiple versions of the same measure in there.

As far as I know, we've never had three versions of the same measure in the program. I think just to emphasize our thinking here, I think we want to encourage the movement towards EHR based a type of clinical quality measures but also recognize that based on, as we've heard in some other discussion earlier, there are concerns about the data quality and how reliable that data quality is at this point. So, we recognize that's a moving target.

But so, but these are very good questions that we need to fully think through before we would make any proposals through a notice and comment rulemaking about how to include these measures.

CO-CHAIR WALTERS: Mitchell?

DR. LEVY: Yes, so, based on your comment, I think this is another one of those

times before we vote that we're really sure and 1 2 clear about what we're voting on because this -the conditional support that's recommended by the 3 4 staff is conditional support for public reporting 5 into patient quality as opposed to conditional support for further development of the measure. 6 7 So, to me, we need to clarify -- be sure of what we're -- what one of those is. 8 9 CO-CHAIR WALTERS: Did you have 10 another comment? 11 MEMBER ENGLER: Yes, thank you. 12 I need more clarity on whether or not 13 it's all three metrics. I wouldn't wish three 14 metrics on my worst enemy on the same measure. 15 16

So, and particularly as we try to adjudicate the differences across the three, so again, while we support it given the fact that there's a stroke scale in it and given the notion that the EHRs will eventually catch up with humanity, but I do need some clarity for purposes of the vote as to which of the three we're voting on.

17

18

19

20

21

CO-CHAIR WALTERS: So, Nancy's going to give us that clarity.

MEMBER FOSTER: Well, listening to the comments, I think the NQF review is really the ideal place to address the question of are these there equal measures, is one superior to the other? Which one should be endorsed? Or is one simply the electronic equivalent of the paperbased measure and there are really two sides of the same coin?

I'm not sure we are constituted to do that or have the time to do that given how much time we've taken already.

But, so I leave that question to NQF review. But, I'm seriously concerned about the questions that Mitch and Sean and others have raised about how this aligns with what are the real outcomes of interest and how it aligns with patient preferences and DNR decisions and so forth.

So, I'd love to hear CMS's response on whether any or all of these measures have taken

into account patient decision making and whether

-- why you thought these were the outcomes of

interest for stroke.

DR. YOUNG: So, thank you.

And so, we -- these are really

And so, we -- these are really important questions about sort of patient preferences and engagement of patients, particularly in our measure development process.

And, I just want to ask Suzannah actually to talk a little bit more specifically about how we did that with this particular measure.

MS. BERNHEIM: Can people hear me okay?

So, these are really important questions and, remember that CMS has in the IQR program right now a 30-day hospital stroke mortality measure. So, these are coming forward as a revision to that measure if you stick with the claims-based measure to respond to one of the key criticisms of that measure when it first came out which is that we did not have a way to

accurately account for patient severity.

That is not the same in any way as end of life desires, but it is related because those issues are going to come up much more in these severe strokes.

So, it's not a solution to a problem that, as a measure developer, I've had for a long time which is I would love for you to tell me who, based on their condition when they come into the hospitals makes end of life decisions? And, we can't tell that.

So, we can't tell the difference between patients who have had terrible aspiration pneumonia because of poor care and ended up ventilated and had mortality issues that were related and hospice decisions that were related to poor care versus based on the time they enter.

So, just a plug for hospitals to help resolve this problem.

In the meantime, what we do for this measure is we account for hospice on the day of admission. So, if hospitals are proactively

identifying this, that's something we can do with the claims measure.

So, that's an exclusion for all of these measures, patients who are hospice prior -- any time in the prior year or on the day of admission are out of the measure.

And, now, we have the ability at least to account for how severe the stroke is which helps us get better.

So, that's the story of this measure. And, the true story is that it started as an EHR measure because we didn't know how to get stroke severity any other way. And, in the process of developing it, a new ICD-9 code came forward, an ICD-10, excuse me, which would allow us to do a claims-based only measure.

And, I think you're right, Nancy, we need the neurology committee and all of these measures are going to the neurology committee in January to tell us about validity. But, they're all pretty strong measures based on my biased viewpoint.

What you guys can reflect back to us 1 2 is, is the effort to start pulling the clinical data out of the EHR and the NIH Stroke Scale out 3 4 of the EHR important enough to the stakeholder 5 community that leading with an EHR risk adjusted model is more valuable or is it better to just 6 7 bring the claims data from the NIH Stroke Scale in and stick with a claims-based measure which is 8 9 lower burden?

Although I heard well earlier comments about the fact that it's not that these claims measures are no burden.

CO-CHAIR WALTERS: So, the last statement was clear about what they were looking for out of this. So, as we vote on measures two, three and four, I would say take into consideration what you heard from Sean and from Nancy.

Take into consideration that if you vote three supports, take into consideration all permutations of the vote on three different measures and vote the way that you think

10

11

12

13

14

15

16

17

18

19

20

21

describes these situations. 1 2 But, you heard what they were looking They were looking for direction about which 3 for. way to go with which one of these preferred. 4 So, before we vote, 5 MS. O'ROURKE: while Jean-Luc is cuing that up, could -- Kelly, 6 could you -- would you mind introducing yourself 7 and disclosing? 8 9 CO-CHAIR WALTERS: Yes, Kelly, we need 10 your disclosure. 11 Hi, my name is Kelly MS. TRAUTNER: 12 Trautner, I'm the Director of AFT Nurses and 13 Health Professionals. Do you need me to say 14 anything else? I have no conflict of interest 15 and no disclosures to make. CO-CHAIR WALTERS: Start this out with 16 17 measure two. 18 MEMBER BENIN: So, I don't know, who 19 I'm going to ask to answer this, but the -- so, 20 if these metrics are based on ICD-10 codes, how 21 are they possibly even validated because nobody's

been using ICD-10 except for like a month?

So, they're not validated at all for 1 2 No, she just said it only became ICD-10? possible because of ICD-10, sorry. 3 4 MS. BERNHEIM: So, great question. 5 So, the way these measures were developed, 6 because, as you note, we don't have the data, is that we used registry data as a proxy and we 7 combined registry and claims data. So, we 8 9 created a data set that was made of claims data 10 with the NIH Stroke Scale as it came from the 11 registry data. 12 So, it shows that the measure works 13 with the NIH Stroke Scale, we can't say 100 14 percent that what they put in the registry is 15 what they would have put in the claims, but 16 they're pulling it from the same place as the 17 chart. 18 CO-CHAIR WALTERS: Okay. 19 So, I have a question. DR. PHELAN: 20 CO-CHAIR WALTERS: I'm sorry. 21 DR. PHELAN: So, number two is a 22 measure that is currently endorsed by NQF but has

some modifications? Which is the measure -- is 1 2 that the correct one that's in the IQR? Number two --3 MS. BERNHEIM: 4 CO-CHAIR WALTERS: It's in 5 administrative claims. Right, and it is in 6 MS. BERNHEIM: 7 IQR. This is a refinement to one in IQR. It is not NQF endorsed. 8 9 No, the current version of number two, 10 without the NIH Stroke Scale is used in IQR. 11 We're bringing to the MAP a revision of the 12 current measure that would incorporate the NIH 13 Stroke Scale and we reselected variables in that. 14 That is number two. 15 Okay, so three is a measure that uses 16 claims data to identify the cohorts with an 17 identical cohort and it uses claims data for the 18 outcome. It has an identical outcome but we used 19 a combination of data elements that could be 20 pulled from the EHR, primarily labs and vital 21 signs, and claims data and the NIH Stroke Scale

and we chose the strongest risk model. And that

1	new risk model has a combination of claims and
2	EHR data elements in the risk model.
3	Number three is similar to that, it
4	only uses EHR-based variables in the risk model.
5	CO-CHAIR WALTERS: And, you say that
6	again in number four, right?
7	MS. BERNHEIM: I'm sorry.
8	CO-CHAIR WALTERS: Yes, so let's go
9	again, this has to be perfectly clear because
LO	it's muddy enough already.
L1	MS. BERNHEIM: Yes, and I really
L2	apologize. I'm going to look at the screen while
L3	I say this.
L4	CO-CHAIR WALTERS: Describe two, three
L5	and four again.
L6	MS. BERNHEIM: Yes.
L7	Measure number two is a refinement to
L8	the current IQR measure. It is claims-based and
L9	it includes the NIH Stroke Scale.
20	Measure three is a hybrid measure,
21	meaning that it uses both claims and electronic
22	health record data and it's risk model, the risk

variables come from both claims and electronic 1 2 health record data. Number four is still considered a 3 4 hybrid measure in that the cohort is defined 5 through claims data, but it only uses elements that would come from an EHR including the NIH 6 Stroke Scale for the risk variables in the model. 7 8 I apologize. 9 MEMBER ENGLER: Thank you, Ron. 10 So, I've just got one more question. 11 I apologize. 12 As the developer, if you list down 13 those three, could you tell me what the receiver 14 operator curve is for each one of those three and 15 whether or not it got better as you added EHR 16 data, please? 17 I can't tell you them MS. BERNHEIM: 18 off the top of my head. If you want to know the 19 actual numbers, somebody can pull them up for me. 20 I can tell you they are quite close 21 and that the third one, the one that has both

claims and EHR data is the strongest, but not by

1	much.
2	If you want real numbers, I can
3	provide them.
4	Number three.
5	CO-CHAIR WALTERS: Is there everybody
6	clear on what they're voting on?
7	Mitch?
8	DR. LEVY: So, and I assume when you
9	say EHR data it's been validated on across
LO	platforms in the EHR?
L1	MS. BERNHEIM: So, what we've been
L2	able to do is validate all of the elements that
L3	are in there except for the NIH Stroke Scale.
L4	Hospitals do not standardly have the NIH Stroke
L5	Scale now in a structured field. But, all the
L6	other elements are part of what is CMS's four
L7	clinical data elements.
L8	CO-CHAIR WALTERS: Are we ready?
L9	Okay, tee up number two.
20	MR. TILLY: All right. So, the
21	polling now open for Hospital 30-Day Mortality
22	Following Acute Ischemic Stroke Hospitalization

Measure, MUC 15-294, what we were calling number two.

And the options are support, conditional support and do not support.

All right, so the results are in, 24 percent support, 44 percent conditional support, 32 percent do not support.

So, the verdict is conditional support.

CO-CHAIR WALTERS: And?

MS. O'ROURKE: Thanks, Ron.

So, again, this is a little bit of a tricky one, but just to summarize what we've been hearing, so I would say the conditions I've heard are NQF review of this update, that CMS consider which version of this measure to require at a given time and to consider a phased approach to not require three versions of the same measure in the same program and for strong consideration that from the patient perspective, mortality is not the most meaningful outcome and to consider moving towards measures that would address

patient goals and quality of life. 1 2 MEMBER FOSTER: So, while CMS will certainly have to consider that, I was hoping we 3 were also going to hear that the NQF Steering 4 5 Committee would be asked to review all -- two or three of the measures, how many CMS really wants 6 7 to advance simultaneously to make recommendations about whether the juice is worth the squeeze, to 8 9 borrow a phrase from this morning. 10 MS. O'ROURKE: I think that makes 11 sense that the three would be submitted and 12 reviewed together. 13 CO-CHAIR WALTERS: Doing it too, 14 measure number three on your list. 15 MR. TILLY: The polling is now open 16 for Hybrid 30-Day Risk Standardized Acute 17 Ischemic Stroke Mortality Measure with Claims and 18 Clinical Electronic Health Record Risk Adjustment 19 Variables, MUC 15-1135. 20 The options are support, conditional 21 support and do not support.

So, the results are 17 percent

1	support, 54 percent conditional support, 29
2	percent do not support.
3	The verdict is conditional support.
4	CO-CHAIR WALTERS: And now, number
5	four. Conditions, sorry.
6	MS. O'ROURKE: I just wanted to
7	confirm that the committee would have the same
8	conditions for this measure as the previous.
9	CO-CHAIR WALTERS: Okay. The fourth
10	measure on your list, the third of this group.
11	MR. TILLY: Okay, the polling is now
12	open for Hybrid 30-Day Risk Standardized of Acute
13	Ischemic Stroke Mortality Measure with Electronic
14	Health Record Extracted and Risk Adjustment
15	Variables, MUC 15-1033.
16	Okay, and the results are 8 percent
17	support, 36 percent conditional support, 56
18	percent do not support.
19	So the verdict is do not support.
20	CO-CHAIR WALTERS: So, if anybody who
21	voted do not support would like to clarify why
22	they voted do not support for this one

specifically and may have voted either support or 1 2 conditional support for the other two. You know, well, that's the only way I can word it, I mean, 3 4 you know. I don't see any takers on that. 5 Ron, it seems like maybe MR. AMIN: that it might be related to Suzannah's comment 6 7 about the one that performed the most was the hybrid or performed the best might have been the 8 9 hybrid measure and so, focusing there might not 10 be the best place. 11 CO-CHAIR WALTERS: So, happy for 12 feedback on that without identifying the --MR. AMIN: Is that a fair feedback on 13 14 why it was do not support? 15 CO-CHAIR WALTERS: So, I hope that 16 gave you your direction and guidance. 17 MEMBER FOSTER: I know this is 18 supposed to be part of the NQF process anyway, 19 but if you -- when this comes up to the NQF 20 Steering Committee for review, if you could make 21 sure to include the comments that Sean and Mitch and others made about concern that this is 22

perhaps not the right thing to be looking at, it 1 2 would be I think a useful thing for them to probe 3 on. 4 MS. O'ROURKE: Absolutely. Just to 5 step back for a second, we are continually developing the processes and trying to improve 6 7 them of how we feed feedback from the MAP to the Standing Committees and from the Standing 8 9 Committees to the MAP. So, we are working to 10 make sure that everything you say goes along with 11 these measures when they come along for 12 endorsement review. So, staff will be -- not 13 everything -- a summary of the most salient 14 points. 15 CO-CHAIR WALTERS: Greg? 16 DR. ALEXANDER: Thank you. 17 So, there -- so I came here from the 18 NQF Health Information Technology and Patient 19 Safety Panel that reviewed and made 20 recommendations for measures about EHR at patient 21 safety.

And, I kept that in mind as I was

thinking about this and I think it would be good for NQF as they review these measures to think about those measures in that panel that are now being commented on as recommended measures because they will affect, you know, some underlying assumptions made about EHRs in this measure.

CO-CHAIR WALTERS: Okay. We now move to measure one in Calendar 3 which only has one version of it, that's the good news, which is the excess days hospitalization for pneumonia.

It was pulled by Nancy Foster and

Andrea. Nancy, would you like to go first?

MEMBER FOSTER: Okay. We're actually
fairly concerned about this measure and would
recommend do not support for it.

One, because of the need to look at SDS for this. We believe that this would be exclusively sensitive to the lack of other resources in the community for care as patients come back to the hospital if they have no other source of care and think that that needs to be

carefully looked at.

And, you know, this measure in large part should be duplicative of the existing hospital readmission measure.

So, I wonder if we really need to have this additional focus on the same issue.

So, those were our major comments.

CO-CHAIR WALTERS: Thank you.

Andrea?

MEMBER BENIN: I would agree with Nancy's comments around the readmission. You know, the readmissions are a portion of this and the duplicative aspect of it.

The other piece of this for me is that there are, I guess, last time around, there are a couple of other excess days metrics that are going to start to play out I think in '18 -- of fiscal '18, the other two metrics.

And, to my mind, I think understanding how those metrics perform and how they play in this space is important before adding in new ones. I think that adding in the new ones seems

to be before we're really added in the other ones 1 2 it seems a little bit in advance of things. And so, understanding how the other 3 ones I think it's DMI and heart failure it looks 4 5 like, seeing how those actually play out once they come into play is relevant for understanding 6 how these metrics really work. 7 And, I did want to 8 MS. O'ROURKE: 9 clarify for the committee, MAP has reviewed this 10 measure previously. This is another one where the cohort is being changed to include aspiration 11 pneumonia and sepsis. So, just to focus on that 12 13 this is another update for the pneumonia cohort 14 and we've reviewed this measure previously. 15 MEMBER BENIN: What did we say 16 previously? 17 MS. O'ROURKE: I believe we 18 conditionally supported it pending NQF 19 endorsement. 20 CO-CHAIR WALTERS: Lead discussant, 21 Greg? 22 DR. ALEXANDER: The only comment that

I have on this was that the three categories that 1 2 are going into the calculation of this measure including PD treatment and release visits, 3 observation stays and readmissions are all pretty 4 5 distinct measures and observation stays are a little bit of an ambiguous kind of a measure. 6 7 And so, I don't know that I felt comfortable with how this complete 8 9 operationalized. 10 CO-CHAIR WALTERS: And, Heather? 11 MEMBER LEWIS: I have nothing to add 12 to the previous comments. 13 CO-CHAIR WALTERS: And Dolores? 14 MS. MITCHELL: I'm about to give 15 another one of my pious sermons. 16 But, I do so not with the expectation 17 that it will affect or should affect how anybody 18 votes on this, but again, one of those concerns 19 that I think tie us into knots sometimes over 20 some of these issues. 21 I have been supportive and am 22 supportive of the responsibility of hospitals,

particularly as they grow into larger delivery system organizations where I think there is an ongoing responsibility for what happens to the patient not just inside the walls of the hospital.

Nevertheless, I think it's not quite fair to the hospitals to assume that they are responsibility for picking up the societal burdens that create those conditions in which socio-demographic criteria are involved and should be considered in some cases.

But, I think you don't want a hospital responsibility creep and that's what I see happening. To go without thinking about, well, wait a minute, what are the other alternatives and who's responsibility is it to deal with those other alternatives?

I don't think that one can expect hospitals to be in charge of solving poverty, war and injustice. Those are our responsibilities as citizens.

And, without sounding, you know,

without making the hospital -- I'm looking at you for obvious reasons -- for once I'm on your side.

So, again, as an organization which isn't just bean counters and has a social agenda, I think we need to sort of start suggesting other alternatives.

And that gets us into tough territory because you may be talking about how we spend our tax dollars and how decides.

Nevertheless, I don't think we ought to be guilty of saying that everything is the responsibility of the hospital because, at some point, not only is it probably not fair, but it's also outside of their area of expertise. They are not social workers, they have some, but they are not themselves basically social workers, they are not economists who are responsible for solving economic injustice.

And, I think, you know, those are the kinds of issues that we as citizens need to be thinking about over the next decade. Otherwise, we're going to find ourselves asking the

hospitals to do things that they are neither competent to do nor equipped to do nor is it fair to ask them to do.

CO-CHAIR WALTERS: Does that take it that encompasses most of your -- of these two?

Okay.

Michael?

DR. PHELAN: I think we have to look at this measure as the next iteration of a quality measure around pneumonia readmission.

So, I think this brings more clarity of what actually is happening. Are these patients showing in a outpatient setting? Are they going to an ED or are they getting admitted under observation?

So, we already have a readmission measure for pneumonia. I think this just gets it a little bit more granular and will provide data for hospitals or hospital systems to better understand what's actually happening with their patients. Are they just showing up in the ED? Are they coming back within two days and getting

readmitted to observation and then getting a full admit?

So, actually, I think this is the progress of quality measures that we've got. We have a really, you know, raw one on pneumonia readmissions. The addition of a couple extra patients as CMS has mentioned before, patient categories, the aspiration pneumonia and the sepsis one, I don't think really changes the measure in itself. It's more additive.

And, from that perspective, everyone's going to be affected equally. So, if patients have aspiration pneumonia or sepsis related to that, I have a feeling that that's going to just wash out in the end anyways.

But, I don't see it as Dolores sees it as the ills of society being put upon us. I actually just see this as a better measure for hospitals to be able utilize to try to figure out what actually is going on instead of just a raw readmission measure.

DR. SULLIVAN: Yes, I agree with

everything you just said.

So, then I have a question for CMS.

If this were to happen, would you then drop the readmission or what happens? Now you have two measures or --

CO-CHAIR WALTERS: I knew you were going to have a question so that's why I held Pierre for answering -- dealing with everything. What is the strategy about excess stays and what's the answer to Ann Marie's question and anything else you can think of?

DR. YOUNG: Right, so as several folks have noted, we do have condition specific readmission measures already in the IQR program.

The idea behind -- but those only capture readmissions, but that doesn't -- is not the entire universe of acute care following a hospitalization. So, that's why the thought was to try and capture that more fully by including ED visits and ops in addition to readmissions in a single measure.

The other big difference between this

measure and the readmission measure is that the 1 2 readmission measures are expressed as rates, so readmission rates. 3 These are actually expressed as a 4 5 period of time because the thought was this would be a more patient consumable, patient friendly 6 7 way to present the information about how much time they are spending in acute care after a 8 9 hospitalization. 10 It is not intended to replace the 11 readmission measures. We think the readmission measures provide very useful information and is 12 13 intended to compliment and expand the information 14 that's provided by that particular measure. 15 CO-CHAIR WALTERS: Are there any other 16 comments or questions for CMS? 17 Go ahead. 18 MEMBER LUTZOW: Yes, I think this is 19 a general question as to whether care transitions 20 are really appropriately funded within the system 21 and whether there's a real investment.

And, I know that we don't have the

right people here to answer that question, but it 1 2 seems to me that more could be done here if -- in 3 strengthening transitions if they were properly 4 funded. 5 Medicare, unless you're homebound, there's no extension and reach into the home 6 7 really. I know there's some experimentation about educational visits and so on, but I think 8 9 this whole area of readmission prevention is not 10 properly funded. And, we're trying to squeeze 11 the turnip to get more blood out of it but the 12 very structure is getting in our way. 13 And so, you know, as part of a review, 14 you know, these transitions, yes, we want them to 15 be sounder, but are we really structured to 16 support them? And I think not. 17 CO-CHAIR WALTERS: Thank you for the 18 comment. 19 Looking around, are we ready for a 20 vote? Okay. 21 MR. TILLY: The polling is now open 22 for Excess Days in Acute Care After

Hospitalization for Pneumonia, MUC 15-391.

The options are support, conditional support and do not support.

The results are 23 percent support, 42 percent conditional support, 35 percent do not support.

So the result is conditional support.

MS. O'ROURKE: So, for this one, I would say the conditions we heard are NQF review and endorsement as well as a particular attention to socio-demographic factors in the risk adjustment model and being cognizant that measures like this test what really is the role of the hospital and to be cognizant of what is a hospital problem and what is society's problem. I'll find a more elegant way to say that for the report, Dolores.

DR. SULLIVAN: And, can we also maybe also recommend that there be some thought given to having one measure even if they are looking at different things? It's like piling measure upon measure I think is a problem and we talked about

1 parsimony, so maybe put that in, too, that 2 perhaps there should be some thought about not just adding this one on top of the previous one. 3 4 That's all. 5 All right, are you CO-CHAIR WALTERS: Is she going to make her presentation 6 teed up? This is from the 1140, yes, the measure 7 8 concepts. Right. It was on the --9 So, if none one pulled MS. O'ROURKE: 10 the measure, we do not have to --11 CO-CHAIR WALTERS: That's why I asked 12 again before we started that whether anybody 13 wanted to pull that. You did? Oh, it went by 14 all of us. 15 Hold that presentation a second. 16 Okay. It went right by us. 17 All right, the PSA, the composite 18 patient safety measure. Leslie, why would you --19 MEMBER SCHULTZ: I just want to softly 20 disagree with the staff recommendation and take 21 it down a level to conditional. 22 The reason I do that is we strongly

encourage and support the changes in the recently 1 2 endorsed version which is a vastly improved 3 measure, to be sure. 4 But, version 6.0 has not been out. 5 hasn't been used nationally yet. So, our recommendation would be rather that the current 6 measure be replaced with this new version 6.0 in 7 the IQR program and only then after we gain 8 9 experience with this brand new measure, 10 essentially, should the measure then be moved 11 into other programs such as VBP and the hack 12 reduction program. 13 Thank you. CO-CHAIR WALTERS: 14 Greg? 15 I have nothing to add. DR. ALEXANDER: 16 CO-CHAIR WALTERS: Heather? 17 MEMBER LEWIS: Nothing to add. 18 CO-CHAIR WALTERS: Comment? 19 Mitchell? 20 DR. LEVY: But, it sounds like you're 21 not pulling the measure off of IQR. 22 So, can I just clarify? MS. O'ROURKE:

So, this would be for IQR, that could be a 1 2 condition that you could use because it's also for VBP and Hacks. So, for IOR, it would go into 3 4 RQR the form, the most recent form, correct. MEMBER SCHULTZ: And the most 5 currently endorsed version 6.0, yes, that that be 6 in IQR and then -- so it replace the current 7 version. 8 9 MS. O'ROURKE: Right. So, the 10 condition would be for a different program. 11 right now, you are in agreement of the staff's recommendation which is full support for IQR? 12 13 MEMBER SCHULTZ: For IQR version 6. 14 MS. O'ROURKE: Yes. 15 CO-CHAIR WALTERS: Vote? 16 UNKNOWN PARTICIPANT: So, if 17 everybody's okay with it, we can leave it on the 18 Consent Calendar if we all agree with that. 19 CO-CHAIR WALTERS: For the --20 UNKNOWN PARTICIPANT: I quess Leslie 21 rescinds her pull for IQR and we'll discuss the 22 conditions when we get to this for VBPN and Hack

1 RV.

CO-CHAIR WALTERS: Okay. Good. Now, we can tee up for a presentation?

MS. LEMONS: Okay, so the purpose -I'm Tara Lemons, sorry, with CMS one of the
measure leads.

And so, I'm here today to just give you a little bit of -- some background information on the episode-based payment measure concepts under consideration for the hospital value-based purchasing program which we are about to embark upon.

The clinical episode-based payment measures are designed to assess the resources used for clinically related services provided in the treatment of an episode of care.

These types of measures allows for meaningful comparisons between providers based on resource use and certain clinical conditions or procedures.

The principle goal of episode cost reporting is to encourage efficient patterns of

care. This creates identified opportunities for care coordination and improved health care affordability.

The Affordable Care Act requires

measures adopted into the hospital value-based

purchasing program to include efficiency

measures. And, currently, MSPB or the Medicare

Spending Per Beneficiary Measure is the only cost

measure in the program.

CMS is considering the role of additional cross measures for the value-based purchasing program, so we, therefore, would appreciate the MAPs careful consideration of various episode-based payment measures.

And so, the next slide, what we provided for you is a chart for you to review some of the episode-based payment measures that will be discussed and some of the complimentary quality measures that are in the value-based purchasing program or another hospital quality program.

And then, we also have measures to ---

1	and we can speak more directly to some of the
2	questions.
3	MR. AMIN: Can I ask a quick question?
4	I think Wei mentioned a bit earlier when we were
5	talking about the episode payer measures, if the
6	CMS and the measure developer can just clarify
7	whether these are as a result of an episode
8	grouper or they're just designed as episode-based
9	cost of care measures?
10	MEMBER HATLIE: I couldn't hear the
11	question.
12	MS. O'ROURKE: So, I can try to
13	paraphrase for Taroon.
14	If CMS could clarify if these measures
15	are the result of an episode grouper or they're
16	episode-based cost measures?
17	MS. SPALDING BUSH: Thanks.
18	Kim Spalding Bush from CMS.
19	So, these are episode-based cost
20	measures. I think the distinction really with
21	the terminology about episode grouper is
22	generally that those are episode-based cost

measures that are developed on the physician side.

But it's a really similar construct here where we're looking at clinically related services when we define an episode as opposed to one that is more of an all cost during a given window after a condition or procedure.

MS. O'ROURKE: So, hearing no further questions, at this time I can just begin by giving you a brief overview of the hospital value-based purchasing program.

This is a pay-for-performance program.

Medicare bases a portion of hospital

reimbursement on performance through the VBP

program. Medicare began withholding a portion of

its regular hospital reimbursements to form a

pool of VBP incentive payments. These are

increasing over time.

So, for fiscal year 2016, it's 1.75 percent. For fiscal year 2017 and the future, it will be 2 percent.

Hospitals have a chance to either earn

a penalty or a reward through this program. 1 2 to be clear, that it's not a strict reward program that you might not earn back what you put 3 4 in to fund the payment program. 5 And hospitals are scored on their performance relative either to each other or to 6 7 their performance over time. So, there is a component for improvement. 8 9 The goals of this program are to 10 improve health care quality by realigning 11 financial incentives and to provide incentive 12 payments to hospitals that meet or exceed 13 performance standards. 14 CO-CHAIR TRAVIS: Okay, well thank 15 you. 16 Since we're entering into a new 17 program, we will, operator, like to open up the 18 lines for public comment. 19 And, I would first like to see if 20 there are any public comments in the room? 21 PARTICIPANT: Thanks for the

opportunity to comment again.

At this time, on the slate of measures that you have in front of you for the VBP program, this particular comment doesn't relate to any of the measures on the list, but it's a concern that's been on the minds of our members very much over the past couple of years.

And, that relates to the pain management questions that are a part of the HCAHPS survey that constitutes part of hospital score on VBP.

And, just to be specific about what

I'm talking about, there are three questions that

get at pain management that ask whether patients

receive medicine for pain, whether they felt

their pain was well controlled during

hospitalization and whether hospitals did all

they could to control pain during the

hospitalization.

In raising the concern about this, I
want to be very clear that the AHA has been and
will remain a strong supporter of the HCAHPS
survey and of assessing hospitals on whether they

are adequately controlling the pain of patients.

That being said, there have been important questions that have been raised in the past couple of years about the interplay of these pain management questions and the increasing epidemic of prescription opioid abuse in this country.

And, just to underscore just how big a problem this is becoming nationally, the rate of drug poisoning deaths related to opioids quadrupled between 1999 and 2013. There were -- the CDC estimates that 44 people die each year as a result of opioid overdoses.

So, where does the HCAHPS fit in here?

Our members have communicated to us

that the questions included on the HCAHPS

measure, and in particular, the question that

asks whether hospitals are doing all they can to

manage pain may create some unintentional but

potential pressures to prescribe opioids.

And, since opioids do carry just by dint of what they are, the potential risk for

abuse, we are concerned about whether these questions are creating these kinds of incentives.

We think responding to the opioid abuse epidemic really does require a holistic approach that involves patients, that involves all stakeholders that have a hand in all of this.

And, we also know that there are patients that benefit enormously through the use of opioid pain relievers and we want them to continue to be able to do so.

But, we also think that given the severity of the epidemic, that it would be wise to examine those questions and see whether they need to be recrafted and to assess the potential unintended consequences of it.

And so, we would encourage you to think about making a recommendation to the CMS about reexamining these pain management questions in the HCAHPS survey, and while that happens, to consider suspending the use of the pain management questions from scoring hospitals in the VBP.

1 Thank you.

CO-CHAIR TRAVIS: Okay, thank you.

Thank you very much.

And, just to kind of remind those who are making public comments, we appreciate all comments, but given the agenda that we have today, we really need to focus the public comments on the measures that are before us to make a decision today.

There are other opportunities for public comment around some of these issues such as this and it is an important issue, but we need to be able to get through these particular --

We will have opportunity for public comment, a global public comment at the end of the day today and at the end of the day tomorrow.

So, thank you for that and we appreciate that thought process but if the others can think about trying to keep your comments to the measures under consideration for today, that will help us get through it.

So, operator, would you please see if

there are any public comments under the measures 1 2 -- for the measures under consideration for 3 value-based purchasing program that are on the 4 line? 5 Yes, ma'am. OPERATOR: At this time, if you would like to 6 7 make a comment, please press star then the number 8 one. 9 There are no comments at this time. 10 CO-CHAIR TRAVIS: Thank you, operator. 11 Okay, so we are going to go to our 12 first Consent Calendar which, as you will see has 13 four measures in it, all of which have been 14 pulled for discussion, so we no longer have a 15 Consent Calendar to approve. 16 They all are dealing with hospital 17 level risk standardized 30-day episode of care 18 payment measures. 19 One is for pneumonia, one AMI, one 20 heart failure and one for primary elective total 21 hip or total knee arthroplasty.

This reminds me a little bit of our

previous conversation where we tried to group our thoughts into looking at the approach or the payment model first and then addressing any of the particular condition specific issues after we've had that broader conversation.

I'm sure that that will probably work out pretty well because Shelley is the one that pulled all four of these measures.

So, if we, Shelley, can talk first about pulling them from the payment methodology approach and then later on if you have any clinical specific issues, we can bring those up when we get to the second part.

MEMBER FULD NASSO: Great, and I don't have -- they're not clinically based, it's more of the principle of, you know, I just wanted to have a little bit more discussion about the rationale for pulling these because it would be, I guess, double-dinging.

And, you know, I think some of these are really important in terms of, I guess my question is, for discussion is, is there a value

in really important measures in pulling them out 1 2 in addition to having them as part of these other 3 measures. 4 And, obviously, the staff recommended 5 that you to not support them, but I think that there is some value to having them reported 6 7 separately and included separately in the measure 8 in addition to as part of the more composite 9 measures. 10 CO-CHAIR TRAVIS: Thank you. 11 And, just to clarify, to be sure I'm 12 on the same page as you. Is part of your 13 discussion around the fact that the staff 14 indicated that it overlapped with the current 15 Medicare spending per beneficiary --MEMBER FULD NASSO: 16 Right. 17 CO-CHAIR TRAVIS: -- measure? Okay, 18 I just wanted to be sure in my own thinking. 19 So, thank you for that, Shelley. 20 So, we're now going to go to our lead 21 discussants. 22 David Engler?

MEMBER ENGLER: Thank you.

So, Marty and I drew the discussant straw here. And, you know, when we started looking at the measures themselves, there are now four suggested measures to be added to the one existing measure that's already out there on Medicare beneficiaries spend.

So, there are four additional measures to be added to this particular domain. The domain in this value-based purchasing category has 25 percent weight. So, it's significant.

I would also note for the committee that three out of the four measures are diagnosis-based. Okay? So, we're accumulating costs across the episode of care for 30 days from admission to 30 days later.

So, there is a cost accumulation that's done in the calculation on it.

I would also draw the committee's attention to the fact that there is the overlap between the current one measure that's in there which gave us some pause and we agree with

staff's assessment that that can cause a double, triple or quadruple dinging effect if we were to add these additional four measures to value-based purchasing.

I will agree strongly with Dolores
that the issue now and there was just a great
study that was just featured in yesterday's New
York Times, that the issue is really about price,
much more so than particular cost or payment, at
least in the non-Medicare population.

The study showed that their analysis which features very specifically on Medicare data may not always lead to the right result. But, as we do have markets out there that are dominated predominantly by large hospitals and large systems that have prices that will throw off the average price considering in comparison to what Medicare is showing on their data.

So, I just want to add that additional feature because that's a brand new study that was just released yesterday.

So, for both Marty and myself as

discussants, we agree with the staff's nonsupport for these metrics given the fact that it overlaps with the existing measure and given the fact that since they are diagnosis-based, they don't add any additional to the equation and may, in fact, wind up penalizing hospitals even further double and triple penalizing them because of the cost variation.

And, one other fact is that
historically, I think this committee has looked
at this metric before and has said that we should
not over extend or add additional measures to
this one particular cost measure.

Thanks.

CO-CHAIR TRAVIS: Marty, do you have any additional comments?

MEMBER HATLIE: Yes, I'm actually torn about this measure. I do certainly agree with David that I'm worried about double dinging. I mean if this -- for a reporting program, it's fairly easy for me to weigh in because I'm in favor of more, faster, in general.

1 Here, I am worried about the impacts 2 on hospitals, especially the hospitals that David's organization represents. I mean, I live 3 4 in Chicago. Hospitals there have not been 5 reimbursed for Medicaid since June. And there are 600 hospitals that are just running on fumes. 6 7 So, I really get that. The question here, I also know that 8 9 this is a major transformation vector for Obama

this is a major transformation vector for Obama

Care, for the Affordable Care Act. And, I want
to support the program, but I am concerned about
the double dinging that David mentioned as, you
know, maybe not being necessary if it's already
an incentive for hospitals to be paying attention
to these issues. Do we really need another set
of incentives?

So, that's where I am. I'm really interested in hearing discussion from others here because I don't really know how I'm going to vote yet.

Thank you.

CO-CHAIR TRAVIS: Okay. So, this is

10

11

12

13

14

15

16

17

18

19

20

21

when we open it up to the full committee. Any comments or questions?

Pierre?

DR. YOUNG: Thank you.

I just want to -- just teeing off of what Tara presented earlier, we would also like to hear the MAP's input. And, I think it's -- there's a grouping -- two groupings of resource use measures under consideration with this calendar and the second one.

One of the distinctions between them is this particular set, they do have accompanying quality measures. And so, that's, you know, an issue that came up earlier in the discussions of resource use measures for IQR.

So, we were also wanted to hear the committee's feedback about, you know, if we were to implement additional resource use measure into the program, what kinds of resource use measures would be appropriate?

Thank you.

CO-CHAIR TRAVIS: Okay, thank you.

Nancy?

MEMBER FOSTER: So, sorry, Pierre, I'm not going to get at your specific questions, but I have to say that it makes me nervous to think about endorsing measures for use in a value-based purchasing program before we've seen them in real life in the IQR program.

That, in fact, I believe, in part because I was part of the conversations, that when Congress passed that two-step process, they really meant for people to take a look at the function of the measure when it got into the IQR program, understand whether there were unintended consequences as there can be from some measures, understand whether there is an SDS -- a need for an SDS adjustment or other kinds of things before putting them into a program that tied measures to money.

Which, you know, one can argue that the money is not that much and, in some -- most hospitals the VBP money isn't really moving a whole lot around.

But, it's this notion that the 1 2 government is saying, we really, really want you to focus on this one or this aspect of care 3 because we've included it in a payment measure or 4 5 a payment program. So, I think we really need to think 6 7 about that as we bring measures to the MAP for inclusion in a value-based purchasing program 8 9 that we really do need at least some experience 10 with it before this group can effectively comment 11 on whether it should be included or not. 12 CO-CHAIR TRAVIS: Pierre, can you 13 clarify that for me because on prior years, 14 serving on this work group, I guess I had 15 interpreted it that it did need to be in IQR 16 before it comes into value-based purchasing. So, 17 can you clarify that, please? 18 DR. YOUNG: Sure, and that's correct, 19 Cristie. 20 So, for HVBP, hospital value-based 21 purchasing programs, specifically, we have a 22 statutory requirement that the measure be

publicly reported in Hospital Compare for at 1 2 least a year so meaning it's in the IQR program before it gets implemented into the HVBP program. 3 4 CO-CHAIR TRAVIS: So, are these 5 measures already lined up to go into IQR? DR. YOUNG: So, right. So, these 6 7 measures are in IQR already. CO-CHAIR TRAVIS: 8 Okay. So, they are 9 already and have they been publicly reported or 10 do you know? And they have been publicly 11 reported? 12 And, is there some response to Nancy's 13 concern over how these measures have performed 14 since they are in IQR and have been publicly 15 reported? Do you have experience with these 16 measures in terms of their performance and what 17 you're learning from that and as to how then it 18 would fit into the value-based purchasing 19 program? 20 PARTICIPANT: Well, I was just going 21 to comment that this measure is -- has been -- is

on Hospital Compare, has been reported on.

1	on the list for the updated cohort.
2	So, I'm not sure if your question is,
3	Nancy, that you want them to go back through IQR
4	before they come to VBP with the updated cohort?
5	CO-CHAIR TRAVIS: Okay, thank you.
6	I get it now, maybe.
7	MEMBER FOSTER: And, when we get to
8	the second set, we can talk about whether they
9	every publicly appeared or not.
LO	CO-CHAIR TRAVIS: Okay. So, in my own
L1	mind, we were thinking about all of these
L2	measures at once. When you say this measure,
L3	you're talking about pneumonia, correct?
L4	MEMBER FOSTER: Right, sorry.
L5	CO-CHAIR TRAVIS: Okay, okay, I just
L6	wanted to be on the right page.
L7	MEMBER FOSTER: Well, actually heart
L8	failure, AMI are also reported on the Hospital
L9	Compare.
20	CO-CHAIR TRAVIS: Okay, so all three
21	are currently reported to the point that we know
22	like on pneumonia that we're looking at a

different version of that measure. It's not the 1 2 new version that's out there. I would assume it's the existing version. 3 Okay. 4 MS. HAYDEN: Hi, this is Megan. So, the version that is under review 5 is the updated cohort for the pneumonia payment. 6 7 And, just to add on to what my colleagues are stating, the pneumonia, AMI and 8 9 heart failure payment measures are already 10 reported on Hospital Compare on last year's rule 11 that went out, you were -- you could have seen 12 the GI and urinary tract infection payment 13 measures as well as the THA and TKA were just 14 adopted. 15 So, these have not been publicly 16 reported as of yet, but they will be in the near 17 future. 18 So, I hope that just provides a little 19 bit more clarification and I'm happy to answer 20 any more questions that you have. 21 CO-CHAIR TRAVIS: Thank you. 22 That helped me. I hope it helped

others.

Wei?

MEMBER YING: One comment on the cost measure. I just actually, the comment on the resource use measure, there are other measures out there that basically take out the price as a factor, basically standardize the price and it becomes a sort of a utilization versus outcome ratio measure.

I'm just curious, for CMS when they develop -- when they think about resource use and knowing the price is a factor in the total cost, can they instead of bring the unit price into the picture, but actually, you're just looking at the frequency of the utilization and then pair it with the outcome. That becomes more fair and more reasonable for hospitals to look at. So that's one comment.

And the other is, in the commercial market, there is a quest for us and for consumers to see is the condition specific or procedure specific cost because they, as consumer, they

have the copay. They have the deductible. 1 2 they have to make these decisions. They can make these decisions based on this information. 3 4 So, it becomes the transparency 5 becomes true for consumers to make these educated selections in their where or what type of care 6 7 they should be given. I'm just wondering for these type of 8 9 measures, from CMS point of view, you put it on 10 the public reporting. If a consumer looks at it 11 and they don't have those pressures under the 12 copay type of arrangement, what is tell the 13 consumers? What's the value of there for public 14 reporting? 15 CO-CHAIR TRAVIS: We'd be glad to hear 16 any comments that CMS wants to make. 17 This particular, and just to kind of 18 reorient myself here, but this particular 19 calendar is for the payment, is for hospital 20 value-based purchasing program. 21 So, it is in a payment program our 22 consideration of this at this point.

measures are already in IQR at different levels of having been publicly reported. But, they are in IQR.

So, you know, certainly, we might want to come back to that kind of question about the value for IQR. But, they're already in that.

So, just kind of focusing on the fact that now we're thinking about should they go into the payment program.

Mitchell?

DR. LEVY: I'm going to ask another question. So, it would help, if you're looking for the committee to support the move from IQR into VBP, it would be helpful to know what are the data that should drive that move?

First of all, what do you -- what data do you use to want to move it into VBP? And, is it a bell curve? What are you seeing so that we would have a sense of is it a valid -- has it proved to be a valid measure and, therefore, we would support it being in VBP?

I don't know if that's a clear --

CO-CHAIR TRAVIS: Pierre?

DR. YOUNG: So, thank you for the questions.

So, I think when it comes to, this sort of references back to, I think, Nancy's question when we first opened thinking about, you know, what measures are appropriate for any particular program. I know those are made on a program by program basis.

The way we look at HVBP, we certainly don't put every measure that's in IQR into HVBP.

That would not be appropriate as there are like

70 measures in IQR.

But, we want as parsimonious a set of measures as possible in HVBP that reflect the priorities that we have identified as we discussed before including patient safety, resource use, clinical care and care coordination. And that fit within the national quality strategy.

We do look at -- want to use measures that we believe add value to the program as a

payment program that stimulates additional quality improvement by providers. Meaning that there is variation in care or variation in the quality of the providers in that measure, that we believe that there are no significant unintended consequences from using that measure.

But, that being said, you know, new information emerges as we gain more experience with the measure in a program. And, we certainly are receptive and are always looking for feedback as those experience and feedback on those measures that we use in our programs emerge.

In terms of the question about sort of assessing utilization versus price or cost, I mean I think that's -- we appreciate that feedback. Certainly, there is a statutory requirement which for a resource use measure in hospital value-based purchasing, so that's why we have the MSPB measure currently in the program.

But, it is definitely an interesting thought to sort of take out the price and really focus on the utilization.

I think there is this bigger question 1 2 that I think many folks are struggling with which is how you assess value in health care which is a 3 4 difficult question to struggle with. And, I 5 don't know that anybody -- any single person has the -- has figured that out yet but certainly 6 7 there is this sort of idea of quality and price/cost and perhaps sort of outcomes as well 8 9 in how you sort of factor all of those in in sort 10 of assessing value. 11 But, those are, right now, the 12 measures we have for utilization look at resource 13 use in terms of cost but also we have 14 utilizations such as, you know, readmissions and 15 other types and other measures. 16 CO-CHAIR TRAVIS: David, is your card 17 still up? 18 MEMBER ENGLER: Yes, thank you. 19 So, I would strongly suggest, and I'd 20 love the opportunity to engage in the 21 conversation about looking further into price in 22 particular. So, I'm really heartened to hear

that CMS is interested in looking at that as well.

The issue of the overlap between these four measures relative to the existing measure continues to sort of plague me. And, I think it historically when it was brought up before in front of MAP, there was this issue of if you are double-dipping that we were responding to, and perhaps the staff is responding to as well.

So, I wonder if you could give us a little bit more clarity if you've looked at -I'm sure you have -- if you've looked at this, given that you have AMI, heart failure and pneumonia as three of the highest volume drivers in Medicare payment, given that you have those three in these separate measures, are we really going to be picking up more cost variants or are we truly duplicating?

So, I guess I'm trying to get to whether or not you can validate the assumption that at least this person here is operating under that there is a lot of duplication and potential

1	multiple penalties because of adding these
2	additional measures to VBP?
3	Thank you.
4	CO-CHAIR TRAVIS: Any response,
5	Pierre?
6	DR. YOUNG: I mean, we have heard from
7	stakeholders before about desire for and I
8	think there are people on both sides, I think
9	we've heard that there are concerns about overlap
10	as we've discussed here.
11	We've also heard a desire for
12	additional sort of granularity that we find a
13	little more condition-specific procedure,
14	specific measures.
15	So, that's why we wanted to bring this
16	forward and wanted to get that input from the
17	group.
18	CO-CHAIR TRAVIS: Okay, Ron?
19	CO-CHAIR WALTERS: Just trying to make
20	sure I have my facts straight here.
21	So, the first three measures are
22	endorsed and have been in IQR and they're coming

up for value-based purchasing. Okay, I think 1 2 that I get. Then, knee one, the knee and hip one, 3 4 is scheduled to go in IQR, has never been 5 endorsed, never submitted for endorsement and was submitted for value-based purchasing. 6 what I'm looking at here. 7 And, I mean I didn't think that was 8 9 the way it was supposed to go. 10 Now, I understand you have a knee and 11 hip program now, so it'd be darn nice to have an 12 endorsed measure that goes with that. 13 seems to me that, again, for statutory purposes, 14 they should go through IQR -- they should be 15 endorsed, they should go through IQR then, after 16 being in IQR should go to value-based purchasing. 17 And, yet, the knee and hip one is 18 already slated for -- it says for IQR for 2018's 19 measure set. 20 Could you explain some of that? 21 MS. HAYDEN: Hi, Ron, Megan Hayden 22 here.

So, we would, of course, follow the 1 2 statute and understand that the measure is not being moved into VBP until it's publicly been --3 4 it's been publicly reported on Hospital Compare 5 for one year. We would definitely follow that. This is just a request for MAP to 6 7 weigh in on the measure concept for HVBP and that 8 would be the purpose. 9 And, it is -- and Suzannah can correct 10 me if I'm wrong, but it is slated for interest 11 submittal for an open project or has been 12 submitted at this point, I'm not sure. 13 could probably state whether it has at this 14 point. 15 But, that's just to provide a little 16 bit more clarification. 17 MS. BERNHEIM: We're just waiting for 18 a project. The measure is ready, but NQF, as 19 efficient as they are, can't evaluate every 20 measure all the time. So, we're just waiting for 21 the hip and knee project to bring it forward.

CO-CHAIR TRAVIS:

22

And, just one more

clarification for me. There is a pneumonia hospital level risk standardized 30-day episode of care payment measure in IQR, but this one that we're thinking about today, this is the one that has the updated or changed, broadened specifications to bring in the other pneumonia cases that are associated with aspiration and sepsis.

So, it's not the one we're looking at here is not the exact same one that's been on -in IQR and on Hospital Compare. It is the same
one we thought about in an earlier program for
IQR.

MS. BERNHEIM: Yes.

CO-CHAIR TRAVIS: So, I do want to -so two and three that are on here, the specs
aren't changing from the IQR to value-based
purchasing, but the specs are changing on one
from what's currently in IQR into value-based
purchasing.

So, I'm hoping that I got that right.

I see a lot of nodding heads. I'm getting

affirmation from my colleagues here. But, it can 1 2 be a little confusing. And, number four has not gone through 3 4 NQF endorsement at all. And, is slated for IQR 5 in 2018. So, do we have our facts right? 6 7 I just wanted everybody to at least have the same 8 9 Okay, let me see if I can MS. HAYDEN: 10 answer all of your questions. 11 CO-CHAIR TRAVIS: Okay. 12 MS. HAYDEN: So, the measure that you 13 are looking at for VBP, the pneumonia payment 14 measure, is the updated cohort. It is the one 15 that you just reviewed for IQR. This is the 16 version that we would prefer to go into VBP but, 17 of course, we understand that it would have to be 18 publicly displayed on Hospital Compare for one 19 year prior to that. 20 And then, I think the second question 21 you're asking whether number four is slated for

NQF endorsement. That is correct.

1	And, I apologize, was there an
2	additional question?
3	CO-CHAIR TRAVIS: Just that it's also
4	the hip and knee is has already been approved
5	to go into IQR in 2018, I think it's
6	MS. HAYDEN: Okay, sure. Let me also
7	just comment on that.
8	So, in the rule that was published
9	last year, we did adopt this measure for IQR. I
10	believe this one is going to be publicly reported
11	in July of '17, at least that was that is the
12	plan at this current point in time.
13	So, you are correct, everything on the
14	MUC list for VBP has been adopted for IQR and it
15	is some of them are pending public reporting.
16	Those would be the ones that were adopted in rule
17	last year for IQR.
18	CO-CHAIR TRAVIS: Okay, I think we've
19	got it.
20	MS. HAYDEN: And, AMI and heart
21	failure and pneumonia have all been publicly
22	reported on Hospital Compare already. Those are

the ones that have been and, again, that

pneumonia would have been the older cohort. So,

we would have had -- we will have to wait for the

updated cohort to be publicly displayed.

And, I know that's all very confusing

and hopefully everyone is on track now, but if

not, I can repeat myself.

CO-CHAIR TRAVIS: So, but you did say something I think that was very important around the pneumonia measure is that assuming everything moves forward with the new specifications, that would be publicly reported on Hospital Compare one year, collected and reported that way under the new specs prior to moving into a value-based purchasing?

MS. HAYDEN: That is correct. And, again, that was the measure that we just reviewed so that version of the measure has not been adopted into IQR at this point. So, we would have to wait on that.

CO-CHAIR TRAVIS: Okay, thank you. That was helpful to me.

So, let me go back and see where we were.

Andrea, you were next.

MEMBER BENIN: You know, I think
Mitchell brought up a good point and something
that I think we have struggled with as a group
over the years here with these programs.

And, I don't know whether this is a task for our group or whether it's a task for CMS, but the, you know, we don't have agreed upon principles for what necessarily moves things from one program to the next.

I mean, I think we've heard a couple of different things bantered around, right?

Mitchell says, well, the distribution of the data or we have, you know, understanding what the IQR performance looks like for a year or we have, you know, not double-dipping as principles that any one of us might adhere to.

But, we don't have an overarching, you know, comprehensive mental model that we all share about how to think about these things.

And, I think that that presents itself with some struggle.

And so, some kind of a framework that says, you know, this is our mental model for what moves things from one program to the other would make this feel a little more cohesive and a little like every time we do this, it's like this scattershot thing and then kind of you just vote because you got tired.

And, I think that there's -- and I think we do this like kind of year after year and these things move from one program to another without any sense of rhyme or reason. Perhaps there is rhyme or reason, but I'm sure CMS spends a lot more time thinking about it than we do.

But so, I have, as part of that comment, I would also say that, in my mind, it being in IQR for a year and so people to understand it, should be more than just it's on IQR for a year, check the box, move it to VBP.

The concept behind that, for me, would be that it's on IQR for a year so we could review

it. So, I ask that there's a little bit of time so that you could -- we would make this decision informed by being on IQR for a year, that seems to me the spirit of that concept, not like let's just check the box and move it through, because you know, we can just fill out a spreadsheet up to 2021 at this point.

And, so, I just think that a little bit of attention to thinking about a more comprehensive mental model would make this process feel more satisfying and potentially build a better product.

And, I don't know whether that information really comes from CMS, comes from NQF, comes from us as a committee, I don't know how we think about these things.

CO-CHAIR TRAVIS: Mitch?

DR. LEVY: It's kind of a natural follow up to Andrea's question. Can you help me understand how -- so, some of these measures are already in IQR, some of them are about to go into IQR. And, yet, you're asking for all of them,

for us to support going to VBP. And, yet, and you don't do that with all the measures.

So, I feel it's the same question, like some of them you're looking for the go ahead in IQR and go to VBP. And some of them are already in IQR but we're not reporting it.

So, I just would like a little more insight into how are you -- what's driving your request, all of them at once, to go into VBP as opposed to waiting until they've been in IQR and you have a sense of it and then making the request?

DR. YOUNG: Right, so in terms of implementation, we would not be able to implement a measure into HVBP until it had been publicly reported for a year in IQR.

But, I think what I hear from the comments from the MAP is suggestion to CMS that, you know, we bring forward measures for IQR and then wait until if we want to consider them for HVBP to bring them back at a later point once they've been publicly reported. That's what I've

been hearing from folks.

CO-CHAIR TRAVIS: I think you're definitely hearing that.

But, I will also -- so I want you to -- yes, I confirm that you've been hearing that.

But, I guess -- and I'll take my chair hat off for a moment -- I guess where I struggle with that, because that sounds rational to me and I understand why we would do it that way, what I struggle with is how far out in advance we have to -- you have to, actually, think about when measures will come on.

And so, if things are not publicly reported for a year until 2018 or 2019, and then we've got to take it and we've got to look at it and see whether or not it makes sense to put it into hospital -- into the value-based purchasing, I mean we are talking like 2020, 2021.

I mean I'm just -- and I think where
I struggle with that is that that's a long way
away from now to being able to use what I think
are some pretty strong levers that CMS has to

help see improvement.

And so, you know, what I think would be helpful to me is to understand maybe it's in your backpack, this is the way I would look at it, that it's in your backpack and you can use it but that there'd be some way to say, it's not ready to be used yet, you know, or the data shows there's not as much variation as we thought there was going to be so it doesn't make any sense to come into the program.

And so, I just struggle with how long, if we do a linear approach to all of this, it just pushes it so far out that we miss lots of opportunities where there are improvement opportunities.

So, you know, trying -- if you can help me understand kind of -- and it goes back to what Andrea was saying, having a mental framework and, you know, how do things progress through this, but don't take 50 years to get where we want to go.

DR. YOUNG: So, thank you, Cristie,

because I think that is one of the issues we 1 2 struggle with on the I think implementation side because of the way the HVBP program is set up, 3 4 there is a scoring methodology and there are 5 benchmarks that need to be set and met in order to earn or earn potential incentives or to -- or 6 7 not incentives, but essentially, there are benchmarks which need to be set. We need to be 8 9 able to provide notice of those benchmarks in 10 advance before we actually then score those 11 measures and count them in the performance score. 12 But, when you play that out, that does 13 put us out to 2021 even though, you know, we're 14 now in 2015. 15 But, Megan, do you have any additional 16 details that you want to share about sort of the 17 time line issues that we face? 18 MS. HAYDEN: No, I mean I think care 19 really has captured it and we do have to, of 20 course, propose a good ways out. 21 And, your input does provide us with 22 that ability to plan and to, you know, factor in

all the time lines that we work with.

So, that is why we have requested this input early in and that is helpful to us. I mean I think that also requesting you to look at, you know, multiple payment measures at the same time is really trying to get your input on, you know, if you like a particular type of measure or not, it just it does help us moving forward with the program and for planning purposes.

So, that is kind of why we are asking it even though we know that some of these measures have not been displayed on Hospital Compare, we're just trying to provide you with an overall picture of the measures that, you know, could be potentially put into the program.

And so, having that input with a whole picture would be helpful to us.

CO-CHAIR TRAVIS: Okay.

Nancy?

MEMBER FOSTER: So, Cristie, if I can bring this back to a discussion we had in the early fall or late summer, whenever we had the

conference call.

I think Andrea's comments about having a mental model make a whole lot of sense and would be very helpful to us.

But, it also speaks to the need, I think, here to get more input up front about what should be produced that would then roll into programs. And, for me, the vital signs report from the IOM, back when it was still IOM, provides some of that direction which could be further illuminated by a group such as this with a coordinating committee of the MAP.

But, I kind of end up where, I think, some people report they are this election season, which is a really -- these are the things I get to choose from? You know, where's the really good choice?

And, so helping all of us to think through and to get input from particularly patients, consumers and other payers as well as providers, but around, you know, what is it we really want to be measuring? How do we get

there? And, you know, get us all teed up so that when things are coming to us for the IQR and then for the VBP or other programs that we understand the purpose and how it links to not only what's going on in the hospital programs, but what's going on in physician and the post-acute care and the other programs because there's this sort of coordinated purpose driven set of measurement.

And, I'll get off my soapbox.

CO-CHAIR TRAVIS: Thank you, Nancy.

Michael?

DR. PHELAN: Just, you know, piggybacking on what Cristie had said, it's getting late.

Not even a mental framework, but just a framework for taking and, you know, we're saying that some of these are good for IQR. The next step should probably be the responsibility of the MAP to say, okay, it's passed the IQR, we're going to request data from CMS. Show us what it is and why you think it's still valuable to move into VBP.

I think we do a disservice by kind of piggybacking on all these things hoping, you know, well, if it's good for the IQR for a year then it's just fine.

so, I think having that idea from NQF at least and the people in NQF to say, hey, we submitted this for an IQR, we really shouldn't be piggybacking on it three years from now, we should really be looking at that data. And, it may not be this group, you know, it may be new members, but people should say, oh, they submitted that for the IQR back in 2015, oh, it was a good idea. Well, what does the data show? And is it valuable data? Does it make sense to put in the value-based purchasing not just to be this kind of follows down a path of, you know, least resistance so to speak?

CO-CHAIR TRAVIS: Thank you.

Marty?

MEMBER HATLIE: I mean, I saw a rhyme or reason to these four measures. I mean they all -- I think they were high prevalence, the

measures seemed really well developed.

I mean, I think there is something to a plan there. But, again, if we don't have it, if there's not a roadmap or something that we can see, then I think we get into the situation that you mentioned, Cristie, and that is just kicking this down the road for years and years and years and we don't want that.

So, I think a plan, a map, a framework, something like that would be really helpful to be moving things like this forward.

CO-CHAIR TRAVIS: Brock?

MR. SLABACH: Well, I think that clearly the MAP has some previous conversations advocating keeping the parsimonious set of measures for the VBP program.

And, to that end, I'm wondering why we couldn't consider a family of measures around this type with a composite being that the top line and then the dropping down to the various disease specific points.

And then, have it one measure but with

three or four different roll ups into that one measure? Because then it's not double-dinging or triple or quadruple-dinging hospitals, number one.

And, number two, it gives me, as a manager of a hospital, an understanding better about what the problems are that I'm addressing in my facility and where I can make improvement.

And so, I think that kind of ingenuity
I think is what I would like to see applied to
these kinds of measures.

CO-CHAIR TRAVIS: I'm trying to remember, I think there's a readmission measure that kind of does it that way where you actually can see -- it's the all cause, actually. I think you can actually see down at the clinical level so that it's actionable for the hospitals but it's a build-up measure.

So, thank you for your thoughts on that.

Taking off my chair hat and asking one other question to the data point which actually

we have addressed that in prior MAPs where we've wondered if things were topped out, whether there is variation.

In other words, if all these were to move into the program, would it really help the program from that perspective?

And, I think you alluded to this earlier, but for any of these four measures, is there data such that we realize there is an opportunity for improvement?

In other words, there's a gap in the performance and that there is a performance variation across facilities that would make it something we would want to incentivize improvement around?

I mean, if every is already performing at the top of their game, it's not really, from my person perspective, appropriate for this type of a program because we want to incentivize improvement.

So, I don't know if you all know that data or the results. I think you alluded to it

earlier, but if you do, if you could share that 1 2 with us, I think it would be helpful. 3 DR. YOUNG: So, that's a great 4 question and certainly it's something that we 5 look at not only when we develop measures, but also when we consider potentially implementing 6 them, what is the opportunity for improvement? 7 It's also, you know, one of the things 8 9 that the CDP process looks at, too, when they 10 consider endorsement. 11 And so, the measures -- three of these 12 measures have already been through endorsement, 13 so that have been through that scrutiny and we're 14 waiting for another -- the project to open to 15 submit the hip and knee, so it will get that 16 scrutiny, too. 17 But so, we believe that there is 18 opportunity. There is variation and opportunity 19 for improvement. 20 CO-CHAIR TRAVIS: I do think it would 21 be helpful if we start making a list of things

that next year would be helpful would be to bring

the data.

And, we've done that a couple of times in the past, but I do think that, especially when we get into these programs, we want -- I mean marrying the right measure with the right program is critical if you want to have the desired result of improvement.

So, just maybe file that away in your head that it might be helpful to have some of that data next time.

Okay, I don't --

MS. O'ROURKE: Cristie?

CO-CHAIR TRAVIS: Yes?

MS. O'ROURKE: Can I just clarify, there is data here. If you go into the preliminary analysis, you can look at a high value measure. They do provide the range on the episode of care and it ranges from 12,000 to 37,000 and they provide the mean, and they do it for all of the measures.

CO-CHAIR TRAVIS: Well, thank you very much. Another way for us to remember that we

need to use all of the resources that are at our 1 2 fingertips. So, maybe while I'm trying to get us 3 4 to a vote, you all can be taking a look. And, 5 you get to that off of the electronic guide direct. 6 7 Okay, thank you, thank you for that. Okay, I don't see any other cards up. 8 9 So, before we go to a vote, though, we did 10 indicate that if there were any clinical specific comments or questions that people had that we 11 12 would give you an opportunity to bring those up 13 as well. 14 So, does anybody have anything 15 specific for pneumonia, AMI, heart failure or hip 16 and knee? 17 Okay, well, seeing none, then I think 18 we will tee this up for a vote. 19 The polling is now open MR. TILLY: 20 for Hospital Level Risk Standardized 30-Day Episode of Care Payment Measure for Pneumonia, 21

MUC 15-378.

The options are support, conditional 1 2 support and do not support. And the results are 31 percent 3 4 support, 15 percent conditional support, 54 5 percent do not support. So, the verdict is do not support. 6 7 The polling is now open for Hospital Level Risk Standardized Payment Associated with a 8 9 30-Day Episode of Care for Acute Myocardial 10 Infarction, MUC 15-369. 11 The options are support, conditional 12 support and do not support. 13 The results are 27 percent support, 15 14 percent conditional support, 58 percent do not 15 support. 16 So, the verdict is do not support. 17 The polling is now open for Hospital 18 Level Risk Standardized Payment Associated with a 19 30-Day Episode of Care for Heart Failure, MUC 15-20 322. 21 The results are in, 27 percent 22 support, 8 percent conditional support, 65

1 percent do not support. 2 So, the verdict is do not support. The polling is now open for Hospital 3 4 Level Risk Standardized Payment Associated with 5 an Episode of Care for Primary Elective Total Hip and/or Total Knee Arthroplasty, MUC 15-295. 6 MS. SHAHAB: We need two more votes 7 8 please. 9 MR. TILLY: The votes are in, the 10 results are 19 percent support, 12 percent 11 conditional support, 69 percent do not support. 12 So, the recommendation is do not 13 support. 14 CO-CHAIR WALTERS: Okay, what we're 15 going to try to do before a short break is to get 16 the Calendar 2 done. 17 There are three measures, as you can 18 see and that they are all episode-based payment 19 So, as we have done, we'll talk about measures. 20 the concept in general and then we'll go into any 21 specific clinically relevant issues.

They were all pulled by Andrea and/or

Shelley. So, Andrea, would you talk about your 1 2 pulling of the three measures under Consent 3 Calendar 2? 4 MEMBER BENIN: I'm just thinking, I 5 didn't really realize -- I don't know what the staff recommendation was for these metrics. 6 7 CO-CHAIR WALTERS: Do not support. 8 MEMBER BENIN: Do not support, okay. 9 I will support the do not support. 10 Sorry, I thought that all the Consent Calendars 11 were all supports. 12 So, anyway, I will support the do not 13 support. I feel extremely strongly that these 14 are in IOR for 2019. We won't see the metrics 15 until then. 16 There's high likelihood when I went 17 through the details of these measure sets, we 18 could end up penalizing places that have more 19 severity when you look at the different, you 20 know, the cellulitis. When cellulitis is not cellulitis is 21 22 not cellulitis, when you look at the list of

codes that are on there, it's quite a range of 1 2 like, you know, two cellulitis to, you know, severe massive, really bad cellulitis. 3 4 And so, the costs are going to be very 5 dependent on the type of cellulitis and what is going on. 6 7 And so, I did not feel at all that for any of these three metrics that it was 8 9 appropriate to move them into a payment program 10 until we had really watched them play out in a 11 more of a just understanding of the way first. 12 So, that's what it was and I'm real 13 sorry I pulled them out now that I realize the 14 staff had already said do not support. 15 Can we revisit that if DR. PHELAN: 16 the Consent Calendar is all do not support? Can 17 we -- it's not that? Okay. 18 MS. O'ROURKE: Sorry, yes, for these. 19 I thought you meant in general. Yes, with these, 20 it's all do not support. 21 DR. PHELAN: No, but if it's all do

not support, can we -- and none of these are

1	going to be pulled out, so I don't want to pulled
2	it out and say that we
3	CO-CHAIR WALTERS: It would have been
4	nice if nobody had pulled any out.
5	Shelley, would you comment about your
6	pull out?
7	MEMBER FULD NASSO: I pulled it for
8	the same kind of discussion that we just had so I
9	can if we can rescind our pulling it out, I
10	would do that.
11	DR. PHELAN: And then, the Consent
12	Calendar vote would be for do not support,
13	correct?
14	CO-CHAIR WALTERS: You're exactly
15	correct.
16	DR. PHELAN: I may save you some time
17	here on that. I mean, unless there's someone who
18	had one of these pulled out and wants to discuss
19	it, just a thought.
20	CO-CHAIR WALTERS: The two people that
21	have done that have withdrawn. So, does anybody
22	thank you.

Does anybody else wish to pull any of 1 2 these measures out of the Consent Calendar which is do not support? 3 4 Okay, I might mention, none of the 5 measures are endorsed. 6 Okay, that was a very quick Consent 7 Calendar. Short break, I mean like five minutes. 8 9 That means ten minutes, I know. 10 (Whereupon, the above-entitled matter 11 went off the record at 3:30 p.m. and resumed at 12 3:40 p.m.) 13 CO-CHAIR TRAVIS: Okay. We're going 14 to go on and get started. And now we're looking 15 at Consent Calendar 3 for Value-Based Purchasing. 16 And just a couple of housekeeping 17 items beforehand. Unfortunately LaDonna was not 18 able to be with us. So, one of our lead 19 discussants won't be here. 20 Jeff is our other lead discussant. 21 But because we've been delayed so significantly 22 on the time from when this was supposed to come

up, Jeff does have to step out at 4:00. 1 2 So, we're going to -- wherever we are in the process, if he hasn't had an opportunity 3 4 to make his comments, we will just kind of stop 5 and let him make his comments before we proceed. And I'm sure you all will appreciate 6 And we'll do the same for you under any 7 that. similar circumstances. 8 9 So, these are three different 10 And so, we're going to take them one measures. 11 at a time. And they've all been pulled from the 12 13 Consent Calendar. So, they're all up for discussion and for a vote on each measure. 14 15 So, let's start out with Measure 16 Number 1. Which is the ACS-CDC Harmonized 17 Procedure Specific Surgical Infection Outcome 18 Measure. 19 And this was pulled by Nancy. So, 20 Nancy? 21 MEMBER FOSTER: Sorry, getting myself 22 reorganized here. So, we have discussed this

measure for inclusion in the IQR Program. And I
believe endorsed or approved it for inclusion in
the IQR Program.

But again, we're now at a point of
whether or not it should be included in valuebased purchasing without us seeing the data to

So, there were modest modifications here. But, just sort of on principle, wondered if someone could explain to me what data differences we should expect to see.

And will hospitals be able to see the results and understand how this has affected the measure they -- the measurement that they have known and loved for the last year, around this measure before it would go live if you will.

CO-CHAIR TRAVIS: Is that in the form of a question?

MEMBER FOSTER: Sorry, yes. That was in the form of a question about procedure. The second was in the form of a question about procedure, yes.

know how it works.

1 CO-CHAIR TRAVIS: Okay. Any response 2 from CMS on that? DR. YOUNG: 3 Sure. To -- the reason we put SSI on the MUC list for HVBP was similar to 4 5 why we put it on IQR. Which may be some of the ARM. 6 7 And certainly if we were to move from the SIR to the ARM, that would -- we're trying to 8 9 -- we're just having internal discussions about, 10 you know, the present concept of doing that. 11 But, certainly anything that we can 12 make do that, we would have to go through, that 13 would be substantive change and would go through 14 public comment. 15 CO-CHAIR TRAVIS: Okay. Jeff, do you 16 have any comments? 17 MEMBER JACOBS: For this one the only 18 thing I would say is I think it's good to see 19 collaboration between the CDC and the American 20 College of Surgeons. And I think that represents 21 a very important collaboration when it comes to

measuring surgical site infections.

And therefore, I'm supportive of this initiative. On that principle alone I think it merits support.

CO-CHAIR TRAVIS: And if you all will allow me, just because I'm not sure how long the discussion and the vote may take on this measure.

Jeff, do you have some comments relative to measure number two and measure number three that you want to be sure we have before you have to step out?

MEMBER JACOBS: Measure number two was the one I was really hopeful I could be involved in the dialog with. Because there's potential dialog about -- about the measurement of 30 day mortality that is similar to the dialog related to 30 day mortality that took place earlier today for management of brain injury.

so, I think that's a potentially important dialog. And the other issue related to that measure is a discussion about the fact that there's this administrative measure that looks at outcomes after CABG.

There's also a clinical measure that's 1 2 been developed by the Society of Thoracic Surgeons, which is used by 96 percent of the 3 4 adult cardiac surgical programs in the United 5 States. So, I think there's some fairly 6 important discussion that needs to take place 7 regarding measure two, around those two topics. 8 9 And then measure number three, I 10 really don't have anything important to say. 11 supportive of measure number three. 12 CO-CHAIR TRAVIS: Okay. Well, let's 13 see if we can help Jeff out and see if we go back 14 to measure number one, which is where we started. 15 Are there other comments or questions 16 from the Committee? 17 MEMBER FOSTER: I'm sorry, I'm not 18 sure if I quite understood Pierre's response. 19 So, was your -- was that an indication that in 20 fact hospitals would be able to get and the 21 public would be able to get some sense from CMS 22 about how this reconfiguration of the measure

might be expected to affect the values that get 1 2 displayed on Hospital Compare? So that they have a sense of, you 3 4 know, this may have gone up. But that's -- it's 5 to be expected because we changed the measure? Or something of that nature? 6 7 DR. YOUNG: Yes. So, I think -- and again, no decisions have been made about whether 8 9 or not to make a switch. 10 But certainly, if there is a switch, 11 we would -- one thing we are cognizant of is that 12 it can impact the -- probably impact the rates. 13 And essentially just distribution of hospitals 14 and where they're classified. 15 So, there would be a lot of, I think, 16 education and outreach we would need to do. And we acknowledge that. 17 18 CO-CHAIR TRAVIS: Thank you, Nancy. 19 Mitch? 20 DR. LEVY: Pierre, so it's just in this measure, the only change is from SIR to ARM, 21 is that correct? 22

1	DR. YOUNG: It is to accommodate. So,
2	the measure is currently calculated using the
3	SIR. But when CDC did measure maintenance, they
4	allowed an alternative way to calculate the
5	rates. Which is the ARM methodology.
6	So, this is to accommodate that.
7	Because that would be a substantive change.
8	DR. LEVY: And so, and that's what
9	I understood. But you're saying CMS hasn't made
LO	the decision yet whether to go with that?
L1	But this is this measure is saying
L2	the decision's been made, because it's a
L3	different measure. I'm not sure I am I making
L4	sense?
L5	Are we voting on the measure and then
L6	you still haven't decided at CMS whether to use
L7	it or not? Is that the idea?
L8	DR. YOUNG: Right. Because well,
L9	the measure itself is already in the program.
20	DR. LEVY: Right. Right.
21	DR. YOUNG: Right. So, I think the
22	there is still ongoing discussions internally

about whether it would be beneficial to change 1 2 the calculation methodology. And that's -- but, if we do do that, 3 4 we want to be as consistent as possible between 5 IOR and HVBP. DR. LEVY: And so are we voting on 6 7 is this measure already in VBP? And all we're voting on is the change from SIR -- the reporting 8 9 methodology? Right. That's what I thought. 10 Okay. 11 DR. YOUNG: Yes. It's already in SSI. 12 The NHS and SSI measures are already in the 13 program. 14 CO-CHAIR TRAVIS: Thank you for that 15 clarification. Any other comments or questions? 16 (No response) 17 CO-CHAIR TRAVIS: Okay. I'm going to 18 take that, that that means we're ready to vote on 19 this measure. 20 MR. TILLY: The polling is now open 21 for ACS-CDC Harmonized Procedure Specific 22 Surgical Site Infection Outcome Measure, MUC 15-

1	535. The options are support, conditional
2	support, and do not support.
3	It looks like we need just three more.
4	So if you guys want to give it another shot.
5	Okay, so the results are 58 percent
6	support. Thirty-three percent conditional
7	support. Eight percent do not support.
8	So, the recommendation is conditional
9	support.
10	MS. MITCHELL: We have a late voter.
11	MS. O'ROURKE: We're not ready yet.
12	MS. MITCHELL: Yes, give Jean-Luc a
13	minute to reset the poll and we'll
14	Oh, okay. We knew we have another
15	rejoining. So, we'll revote. We've got another
16	vote, so. We'll revote on
17	MR. TILLY: So, the polling is back
18	open for ACS-CDC Harmonized Procedure Specific
19	Surgical Site Infection Outcome Measure, MUC 15-
20	534.
21	And we're missing just three
22	responses. And now we're missing just one

1 response. Oh, there we go. 2 Okay, so the results are 58 percent Thirty-five percent conditional 3 support. 4 And eight percent do not support. support. 5 So the verdict is conditional support. MS. O'ROURKE: And just to make sure 6 7 I heard the conditions correctly. So they would be pending NQF annual update. 8 9 And that the measure is put in through 10 the program all in the proper statutorily path --11 or statutory path versus the IQR. Then publicly 12 And then to VBP. With education. reported. 13 MEMBER JACOBS: Yes, I know that 14 there's two NQF endorsed measures regarding 15 mortality after coronary artery bypass grafting. 16 One -- and they're actually developed jointly 17 between the Society of Thoracic Surgeons and CMS 18 as a collaborative initiative. 19 So, my disclosure is that I was 20 involved in the development of both of them. 21 Because they were developed jointly. 22 That being said, it surprises me that

one of them is here and one's not when they're both NQF endorsed companion measures. And it seems that they both should be there.

The second issue that may come up is that I've heard previously criticisms about after coronary artery bypass grafting, a 30-day mortality measure is problematic because it perversely incentivizes providers to keep a patient alive until day 31.

And that topic may or may not come up.

But, I think one of the advantages of the measure

from the clinical registry, from the STS

Registry, is that it eliminates that as a

problem.

Because the end point is not 30 days. But operative mortality, which is defined as the union of 30 days plus survival, or lack of survival at discharge.

So, the measure then becomes is the patient alive at the time of going home? And eliminates potential incentive to keep somebody alive to day 31 just to meet the metric. And

it's a matter of being alive and well enough to 1 2 be discharged. So, I think those are two potential 3 4 The main issue is, I wonder why only one topics. 5 of those measures is here and not both of them? Thank you, Jeff. 6 CO-CHAIR TRAVIS: 7 Any thoughts, Pierre, while he's in the room? And thank you for 8 DR. YOUNG: Sure. 9 those questions. And thank you also for working 10 with the collaboration on development of those 11 measures. 12 And I just want to confirm, but I 13 believe the STS version is a registry-based 14 measure. And so that was a big limitation for us 15 on the hospital side. 16 Because we do not have the ability to 17 permit registry-based reporting for hospitals. 18 So, we are limited to claims-based measures, the 19 HR measures and chart abstraction. 20 MEMBER JACOBS: So this is a registry 21 that has 96 percent penetrance in the country.

The only hospitals that don't participate are a

few VA hospitals.

So, it was surprising. But I guess registry-based measures even with 96 percent penetrance are not a candidate for utilization.

I'm sorry, I've said -- I said it -the registry is a registry used by 96 percent of
the hospitals in the country. And only not used
really by VA hospitals.

But, I guess if the issues are that registry-based measures, even if they have complete -- almost complete penetrance in the country, are non-candidates, then that issue about why that's not here is really a moot point.

The other issue though remains with the challenge of using an endpoint of 30 day mortality. And I don't know how to address that.

Because I've heard the issue raised that that creates an incentive to keep a patient alive until 31 days to comply with the measure.

And you can do that after a coronary bypass with a tracheostomy and a peg and a variety of other things.

That's why an endpoint of operative mortality, which is survival to discharge from the hospital eliminates that perverse incentive. So, that's kind of a problem with an isolated 30-day mortality measure versus survival to discharge that, you know, as a cardiac surgeon, I'm fairly sensitive to that.

And I'm not sure how to address that if the endpoint is just 30 day mortality.

CO-CHAIR TRAVIS: All right. Other thoughts or comments from the work group on this measure? And Sean was the one to pull it, so you're next.

DR. MORRISON: Yes, I just wanted to echo what Jeff said for -- and two data points.

The first is actually data from two very large programs, including one of mine.

Where the average time to palliative care consultation and serious complications following discharge for all surgeries except for cardiothoracic runs around ten days post op. For the cardiothoracic group, it's in the mid 30s.

So, if you want a look at what's the perverse incentive, it's significantly longer in the cardiothoracic group, which this measure is.

And when you look at focus groups with the cardiothoracic surgeons, they are very concerned about that. It is -- this is what's driving it.

The second is, the Joint Commission just came in, certified our group yesterday. And when the comment that came out over and over was, this is a national issue when every palliative care program they are certifying, where does palliative care not get involved? It's in cardiothoracic surgery.

Now one can argue that there's something very specific about cardiothoracic surgeons versus the other surgical world. But I would also suggest that it is this issue, the 30-day mortality.

Jeff, I don't know what to do about it. I think this really -- mortality following -- bypass surgery, is a big issue. It's one we should be doing.

But I think we should be aware that 1 2 there really are perverse incentives around the 30 day number. 3 4 MEMBER JACOBS: Yes. I'd like to make 5 one more comment on that. I think if the endpoint has changed to survival to discharge 6 from the hospital, it eliminates the perverse 7 incentive to keep somebody alive until 31 days. 8 9 And there's no doubt that mortality 10 after heart surgery is an extremely important 11 metric. Because risk adjusted mortality after 12 heart surgery has substantial variation across 13 programs. 14 For any form of heart surgery. 15 Whether it's coronary artery bypass grafting, or 16 pediatric heart surgery. And therefore, it's a 17 very important metric to follow because there's 18 variation. 19 And there's opportunities for 20 improvement. But, if the endpoint is just 30 21 days, it's problematic.

Most heart surgeons track 30 day

mortality, discharge mortality, and then use a 1 2 term called operative mortality, which is the union of both. And that term, operative 3 4 mortality, is a form of mortality that eliminates 5 incentivization just to keep somebody alive for 31 days to meet a metric. 6 7 And that's the answer. But that answer's not part of this measure. And that 8 9 makes it somewhat challenging. 10 I'm supportive in general of the 11 administrative measure from CMS because we helped develop it. But, I think that the 30-day 12 13 endpoint is somewhat limited. 14 And I'm sorry I have to step back 15 because I have a 4:00 p.m. phone conference with 16 a patient's family that I just cannot miss. 17 CO-CHAIR TRAVIS: Thank you, Jeff. 18 Michael? 19 DR. PHELAN: I think all these 20 measures can potentially be perversely 21 incentivized. Survival to discharge from the

hospital, well, they'll just move people to a

SNF, and then that could happen.

So, I think they all have that. I would really love to see multiple measures in there. And end up being a composite. But as a first step, I think this is not a bad way to go to support the move forward with it.

Just my thoughts.

CO-CHAIR TRAVIS: Any other comments?

Yes, oh Jeff -- that's Jeff's card. Would

somebody put that down so I won't keep looking at

it? Thank you.

I'm going to take my chair hat off for just a moment. And I have a feeling that I've said this in prior years at the MAP.

I guess I find it extremely disturbing and disappointing to think that the provider community would actually react to an incentive, and actually keep a patient alive one extra day in order to have their metrics look better.

And I hear that type of comment every year when we come in here. And quite honestly, I really question whether it's true.

I know that there's -- where Jeff was saying there is some evidence, maybe it's just that I don't want it to be true.

But, I think that what that shows for us isn't necessarily that the measure is wrong, but that there is something wrong in the provider community. Because their first responsibility is to the patient.

And I think that we always are kind of trying to take it away from the measure, when I think the reality of the situation is if there are providers who are treating their patients in this way, I can't think of anybody who would agree with that. Even probably the providers who it appears must be doing that.

So, that's my soapbox. Of course, which I think I can be counted on once a year at least, to bring up in front of everybody.

But, I think that it's not assigning

-- it's not making the measure a bad measure. I

think it's actually reflecting on the provider

community.

And if indeed this is what is 1 2 happening in the provider community, I would expect the provider community to do a better job 3 of policing itself. And shining the light on 4 5 people who are doing this. And it's not appropriate. 6 Because I 7 can't imagine keeping somebody alive, and say okay, well, it's 31 days. You know, the hour's 8 9 hit. You know, now we can let them die. 10 I just -- that entire thing just 11 disturbs me and disappoints me. So, enough said. 12 I am sure. 13 So, thank you for letting me say that. 14 (Laughter) 15 CO-CHAIR TRAVIS: I think it is time. 16 I think that was -- Wei, did you have something 17 to say? 18 MEMBER YING: Yes. This is not the first standardized mortality measure for VBP, 19 20 right? Currently is there a similar measure in 21 there already? 22 This is not the first standardized,

risk standardized measure mortality to be 1 2 considered for VBP Program, right? Currently in VBP, do they already have a same type of measure 3 just for different clinical condition? 4 MS. HAYDEN: That's right. We have a 5 -- the AMI and pneumonia mortality measures in 6 7 the program. MEMBER YING: Right. So, that's what 8 9 I thought. If we didn't -- well, the 30-day 10 issue didn't become an issue at the time I think 11 for this round. 12 Understanding it will be some desired 13 reaction from the provider community. Even maybe isolated. But still then it should not be an 14 15 issue preventing us from thinking this is a 16 measure, important measure to be included into 17 the VBP program. 18 CO-CHAIR TRAVIS: Thank you, Wei. 19 Tom? 20 MEMBER LUTZOW: Yes. My question has to do -- and certainly, I mean, I am against 21 22 perversity wherever it exists. Whether in

measures or in human behavior.

But, we have pretty much control over the measure, don't we? I mean, isn't it -- can't it be redesigned so that we don't have to worry about perversity in human behavior?

Is it so sacred that, you know is it one of the Commandments and we can't take it out?

Or is it something less important than one of the Ten Commandments?

CO-CHAIR TRAVIS: I'm going to assume that was a comment, not a question.

(Laughter)

CO-CHAIR TRAVIS: Sean?

DR. MORRISON: Cristie, I look forward to that comment every year. But, as somebody who monthly meets with the surgeons and goes through every single mortality, I do -- I wish that was the case.

I wish that providers would do that.

But the reality is, they're under so much

pressure that this is just -- the lightbulb goes

off at 30 days.

And you know, what's the difference 1 2 between 14 days or 30 days or 35? You know, and in their mind well, 30 days is a realistic amount 3 4 of time. 5 And I would argue that for some patients it is. For some it's not. And this is 6 7 going to drive their behavior whether we like it 8 or not. 9 But, I do appreciate the comment every 10 year. 11 CO-CHAIR TRAVIS: Thank you. And I 12 think you make your same response to me every 13 year. 14 So, this is our discussion, Sean. 15 Thank you so much for having that. Nancy? 16 MEMBER FOSTER: So, a measure not yet 17 on Hospital Compare. So, not up for a year. 18 can't really look at variation in performance and 19 know what it means one way or the other. 20 And I'm -- I was trying to glean, and 21 I'm sorry Jeff had to leave the room. Though his 22 priorities are in the right spot.

I'm trying to understand, are there 1 2 outcomes that are more important? Is there a better construct of the outcome that would give 3 us more valuable information? 4 And give patients and families who are 5 trying to understand these data, more important 6 7 information than 30 day mortality. Which 30 day is an arbitrary cutoff by anybody's tally. 8 9 So, I don't know that. I would 10 appreciate clinical input on whether there is 11 something better. 12 And I suspect Jeff would probably be 13 the best clinician to give that to me. But, I'm 14 -- but Sean, you have your fingers deeply into 15 this. 16 And Mitch? Michael? I -- you know, 17 somebody help me here, please. 18 CO-CHAIR TRAVIS: Oh, come on. 19 Somebody needs to help Nancy. Any answers to her 20 concerns? Or comments around them? 21 PARTICIPANT: If I may, just to 22 clarify. The measure was publicly released or

1	publicly reported in July of this year.
2	So, it is on Hospital Compare. And it
3	
4	CO-CHAIR TRAVIS: Thank you. And
5	Mitch?
6	DR. LEVY: Yes, I mean, this has been
7	publicly reported for a long time. I do think in
8	this case mortality is a good quality indicator.
9	I think, Nancy, I think there are
LO	others. Long term functioning, et cetera, et
L1	cetera. There's no question that there are other
L2	measures.
L3	But, if I were going to a cardiac
L4	surgeon, I would definitely want to know what his
L5	30-day mortality is. Given the fact and I
L6	work in a medical ICU, and at 31 days, I get
L7	these folks.
L8	Because then they don't well, for
L9	reasons that Sean knows. But I still think 30
20	day mortality is a really good quality indicator.
21	MS. MARINELARENA: And I think what
22	Jeff was saving, one of the measures is the one.

the STS measure, which he talked about, you know, survival at discharge. Which that measure exists.

But, because of the data source, it can't be used in this program. So, if we want to make a statement about that, maybe encourage a different data source or something like that.

That's certainly something that we could include in our report.

CO-CHAIR TRAVIS: Michael?

DR. PHELAN: I agree, it's what we got. You know, it's a measure we got.

But, I don't think it's unreasonable to put a comment in there that there are other measures out there in good data registries that according to Jeff and every other surgeon I know, the STS Registry, I mean, that is the gold standard of registries that I'm aware of.

And to not use it for whatever reason, and there may be, you know, data quality issues and stuff like that. But, I'm like really? We got a phenomenal data registry that's got 96

percent penetrance.

Maybe we can get 100 percent if they mandated it. But, to use that data registry for other measures like the survival to discharge and the -- what was the other one he mentioned? So the mortality and the survival to discharge.

But, having a composite measure of all the things that revolve around that, I think patients -- I think it would benefit patients to see that.

CO-CHAIR TRAVIS: Leslie?

MEMBER SCHULTZ: Well, this pales in comparison to the perverse incentive to keep people alive. The current measure I don't believe is fully adjusted for SDS either.

CO-CHAIR TRAVIS: Thank you. Oh, Ann Marie put her card down. I forget who -- oh, did you want to say something Ann Marie?

DR. SULLIVAN: Yes. Just to add that I think we could make a recommendation that the other measures that the physician was recommending could be added to this. If you

think that would be some kind of precautionary 1 2 measure that would stop people from just spreading the mortality out for 30 days. 3 4 And then we have many measures that 5 have like one or two things associated with them. So, we could make a recommendation that you add 6 7 something like survival to whatever, discharge. That kind of thing. 8 9 So, I think that, you know, you could 10 make that recommendation. And then if you have 11 that, you kind of can still see what the, you 12 know, you could prevent the kind of perverse 13 incentives. 14 So, maybe we could make that 15 recommendation in addition. 16 CO-CHAIR TRAVIS: You all are 17 capturing some of these thoughts? 18 MS. O'ROURKE: Yes. 19 CO-CHAIR TRAVIS: Thank you. Thank 20 you, Ann Marie. Heather? 21 MEMBER LEWIS: Just to state something 22 quite obvious. We have other measures where

we're using ER -- EHR information. 1 2 Is there any reason why we couldn't 3 use EHR discharge status as an indicator? Rather 4 than the SDS data point? 5 CO-CHAIR TRAVIS: I think that was a question for CMS to think about. I don't know if 6 7 you have a comment now or whether it's just something you want to consider. 8 9 DR. YOUNG: Yes. Thank you. We'll 10 take that under consideration. 11 CO-CHAIR TRAVIS: And I apologize. Ι 12 may not be getting everybody in order. But, I 13 had Andrea next. 14 MEMBER BENIN: I mean, what I'm 15 hearing from this conversation really is that 16 the, you know, the metric is in IQR, which satisfies I think Mitchell's comment and 17 18 Michael's comment that we would, as consumers, be 19 able to see the data. 20 And then I think in order to avoid the 21 financial penalties that cause some of the

problems with the metric, it makes sense in my

mind not to put this into value-based purchasing, 1 2 which adds these additional financial penalties, which are real for the hospitals and for the 3 4 providers involved. 5 So, to my mind, this is one of those situations where if we understood really well 6 what our criteria were for one program versus the 7 other, it would be helpful. 8 9 But, we already are in a situation 10 where there's complete transparency around this So, that's not up for discussion. 11 metric. What's up for discussion is, do we add 12 13 another financial penalty to a metric that we've 14 already ascertained is being perversely impacted 15 by just transparency alone, let alone adding 16 financial penalty. 17 So, I think that to my mind, it seems 18 pretty clear that that's maybe not the best idea 19 based on this discussion. 20 CO-CHAIR TRAVIS: Mitchell? 21 DR. LEVY: So, two things. One, a lot

of these recommendations, we're bordering on

trying to create another measure. 1 2 And so I just want to -- I would -we're not talking about making this conditional. 3 4 Because our suggestions are suggestions for other 5 measures to be developed. Right? So, because we're weighing in 6 7 on this measure. And then the second thing I would say, 8 9 is I guess I disagree. Although I understand the 10 perverse incentives that this creates, I do not 11 feel it outweighs the benefit of making this in 12 VPB. 13 I think that drives -- I think that 14 drives quality. And I do think that this is a 15 good measure. 16 And there is always going to be gaming 17 that goes on. But I don't think that outweighs 18 the value of holding people accountable and 19 keeping their feet to the fire by putting them in 20 VPB. 21 CO-CHAIR TRAVIS: Helen? 22 MEMBER HASKELL: Yes, I just -- I

think, you know, from the beginning, the heart surgeons have always said that they shouldn't be measured because they will game the measures.

And I think that I assume, I've always assumed that one reason for the 30-day measure was because that's a little more difficult to game then survival to discharge. Because you did use discharge to a skilled nursing facility.

So, I think it's fine to suggest, you know, additional measures. And look at them as composites.

But I certainly don't think getting rid of 30 days is any kind of answer.

MS. MARINELARENA: And if you look in the preliminary analysis summary, the last bill that impacts on quality of care for patients, we do provide a summary of the performance rates from Hospital Compare.

So, if you look, what we have is that there was a mean rate of 3.2 percent with a range from 1.5 to 7.9 percent. And then the developer found a median rate of 3 percent.

So, that the 25th and 75th percentiles
are 2.6 and 3.6 respectively. So, we do have
data on the performance of this measure.

CO-CHAIR TRAVIS: Thank you for
pointing that out, of course. I'm taking my co-

pointing that out, of course. I'm taking my cochair hat off for a moment. I'm not seeing any other cards.

I too kind of, you know, think that no matter what the measure is, there's probably a way to game it in some form or fashion, to Helen's point.

And I also though do support us giving some commentary to CMS around some of the things that we've talked about today that could perhaps ultimately result in a better way of doing this.

But, given, you know, where we are in this measure, my tendency is to support it. But, I think we would have an unintended consequence discussion around every measure that could come up.

I mean, you could discharge somebody early out of the hospital to get to discharge

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

them while they are alive. So, I mean, and then 1 2 we'd be having that discussion, that that's a perverse incentive to discharge people early. 3 4 So, you know, that's just kind of 5 where I'm standing on the measure. So, any other comments before we move to a vote? 6 7 (No response) I think we're 8 CO-CHAIR TRAVIS: Okay. 9 ready. 10 MR. TILLY: All right. The polling is 11 now open for Hospital 30-Day, All-Cause, Risk 12 Standardized Mortality Rate Following Coronary 13 Artery Bypass Graft Surgery, MUC 15-395. The 14 options are support, conditional support, and do 15 not support. So the results are in. Seventy-six 16 17 percent support. Eight percent conditional 18 support. And 16 percent do not support. 19 So, the recommendation is to support. 20 CO-CHAIR TRAVIS: All right. Thank 21 you all very much. And now we'll move to the third measure in this Calendar. 22

And it's the Patient Safety for Selected Indicators/AHRQ Patient Safety Indicator Composite, affectionately known as PSI-90. And this was originally pulled by Nancy Foster.

So, Nancy?

MEMBER FOSTER: We have just talked about this for the IQR Program. And so, the question of whether the revised version ought to be moved into VBP or not, was what was on my mind.

And, you know, understanding exactly what's the difference here. And the other thing is, and I've spared you this stump speech this far, but PSI-90 is not our idea of a reliable measure when done on the Medicare data.

This version of it seems to be slightly better. But the real problem with the measure is in what would -- I'm sure Dan would tell me, is case finding.

It is that you cannot identify in any of these things through the claims data. There is plenty of evidence out there to that effect,

including probably the seminal article by David

Klassen and colleagues written several years ago
that appeared in Health Affairs.

I have seen recent data from one of
our major systems that suggests that when they
looked at their claims data for one of these

went back and used their electronic health record to look for those events, they found many, many

measures, they identified one event. When they

more of the same events, as in more than tenfold

So, it is that level of inaccurate.

And we need to get to a better measure. We just simply need to get to a better measure.

So, this is a step forward. A small step forward in making a better measure. But, it's still not where we need to be.

CO-CHAIR TRAVIS: And just to be clear, what would be your recommendation?

MEMBER FOSTER: I would recommend conditional support for this. And that condition would be that hospitals be given information on

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

more.

the difference between this measure and the old 1 2 measure. And be able to understand the impact 3 4 prior to it going live in the VBP Program. 5 Thank you, Nancy. CO-CHAIR TRAVIS: Jeff's not with us. But I think he indicated his 6 7 support for the measure. So, I'll open it up to the work group. 8 9 Helen? 10 MEMBER HASKELL: Well, I think the 11 consumer group strongly supports this measure. 12 It's the basis for most public reporting that's 13 done on hospitals. 14 The measure has been considerably 15 It -- and I would say, you know, the 16 components in it are much weaker than they have 17 been. 18 I think the issue that people are not 19 honestly or accurately billing Medicare, is a 20 whole different issue from whether this should be 21 measured on that. I think the problem is

elsewhere.

	so, that's my comment. And also, the
2	you know, people are now beginning to game
3	this measure as well. And have been for a while
4	so that they are going through the records and,
5	you know, and looking at things that could be
6	construed as something that would be part of PSI-
7	90.
8	So, I think you will soon find that
9	the records will agree more with the claims.
10	Whether that's a good thing or not is up for
11	debate. But, I think that's what's happening.
12	CO-CHAIR TRAVIS: Thank you, Helen.
13	Leslie?
14	MEMBER SCHULTZ: I'm going to concur
15	with Nancy. And would recommend conditional.
16	I think we need to see it and get
17	experience with it in IQR before we put it into
18	VBP. Because we don't know what kind of
19	information, actionable information variation
20	we're getting yet. Too soon.
21	CO-CHAIR TRAVIS: Thank you, Leslie.
22	Mitchell?

DR. LEVY: So, I would speak out 1 2 strongly in favor of this. I totally understand what Nancy's saying about the difficulty in 3 4 identifying some of these. 5 But, I think that would be true across I think these -- each of these the board. 6 represents where safety is. 7 There are iatrogenic conditions, I 8 9 think the addition of the exclusion criteria for 10 present on mission really helps this metric. 11 has to go into IQR first anyway. 12 And this is the kind of measure that 13 I would like to see facilitated. So, 14 recommending it now for VBP, knowing that it has 15 to go into IQR first, there's so much face 16 validity to the -- to the individual elements in this measure in terms of avoidable complications 17 18 and patient safety that I find it very compelling 19 to support this. 20 CO-CHAIR TRAVIS: Thank you. Yes? 21 DR. POLLOCK: So, to Mitchell's point, 22 I would say there are many different adverse

events of course that are included in this composite I think that speak to -- there's one associated blood stream infection component of this composite.

And there are numerous studies of under ascertainment in the use discharge diagnostic data to identify some of the associated blood stream infection events.

So, while I think we would all agree that the events included in this composite measure merit quality reporting, there are alternative ways for at least some of these adverse events in terms of ascertaining whether an event occurred.

CO-CHAIR TRAVIS: Thank you. Any other thoughts? Andrea?

MEMBER BENIN: I mean, I will say that
I have been bothered by this metric for years for
all of the reasons that are stated. That any
time you really dig into it and either try to
validate it in your own place, or look at some of
the studies that have been put out there, the

individual components don't validate well.

And then the idea that by somehow combining them together makes it mathematically stronger, I've never entirely understood. But, I think in addition to that, this idea of transitioning to ICD-10 with a set of -- with a metric that we're already not 100 percent clear of how well it actually foots to reality.

And then we're now going to change up our entire coding bases that is based on -- and are we just going to do that on a cross walk? Or is that going to need to be revalidated, is suspect to me.

Especially for this purpose. I think that until it's really been properly vetted in an ICD-10 environment, until some of the considerations that Dan had mentioned are taken into consideration, I find it hard to support this at least for years.

CO-CHAIR TRAVIS: Marty?

MEMBER HATLIE: I mean, this measure's been talked about for so long, it's taken a long

time to get it here. I think it's just a really 1 2 important statement to the hospital community about where safety is now important is all. 3 4 And I think it's just very important 5 we build it into this program in particular. It's a very strong recommend. 6 And it's never going to be perfect. 7 But I think it still has value. Great value. 8 9 CO-CHAIR TRAVIS: Thank you. Michael? 10 I still conditionally DR. PHELAN: 11 support the metric. But I continue to have grave 12 concerns about some of the methodology that the 13 data is attributable to. 14 And whether or not it actually has any 15 valid quality programs that come out of it. 16 like the pressure ulcer measure. 17 But, I think there still needs to be 18 work done around some of the undifferentiated 19 pressure ulcers that -- how they categorize them. 20 But, it is really difficult not to have a measure 21 in this space on patient safety.

And there currently isn't anything

better. That they're kind of stuck with the person they brought to the dance, so to speak.

But, I would like to make sure that there is more work done on the waiting and the understanding of some of the biases associated with the measure.

And whether or not it's impactful or not, really concerns me. Because from what I hear from the hospital communities that I deal with, is yes, we just do it to report that.

That's not where our focus is. We're focusing on improving DVT prophylaxis. We're focusing on this.

So, I'm wonder if the measure themselves, although they look good and it's important to publicly report them, if it's not having the impact that we actually need to have, I think we need to put some serious consideration in what are the next generation of measures going to come out there.

And, does it need to be in a composite format the way this is? Are there more

individualized measures that we can select from that could replace or be a better -- that actually addresses some of the concerns that people have around patient safety in a hospital setting.

CO-CHAIR TRAVIS: Dolores?

MS. MITCHELL: Just a small point on the issue of composite measures. In a way we're trapped with wanting to have our cake and eat it too.

Everybody has said, oh, people don't use the measures because there are so many of them. And there are so many that are so highly technical that they don't give you the big picture.

We've got to have families of measures. We've got to have composite measures. The fact of the matter is, if you're going to have composite measures, they are going to include some things that you like less well then you like other components.

It's just an inevitable outcome of

having composite measures. So, since we -- most 1 2 of ours are in fact rather discrete. It seems to me appropriate to have some that are composites. 3 4 And in the safety field, I think 5 that's particularly acute. So, I'm in favor of supporting it. 6 CO-CHAIR TRAVIS: 7 Thank you. Oh, I 8 can't tell, is that yours, David? Okay. 9 MEMBER ENGLER: Yes. So, I've had 10 some practical experience about doing this. 11 number of years ago, I published a paper in a community in Columbus, Ohio that put together a 12 13 community of harm index based upon composite 14 measures. 15 And all the hospitals in that 16 community are placed into the index, these 17 various measures of harm. And it -- in addition, 18 they worked on the individual measures for the 19 quality comparison purposes in performance 20 improvement. 21 And it was incredibly impactful.

medical leaders and the infection control

practitioners got together and started really 1 2 paying a great of attention to the level of harm in the community. This is community based. 3 4 So, imagine a situation where you 5 could spread that kind of view of composite harm across the country. And you know, I'm a very big 6 believer and have spent a long time in my career 7 moving harm down to zero. 8 9 And I think it can occur. And I think 10 this is yet a wonderful tool. And I'm not 11 usually very supportive of multiple measures. 12 But, I think this is a very 13 interesting opportunity to do that. And I've 14 seen it work. 15 CO-CHAIR TRAVIS: Thank you. Nancy? 16 MEMBER FOSTER: So, I want to join 17 with David and respond to Dolores' comment. This 18 is really not about it being a composite per se. 19 In my ideal world, we'd be at an all 20 cause harm measure generated out of electronic 21 health records. Where you have sufficient data

to really look at what happened to the patient.

Know -- and know better whether it was caused during the hospitalization, something the patient came in with. Something much more reliable then what we've got right now.

There are such things under development. Some in testing. I'm really looking forward to the day when we can talk about that kind of measurement.

But, when you -- with regard to this measure, it's really ten things that don't test out very well as individual components that get rolled together in a sort of the kind of ten wrongs make a right kind of philosophy.

And that -- it just doesn't quite work. And the lack of validity and reliability when people go back and do it, Andrea was talking about, and try and match this to their clinical records, means that it doesn't have the kind of credibility among the clinical world that is needed to really generate quality improvement.

And so, for me this -- and it's also data that are now two years old by the time you

So, it's trying to drive safety, the 1 get them. 2 critically important issue of safety, by looking in a rearview mirror a couple of miles back. 3 4 And it's just not working right. 5 That's my issue with this measure. CO-CHAIR TRAVIS: Dolores? 6 7 MS. MITCHELL: I just have to say, you know, it's been 15 years or going on to 16 since 8 9 To Err is Human was released. And my 10 understanding is that the data show that in fact 11 our statistics have not gotten any better. 12 In fact, they've gotten worse. 13 seems to me anything we can do is worth the shot. 14 Even if it's imperfect, as is life. 15 It's my brain at this hour of the day. 16 DR. OWENS: This is Pamela from the 17 Agency for Healthcare Research and Quality. 18 everybody's spoken in the room, I'd like to say 19 something about the measure. 20 CO-CHAIR TRAVIS: Okay. Thank you. 21 Wei? 22 I haven't looked at the MEMBER YING:

details of this new measure. In the previous

version, two of the -- two indicators among this

whole set was heavily weighted.

At the time for us, we had concerns,

At the time for us, we had concerns,

I mean, for our organization, we had the concern
that if only two out of say, seven or eight
indicators were heavily weighted, then there -basically hospitals can cherry pick.

They basic -- if they say, oh, I do -I can pick up a couple of measures that have the
greater impact of the composite, then we just
work on that.

But, then because it's a composite measure, and when the consumer looks at it, they basically say, oh, this is a safer hospital.

That may not be the truth if they are only good at those two heavily weighted ones.

So, I just wonder, can the developer or CMS comment in this newer version whether this is still an issue?

CO-CHAIR TRAVIS: Well, perhaps that's a good segue to Pamela on the phone, who just

indicated she did want to have an opportunity to 1 2 make some comments. So, if you can take that last question 3 4 into account in your comments, we would 5 appreciate it. Absolutely. 6 DR. OWENS: So, in terms 7 of Andrea's comments regarding the conversion to ICD-10, I think this applies to all claims-based 8 9 measures. 10 In terms of the comments regarding two 11 year old data, again, this applies to all claimsbased measures. And so, you may have a larger 12 13 issue with those things. But, it's not specific 14 to PSI-90. 15 I will tell you this, PSI-90's 16 building blocks are largely the same as the 17 previous PSI-90. Which is in HPVP as well as in 18 the HAC reduction. 19 This one has been redesigned. And we 20 would consider this a substantial change, which 21 is why you're seeing this now.

It has been substantially changed

based on user feedback and stakeholders that are involved in NQF. And now is a composite of ten indicators.

The previous version was eight indicators. And no longer includes PSI-7, so to the point of the -- measure that there are other ways of measuring it, that's true.

And CDC does have a PSI-7 measure that in the HAC reduction is part of the composite.

And -- or Class C is part of the HAC reduction composite.

And so we've taken PSI-7 out of it.

We have significantly looked at PSI-12 and PSI-15

to state specifically, I believe, to what Nancy
is talking about, and Andrea is talking about,
regarding validation.

And going back to what the medical records and our own studies of medical records versus the claims data, and specified the indicators so that it is much more precise.

There, you know, in terms of PSI-12, we respecified to omit the isolated calf vein

DVTs from the numerator. We omitted patients with any diagnosis of acute brain and/or spinal injuries in the denominator just to give you some indication.

The other significant -- one of the most significant differences between the pervious version of PSI-90 and the current version of PSI-90 is the harms weighting. So, there are two components to the weight now.

It used to be just volume weights.

And now it's harms weights. And the harms
weights are based upon estimates of excess harms
associated with patient safety events.

And we gather this information specifically from CMS, Medicare fee-for-service data. And then we have the volume weights as well.

In terms of how the weights turn out,

I think where you were concerned particularly

about PSI-15 had a large component of the weight.

Which is -- it has been redesigned. But it was

the accidental puncture measure.

It's now unrecognized abdominal pelvic accidental puncture laceration rate. Just -- detailed there.

And, I think your other one was the concern was PSI-12, which is the perioperative pulmonary embolism and deep vein thrombosis. And as I mentioned, we respecified those particular indicators so that they're much more precise.

The weights now for PSI-15 is less than one percent. And the weight for PSI-12 is only 18 percent in the new weighting scheme.

The new composite includes three additional indicators that were not in the previous one. That includes perioperative hemorrhage and hematoma rate, post-operative acute kidney injury, and post-operative respiratory failure rate.

In terms of the overall signal to noise ratio reliability, it is computed to be .768. I don't know what it is in the Medicare fee-for-service data.

And I know Nancy, you are particularly

1	interested in it. The memo that I think you're			
2	thinking about, is actually pretty dated now. I			
3	know those measures are not at all what the			
4	measures are that are in the composite.			
5	We have recalibrated PSI-90 so that it			
6	is calibrated to Medicare fee-for-service data in			
7	terms of the parameter estimates that go into it,			
8	et cetera.			
9	I hope that gives a broad brush stroke			
LO	of the indicator. If you have questions, I'm			
L1	happy to answer them.			
L2	CO-CHAIR TRAVIS: Thank you. Any			
L3	questions or any additional comments from the			
L4	Workgroup?			
L5	MEMBER HASKELL: I have a question			
L6	Pam. Maybe I missed it.			
L7	But, what percentage of the weighting			
L8	is pressure ulcers now?			
L9	DR. OWENS: Pressure ulcers is now 3.6			
20	percent. It was 3.3 percent. So, it didn't			
21	change that much.			
22	CO-CHAIR TRAVIS: Okay. Looks like			

1 we're ready for a vote. 2 MR. TILLY: The polling is now open 3 for Patient Safety for Selected Indicators/AHRO 4 Patient Safety Indicator Composite, MUC15-604. 5 The options are support, conditional support, and do not support. 6 7 (Voting) MR. TILLY: And the results are 68 8 9 percent support. Twenty-four percent conditional 10 support. And eight percent do not support. 11 So, the recommendation is support. 12 CO-CHAIR WALTERS: Okay. How's 13 everybody holding up? We are going to move 14 cancer to tomorrow and just finish out the day 15 with HAC. 16 So, Zehra will give an overview of the 17 HAC Program. 18 MS. SHAHAB: So, I'll be brief. 19 I just wanted to give a quick overview. 20 So, HAC provides incentives for 21 hospitals to reduce the number of HACs, which are

Hospital Acquired Conditions. This is both a pay

for performance and public reporting program.

HAC scores are reported on the
Hospital Compare website since December 2014.
The incentive structure for this program is that
25 percent of hospitals that have the highest
rate of HACs will have their Medicare payments
reduced by one percent.

And the measures in this program are classified according to two domains. One is the PS -- Domain One, which includes PSI-90. And then Domain Two, which includes CDC's National Health Safety Network.

The HAC program goals include to increase the awareness of HACs, eliminate the incidents of these HACs, and improve patient outcomes and the costs of care by reducing the HACs.

And there's two measures on the

Consent Calendar for this. One is an update to a

measure currently in the program. And one is

PSI-90 that we just discussed.

So, before we go into the Consent

Washington DC

1	Calendar, we're going to open for public comment
2	on this program.
3	CO-CHAIR WALTERS: Is there any public
4	comment in the room?
5	(No response)
6	CO-CHAIR WALTERS: They're asleep. Is
7	there any public comment on the phone?
8	OPERATOR: Okay. At this time, if you
9	would like to make a comment, please press star
10	then the number one.
11	(No response)
12	OPERATOR: There are no comments at
13	this time.
14	CO-CHAIR WALTERS: Okay. As you can
15	see, there's two measures. One of them is the
16	so far a lot discussed, the SSI measure, which is
17	being applied to this program.
18	being applied to this program. That was not pulled by anyone. And so
18	That was not pulled by anyone. And so
18 19	That was not pulled by anyone. And so currently would be the only measure on a consent

of the issues we've talked about all day long. 1 2 Is there anybody that wants to pull that measure? 3 4 (No response) CO-CHAIR WALTERS: Good. 5 The second measure has also been 6 7 discussed a few times today. And it's the PSI-90 8 again. Was pulled by Nancy. 9 So, Nancy, would you comment on that? 10 I actually have no MEMBER FOSTER: 11 different comments than previously. But, I would 12 just ask that if we do move this forward, that 13 indeed relative to the conversation we've just 14 had and the information from Pam, I suspect there 15 will be significant shifts in how hospital 16 performance appears on this measure, versus the 17 old PSI-90. 18 And that, as we have discussed 19 previously, it would be very useful if CMS would 20 provide some educational information, both for

hospitals, and then subsequently for all the rest

of the public who will be watching this measure,

21

to understand what those shifts mean. 1 2 And whether they are actually reflect a difference in performance at the hospital, 3 which would be hard on this one to know. 4 Or are really reflective of the 5 differences in the measure itself. 6 7 CO-CHAIR WALTERS: First lead discussant is Mitchell. 8 9 DR. LEVY: So, we just finished 10 talking about both of these. I don't have 11 anything to add. 12 Certainly they qualify as HAC 13 And the recommendation from staff was measures. 14 conditional support and support. 15 And I agree with both of those for the 16 reasons I stated on the previous measures in 17 discussion. 18 CO-CHAIR WALTERS: The recommendation from staff on this one was support. 19 20 DR. LEVY: The first one was 21 conditional support, no? And then the second one 22 was support.

1	CO-CHAIR WALTERS: Yes, that's
2	correct.
3	DR. LEVY: Yes. I'm sorry, that's
4	what I said, but
5	CO-CHAIR WALTERS: Yes. Brock?
6	MEMBER SLABACH: Yes, I just echo some
7	of the things that Nancy said. I mean, the
8	degree difficulty here is increasing as we move
9	this into a program that's going to have
10	increasing penalties for hospitals.
11	And I think that by having this
12	reported in IQR and then the information related
13	to hospitals for training and improvement, would
14	be very important before it's put into a penalty
15	program.
16	CO-CHAIR WALTERS: Okay. Open for
17	comment. Andrea?
18	MEMBER BENIN: So, I guess I'm
19	wondering, does this metric even really qualify
20	as the same metric? Can it just be the same
21	metric with all of these changes in addition?
22	And just get the same name? And I

1	mean, is that
2	MS. MARINELARENA: They did change the
3	name as well.
4	MEMBER BENIN: It's not called PSI-90
5	anymore?
6	MS. MARINELARENA: No, now it is
7	called they've changed it to the Patient
8	Safety and Adverse Support Events Composite.
9	MEMBER BENIN: But, I'm just saying,
10	it's getting treated like it was there all along.
11	But, it's actually a totally different metric
12	that we think is going to have totally different
13	performance.
14	I'm just not super comfortable with
15	this anyway. I think that it's a different
16	metric. And we're just treating it like it was
17	the same metric.
18	It has different components in it. It
19	has different weighting. I mean, it's not really
20	
21	CO-CHAIR WALTERS: PSI-90.
22	MEMBER BENIN: PSI-90 I guess it's

PSI-90 point whatever. But, it's -- I mean, it's 1 2 like PSI-90. I think that there is some -- it's 3 4 sort of inherent unfairness to just calling this 5 thing PSI-90 and passing it through as it were. I mean, we can vote on it like it is. 6 7 But I think that CMS should take into consideration perhaps rebranding it. Or whatever 8 9 it is, in a way that kind of makes it clear that 10 this is different. 11 I mean, if I were going to do this in 12 my place, you wouldn't just show this on a run 13 chart or whatever. And say, oh, here's been our 14 performance. 15 And now whoopsie, here's our 16 performance. And you put all those little arrows 17 on it that explains to the board why the thing is 18 now totally different. 19 I mean, this is like it's a different 20 metric is what I'm hearing. And so, it's not how 21 I would use it. 22 I mean, I wouldn't -- we don't use

this metric anyway because of it's sort of lack 1 2 of value. But, regardless, if I were to use it, I wouldn't just try to -- and try to bill it to a 3 bunch of doctors as the same old metric. 4 5 It just doesn't -- there's nothing about it that has sort of face validity to me. 6 7 So, I guess I would just say maybe there's a way in the packaging of it that can address the fact 8 that it is a little bit different. 9 10 CO-CHAIR WALTERS: Mitchell? DR. LEVY: Again, my understanding 11 12 from the last discussion is this does go back 13 into IQR first. Is that correct? 14 And so, that's not what's happening, 15 I think it's being repackaged and 16 retested in IQR. 17 So, what we're voting on is whether 18 after it goes through IQR again, whether we're 19 recommending first DPB, and now the HAC program. 20 So, I do see that as very different 21 than just passing it off as the same old thing. 22 MS. MARINELARENA: And I think one

thing to take into consideration is that right 1 2 now there are two versions of PSI-90 floating So, maybe the end goal would be to get 3 around. 4 all versions into all the programs. 5 Because the first one had, I believe, Then it went to eleven. 6 eight components. 7 now we're at ten. So, think of that as the goal as well. 8 9 CO-CHAIR WALTERS: Would you clarify 10 too, I don't -- I think that while it has to be 11 in IQR and for a year to go through value-based 12 purchasing. Is that true of HAC also? 13 believe so. No. 14 MS. MARINELARENA: And again, it's 15 already in HAC, so you would be reporting a 16 different version of this measure. 17 MEMBER FOSTER: To Andrea's point, 18 it's not in HAC. It's not in IQR. It's not in 19 VBP. 20 It will be in IQR. Because this is a 21 different measure. It has some of the same 22 components, but it's a different measure.

1	CO-CHAIR WALTERS: Michael?
2	DR. PHELAN: To the same question that
3	we had about another previous measure. If we
4	support it for going into IQR, then evaluating
5	it, it seems like we're doing multiple tasks on a
6	measure before we have the actual data to support
7	moving forward with some of the other programs
8	that it belongs into.
9	Because we don't have any data to base
10	it on. And I agree 100 percent with Adrian
11	Andrea, the same
12	MEMBER BENIN: I think one of these
13	days you'll get it.
14	DR. PHELAN: One of these days I'll
15	get it.
16	MEMBER BENIN: Maybe tomorrow.
17	DR. PHELAN: But, the same issue of
18	this, repackaging these repackaging of metrics
19	where they completely change the whole I keep
20	on thinking of it as PSI-90.
21	But, it's not PSI-90 anymore. From
22	what we've heard, there's five or six new

measures that are in there. 1 2 The weighting is completely different. So the idea that this just the same measure and 3 4 we need to support it and move forward, concerns 5 me. CO-CHAIR WALTERS: I think that's the 6 7 first time that's come up all day. Renaming it. Any other discussion? 8 9 (No response) 10 CO-CHAIR WALTERS: Ready for a vote? 11 So, what would you recommend it be? Support, 12 conditional support, do not support? 13 Either one of you, or anybody that 14 wants to talk. 15 DR. PHELAN: Do not support until we 16 have the data. 17 MR. AMIN: Ron, can I just get one 18 piece of clarification here, Erin actually? Can 19 you clarify if this is a version that's been 20 reviewed? 21 This updated version is the one that 22 was reviewed by the Patient Safety Committee just

1	this last year. And just confirm?
2	Because this version in question
3	that's come up, just what is the endorsed
4	version? And what was the conclusion of the
5	standing committee on this particular version?
6	Because, you know, there are updates
7	to measures. That does happen. That is
8	something we see. It's not limited to just this
9	issue.
10	But, we need to at least get clarity
11	on what it is that's endorsed in terms of
12	version.
13	MEMBER BENIN: I mean, I think the
14	bigger burden
15	DR. OWENS: So, the sense the
16	pending indicator I know is the endorsed version.
17	The indicator item the indicator composite is
18	no longer endorsed.
19	So, the one you're voting on right now
20	is the endorsed version that went all the way
21	through CSAC two weeks ago. Or one week ago.
22	MEMBER BENIN: I think the bigger

problem then, and this is probably what Pamela is thinking about, is that the -- then it leaves you with HAC, with what we all agree to be a substandard PSI-90 in it.

And we've always felt it to be substandard PSI-90. So, if we don't have this version, then we leave HAC in its debilitated state versus sort of adding this measure.

You know what I mean, it's like we're saying that this other measure is not as good as the new one. I mean, it's a little bit of a catch-22, unless -- because I don't think we have the ability to say that we don't want the old.

Like it's a little bit complicated.

And I don't know whether our job is just to vote straight on that since we don't have the ability to go back to the old one.

Unless we're saying, I do not support this PSI-90. Does the old one go away, too? Or the old ones stays, right. Because it's a different metric.

So, the problem is that it's not so

1	clear what to vote do you see what I'm getting			
2	at here? Does that make sense?			
3	So, I don't know about			
4	MR. AMIN: Well, the vote in front of			
5	you is, let's just be clear, I mean, the vote in			
6	front of you is clear.			
7	It is to decide about this composite			
8	for this program. What CMS does with the old			
9	composite is another question.			
LO	And that's not really in front of you			
L1	at this moment.			
L2	MEMBER BENIN: Right. That's sort of			
L3	a problem.			
L 4	MR. AMIN: I mean, you should vote on			
L5	this one for this program. That's the question			
L6	in hand.			
L7	MEMBER BENIN: So, but if we don't			
L8	support this, the old ones stays is the problem.			
L9	MR. AMIN: Well, that's up to CMS.			
20	MEMBER BENIN: We don't know. That's			
21	up to CMS. Okay. All right. Okay.			
22	MR. AMIN: We're not commenting on			

finalized measures that are currently in the program. I mean, that -- we could have a whole conversation about that.

But, yes, that's, you know, let's all

-- the principal question at hand is this

measure, as this version two, or whatever we want

to call it, of PSI-90, for this program. That's

the question.

And it is the version that was reviewed by the NQF's Patient Safety Committee.

And it was just most recently -- most recently went through CSAC.

So, I just wanted to give you that update because it is updated based on what was in your discussion guide.

MEMBER FOSTER: But I think, Taroon, rather that Andrea's point was performance on this will shift a great deal. It will have both the effect of meaning that hospitals who thought they were very safe before at -- will now discover that they have -- they're in the HAC penalty area and looking bad.

More importantly then getting the penalty, they'll be on the list of the hospitals that CMS considers the worst in the country.

Which is how all the headlines read.

Which is devastating to a hospital.

So, you can't just tell them 30 days in advance,
hey by the way, you know, all that performance
you thought you knew about, well, we've got a new
version of the measure. And now you look really
bad.

You need to give them more opportunity to see how the measure functions, what it means for them. What they can do about it so that they can respond more effectively to the new measure in ways that -- it's to the reason you have a public reporting before you pull it into a payment program.

Is you want to be able to give people an opportunity to understand and use the measure.

And I'm with you, Andrea.

I don't -- if this is a better version of what used to be PSI-90, I think I kind of want

it used in HAC more than I want the old ugly 1 2 version. But, I don't want the surprise. So, that's the dilemma. 3 CO-CHAIR TRAVIS: Ron called on me. 4 5 He might not know it. No, I'm just kidding. did call on me. 6 7 So, I -- you know, I think that that is a good question. Because any time you 8 9 essentially swap out, that's what we're doing, 10 we're swapping out a measure. Then the 11 performance on that measure could change -- that part of it could change substantially for 12 13 individual hospitals. 14 So, to that point, what would be the 15 earliest state that you think this -- if you all 16 decided to move forward with it, what would be 17 the earliest state? 18 And why type of preparation would you 19 be providing, what kind of information in 20 advance? And not just 30 days in advance, but in 21 advance, for hospitals to be able to understand

the differences so that -- and I don't know

whether they're probably given everything. 1 2 There's probably not enough time for them to go around making changes to everything. 3 4 But, I guess I'm just trying to think about the 5 -- how they would have an opportunity to know far enough in advance to where perhaps they could 6 7 begin to tweak some of their internal improvement efforts to understand, you know, where they're 8 9 going to be on this measure. 10 So, just kind of understanding that 11 sequence would be helpful to me. 12 DR. YOUNG: So, I always need to draw 13 this out. Because the timelines are never quite 14 -- I'm sorry? Oh, I'm sorry. 15 Yes, the time line question's a good 16 one. But, it's complicated as you know. 17

So, theoretically, we could propose it in this upcoming rule cycle for the FY17 IPPS rule. But, we've already finalized the measures for FY16, and I believe FY17 as well.

So, I would have to double check.

But, probably FY18 or beyond is my guess. But

18

19

20

21

would need to double check those timelines. 1 2 CO-CHAIR TRAVIS: Just as a follow up. Is there any process for doing, I guess you all 3 4 might call it a dry-run or something, against --5 with the new specs early? So that hospitals could have the 6 7 benefit of understanding at least, you know, if you'll be using the new specs, where they would 8 9 have fallen? And they can see the difference 10 between the existing measure and that one? 11 I'm just trying to understand how far 12 in advance they could actually understand how 13 they would perform on these measures. So they 14 could do something for improvement. 15 DR. YOUNG: Right. And so thank you 16 for that suggestion. We can definitely talk 17 about this internally and think it through what 18 the options might be in terms of educating 19 hospitals and sort of sharing the results with --20 under the new calculation of the composite. 21 CO-CHAIR WALTERS: Dolores? 22 MS. MITCHELL: Well, I don't mean to

do CMS's work for them. But, it does seem to me, or I should say, I find it very hard to believe that the measures that are changed, are changed to go in an opposite direction.

So that the concerns that Nancy has raised, which, you know, might be reasonable, should not really worry her that much. In other words, if cutting off the wrong leg last year was a terrible thing to do, but this year it's fine, go right ahead, then you've got a real problem.

Because that -- but, if they are in fact gradations of, or changing the formula so that the cut points were a little different, or I would assume, some of the changes came as a result of what happened in the past year or two.

And that were brought to their attention by the hospitals themselves, so that they would, from their point of view in fact, see that it was a net gain.

So, could you give us some kind of an idea when you say -- you or Pam or whoever, that this isn't your old PS, whatever it -- 90, or

whatever it is. But, it's a newer, better, and 1 2 you're going to like it better? Or, you know, if you were a C minus 3 4 last year, you're going to be an A plus this 5 year, or vice versa? 6 DR. YOUNG: Pam, are you on? 7 want to address that? DR. OWENS: Well, from a sort of a 8 9 methodologic approach, I mean, we can sort of say 10 -- do that. Because that is an interesting 11 scenario. 12 But, it's just that each of these 13 indicators within the composite are basically --14 we took away the noise in terms of making it just 15 a much more precise measure. 16 I would expect hospitals to shift. 17 How they shift within the HAC reduction, that's 18 actually quite a complicated question. 19 Because, remember PSI-90 is just one I think it's Domain -- is it Domain 20 component. 21 One or Domain Two? 22 But, it's only a small percentage

relative to the entire composite. But then there's the whole other domain.

So, it's hard for me to assess which way hospitals are going to go. I know that's something we are looking at carefully.

I'm sure CMS is looking at it carefully. We don't, you know, we don't typically run it on Medicare fee-for-service data ourselves.

But, I don't know, Pierre, if you want to think about it from a program standpoint.

DR. YOUNG: Right. So, we are certainly from the CMS. So, we do look at the -- and are cognizant that there can be changes in sort of the hospital -- the distribution in where hospitals are classified.

And we do do internal analyses as we are thinking about implementing measures and updates to measures. In the program, we're looking at how that affects, you know, which hospitals get penalized and how that affects the distribution.

1 So, I mean, we do do those analyses 2 and sort of think about them before implementing them. 3 4 CO-CHAIR WALTERS: Dolores? 5 MS. MITCHELL: -- performance of -evaluations of physicians. And we have very 6 carefully, as we make each year's changes, tested 7 to make sure that there isn't motion -- movement 8 9 from Tier One to Tier Three, or from Tier Three 10 to Tier One. 11 Understanding that there will be 12 changes between Tier One and Tier Two. 13 between -- to that, Tier Three and Tier Two. 14 that going from an A plus to a D minus is just 15 not acceptable. And if we can do it with our bench 16 17 strength of -- well, we don't have any actuaries. 18 That's where we're ahead of you. 19 But, sorry if I insulted anybody. 20 But, I mean, I just don't know if the scenario 21 that Nancy's worried about is in fact a likely 22 outcome.

And I gather from what you've both 1 2 said, that that's not in fact likely to happen. CO-CHAIR WALTERS: 3 Marty? 4 MEMBER HATLIE: Dolores, it's actually 5 been 16 years since the IOM Report. It was November 30, 1999. 6 7 And I think as a country, we have just dragged our feet in coming up with a composite 8 9 I think that the fear of hospitals measure. 10 being embarrassed is just not enough of a rationale to drag our feet anymore. 11 I mean, CMS got serious about 12 13 eliminating HACs. They're expediting action. 14 I would hope that if this composite 15 measure is so bad, it will just incentivize all 16 of us. Especially the hospital who needed to 17 work on coming up with a better measure. 18 I just don't think we can afford to 19 drag our feet anymore on this. It's just been 20 too long. 21 We've been too tolerant of too much 22 harm in our healthcare system.

It sounds like your 1 CO-CHAIR WALTERS: 2 recommendation is a support? 3 MEMBER HATLIE: It is a support. 4 Thank you. 5 CO-CHAIR WALTERS: Did I see Nancy over here? Oh, Ann Marie. 6 7 DR. SULLIVAN: You know, I -- before I was in the position I'm in now, I was running a 8 9 couple of hospitals. 10 And I think one of the problems is 11 that the hospitals work very hard on the quality 12 measures for what they're going to either get 13 dinged for, or what they're going to get praised, 14 you know, money for. 15 But the reality is if you're really 16 going to -- which is I think partly why we 17 haven't moved so far. Because I think hospitals 18 have to get used to the fact that they're going 19 to have to do quality across the board. 20 And it's not just the particular 21 indicators. That we have to use something to measure and something to pay for. 22

1 But, you can't depend on that. You've 2 got to say that my quality agenda has to be wide and broad and deep. 3 4 And I think we're getting there. But, 5 we're not there yet. So, I think the panic that hospitals still have when something changes, is 6 7 yes, I'm not going to look so good. But, ultimately, if they're not 8 9 looking good in whatever is now the new thing, 10 then there's a problem. And they should be 11 facing that and thinking of it in an ongoing 12 basis. 13 So, I think we're at a point of 14 evolution here for hospitals. Hopefully, we will 15 get to the point where quality in everything is 16 kind of important, so we move that agenda. 17 Which it has not moved. Partly I 18 think because we still get too bogged down in the 19 very specifics. Right now that's where we are. 20 Good. 21 But, that's why I'm not too much in 22 favor of saying, you know, this is going to be

too hard for hospitals. I think they have to face the facts that if they have serious problems with these issues, they've got problems with these issues and whether they've got to fix them and fix them relatively quickly.

CO-CHAIR WALTERS: What is your

CO-CHAIR WALTERS: What is your recommendation?

DR. SULLIVAN: For.

CO-CHAIR WALTERS: Jack?

DR. FOWLER: Yes, it seems like also, we're not here to micromanage with CMS, which we can't do anyway. And I mean, mainly my understanding is there are -- what we're supposed to do is say whether we think it would be a good idea to have this measure as one of the measures that was figured into the HAC program.

And that will count about three percent, I think that she said, of the final score. So, it seems to me I could vote on whether this is a good idea or not from that context.

And I think it is a good idea.

1	CO-CHAIR WALTERS: All right. Any				
2	other comments?				
3	(No response)				
4	CO-CHAIR WALTERS: Okay. Let's vote.				
5	MR. TILLY: Polling is now open on				
6	Patient Safety and Adverse Events Composite,				
7	MUC15-604. The options are support, conditional				
8	support, and do not support.				
9	(Voting)				
10	MR. TILLY: And the results are 73				
11	percent support. Twenty-three percent				
12	conditional support. Four percent do not				
13	support.				
14	The recommendation is support.				
15	CO-CHAIR WALTERS: So, at this time,				
16	we want to open up the lines again for public				
17	comment. And take any comments from the room in				
18	general, about anything discussed today.				
19	(No response)				
20	CO-CHAIR WALTERS: How about on the				
21	phone?				
22	OPERATOR: Once again, to make a				

1	comment, please press star then the number one.
2	(No response)
3	OPERATOR: There are no public
4	comments.
5	CO-CHAIR WALTERS: Thank you. Thank
6	you again, for everybody for their patience.
7	We've actually made up a lot of ground this
8	afternoon.
9	Looking forward to tomorrow again,
10	breakfast is at 8:30. We'll start at 9:00 unless
11	that's changed.
12	We'll redo the agenda probably a
13	little bit. But, this is what you do, right?
14	Cancer, probably it probably will
15	be first. There's five measures of which one's
16	been pulled. Then Renal has seven measures of
17	which three have been pulled.
18	All except one now. It changes
19	hourly, yes. OQR has two measures. Both of
20	which have been pulled.
21	ASC has one measure which was pulled.
22	And the psychiatric core measures has two. One

of which has been pulled, unless that's changed. 1 2 We've had a -- we'll see how time 3 We had a request to do psychiatric maybe a qoes. little different timing -- or a little different 4 5 sequence as some people are going to be leaving. But, I think as long as we come 6 prepared to get through. I think, as everybody 7 knows, the bulk of the work was today. 8 9 And a lot of good work and discussion 10 There was a lot of good views went on today. 11 about some very important things. 12 So, thank you again. And I certainly 13 appreciate all your involvement. Cristie? 14 CO-CHAIR TRAVIS: Oh. Nothing other 15 than thank you from my perspective. And I look 16 forward to seeing you all tomorrow. 17 Please do come back. 18 (Whereupon, the above-entitled matter 19 went off the record at 5:04 p.m.) 20 21 22

	1	1	I
Α	159:7 161:3 169:14	373:6 375:12 404:11	221:5,17,19 224:7
\$10,000 9:14	169:16 171:4 244:16	add-on 198:5	227:8,11,20 239:17
\$190 189:10,17	accountable 50:21	added 142:17 177:13	250:20 251:13,17
\$3 177:7	87:21 95:11 120:8	187:11 265:15 274:1	268:18 269:14 283:12
a.m 1:9 6:2 173:9	376:18	299:5,9 372:22	304:16
abdominal 398:1	accrue 127:18	adding 41:16 186:21	adjustments 197:18
abdominals 207:3	accumulated 95:2	227:7 273:21,22	205:19
ability 61:18 76:5 84:17	accumulating 299:14	284:3 316:1 375:15	administer 170:10,11
88:18 95:6 132:18	accumulation 299:17	413:8	administration 158:21
153:4 259:7 329:22	accuracy 119:15	addition 29:19 90:5	administrative 263:5
357:16 413:13,16	134:21	226:1 279:6 280:20	349:21 362:11
able 24:3 30:12 31:2	accurate 76:1 124:19	298:2,8 373:15 384:9	administrator 15:4
36:10 42:6 65:21 87:5	125:22 203:11	386:5 390:17 405:21	admission 197:13
119:20 120:18 129:7	accurately 125:13	additional 46:7 52:18	202:1 258:22 259:6
130:13,14 131:9	205:8 258:1 382:19	62:7 66:18 68:8 90:7	299:16
138:6 145:5 147:14	ACEP's 22:15	122:4 144:11 159:20	admissions 155:9,10
152:20 172:6 181:1	achieving 247:18	160:2 161:3 172:19	239:3
186:13 191:13 234:11	acknowledge 80:9	172:21 198:3 211:3	Admissions/Readmi
241:4 266:12 279:19	351:17	217:7 220:12 224:3	10:15
294:10 295:13 326:14	ACO 95:8 97:4	273:6 288:11 299:8	admit 220:22 279:2
327:21 329:9 345:18	ACOG 137:13,14,15	300:3,19 301:5,12,16	admitted 278:14
347:12 350:20,21	145:18 146:3	303:18 313:1 316:2	admonition 33:11
374:19 382:3 416:18	Acquired 5:9,17 400:22	316:12 321:2 329:15	adopt 321:9
417:21	ACS 110:3 114:1	375:2 377:10 398:13	adopted 46:8 288:5
above-entitled 173:8	ACS-CDC 115:11	399:13	308:14 321:14,16
240:7 345:10 430:18	346:16 353:21 354:18	additionally 32:13	322:19
absolute 54:11	act 92:14 133:9 205:22	187:14	adoption 18:18 73:16
absolutely 34:5,16 42:7	288:4 302:10	additive 279:10	Adrian 410:10
43:1 52:4 271:4 395:6	action 424:13	address 40:8 54:17	adult 79:17 80:17 106:5
abstain 192:12	actionable 157:17	93:22 104:12,15	121:3 350:4
abstentions 66:16	335:17 383:19	121:9 122:5 143:11	adults 136:3
abstraction 124:16	active 18:10 113:2	158:10 160:6 162:15	advance 105:1 187:12
357:19	activities 17:12,13	163:5,16 175:6	268:7 274:2 327:10
abuse 293:6 294:1,4	34:21 84:2 189:1 activity 84:3	179:14 184:7 190:17 191:7,16 204:8,11	329:10 416:6 417:20
accept 45:21 62:17	actual 113:11 150:16	236:12 249:1 256:5	417:20,21 418:6 419:12
107:6	155:21 163:16 184:11	267:22 358:16 359:8	Advancing 240:16
acceptable 423:15	186:9 231:17 265:19	408:8 421:7	advantages 356:11
acceptance 250:2	410:6	addressed 50:1 162:18	advartages 330.11 adverse 23:18 132:14
accepted 62:16	actuaries 190:10	208:6 336:1	384:22 385:13 406:8
accepting 62:12	423:17	addresses 40:4 132:12	428:6
access 136:9 143:1,2	acuity 153:8	170:8 236:19 389:3	advertising 93:12
192:4 218:16	Acumen 202:2 206:21	addressing 297:3 335:7	advice 154:17
accessed 204:6 accidental 397:22	acute 195:5 243:14	adds 138:3 375:2	advise 236:15
398:2	266:22 268:16 269:12	adequately 293:1	advisor 14:5 18:22
accidentally 57:16	280:17 281:8 282:22	adhere 323:19	advocacy 14:14
accommodate 352:1,6	340:9 390:5 397:2	adherence 23:19	advocating 156:11,13
accommodation 112:7	398:16	adjudicate 255:16	159:6,8 334:15
accompanied 39:13	acute-care 83:22	adjust 155:6 220:17	Affairs 381:3
80:9	ad 225:11	245:12	affect 39:4 189:22
accompanying 303:12	add 37:19 44:16 53:9	adjusted 197:15 198:11	192:4 204:2 205:3
account 197:7 257:1	70:11 109:16 112:15	233:4,11,17 234:9	272:5 275:17,17
258:1,21 259:8 395:4	116:12 120:16 138:12	242:22 260:5 361:11	351:1
accountability 82:1	140:7 183:21 217:7	372:15	affectionately 80:20
86:17 87:2,14 94:4	224:9 249:6 252:9	adjustment 110:5 151:8	380:3
105:3 133:12,14	275:11 285:15,17	151:17 194:17,20,22	affirmation 320:1
137:12 153:1,21	300:3,19 301:4,12	196:22 197:5 218:1	afford 424:18
154:16 156:6,12	308:7 312:22 372:19	218:10,12,14,19	affordability 177:20
	I	I	I

II.	i	ı	i
179:2 198:20 288:3	121:1 249:4 271:16	422:17 423:1	156:16 163:17
Affordable 92:13 288:4	274:22 285:15	analysis 37:21 43:5	anticipated 246:10
302:10	algorithm 55:10	44:10,10,13,14 55:4	antimicrobial 23:17
afraid 71:12 165:10	align 223:11	59:17 60:3,8 61:9	150:12 151:21 153:16
AFT 2:1 11:2 261:12	aligned 49:19 204:18	62:13 64:4,9 199:12	154:9 156:19,22
aftermath 113:5	225:8	200:12 205:21 233:22	158:5,7 159:3 163:11
afternoon 11:1 181:1	aligning 35:2 37:6	236:1,2 300:11	164:17 169:18,22
429:8	alignment 32:8 36:18	338:16 377:15	170:2,14,18 171:12
age 139:8 197:10	36:19 40:5 52:7 55:1	analyst 2:19 27:17	Antimicrobial-Resist
agency 2:9 18:16 34:4	187:2,8 216:21	analytics 87:16	162:21
189:14 393:17	aligns 256:17,18	analyzing 221:8	antimicrobials 170:10
agenda 19:1 57:20	alive 243:18 252:5	and/or 341:6,22 397:2	170:12
61:14 62:2 107:5	356:9,20,22 357:1	Anderson 10:20	antsy 150:8
117:20 189:22 192:7	1		
	358:19 361:8 362:5	Andrea 1:12 12:14,16	anybody 9:19 30:17 79:8 93:2 144:6 185:7
193:14,15 277:4	363:18 365:7 372:14 379:1	12:22 79:20 86:9 88:15,20 109:14	204:14 241:20 269:20
295:6 426:2,16 429:12	All-Cause 379:11	1	275:17 284:12 314:5
-		120:14 129:6 130:2	
agents 156:20 157:7 158:7	allegiance 141:6	135:13,13 136:18	339:14 344:21 345:1
aggregate 157:9,10,16	Allen 1:18 13:7,9,19 46:1	150:13 151:20 155:4 194:5 196:15 209:4	364:13 403:2 411:13 423:19
aggressive 91:4	Allen's 48:11	214:22 215:2,12	anybody's 369:8
		242:5,13 245:22	
ago 37:3 68:11 124:9 125:20 141:11 152:14	Alliance 1:17 13:15 14:6 15:12	272:13 273:9 323:3	anymore 79:14 406:5
192:2,16,17 381:2	allow 112:6 160:12	328:18 341:22 342:1	410:21 424:11,19 anyone's 150:7
			anyway 172:12 270:18
390:11 412:21,21	259:15 349:5	374:13 385:16 392:16	342:12 384:11 406:15
agree 51:17 55:17 64:9 64:10 88:15 104:19	allowed 352:4 allows 287:17	396:15 405:17 408:15	
105:16 117:16 119:7	alluded 155:4 222:6	410:11 416:20 Andrea's 325:19 331:2	408:1 427:12 anyways 279:15
128:21 129:5 138:12	336:7,22	395:7 409:17 415:17	aortic 206:12 210:16
145:11 154:21 183:3	alteration 216:22	aneurysm 206:12	211:4 212:8
186:17 222:1 273:10	alternate 122:6,8	210:17 211:4 212:9	apologies 25:2
279:22 286:18 299:22	alternative 182:20	Ann 2:7 7:17,21 22:19	apologies 23.2 apologize 143:12,16
300:5 301:1,18	352:4 385:12	22:21 90:10 123:9	194:6 264:12 265:8
364:14 371:11 383:9	alternatives 276:15,17	280:10 372:16,18	265:11 321:1 374:11
385:9 404:15 410:10	277:6	373:20 425:6	appealing 139:6
413:3	amazed 154:20	announced 81:20	appear 64:13
agreed 110:3 160:19	AMB 72:17	annoying 94:13 189:6	appeared 307:9 381:3
202:4 218:6 323:10	ambiguous 275:6	annual 72:16 73:11	appears 364:15 403:16
agreeing 169:1	ambulatory 12:1,3,6	205:1 355:8 402:22	applaud 147:13 178:8
agreement 169:7,9	America's 1:13 11:14	answer 33:19 35:16	251:17
286:11	238:14	42:10 91:13 95:15	applicable 72:16 73:10
agreements 196:4	American 1:13 3:10,13	96:3 124:15,17 141:2	123:7
Ah 107:14	11:7 22:14 24:19 75:4	159:15 207:9 226:21	application 90:2
AHA 292:20	76:19 208:8 348:19	226:22 246:19 261:19	APPLICATIONS 1:3
ahead 24:9 62:1 75:2	American's 250:18	280:10 282:1 308:19	applied 147:3,12,13,18
89:2 140:18 164:22	Americans 83:21 93:18	320:10 362:7 377:13	148:3 335:10 402:17
281:17 326:4 420:10	AMI 296:19 307:18	399:11	applies 83:17 395:8,11
423:18	308:8 315:13 321:20	answer's 362:8	apply 148:10 215:21
AHRQ 2:9 24:5 144:22	339:15 366:6	answered 162:4	applying 120:6
145:1 146:22 147:1	Amin 2:16 232:4,17	answering 143:16	appreciate 28:19 109:4
AHRQ's 118:14	270:5,13 289:3	280:8	131:11 135:6 142:14
aims 54:18	411:17 414:4,14,19	answers 144:10 369:19	142:19 245:4,10
AKA 7:17	414:22	anti-smoking 96:9	288:13 295:5,18
Akin 3:13 75:4 119:12	amount 75:21 86:20	antibiotic 150:16	313:15 346:6 368:9
125:1	114:1 161:10 173:21	163:11	369:10 395:5 430:13
Albuquerque 24:18	368:3	antibiotics 150:21	appreciation 35:12
alert 126:16	amounts 156:19	151:5,18 152:3,22	approach 4:4 38:7,13
Alexander 2:4 18:4,5,6	analyses 55:9 87:5,6	153:8,10,12 155:7,11	93:11 174:20 175:1,5
		, , , , , , , , , , , , , , , , , , ,	
II .			

			433
	I	I	I
175:9,11,20 176:14	95:21 108:6 176:18	391:2 420:17	236:18 287:8
177:2 179:21 181:5	235:16 245:1 246:1	attest 132:3,5	backpack 328:4,5
185:6 199:21 203:14	253:4 268:5 284:11	attributable 85:7	Bacteria 162:21
232:8 267:17 294:5	asking 29:22 58:3	387:13	bad 21:10 141:18
297:2,11 328:12	110:22 124:8 125:12	attribute 187:5	153:11 343:3 363:5
421:9	232:8 277:22 320:21	attributed 195:8	364:20 415:22 416:10
approaches 113:12	325:22 330:10 335:21	AU 169:22	424:15
appropriate 33:14	asks 55:10 293:18	audible 19:9 25:22 78:9	badly 177:22
52:13 53:17 54:3 95:9	asleep 402:6	105:22 135:4 152:18	balance 78:2
137:3,7 138:4 151:1,1	aspect 185:21 273:13	166:17	balanced 83:5
	305:3		
151:4 157:19 163:16		augmented 82:19	balancing 133:8 146:17
170:17 188:3 191:5	aspects 50:12 143:4	august 20:19	ban 90:14 233:13,15
217:21 248:1 303:20	175:4	AUR 170:1	bantered 323:14
312:7,12 336:18	aspiration 222:4 223:19	automatically 40:18	Barnett 237:10
343:9 365:6 390:3	258:13 274:11 279:8	41:8 149:6	Barnett's 237:3
appropriately 47:22	279:13 319:7	availability 122:12	base 410:9
281:20	assembled 178:5	188:7	based 25:18 45:13 47:2
appropriateness	assess 154:8 287:14	available 45:18 139:14	60:10 92:4 94:15
154:10 184:1,11,18	294:14 314:3 422:3	145:5 159:2 170:3	98:20 102:14 104:9
190:4 194:12 233:3	assessing 292:22	172:16 183:5 238:20	137:2 200:12 208:7
approve 296:15	313:14 314:10	239:8	250:2 254:9,10,21
approved 55:13 321:4	assessment 203:11	average 183:10 300:17	256:9 258:9,17
347:2	219:11 221:4 223:21	359:18	259:21 261:20 287:18
April 155:18	300:1	avoid 69:13 374:20	297:15 310:3 347:6
arbitrary 369:8	assessments 145:6	avoidable 18:14 384:17	375:19 386:10 390:13
area 1:19 16:20 26:9	assigning 364:19	aware 81:19 85:12	391:3 395:12 396:1
63:12 86:11,15 90:19	assist 57:5 84:21 85:21	163:14 177:5 206:1	397:12 415:14
119:8 144:17 145:8	Assistant 205:20	230:17 361:1 371:18	baseline 150:18,20
161:22 184:22 190:7	associate 13:3,11 94:8	awareness 401:14	151:9
206:8 243:22 277:14	94:16 140:19	awful 65:11 252:6	bases 290:13 386:10
282:9 415:22	associated 23:17 62:16	aa. 66.11 262.6	basic 83:4 185:6 189:21
areas 63:3 95:4 96:4,17	98:9 132:22 166:4	В	394:9
118:22 121:7 180:5	186:8 319:7 340:8,18	b 244:7,20	basically 189:1 191:15
183:16,22 184:1	341:4 373:5 385:3,8	baby 144:2	217:15 224:10 277:16
185:8 197:22	388:5 397:13	back 8:1 9:20 11:17	309:6,7 394:8,15
arena 98:1,6 162:8	Association 1:12,13,21	26:7,8 40:13 41:5,10	421:13
171:11	3:13 11:8 12:20 15:3	41:11 48:18 52:9	basis 95:17 120:11
	24:19 75:5		126:13 312:9 382:12
argue 93:2 304:19 360:14 368:5	assume 56:3 199:12	63:19 88:6 97:12 100:21 104:14 122:20	426:12
argument 105:2	266:8 276:7 308:2	122:21 127:10 141:12	basket 72:17 73:11
ARM 112:8,10 113:19	367:10 377:4 420:14	160:22 169:10 172:11	bat 33:7
348:6,8 351:21 352:5	assumed 109:21 377:5	173:13 175:13 185:16	bean 277:4
arrangement 310:12	assuming 227:22 228:6	189:9,16 192:15	beautiful 115:3
arrangements 17:15	322:10	203:8,10 204:21	becoming 293:9
arrows 407:16	assumption 77:16	209:22 215:15 222:2	bedside 158:20
artery 355:15 356:6	315:20	228:1 230:20 231:7	beef 190:10
361:15 379:13	assumptions 272:6	231:20 232:6 235:7	began 290:15
arthroplasty 296:21	assurance 162:6	235:17,21 239:20	beginning 27:5 51:2,12
341:6	assure 46:15	240:4 248:7 250:11	51:15 74:16 188:15
article 381:1	astutely 169:12	260:1 271:5 272:21	377:1 383:2
articulate 232:7	attach 118:18 211:4	278:22 291:3 307:3	begins 188:21
articulated 49:3	attempt 60:4,19 61:21	311:5 312:5 323:1	begun 50:19 75:14
ASC 1:21 11:19 429:21	223:12 227:1	326:21 328:17 330:21	204:11
ascertained 375:14	attempted 60:17	331:9 333:12 350:13	behalf 70:12
ascertaining 385:13	attendees 24:13	354:17 362:14 381:8	behaves 203:4
ascertainment 385:6	attention 144:17 145:14	392:16 393:3 396:17	behavior 367:1,5 368:7
ASHB 15:8,10	179:7 229:2 283:10	408:12 413:17 430:17	Behavioral 80:18
asked 50:2 67:14 86:7	299:20 302:14 325:9	background 18:9	believe 27:4 52:13
	I		

II.			
53:19 57:13 65:16	154:3 168:7,18	235:16 384:6 407:17	buddy 28:6
81:14 82:2,18 83:3,10	169:19 170:15 172:15	425:19	build 325:12 387:5
84:1,19 85:9,20 92:18	172:20 186:3 190:12	body 85:12 168:9	build-up 335:18
96:9 120:7 121:22	194:16 195:16 196:10	bogged 426:18	building 36:9 395:16
132:6 223:20 272:18	252:18 259:9 260:6		built 66:18 119:11
		bordering 375:22	
274:17 304:8 312:22	265:15 278:19 279:18	borrow 268:9	197:8
313:5 321:10 337:17	325:12 335:6 363:19	Bossley 3:10 76:18,18	bulk 430:8
347:2 357:13 372:15	365:3 369:3,11	Boston 19:2	bulky 35:22
396:14 409:5,13	378:15 380:17 381:13	bothered 41:20 45:15	bully 189:2,2
418:20 420:2	381:14,16 388:1	385:18	bunch 79:1 408:4
believer 391:7	389:2 392:1 393:11	box 324:20 325:5	burden 32:9 93:21
bell 311:18	416:21 421:1,2	brain 349:17 393:15	130:20 131:7 172:7
belong 94:5	424:17	397:2	193:9 260:9,12
belongs 410:8	beyond 34:18 49:17	brand 154:10 285:9	412:14
bench 423:16	88:19 139:1 142:17	300:20	burdens 276:9
benchmark 157:15	234:19,20 418:22	break 150:8 173:6	Burstin 2:15 7:19,20
benchmarking 156:4	bias 220:16	221:11 229:10 341:15	10:4,22 11:11,17 12:7
157:14 160:9	biased 259:21	345:8	12:14,22 13:7,19 14:2
benchmarks 329:5,8,9	biases 25:10 388:5	breakfast 429:10	14:9,22 15:5,13,21
beneficial 353:1	big 51:20 90:12 91:3	breaks 66:19	16:11,17 17:1,7 18:19
beneficiaries 197:11	98:11 162:17 280:22	BRFSS 80:19 83:12	19:7,10,13 20:6,15
299:7	293:8 357:14 360:21	86:11 87:19	21:22 22:4,19 23:3,10
beneficiary 180:2,15	389:14 391:6	brief 10:4 55:16 103:9	23:21 24:7,12,22 26:1
186:20 187:18,21	bigger 38:9 314:1	150:8 204:13 290:10	37:13 43:17 44:8 90:5
188:2 197:6 201:18	412:14,22	400:18	107:12,15,17 113:18
204:19 288:8 298:15	biggest 37:19	briefly 99:4	113:22 122:22 138:18
	bill 377:15 408:3		152:12 160:16 167:2
benefit 58:7,13 177:13		bring 10:17 18:2 41:5	
294:8 372:9 376:11	billing 382:19	41:10,12 52:14 53:8	169:4
419:7	billions 101:2	86:2 132:18 216:20	Bush 3:18 196:17,19
B ' 04 4 0	1. ' 1' 00 0	005 0 000 7 007 40	000 44 004 45 000 47
Benign 214:3	binding 60:6	225:6 260:7 297:12	200:11 204:15 289:17
Benin 1:12 12:14,15,16	Birfiss 80:20	305:7 309:13 316:15	289:18
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3	Birfiss 80:20 birth 135:11 143:22	305:7 309:13 316:15 318:21 319:6 326:19	289:18 Business 1:19 10:10
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11	Birfiss 80:20 birth 135:11 143:22 149:20	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22	289:18 Business 1:19 10:10 16:21
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19 C C 139:9 141:17 396:10 421:3
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19 C C 139:9 141:17 396:10 421:3 C-O-N-T-E-N-T-S 4:1 C-section 139:6,12,16
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19 C C 139:9 141:17 396:10 421:3 C-O-N-T-E-N-T-S 4:1 C-section 139:6,12,16 141:10
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19 C C 139:9 141:17 396:10 421:3 C-O-N-T-E-N-T-S 4:1 C-section 139:6,12,16
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19 C C 139:9 141:17 396:10 421:3 C-O-N-T-E-N-T-S 4:1 C-section 139:6,12,16 141:10
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17 319:14	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19 C C 139:9 141:17 396:10 421:3 C-O-N-T-E-N-T-S 4:1 C-section 139:6,12,16 141:10 C-sections 141:7 142:20 146:9 CABG 349:22
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11 413:14 429:13	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17 319:14	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11 413:14 429:13 blank 31:9	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19 C C 139:9 141:17 396:10 421:3 C-O-N-T-E-N-T-S 4:1 C-section 139:6,12,16 141:10 C-sections 141:7 142:20 146:9 CABG 349:22
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17 319:14 best 7:6 8:10 33:17	birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11 413:14 429:13 blank 31:9 blend 221:18	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12 405:5 brought 31:12 44:9	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17 319:14 best 7:6 8:10 33:17 45:8 85:2 99:13 136:5	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11 413:14 429:13 blank 31:9 blend 221:18 blocks 395:16	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12 405:5 brought 31:12 44:9 196:15 224:11 230:19	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17 319:14 best 7:6 8:10 33:17 45:8 85:2 99:13 136:5 194:18 270:8,10	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11 413:14 429:13 blank 31:9 blend 221:18 blocks 395:16 blood 282:11 385:3,8	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12 405:5 brought 31:12 44:9 196:15 224:11 230:19 231:20 315:6 323:5	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17 319:14 best 7:6 8:10 33:17 45:8 85:2 99:13 136:5 194:18 270:8,10 369:13 375:18	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11 413:14 429:13 blank 31:9 blend 221:18 blocks 395:16 blood 282:11 385:3,8 blue 2:2,2 12:8,11 57:2	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12 405:5 brought 31:12 44:9 196:15 224:11 230:19 231:20 315:6 323:5 388:2 420:16	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17 319:14 best 7:6 8:10 33:17 45:8 85:2 99:13 136:5 194:18 270:8,10 369:13 375:18 Beth 24:11,16	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11 413:14 429:13 blank 31:9 blend 221:18 blocks 395:16 blood 282:11 385:3,8 blue 2:2,2 12:8,11 57:2 BMJ 82:14	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12 405:5 brought 31:12 44:9 196:15 224:11 230:19 231:20 315:6 323:5 388:2 420:16 Brown 19:17	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19
Benin 1:12 12:14,15,16 68:9 74:7 86:10 88:3 108:7 109:15 110:11 110:14,21 111:5,9,11 111:13,19,22 112:3,9 112:12 120:15 127:2 130:12,18 136:19 151:21 152:10,15,19 169:9 194:9 209:5 215:4 246:3 261:18 273:10 274:15 323:4 342:4,8 374:14 385:17 405:18 406:4 406:9,22 410:12,16 412:13,22 414:12,17 414:20 Bernheim 3:11 224:1,9 230:19 257:13 262:4 263:3,6 264:7,11,16 265:17 266:11 318:17 319:14 best 7:6 8:10 33:17 45:8 85:2 99:13 136:5 194:18 270:8,10 369:13 375:18 Beth 24:11,16 better 8:6,9 25:13 87:18	Birfiss 80:20 birth 135:11 143:22 149:20 bit 16:8 17:11 33:4 41:7 43:10 52:17 59:4 60:15 61:5 66:11,19 87:7 88:7 103:10 115:7 117:9 121:4,11 124:4 126:7 137:8 142:10 150:7 165:8 174:9 180:12 189:9 194:2 195:16 206:13 209:2 215:6 217:11 224:18 232:7,11 257:10 267:12 274:2 275:6 278:18 287:8 289:4 296:22 297:17 308:19 315:11 318:16 325:1,9 408:9 413:11 413:14 429:13 blank 31:9 blend 221:18 blocks 395:16 blood 282:11 385:3,8 blue 2:2,2 12:8,11 57:2 BMJ 82:14 board 21:18 49:8	305:7 309:13 316:15 318:21 319:6 326:19 326:21 330:21 337:22 339:12 364:18 bringing 8:16 15:17 25:10 35:4 69:11 178:9 263:11 brings 25:5 29:15 98:2 98:3,4 194:11 278:11 broad 94:14 155:2,7 157:6 165:16 399:9 426:3 broad-based 92:9 broadened 319:5 broader 96:10 97:9 98:14 136:14 139:10 297:5 broadly 81:16 85:19 Brock 1:20 14:22 15:2 92:22 94:22 334:12 405:5 brought 31:12 44:9 196:15 224:11 230:19 231:20 315:6 323:5 388:2 420:16 Brown 19:17 brush 155:2,7 399:9	289:18 Business 1:19 10:10 16:21 busy 29:17 100:5 button 71:11 buttons 69:20 buy-in 100:16 bypass 355:15 356:6 358:20 360:21 361:15 379:13 byproduct 158:19 C C 139:9 141:17 396:10 421:3 C-O-N-T-E-N-T-S 4:1 C-section 139:6,12,16 141:10 C-sections 141:7 142:20 146:9 CABG 349:22 cake 389:9 calculate 130:14,14,19 352:4 calculated 352:2 calculation 112:7 136:11 147:19 275:2

11
calendar 4:9,11,19,21 5:7,18 55:6 57:21 58:1 61:8,13,17,19 62:11,14,15,18 63:8,8 63:13,21 78:20 79:2,5 79:7,14 108:14 150:10 173:6 174:1,8 174:9,10,13,15 176:6 181:2 214:19 235:13 240:21 241:4,18,21 272:9 286:18 296:12 296:15 303:10 310:19 341:16 342:3 343:16 344:12 345:2,7,15 346:13 379:22 401:19 402:1,20 calendars 78:21 174:2 229:8 241:1 342:10 Calender 4:13 calf 396:22 calibrated 399:6 call 36:4 74:18 134:15 170:1 194:5,21 221:12 331:1 415:7 417:6 419:4 called 184:22 362:2 406:4,7 417:4
calling 267:1 407:4
calls 179:6 Campaign 20:3
campaigns 85:19 92:9 93:12
cancer 1:14 10:20 14:13,14 46:22 101:1 400:14 429:14
cancers 153:11 candidate 170:7 358:4
capacity 94:13
capita 205:2,5,12 capture 42:12 57:10
69:8 135:2 170:5 187:19 223:15,18
251:19 280:16,19 captured 158:19 329:19
capturing 77:22 140:1 153:13 171:10 373:17
card 36:3 57:7 112:18 314:16 363:9 372:17
cardiac 16:4 83:8 350:4 359:6 370:13
cardiologist 80:6 128:3
cardiothoracic 359:21 359:22 360:3,5,13,15
cardiovascular 46:22 cards 37:14 86:6 89:1
114:5 209:12 339:8 378:7
care 1:15,18 13:13,14
II

```
13:15,17,18 14:14
 15:15 18:13 19:17
 20:10,11 27:11 28:11
 28:14 32:13,14 34:20
 49:14 51:5 52:5 73:22
 82:17 84:22 91:22
 92:14 101:1 113:11
 120:8 122:14,16
 123:17 127:21 132:17
 132:19,22 143:2
 156:21 157:11,21
 159:4 161:22 175:15
 177:6,11,18 178:3,16
 178:18 179:14,20
 181:18 184:19 186:4
 186:7,12 187:20
 188:4 190:4 192:13
 192:21 195:5,5,6
 201:3 204:6 214:20
 216:12 218:17 219:17
 221:14 228:13 231:14
 243:13,14 244:7,16
 258:14,17 272:20,22
 280:17 281:8,19
 282:22 287:16 288:1
 288:2.2.4 289:9
 291:10 296:17 299:15
 302:10,10 305:3
 310:6 312:18,18
 313:3 314:3 319:3
 329:18 332:6 338:18
 339:21 340:9,19
 341:5 359:19 360:11
 360:12 377:16 401:16
cared 127:11
career 391:7
careful 288:13
carefully 273:1 422:5,7
 423:7
caregiver 32:15
Carroll 92:7
carrot 100:11,13 101:18
 102:10
carry 293:21
CASC 1:21
case 141:5 142:1 150:6
 229:15 232:1 367:18
 370:8 380:19
cases 50:4,5 120:10
 124:16,18 125:6
 208:12 276:11 319:7
cast 211:21
catalyzed 84:3
catch 241:5 255:19
catch-22 413:12
categories 38:14 39:12
 55:22 123:12 156:22
```

```
categorize 387:19
category 40:17 41:16
  43:16,22 45:11,18
  46:10 48:12 69:8
  117:18 148:15 161:20
  164:2 210:5 299:10
cause 96:6 112:17
  200:2,6 216:1 220:4
  237:9 300:1 335:15
  374:21 391:20
caused 392:2
causes 94:20
causing 182:8
CDC 23:13 81:4,5 83:11
  83:19 84:20 85:20
  87:4 96:1 99:14 110:3
  114:1 150:17 158:14
  160:18 161:10 166:3
  171:18 172:17 293:12
  348:19 352:3 396:8
CDC's 168:15 169:7,9
  401:11
CDP 10:17 46:16 337:9
CE 251:20
Cedar 26:17
cellulitis 342:20.21.21
  342:22 343:2.3.5
Census 83:9 230:12
center 10:20 12:1,6,18
  20:12 51:18 80:8,14
  92:6
centered 135:22 179:21
centers 2:10,11 3:11,14
  3:16,18 12:3 18:11
  23:12 80:15 84:4.5
cents 44:17
CEO 10:10 14:12 15:15
certain 48:5 68:20
  86:20 90:14,19
  156:16 206:14 235:16
  287:19
certainly 30:13 32:9
  34:18 35:3 51:11 52:4
  52:12 96:16 105:9
  116:6 142:14,19,22
  143:3,5 147:7 148:19
  158:2 159:8 163:9,21
  184:18 206:2 248:13
  248:17 253:13 268:3
  301:18 311:4 312:10
  313:9,16 314:6 337:4
  348:7,11 351:10
  366:21 371:8 377:12
  404:12 422:13 430:12
certified 73:16 360:8
certifying 360:11
Cesarean 135:12
  143:22 144:1 149:20
```

cessation 49:2.14 50:16 82:16 85:18 93:11 94:3 cetera 147:11 253:2 370:10,11 399:8 chair 16:5 59:6 131:18 327:6 335:21 363:12 378:6 chairing 30:9 chairs 1:10 6:7 10:7 25:12 62:3 challenge 7:13 125:11 173:20 358:15 challenges 127:15 128:12 133:10 154:12 234:14 236:4 237:22 challenging 362:9 **chance** 29:12 42:16 50:11 59:1 67:17,19 137:19,20 203:2 211:7 290:22 **change** 37:12 41:6 62:18 65:19 66:3,11 71:16 129:3,4,8 159:13 189:13 208:1 216:20 217:13 222:19 222:21 223:10 227:17 227:18 233:1 348:13 351:21 352:7 353:1,8 386:9 395:20 399:21 406:2 410:19 417:11 417:12 **changed** 37:8 222:3,8 274:11 319:5 351:5 361:6 395:22 406:7 420:3,3 429:11 430:1 **changes** 37:20 85:5 92:13 112:2 187:6 279:9 285:1 405:21 418:3 420:14 422:14 423:7,12 426:6 429:18 **changing** 216:15,22 319:17,18 420:12 channeling 146:5 characteristics 237:5 **charge** 276:19 **charged** 191:14 **charges** 201:14,22 charging 191:4 **chart** 124:15 253:20 262:17 288:16 357:19 407:13 chase 94:21 chasing 94:21 **chat** 70:16 cheaper 22:1 cheapest 186:6

187:4 275:1 279:8

check 130:7 324:20 325:5 418:21 419:1 checking 29:22 **cherry** 394:8 Chicago 302:4 Chicago-based 15:16 Chief 2:15 7:20 13:12 children 136:4 138:7 Children's 1:12 12:18 12:20 Childrens 16:5 **choice** 47:19 95:13 147:15 331:17 **choices** 65:17 73:3 89:20 106:9 211:12 cholecystectomy 206:14 212:21 213:2 **choose** 72:18 97:12 331:16 choosing 147:16,17 **chose** 141:3 215:18 263:22 **chosen** 95:10 **Chris** 7:21 **chronic** 49:16 **chump** 189:12 cigarettes 93:10 **circles** 81:22 circumstance 86:7 circumstances 346:8 citizens 276:21 277:20 city 90:13,15 91:7,9,15 92:6 **claim** 130:7,16 claims 77:16 78:3 130:5 136:7,9 137:2,7 139:20 140:11,22 143:1,3 247:13 251:12 259:2 260:7 260:11 262:8,9,15 263:5,16,17,21 264:1 264:21 265:1,5,22 268:17 380:21 381:6 383:9 395:11 396:19 claims-based 113:6 142:22 247:11 251:3 251:14 257:20 259:16 260:8 264:18 357:18 395:8 clarification 89:18 110:1 121:13 130:13 226:1 308:19 318:16 319:1 353:15 411:18 clarifications 232:5 clarified 57:22 **clarify** 62:5 66:10 91:13 115:22 122:3 130:3 130:12 160:5 165:8

210:11 224:5 255:7 269:21 274:9 285:22 289:6,14 298:11 305:13,17 338:14 369:22 409:9 411:19 clarifying 129:14 clarity 56:12 232:11 255:12,20 256:2 278:11 315:11 412:10 Class 396:10 classified 47:18,22 88:2 146:1 351:14 401:9 422:16 clear 56:10 86:16 153:7 160:22 171:5 210:20 233:14 234:14 255:2 260:14 264:9 266:6 291:2 292:20 311:22 375:18 381:19 386:7 407:9 414:1,5,6 clearer 166:1 clearly 117:5 120:1 122:19 127:17 148:22 154:1 160:17 230:5 334:14 Cleveland 22:11 85:4 click 62:19 67:8 122:19 122:21 212:1 clicker 57:2 69:20 70:1 70:15 164:22 clickers 70:8 clicking 70:20 71:8 clinic 22:12 85:4 94:16 100:5 101:14 clinical 15:7 174:17,19 175:4,7,22 176:11,19 178:11 179:2,13 185:8 197:12 201:12 201:21 202:2,6 204:14 206:8,17 207:12 212:22 213:3 213:14 214:3 215:20 219:19 254:9 260:2 266:17 268:18 287:13 287:19 297:12 312:18 335:16 339:10 350:1 356:12 366:4 369:10 392:17,19 clinically 202:13,13 222:8 245:13 287:15 290:4 297:15 341:21 clinician 222:22 369:13 clinicians 202:4 **clock** 71:2

close 137:21 265:20

closely 123:3 159:9

closer 138:19 224:18

191:8 205:9

CMM 21:4 **CMS** 2:11 3:12,15,17,19 4:3,14 20:5 23:7,7 28:15 29:1,4,7,22 31:1 33:11 34:17,18 36:21 37:5,10 41:4,9 42:17 47:5 50:8 51:3 51:6 53:1 68:6 74:12 79:19 80:4 81:16 84:10 87:4 88:15 99:14 101:17 125:17 126:12,21 129:18 130:13,21 139:2,4,12 139:15 141:3 142:9 142:21 148:9,13 163:13 167:18 183:22 184:9 194:13 196:13 196:19 199:5,16,21 200:3 202:2 203:9 205:6 206:22 216:7 218:2 220:2 222:13 223:1 235:8 237:6,15 245:11 247:6 253:9 257:16 267:15 268:2 268:6 279:7 280:2 281:16 287:5 288:10 289:6.14.18 294:17 309:10 310:9,16 315:1 323:10 324:14 325:14 326:18 327:22 332:20 348:2 350:21 352:9,16 355:17 362:11 374:6 378:13 394:19 397:15 403:19 407:7 414:8.19.21 416:3 422:6,13 424:12 427:11 **CMS's** 201:6 256:21 266:16 420:1 co-chair 1:11,11 6:3,12 6:15,18 7:3,8,17 10:9 10:19 13:15 26:3 27:21 30:16 33:5 35:6 35:7 36:2 44:16 46:1 47:7 48:3,13 50:10 54:5 62:11 68:22 70:18 71:15 74:15 78:7,10,17 79:12,16 86:4 87:22 88:5,12,22 90:10 91:12 92:21 94:6,22 97:14 103:1,5 104:18 105:11,20 106:1,20 107:20 108:3,10 109:1,13 112:16 114:5,15 115:4,9 116:4,18,22 117:3,11 118:2 120:1 120:14,20 122:17

123:9 124:1 128:15 129:13,15 131:11,17 132:7 134:1,13 135:2 135:5 136:16 138:10 138:14 140:6 142:3 146:21 148:5 149:18 150:6 151:19 154:5 154:18 155:13 159:14 161:7 162:9 164:13 165:7 166:11,19 167:11 168:12,21 171:15 172:10 173:1 173:11 180:17 182:16 184:14 185:4 186:14 188:10 194:4 196:13 198:13 200:8 202:19 204:12 206:5 207:10 209:4,11,20 210:2,9 210:18 211:6,20 212:3,8,17 213:11,21 214:12 215:12 217:3 219:2 220:9 221:21 222:9,15,19 223:3 224:8 225:18,21 226:20 227:21 228:9 229:4 236:20 237:19 239:10,13,22 240:5 240:10,18 242:10,13 242:16 244:22 245:18 246:9 248:4 249:1 250:3,11 251:8,15 252:1,8,22 254:20 255:9 256:1 260:13 261:9,16 262:18,20 263:4 264:5.8.14 266:5,18 267:10 268:13 269:4,9,20 270:11,15 271:15 272:8 273:8 274:20 275:10,13 278:4 280:6 281:15 282:17 284:5,11 285:13,16 285:18 286:15,19 287:2 291:14 295:2 296:10 298:10,17 301:15 302:22 303:22 305:12 306:4,8 307:5 307:10,15,20 308:21 310:15 312:1 314:16 316:4,18,19 318:22 319:15 320:11 321:3 321:18 322:8,21 325:17 327:2 330:18 332:10 333:18 334:12 335:12 337:20 338:13 338:21 341:14 342:7 344:3,14,20 345:13 347:17 348:1,15

	1	1	1
349:4 350:12 351:18	collect 83:12 124:12	367:9	309:19
353:14,17 357:6	158:1	comment 4:7,17 5:12	Commission 20:18
359:10 362:17 363:8	collected 81:1,4 113:10	5:20 6:13 33:9 36:3,9	360:7
365:15 366:18 367:10	119:19 125:14 236:9	52:1,10 67:3,13,18	commissioner 22:22
367:13 368:11 369:18	249:16 251:4 322:13	68:2 78:13 103:9	committee 6:19 9:15,22
370:4 371:10 372:11	collecting 126:10	105:11 126:16 132:8	10:15 17:14 22:15
372:16 373:16,19	129:20 131:20 132:1	139:18 144:8,13	24:20 29:11 34:14
374:5,11 375:20	151:9 251:11	145:20 181:2 182:22	55:14 58:6,12,17,22
376:21 378:4 379:8	collection 26:19 119:22	184:17 185:11 188:17	68:5 69:5,12,16 75:12
379:20 381:18 382:5	123:20,21 124:5,11	198:15 199:17 219:8	86:3 94:10 96:8 97:7
383:12,21 384:20	125:2,22 154:12	219:9 222:14 225:20	97:11 135:8 160:19
385:15 386:20 387:9	251:2	238:9 244:1 249:7,11	185:5 219:6 224:12
389:6 390:7 391:15	collective 49:12	250:15 254:18,22	226:4,19 227:7,9,16
393:6,20 394:21	College 22:14 348:20	255:10 270:6 274:22	231:20 232:1,20
399:12,22 400:12	color 220:19	282:18 285:18 291:18	236:11 259:18,19
402:3,6,14 403:5	Columbus 390:12	291:22 292:3 295:11	268:5 269:7 270:20
404:7,18 405:1,5,16	combat 163:10	295:15,15 296:7	274:9 299:12 301:10
406:21 408:10 409:9	Combatting 162:21	305:10 306:21 309:3	303:1 311:13 325:15
410:1 411:6,10 417:4 419:2,21 423:4 424:3	combination 242:4 263:19 264:1	309:4,18 321:7 324:17 344:5 348:14	331:12 350:16 411:22 412:5 415:10
425:1,5 427:6,9 428:1	combinations 156:21	360:9 361:5 363:20	committee's 17:17
428:4,15,20 429:5	combined 262:8	367:11,15 368:9	226:10 227:12 299:19
430:14	combining 386:3	371:14 374:7,17,18	303:17
Co-Chairs 61:15	come 9:20 25:12 31:7	383:1 391:17 394:19	committees 10:16
co-partner 15:18	36:15 43:19 46:19	402:1,4,7,9 403:9	271:8,9
coalition 1:14,19 14:13	47:6 57:5 63:19 86:21	405:17 428:17 429:1	common 174:11,18
15:16 16:21	87:4 88:6 101:4	commentary 378:13	212:21 213:2
coating 126:3	104:14 125:8 126:17	commented 272:4	commonality 75:9,15
code 230:14 259:14	146:3 156:10 175:6	Commenters 67:14	Commonwealth 20:18
0000 200.11 200.11			
codes 113:1 187:5	175:13 181:13 182:9	commenting 67:3	189:14
codes 113:1 187:5 208:17,21 261:20	175:13 181:13 182:9 188:20 198:3 199:19	commenting 67:3 414:22	189:14 communicate 127:9
codes 113:1 187:5 208:17,21 261:20 343:1	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20	commenting 67:3 414:22 comments 29:14 32:6	189:14 communicate 127:9 communicated 293:15
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16	189:14 communicate 127:9 communicated 293:15 communities 94:15
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21 153:3 348:19,21	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5 31:3 35:19 96:7 97:1	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16 326:18 331:2 339:11	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired 157:7
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21 153:3 348:19,21 357:10	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5 31:3 35:19 96:7 97:1 114:4 132:6 133:19	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16 326:18 331:2 339:11 346:4,5 348:16 349:7	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired 157:7 community-based
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21 153:3 348:19,21 357:10 collaborative 355:18	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5 31:3 35:19 96:7 97:1 114:4 132:6 133:19 169:10 227:14 231:3	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16 326:18 331:2 339:11 346:4,5 348:16 349:7 350:15 353:15 359:11	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired 157:7 community-based 82:11 85:13 96:15
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21 153:3 348:19,21 357:10 collaborative 355:18 collapsed 61:2	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5 31:3 35:19 96:7 97:1 114:4 132:6 133:19 169:10 227:14 231:3 231:7 237:14 257:18	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16 326:18 331:2 339:11 346:4,5 348:16 349:7 350:15 353:15 359:11 363:8 369:20 379:6	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired 157:7 community-based 82:11 85:13 96:15 98:20
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21 153:3 348:19,21 357:10 collaborative 355:18 collapsed 61:2 colleague 232:21	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5 31:3 35:19 96:7 97:1 114:4 132:6 133:19 169:10 227:14 231:3 231:7 237:14 257:18 278:22 316:22 332:2	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16 326:18 331:2 339:11 346:4,5 348:16 349:7 350:15 353:15 359:11 363:8 369:20 379:6 395:2,4,7,10 399:13	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired 157:7 community-based 82:11 85:13 96:15 98:20 companies 193:20,21
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21 153:3 348:19,21 357:10 collaborative 355:18 collapsed 61:2 colleague 232:21 colleagues 30:4 94:9	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5 31:3 35:19 96:7 97:1 114:4 132:6 133:19 169:10 227:14 231:3 231:7 237:14 257:18 278:22 316:22 332:2 424:8,17	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16 326:18 331:2 339:11 346:4,5 348:16 349:7 350:15 353:15 359:11 363:8 369:20 379:6 395:2,4,7,10 399:13 402:12 403:11 428:2	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired 157:7 community-based 82:11 85:13 96:15 98:20 companies 193:20,21 220:6
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21 153:3 348:19,21 357:10 collaborative 355:18 collapsed 61:2 colleague 232:21 colleagues 30:4 94:9 136:9 138:13 148:20	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5 31:3 35:19 96:7 97:1 114:4 132:6 133:19 169:10 227:14 231:3 231:7 237:14 257:18 278:22 316:22 332:2 424:8,17 command 36:16	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16 326:18 331:2 339:11 346:4,5 348:16 349:7 350:15 353:15 359:11 363:8 369:20 379:6 395:2,4,7,10 399:13 402:12 403:11 428:2 428:17 429:4	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired 157:7 community-based 82:11 85:13 96:15 98:20 companies 193:20,21 220:6 companion 356:2
codes 113:1 187:5 208:17,21 261:20 343:1 coding 223:13,14 386:10 cognitive 243:10 252:11,17 cognizant 131:7 205:17 246:22 247:16 283:12 283:14 351:11 422:14 cohesive 202:13 324:6 cohort 224:13,15,19 225:3,7 227:15 229:1 263:17 265:4 274:11 274:13 307:1,4 308:6 320:14 322:2,4 cohorts 263:16 coin 256:10 collaborate 152:5 collaboration 1:22 11:20 12:2 82:21 153:3 348:19,21 357:10 collaborative 355:18 collapsed 61:2 colleague 232:21 colleagues 30:4 94:9	175:13 181:13 182:9 188:20 198:3 199:19 209:8 215:15 239:20 240:4 258:4,9 265:1,6 271:11 272:21 274:6 307:4 311:5 327:12 328:10 345:22 356:4 356:10 363:21 369:18 378:19 387:15 388:20 411:7 412:3 430:6,17 comes 42:3 45:9,20 52:21 54:3 126:9 130:4,7,10 133:8 204:4 219:11 228:1 231:15 270:19 305:16 312:4 325:14,14,15 348:21 comfort 168:7 comfortable 169:5 275:8 406:14 coming 6:4 7:7 30:5 31:3 35:19 96:7 97:1 114:4 132:6 133:19 169:10 227:14 231:3 231:7 237:14 257:18 278:22 316:22 332:2 424:8,17	commenting 67:3 414:22 comments 29:14 32:6 59:2,16 67:7,9,14,16 67:22 68:4 74:18,19 75:1 76:21 78:8,11,16 81:8 89:3 97:16 109:4 115:4 120:21 127:1 132:10 138:15 144:15 145:19 146:7 148:6 152:9 154:19 162:19 177:2 184:9 185:7 198:16 202:8 204:5 206:8 208:8 215:20 224:3 238:5 245:4 246:3,15,17,17 249:5 250:6 256:4 260:10 270:21 273:7,11 275:12 281:16 291:20 295:5,6,8,19 296:1,9 301:16 303:2 310:16 326:18 331:2 339:11 346:4,5 348:16 349:7 350:15 353:15 359:11 363:8 369:20 379:6 395:2,4,7,10 399:13 402:12 403:11 428:2	189:14 communicate 127:9 communicated 293:15 communities 94:15 98:7 99:12 100:16 102:21 191:12 218:16 231:12 388:9 community 85:10 94:14 95:7 98:19 99:19 100:2,8 101:20 102:2 102:14 103:21 104:6 104:8,22 105:7 126:13,16 151:22 153:16 159:4 188:16 193:15 195:10 260:5 272:20 363:17 364:7 364:22 365:2,3 366:13 387:2 390:12 390:13,16 391:3,3 community's 95:11 community-acquired 157:7 community-based 82:11 85:13 96:15 98:20 companies 193:20,21 220:6

Compare 132:2 145:11 160:12 195:9 306:1 306:22 307:19 308:10 318:4 319:11 320:18 321:22 322:12 330:13 351:2 368:17 370:2 377:18 401:3 comparison 48:16 300:17 372:13 390:19 comparisons 197:21 287:18 compelling 384:18 competency 54:22 competent 278:2 competition 171:9 complaints 140:12 complementary 146:18 complete 121:11 150:9 275:8 358:11,11 375:10 completed 226:18 **completely** 64:11 115:1 154:8,21 160:20 166:13 410:19 411:2 complex 208:5 complicated 94:19 127:6 413:14 418:16 421:18 complication 199:1 complications 141:19 253:14 359:19 384:17 compliment 281:13 complimentary 184:10 216:5 288:18 comply 358:19 component 82:16 85:1 96:8 199:4 291:8 385:3 397:20 421:20 components 189:21 249:8 382:16 386:1 389:21 392:11 397:9 406:18 409:6,22 composite 241:15 284:17 298:8 334:19 363:4 372:7 380:3 385:2,4,10 388:21 389:8,17,19 390:1,13 391:5,18 394:11,13 396:2,9,11 398:12 399:4 400:4 406:8 412:17 414:7,9 419:20 421:13 422:1 424:8,14 428:6 composites 377:11 390:3 comprehensive 223:21 323:21 325:10 computed 398:19

computer 249:8 concept 42:20 77:7 80:12,17 83:5 241:12 318:7 324:21 325:4 341:20 348:10 concepts 4:14 284:8 287:10 conceptual 218:13 233:22 234:3,11,17 236:1 concern 42:8 122:8 126:12 139:20 145:22 146:14 189:18 201:5 220:14 222:12 249:20 249:21 270:22 292:5 292:19 306:13 394:5 398:5 concerned 25:15 76:8 95:3 119:12 141:15 179:11 217:21 220:12 223:1 256:15 272:15 294:1 302:11 360:5 397:19 concerns 25:9 32:9 42:13 104:13.15 124:4 125:18.21 133:17 141:16 160:7 164:15 175:21 187:15 207:19 243:1 245:5 254:12 275:18 316:9 369:20 387:12 388:8 389:3 394:4 411:4 420:5 conclusion 412:4 concrete 215:5 concur 250:6 383:14 condition 5:10,17 66:1 66:3 116:2 117:15,16 117:17,21 119:3 122:9 142:21 159:21 167:5 168:5,10,15,20 169:6 171:16,17 180:11 186:18 199:8 204:4 210:20 211:9 217:7 219:19 220:13 221:2 223:18 226:14 229:6 252:13 258:9 280:13 286:2,10 290:7 297:4 309:21 366:4 381:21 condition-based 219:21 condition-specific

316:13

conditional 40:16,18,22

45:4 46:5 60:10 61:3

66:2,5,6,9,12,13,14

41:8 42:15 44:19 45:3

72:1 76:14 108:22 115:13,20 116:1,13 117:7,18 118:3 119:3 119:18,18 127:15 134:6,10,12 135:17 136:14 149:22 150:3 159:21 161:6 164:19 165:5,6 169:7 183:1 184:13 210:10 211:8 211:13 212:13 213:5 213:8,17 214:8 217:1 217:8,20 226:2 228:15,18,20 250:2 255:3,4,5 267:4,6,8 268:20 269:1,3,17 270:2 283:2,5,7 284:21 340:1,4,11,14 340:22 341:11 354:1 354:6,8 355:3,5 376:3 379:14,17 381:21 383:15 400:5,9 402:21 404:14,21 411:12 428:7,12 conditionally 39:20 45:19 46:17 47:2,16 60:22 66:8 172:14 185:13 210:6.21 274:18 387:10 **conditions** 39:21 49:17 65:18 66:10 70:6 117:22 118:4,18 124:20 134:16,22 135:3 136:1 142:16 142:18 165:8 166:12 167:3 175:7,22 178:18 179:7 183:17 200:9,17,18 201:13 205:3,9 207:12 211:4 228:22 230:3 267:14 269:5,8 276:9 283:9 286:22 287:19 355:7 384:8 400:22 conducted 55:4 125:19 conference 1:8 331:1 362:15 confidence 37:5 232:12 **confirm** 269:7 327:5 357:12 412:1 conflict 18:1 21:16 25:7 261:14 **conflicts** 20:1 240:12 240:16 confounding 230:10 confront 136:4 confused 43:10 111:14 112:20 confusing 320:2 322:5 confusion 47:12

Congress 208:8 304:10 Connecticut 12:17 195:4 connects 83:18 159:3 consensus 10:13 51:11 53:22 71:20 consent 4:9,11,13,19 4:21 5:7,18 55:6 56:3 57:20 58:1 61:7,13,17 61:19 62:11,14,15,18 63:8,8,21 78:19 79:7 79:14 107:5 174:8 176:5 240:20 241:1,4 241:18,21 286:18 296:12,15 342:2,10 343:16 344:11 345:2 345:6,15 346:13 401:19,22 402:19 consequence 146:12 378:18 consequences 146:15 294:15 304:14 313:6 consider 30:1 32:5,5 44:11 53:15 54:21 67:11 75:12 117:15 140:10 168:10.20 243:8 244:13 247:22 267:15,17,21 268:3 294:20 326:20 334:18 337:6,10 374:8 395:20 considerably 382:14 consideration 4:7,17 5:13 28:17 35:4 39:4 39:11 40:6 49:13 53:21 54:2 55:5,12 57:19 58:5 59:15,21 60:2 65:13 67:4 69:17 89:22 199:19 218:21 227:7 233:10 244:6,8 260:17,19,20 267:19 287:10 288:13 295:20 296:2 303:9 310:22 374:10 386:18 388:18 407:8 409:1 considerations 32:4,18 33:18 148:17 163:18 386:17 **considered** 43:8 68:5 116:12 218:19 227:19 249:13,22 265:3 276:11 366:2 considering 29:5 73:6 288:10 300:17 **considers** 90:12 416:3 consistency 126:6 consistent 65:1 353:4

consistently 124:12

u			439
040:47.054:40		400:44 407:00	000:47 005:40 000:00
249:17 251:19	conversations 90:6	costs 188:14 197:20	236:17 305:19 328:22
Consortium 34:21	120:16 173:14,22	201:10 204:7 205:14	330:20 332:13 334:6
consternation 42:3	174:4 236:10 304:9	299:15 343:4 401:16	338:12 367:14 430:13
constituted 256:11	334:14	count 66:17 71:15	criteria 38:12,15 48:21
constitutes 292:9	conversion 395:7	155:9 329:11 427:17	54:9 55:13 61:10
constraints 53:1	convictions 229:14	counted 71:12 121:18	276:10 375:7 384:9
construct 197:7 234:17	Conway 80:14	364:17	critical 8:15 19:17 40:4
290:3 369:3	cooperate 98:10	counters 277:4	40:8 54:21 77:11
constructs 110:4	cooperation 98:5	countervailing 141:16	81:15 84:22 85:14
construed 21:17 383:6	coordinated 82:19 84:2	counties 83:14 95:3	162:1,3 234:7 338:6
consultant 14:5 76:19	84:7 332:8	country 141:8 162:5	critically 86:14 135:21
consultation 359:19	coordinating 34:14	293:7 357:21 358:7	161:9,17 167:19
consulting 17:15	55:14 58:6,11,17,22	358:12 391:6 416:3	182:8 393:2
consumable 281:6	68:5 69:5,12,16	424:7	criticisms 257:21 356:5
consumer 14:6 145:9	232:19 331:12	county 81:1,4 82:20	cross 2:2 12:8,11 50:19
309:22 310:10 382:11	coordination 27:12	83:1,3,13,17,22 84:19	288:11 386:11
394:14	32:13 48:22 49:4,7,11	85:3 90:3,4,6 94:16	Cross/Blue 12:11
consumers 36:20 73:2	49:21 50:4,6 51:5	95:18	crosscutting 188:3
144:18 145:14,15,16	52:5 73:22 81:18	county-based 83:10	crossover 17:5
147:14 179:10 240:15	89:15 105:6 123:14	85:7	crosswalk 209:10
309:20 310:5,13	132:20 288:2 312:19	county-level 95:16	crowd 97:19
331:20 374:18	copay 310:1,12	couple 30:17 37:8 38:9	CSAC 10:14 14:21
consuming 126:4	COPD 101:1,5,11	41:20 43:21 75:6,16	227:13 412:21 415:12
contact 86:22 113:8	core 34:20 35:2 110:4	103:6 112:13 115:17	cuing 261:6
context 52:19 59:7	429:22	124:8 125:18,19	cultural 54:22
235:4,10 427:21	corner 68:21 70:8	132:10,12 136:20	culture 15:18 37:11
continually 271:5	108:12	142:9 144:14 146:6	curious 139:14 202:21
continue 43:20 58:18	coronary 355:15 356:6	173:3 223:6 238:14	203:5 309:10
75:12 82:6,10 110:7	358:20 361:15 379:12	243:1 273:16 279:6	current 38:22 39:5
114:9 172:3 217:11	correct 56:7,8,9,15	292:6 293:4 323:13	75:21 79:18 80:17
235:2 251:7 294:10	72:14 74:11 77:22	338:2 345:16 393:3	88:13 106:5 226:6
387:11	91:15 112:11 114:21	394:10 425:9	227:4 230:21 234:21
continued 43:22 44:21	115:2 116:19 117:1	course 51:5 73:19 74:1	263:9,12 264:18
102:6 105:9 106:6,7	121:21 137:4 150:19	142:1 205:14 318:1	285:6 286:7 298:14
106:17,18 107:17	176:1 230:18 263:2	320:17 329:20 364:16	299:21 321:12 372:14
124:9 244:20	286:4 305:18 307:13	378:5 385:1 cover 174:2 175:13	397:7
continues 114:11 177:8 217:22 315:5	318:9 320:22 321:13		currently 13:12 40:20 41:14 109:8 132:5
	322:16 344:13,15	183:22	
continuous 8:4 239:16	351:22 405:2 408:13	covered 224:10	150:21 186:20 205:18
continuum 179:20 contracted 203:9	correctly 56:3 355:7 correlated 85:6	covers 139:10 CPA 1:19	206:4 216:14 262:22
contradictory 140:16	correlates 89:5	CPD 16:15	286:6 288:7 307:21 313:19 319:19 352:2
contribute 97:16	cost 77:14 177:21	CPT 113:1 208:17	365:20 366:2 387:22
contributing 237:12 control 2:10 23:12	178:7 179:8 181:10 181:11 183:13 184:5	create 96:19 97:6 125:11 187:2 218:18	401:20 402:19 415:1 curve 265:14 311:18
80:16 92:15 188:9	190:9,9,11,12,13,14	276:9 293:19 376:1	customers 193:22
292:17 367:2 390:22		created 55:10 92:8	cut 91:8 192:10,11,12
controlled 292:15	191:1,20,22,22 192:3 192:9 193:6 199:2	262:9	420:13
controlling 293:1	200:17 203:21,22	creates 186:22 288:1	cutoff 369:8
convened 233:1	200.17 203.21,22 204:2 205:5 226:3	358:18 376:10	cutting 8:14 420:8
convening 236:11	227:6 230:2,16	creating 294:2	Cuyahoga 85:3
conversation 37:4	287:21 288:8 289:9	credibility 392:19	CVs 9:21 10:1 17:17
47:13,20 48:2 87:7	289:16,19,22 290:6	creep 276:13	cycle 152:16 418:18
117:17 136:8 174:22	299:17 300:9 301:7	crisis 94:1	0 y 0 10 2 . 10 7 10 . 10
175:5,9,10,19 215:13	301:13 309:3,12,22	Cristie 1:9,11 6:6 10:8,9	D
236:22 297:1,5	313:14 314:13 315:17	14:20 30:9 38:10 52:3	D 423:14
314:21 374:15 403:13	costing 229:18	55:3 57:6 129:13	D.C 1:9
415:3	costly 216:3	169:5 181:7 225:19	damaged 92:16
	230, 210.0		
II	•	:	:

	I	1	1
Dan 23:10,11 150:19	250:12 298:22 301:19	58:15 131:3 145:5	derived 83:8 105:17
155:13 160:7,17	302:12 314:16 381:1	253:10 256:19 258:10	describe 39:11 169:15
161:13 167:16 380:18	390:8 391:17	258:16 310:2,3 351:8	264:14
386:17	David's 302:3	declare 15:20	described 57:21
Dan's 166:14	DaVita 13:13,18	decompress 240:3	describes 261:1
dance 388:2	day 5:22 8:17 10:20	decrease 98:7 100:14	describing 38:14
dangerous 119:9	67:19 175:15 203:8	dedicated 15:17	description 121:2,15
DANIEL 2:10	258:21 259:5 295:16	deductible 192:19	deserve 128:7
darn 317:11	295:16 349:14,16	310:1	deserves 96:6
Darshak 80:6 86:5	356:9,22 358:15	deemed 56:7	designation 56:4
data 46:3 76:1,5 77:22	359:5,9 360:18 361:3	deep 218:21 398:6	designed 223:15
80:22 84:20 91:21	361:22 363:18 369:7	426:3	249:13 287:14 289:8
93:7,9 95:2,4,9 99:3	369:7 370:20 392:7	deeply 369:14	desire 43:20 50:13
112:22 119:22 124:11	393:15 400:14 403:1	default 66:9	142:16 155:11 316:7
124:19 125:13,19,22	411:7	defend 190:21	316:11
130:6 131:19,21	days 7:16 8:22 18:22	define 290:5	desired 140:15 338:6
132:1,6 133:7,10,13	26:12 27:15 29:17,19	defined 233:19 265:4	366:12
133:15,20 134:20	38:9 49:15 68:11	356:16	desires 258:3
136:7 137:7 138:4	103:6 132:20 193:21	definitely 100:2 139:7	despite 221:14
139:14,20,22 140:1,2	197:8 241:11 272:11	149:14 152:22 199:3	desserts 193:18
140:4,11,20 147:3,19	273:16 278:22 282:22	236:9 313:20 318:5	detail 17:11 208:1
148:1,3 151:9 157:10	299:15,16 356:15,17	327:3 370:14 419:16	231:21
157:16 158:2,3,9,18	358:19 359:21 361:8	definitions 114:19,22	detailed 197:2 398:3
159:1,11,12 161:12	361:21 362:6 365:8	deformities 208:14	details 59:16 329:16
161:19 164:4 166:6	367:22 368:2,2,3	degenerative 208:19	342:17 394:1
168:7 170:13 171:10	370:16 373:3 377:13	degree 405:8	determine 157:18 182:4
171:19 172:11,15,20	410:13,14 416:6	delayed 345:21	determined 43:2
172:20 192:18 207:5	417:20	deliberations 60:11	201:12
209:1 221:12,13	deal 25:13 129:11	67:11	determining 178:22
229:15,19 234:15,22	276:16 388:9 415:18	deliver 28:15	220:16 245:14
236:4,9 237:14 243:2	dealing 78:22 280:8	delivered 53:13	devastating 416:5
243:6,12,16 247:1,3	296:16 Dean 13:11	deliveries 141:20	develop 12:2 21:18
247:10,13,13,18		delivering 82:15 171:10 delivery 135:12 141:17	50:13 104:5 151:3
248:2 249:15,16 251:2,3,12 254:1,12	death 137:21 243:9 244:14	149:20 276:1	203:10 309:11 337:5 362:12
254:13 260:3,7 262:6	deaths 293:10	Delores 29:14 33:5	developed 20:4 38:18
262:7,8,9,9,11 263:16	debate 383:11	34:11 35:16 57:21	39:18,18 42:19 43:9
263:17,19,21 264:2	debated 104:1	118:1 139:1 140:8	43:14,18 44:4 47:19
264:22 265:2,5,16,22	debilitated 413:7	delved 126:7	47:21 52:10 53:15,19
266:9,17 278:18	decade 277:21	DEMEHIN 3:13	55:12 90:1,12 107:3
300:12,18 311:15,16	December 1:6 68:3	Demihin 75:3,4	118:13,15 150:17
323:15 328:7 332:20	118:16 401:3	demographic 89:5	153:19 200:1 203:9
333:9,13,14 335:22	decide 33:21 34:6	218:7 229:3	208:10 210:1,3 224:2
336:9,22 338:1,10,15	94:15 99:12,13 234:8	demonstrate 243:7	262:5 290:1 334:1
347:6,10 359:15,16	414:7	demonstrated 119:19	350:2 355:16,21
369:6 371:4,7,15,20	decided 21:7 352:16	demonstrating 82:3	376:5
371:22 372:3 374:4	417:16	denominated 110:9	developer 12:5 43:20
374:19 378:3 380:15	decides 129:18 277:9	denominator 40:12	44:6 91:1 122:4
380:21 381:4,6 385:7	decision 38:13 39:10	66:18 121:14 143:5	154:13 155:22 167:21
387:13 391:21 392:22	39:13,14 42:4,14 45:2	143:21 186:7 397:3	167:22 169:13,14
393:10 395:11 396:19	45:13 48:4 55:22 58:4	denominators 83:2	172:1 226:11 258:7
397:16 398:21 399:6	58:12,14 59:12,19	department 99:5	265:12 289:6 377:21
410:6,9 411:16 422:8	60:13 66:6 145:9	depend 45:5 426:1	394:18
Database 16:6	257:1 295:9 325:2	dependent 202:18	developers 46:20 47:4
date 7:15 112:15	352:10	233:18 343:5	104:12 122:2 232:9
dated 68:17 399:2	decision's 352:12	depending 44:5 137:19	234:21
David 1:13 11:11,13	decisions 19:1,5 34:17	248:2	developing 84:21 85:21
238:8 239:11 249:2	35:14,15 39:12 54:13	deprive 193:17	152:2 179:1 246:20
	I	l	l

II
259:14 271:6 development 10:13 13:16 40:3,4 43:6,22 44:21 45:6 47:17 51:12 53:9 54:1 89:20 89:21 102:6 103:14 103:14 104:11 105:10 105:18 106:7,8,17,18 106:22 107:17 108:1 108:15,20 144:5,7 151:12 206:22 244:20 245:11 248:3 255:6 257:8 355:20 357:10 392:6
develops 145:2 diagnoses 197:8 diagnosis 223:17 397:2 diagnosis-based
299:14 301:4 diagnostic 385:7 dialog 349:13,14,15,19 die 293:12 365:9 difference 73:8,12 201:19 202:6 203:15 229:20 231:16 232:3 245:8 247:8 258:12 280:22 368:1 380:12 382:1 404:3 419:9 differences 64:20 75:8 143:9 188:7 195:21 197:19 218:15,18 221:7 237:12 246:6 246:13 255:16 347:11 397:6 404:6 417:22
different 9:2,6 17:10 36:22 41:21 42:22 44:14 60:15 64:11 65:4,5 76:2,8 87:7 103:10 105:14 109:19 121:6 124:15,17,18 129:12 130:11 133:5 137:18 139:11 143:21 144:3 167:20 175:16 190:4 196:3,3 197:21 199:21 200:4 203:1,6 203:14 205:1 206:18 207:8 208:14 215:22 220:2,6 222:6 226:11
237:4,11 238:18 241:11 242:20 247:9 247:22 248:1,7,19 249:12,12,17,19 253:2 260:21 283:21 286:10 308:1 311:1 323:14 335:1 342:19 346:9 352:13 366:4 371:7 382:20 384:22 403:11 406:11,12,15

406:18,19 407:10,18 407:19 408:9,20 409:16,21,22 411:2 413:21 420:13 430:4 430:4 differently 9:5 137:22 174:10 differing 220:18 difficult 58:11 131:16 314:4 377:6 387:20 difficulty 384:3 405:8 dig 385:20 dilemma 417:3 dinged 425:13 dinging 300:2 301:19 302:12 dint 293:22 direct 20:10 160:17 339:6 direction 97:10 98:17 126:19 133:4 149:17 159:1,5 182:12 216:8 261:3 270:16 331:10 420:4 directly 17:13 81:5 88:18 96:1 123:15 171:4 205:3 289:1 director 2:17 12:1,10 15:7 16:20 19:16 20:17 26:6 80:7,14 261:12 dis-inform 21:9 disability 147:20 149:4 disabled 149:5,7 disadvantage 229:16 disadvantages 250:9 disagree 55:18 120:5 284:20 376:9 disagreed 64:4 disagreer 97:19 disappointing 363:16 disappoints 365:11 discharge 122:6 123:16 127:6 134:5 199:2 223:17 356:18 359:2 359:6,20 361:6 362:1 362:21 371:2 372:4,6 373:7 374:3 377:7,8 378:21,22 379:3 385:6 discharged 357:2 discharges 121:4,13,15 121:16

disclose 9:13,17 10:21

11:10,15 12:5,13,21 13:6 14:8 15:4 16:8

16:16,22 17:6,22

21:20 22:17 23:2

disclosing 261:8 disclosure 9:12 261:10 355:19 disclosures 4:2 8:20 9:5 10:5,11 13:17 16:2 17:12 19:7,11 20:14 25:4,6,9,20 261:15 discouraged 66:17 discouraging 101:15 discover 415:21 discrepancies 220:7 discrete 179:19 390:2 discuss 56:6 62:8,10 64:2,22 65:5,8 81:10 135:14 286:21 344:18 discussant 88:8 109:14 120:3 135:14 154:6 180:18 215:1 249:3 250:4 274:20 299:2 345:20 404:8 discussants 64:6 65:7 86:9 104:13 298:21 301:1 345:19 discussed 34:16 52:8 54:7 58:22 61:15 62:2 67:21 77:1 137:17 223:5 243:14 244:7 288:18 312:17 316:10 346:22 401:21 402:16 403:7,18 428:18 discussing 8:14 65:17 99:4 108:5 176:8 discussion 8:12 25:16 34:12 55:7 58:18.21 59:7,8,9,20 60:1,6,7 61:20 64:1,14 65:12 67:5,13 68:10 69:9 75:8 79:4 80:1 81:9 107:21 108:11 112:17 118:20 122:18 135:6 138:22 139:21 165:9 165:13 185:5 188:16 215:6 224:14 234:18 236:6 241:3 245:20 248:5 254:11 296:14 297:17,22 298:13 302:18 330:21 344:8 346:14 349:6,20 350:7 368:14 375:11 375:12,19 378:19 379:2 404:17 408:12 411:8 415:15 430:9 discussions 25:6 34:13 34:19 42:12 52:15,19 55:17 79:22 148:19 148:20 216:6 244:17 303:14 348:9 352:22

disease 2:10 12:19 23:12 80:16 101:5 172:8 334:21 diseases 203:12 208:19 disorders 203:12 **disparities** 54:21 73:21 191:9 221:14 236:11 displayed 320:18 322:4 330:12 351:2 disproportionate 198:6 disruption 200:2 disservice 333:1 distinct 275:5 distinction 44:18 289:20 distinctions 303:11 distributed 85:22 distribution 323:15 351:13 422:15,22 District 94:18 disturbing 363:15 disturbs 365:11 dive 123:4 diversity 29:10 30:6 diverted 176:2 divided 9:1 59:22 dividing 44:22 Division 19:16 **DMI** 274:4 **DNP** 2:4 **DNR** 256:19 doable 140:5 doctor 12:19 127:11 140:18 doctors 127:21 202:2,3 408:4 document 35:22 197:2 207:6 doing 31:1 70:12 73:19 90:18,22 98:12 102:16 114:2,10 132:19 161:11 180:13 216:8 232:7 236:18 239:16 250:22 268:13 293:18 348:10 360:22 364:15 365:5 378:15 390:10 410:5 417:9 419:3 dollars 49:20 194:22 195:8 277:9 **Dolores** 2:6 20:15,16 21:22 22:8 134:13,15 140:7 188:11 194:4 194:11 275:13 279:16 283:17 300:5 389:6 391:17 393:6 419:21 423:4 424:4 **Dolores's** 204:5

II
domain 50:7 299:9,10
401:10,11 421:20,20
421:21 422:2
domains 401:9
domestic 177:8
dominated 300:14
Donna 1:21 11:19,22
double 222:7,17 300:1
301:6,19 302:12
418:21 419:1
double-dinging 297:19
335:2
double-dipping 315:8
323:18
doubles 217:15
doubt 361:9
dovetail 169:20
downloaded 68:11
downstream 96:17
139:3 201:14
DPB 408:19
DR 7:19 10:4,22 11:11
11:17 12:7,14,22 13:7
13:19 14:2,9,22 15:5
15:13,21 16:11,17
17:1,7 18:5,19,21
17:1,7 18:5,19,21 19:7,9,10,13,15 20:6
20:7,15 21:22 22:4,7
22:10,19,21 23:3,6,10
23:11,21 24:2,7,12,22
26:1 29:2 31:14 34:11
37:13 40:13,15 41:12
42:18 43:10,17 44:3,8
45:9 52:3 64:12 80:5
89:3 90:5,11 91:14
93:1 95:15 97:18
107:2,12,14,15,16,17
107:19 110:2,13,20
111:2,17,21 112:1,5,6
112:11,20 113:2,14
113:18.21.22 114:3
113:18,21,22 114:3 114:21 115:2 121:1
121:20 122:22 123:10
124:2 128:20 129:22
130:17,22 138:18
142:4,7 147:1 148:7
148:16,22 149:9,11
150.10,22 143.3,11
152:12 154:20 155:16 160:16 161:8 162:11
165:17 166:13,18,21
167:2,4,7,15 168:2
169:4,11 171:21
172:19 184:16 185:10
207:14 209:18,21
210:4 222:11,17,21
223:5 237:2 242:9,12
242:15,21 246:16
248:13 249:4 251:9

252:2,9,14 253:8 254:21 257:4 262:19 262:21 266:8 271:16 274:22 278:8 279:22 280:12 283:18 285:15 285:20 303:4 305:18 306:6 311:11 312:2 316:6 325:18 326:13 328:22 332:12 337:3 343:15,21 344:11,16 348:3 351:7,20 352:1 352:8,18,20,21 353:6 353:11 357:8 359:14 362:19 367:14 370:6 371:11 372:19 374:9 375:21 384:1,21 387:10 393:16 395:6 399:19 404:9,20 405:3 408:11 410:2 410:14,17 411:15 412:15 418:12 419:15 421:6,8 422:12 425:7 427:8,10 drag 424:11,19 dragged 424:8 draw 299:19 418:12 drew 299:2 drive 37:11 87:6 129:9 159:4,13 201:6 311:15 368:7 393:1 driven 129:4 136:7 332.8 drivers 89:5 315:14 drives 129:3 376:13,14 driving 87:12 180:14 326:8 360:6 drop 280:3 dropping 334:20 drug 119:9 123:17 132:14 293:10 drugs 140:16 **dry-run** 419:4 dual 2:12 230:7 231:2 234:4 236:7 dually 229:17 duals 17:6 229:19 **Duct** 212:21 213:2 due 30:14 114:7 duplicate 198:17 duplicating 315:18 duplication 186:22 190:3 315:22 duplicative 192:12 273:3,13 durable 95:21 duration 171:2

DVT 388:12

DVTs 397:1

Ε **Eames** 14:4 70:13 176:18 earlier 47:13 52:8 55:3 74:16 78:20 104:13 119:12 125:1 139:2 153:13 204:5 207:17 253:4 254:11 260:10 289:4 303:6,14 319:12 336:8 337:1 349:16 earliest 131:13 417:15 417:17 early 95:22 118:1 160:20 330:3,22 378:22 379:3 419:5 earn 290:22 291:3 329:6,6 easily 204:3 easy 77:17 78:4 83:3 122:19 176:14 243:17 243:17 301:21 eat 174:7 177:8 389:9 echo 7:14 359:15 405:6 economic 220:18 277:18 economists 277:17 eCQM 75:16,18,22 76:15 119:5,20 248:16 253:21 **eCQMs** 76:1,3,7,10,13 **ED** 101:10 102:18 278:14,21 280:20 **edge** 8:14 educated 310:5 educating 419:18 education 205:21 220:17 351:16 355:12 educational 282:8 403:20 effect 33:20 49:10.11 90:15 139:3 230:1,5 300:2 380:22 415:19 **effective** 93:10,13 96:12 150:16 effectively 119:19 169:20 305:10 416:14 effects 85:17 efficiencies 200:21 efficiency 73:20 179:14 288:6 efficient 8:19 287:22 318:19 effort 97:10 161:11 178:8 221:10 260:2 efforts 8:4 82:20 92:19 94:3 154:8 163:10 169:21 221:15 224:3

418:8 egregiously 191:9 **EHR** 73:5,16 75:9 76:2 76:8 105:15,16 124:11 125:1,2,10 130:9 139:21 247:14 251:3 254:9 259:11 260:3,4,5 263:20 264:2 265:6,15,22 266:9,10 271:20 374:1,3 **EHR-based** 264:4 EHRs 73:18 128:22 132:2 247:14,19 248:3 249:9,12,13 251:19 255:19 272:6 eight 212:12 354:7 355:4 379:17 394:6 396:4 400:10 409:6 either 35:14 39:19 40:3 57:19 100:11 131:22 136:13 151:3 199:22 210:6 219:16 227:17 242:5 243:9 244:16 244:19 270:1 290:22 291:6 372:15 385:20 411:13 425:12 elaborate 124:3 elderly 136:1 142:18 election 331:14 **elective** 208:17 296:20 341:5 electronic 59:9 124:14 125:4 126:4 129:8 130:5 131:21 140:14 158:18,20 159:1 170:5 247:2 256:8 264:21 265:1 268:18 269:13 339:5 381:8 391:20 electronically 120:19 **elegant** 283:16 element 48:5 234:7 243:4.12 elements 251:3,18,21 263:19 264:2 265:5 266:12,16,17 384:16 **eleven** 409:6 **ELIGIBILITIES** 2:12 eligibility 230:7 234:5 236:7 eligible 229:17 231:2 eliminate 60:17 62:19 65:21 208:12 401:14 eliminates 149:6 356:13,21 359:3 361:7 362:4 eliminating 424:13

ELIZABETH 2:4	44:21 45:21 47:3 48:6	296:17 299:15 319:2	evasion 193:10
email 61:22 62:4	52:21 53:5,7 54:1,2	338:18 339:21 340:9	event 381:7 385:14
embark 287:12	54:15 123:2,5 135:18	340:19 341:5	events 23:18 132:14
embarrassed 424:10	137:1 147:7 152:17	episode-based 174:17	381:9,10 385:1,8,10
embarrassment 189:16	160:18 171:2 199:18	174:19 176:19 178:11	385:13 397:13 406:8
embolism 398:6	210:22 211:2 226:8	179:13 184:2 197:1	428:6
eMeasure 134:19	229:1 233:20 271:12	201:21 212:22 213:3	eventually 251:11
eMeasures 119:13	274:19 283:10 317:5	213:14 214:4 287:9	255:19
emerge 313:12	320:4,22 337:10,12	287:13 288:14,17	everybody 6:8,9 7:22
	endorsing 41:22	289:8,16,19,22	25:4,5 26:9 45:1
99:4	219:12,13 304:5	341:18	70:18 72:8,10 74:15
emerges 313:8	endpoint 358:15 359:1	episodes 178:11 179:2	105:20 162:16 173:2
Emeritus 13:10	359:9 361:6,20	183:11 187:5 197:14	194:2 212:19 219:4
emphasize 254:7	362:13	201:8	266:5 320:7 364:18
	ends 134:14 211:7	eQCM 144:9	374:12 389:11 400:13
	enemy 255:14	equal 66:1 256:6	429:6 430:7
empirically 234:12	engage 314:20	equally 279:12	everybody's 28:19
	engagement 188:2	equation 220:22 221:6	286:17 393:18
employee 13:18 92:3	257:7	301:5	everyone's 279:11
	engaging 73:21	equipped 278:2	Everything's 111:21
employers 85:3	Engler 1:13 11:11,12,13	equivalent 256:8	evidence 82:3 85:12
employment 85:5	238:10 239:12 250:13	ER 374:1	364:2 380:22
enable 110:8	255:11 265:9 298:22	Erin 2:18 27:2 37:17	evil 193:20 194:1
enables 170:4	299:1 314:18 390:9	38:4 55:20 68:9	evolution 194:15
	enhanced 91:21	117:12 411:18	426:14
	enormity 141:7	Erin's 56:17	evolve 195:18
ıı	enormous 75:20 83:19	Err 393:9	evolves 195:17
	enormously 294:8	Error 13:21 240:15	exact 126:8 143:14
1	enrolled 244:9	ESLISA 2:15	252:15 319:10
	enrollees 193:18	especially 8:8 36:14	exactly 116:18,22 117:5
, , -	ensued 47:13	49:16 50:20 75:22	159:22 165:17 181:9
	enter 258:17	117:13 129:9 219:18	230:22 344:14 380:11
	entering 291:16	220:5 302:2 338:3	examine 294:13
	enthusiastically 153:4	386:14 424:16	example 34:5 35:2
	entire 49:18 63:5 65:8	eSpecifications 119:11	46:21 52:15,17 67:7
107:22	74:20 280:17 365:10 386:10 422:1	eSpecified 124:13 essence 44:3 248:9	77:14 82:9 85:3 90:13 91:6 96:13,16 146:19
encourages 179:16 252:4	entirely 386:4	Essential 1:13 11:14	157:6 183:4
encouraging 133:5	entirety 110:9	238:15 250:19	examples 39:21 43:21
158:14	entitled 21:6	essentially 95:19 175:1	44:1
	entity 9:14	221:6 223:12 247:10	exceed 291:12
	envelop 190:20	247:11 285:10 329:7	Excel 38:19 39:1
	environment 209:9	351:13 417:9	excellent 15:21 17:7
251:7	386:16	establishment 187:4	28:1,3 246:4
-	environments 128:1,5	estimates 293:12	exception 190:18
	envision 99:17	397:12 399:7	excess 241:11 272:11
46:13 80:14,21 82:12	epidemic 141:8 293:6	et 147:11 253:2 370:10	273:16 280:9 282:22
118:16,16,19 152:12	294:4,12	370:10 399:8	397:12
152:13 154:22 155:19	epidemiological 86:12	etcetera 45:7,7	excited 27:5 37:9
160:8 161:1 178:4	86:15 87:1,19 137:9	ethical 191:5,10,17	151:22 152:1,20
	epidemiologist 24:6	ethnicity 221:13 239:7	exclusion 121:14,18
	episode 175:15 176:11	evaluate 95:5 318:19	122:3 259:3 384:9
256:7 262:22 263:8	184:3,8 185:18	evaluating 188:4 410:4	exclusions 137:8
285:2 286:6 316:22	186:13 187:7 197:9	evaluation 123:1	exclusively 188:4
317:5,12,15 345:5	200:22 207:15 214:20	157:18 207:21	272:19
347:2 355:14 356:2	215:20 219:21 228:12	evaluations 423:6	excuse 112:8 125:3
412:3,11,16,18,20	231:11 287:16,21	Evans 2:4 24:10,11,13	131:5 191:1 193:14
endorsement 39:22	289:5,7,15,21 290:5	24:16,16	220:11 259:15
ll I		l	I

executive 11:22 20:17 extra 279:6 363:18 149:1.14 330:22 202:11 324:6 325:11 **exist** 83:7 extracted 253:20 **fallen** 419:9 326:3 342:13 343:7 existence 200:6 269:14 **falls** 117:13 376:11 familiar 26:21 72:10 **existing** 197:6 273:3 **extremely** 38:1 190:17 feeling 36:15 93:15 299:6 301:3 308:3 342:13 361:10 363:15 114:11 145:1 155:20 279:14 363:13 315:4 419:10 237:3 244:1 feels 89:7 147:2 155:12 exists 366:22 371:3 families 369:5 389:16 feet 376:19 424:8,11,19 **expand** 142:17 202:16 **FAAN** 2:4 family 32:14 36:11 Feinberg 206:20,20 235:6 281:13 face 329:17 384:15 73:22 334:18 362:16 208:7 209:10 expanded 224:15 225:3 408:6 427:2 felt 161:3 202:15 215:5 **fantasy** 193:4 230:8 Facebook 7:1 far 27:20 35:17 36:10 246:20 275:7 292:14 expanding 216:16 FACEP 2:7 56:1 71:6 86:18 87:9 413:5 **expands** 235:5 **FACHE** 1:20 21:4 89:18 94:10 99:8 field 60:11 198:9 **expansion** 224:14,19 facilitate 55:6 241:2 125:22 126:10 157:2 234:15 235:2 236:15 163:15 182:13 195:9 facilitated 384:13 266:15 390:4 225:1,7 208:11 217:21 235:4 expect 9:8 63:4,18 fifth 27:4 150:11 facilities 336:13 231:16 276:18 347:11 facility 122:10,15,16 254:5 327:10 328:13 figure 109:21 126:8 365:3 421:16 198:11 335:8 377:8 380:14 402:16 418:5 164:8 194:18 279:19 expectation 164:11 419:11 425:17 facing 19:5 426:11 figured 116:11 314:6 **FACP** 1:18 **fashion** 378:10 427:16 166:6 275:16 expectations 164:1 fact 49:9 56:7 76:13 **FASN** 1:18 file 338:8 fast 114:16 fill 54:20 163:2 325:6 **expected** 351:1,5 102:1 114:2 116:12 expediting 424:13 119:17,21 132:3 faster 61:5 133:16 **filter** 39:1 **expenditure** 198:17,19 301:22 **final** 35:10,13 41:19 138:4 170:20 218:3 fate 243:8 244:13 42:1 52:1 53:4 58:12 expensive 198:4 221:10 235:11 245:10 experience 7:10 8:7 252:5 255:17 260:11 favor 138:1 301:22 84:15 171:19.22 40:1 154:11 160:13 298:13 299:20 301:2 384:2 390:5 426:22 211:17 214:18 427:18 160:21 161:4 170:15 301:3,5,9 304:8 311:7 favorable 116:14 finalization 227:14 177:17 179:19 182:11 favorite 189:1 finalized 225:2 415:1 349:20 350:20 370:15 192:19 214:13 249:10 389:18 390:2 393:10 favors 127:3 128:8 418:19 250:10 285:9 305:9 393:12 408:8 420:12 **FCCM** 2:5 finalizing 187:12 306:15 313:8,11 420:18 423:21 424:2 **FCCP** 2:5 finally 66:16 85:20 383:17 390:10 425:18 fear 221:4 424:9 191:19 experimentation 282:7 factor 80:19 218:1,10 feasibly 232:3 financial 20:1 21:20 expert 19:18 21:7 24:11 218:13 220:16,21 feature 300:20 185:21 187:22 291:11 57:2 233:2 221:5,17,19 230:10 featured 300:7 374:21 375:2,13,16 **features** 300:12 expertise 277:14 230:15 309:7,12 **find** 36:12 55:7 60:4 **experts** 2:3 9:4,21 17:9 314:9 329:22 federal 2:8 9:4 23:4 96:18 137:19 230:15 factoring 172:1 33:15 34:3 162:20 277:22 283:16 316:12 explain 64:3 317:20 factors 45:14 48:4 167:16 187:16 363:15 383:8 384:18 347:10 204:1 218:4,7,17,21 Federation 3:10 76:19 386:18 420:2 **explains** 39:14 407:17 fee 147:22 finding 25:14 380:19 227:8,10 229:3 explanation 215:7 231:17 233:3,10,16 fee-for 147:18 229:17 findings 82:15 235:4 fine 171:1 333:4 377:9 **explicit** 156:2,7 228:8 234:1,8,13 236:8 fee-for-service 136:10 explicitly 147:22 156:1 136:12 397:15 398:21 420:9 237:11,16 239:6 399:6 422:8 fingers 369:14 exploration 104:4 283:11 128:7 212:21 213:3 facts 316:20 320:6 feed 271:7 fingertips 339:2 **explored** 218:4 237:15 427:2 feedback 6:21,22 42:17 finish 63:13 152:17 express 92:9 failed 182:17 52:18 137:3,5,10 400:14 142:15 163:19 226:10 finished 404:9 **expressed** 75:20 281:2 failure 274:4 296:20 281:4 270:12,13 271:7 fire 376:19 307:18 308:9 315:13 extend 301:12 321:21 339:15 340:19 303:17 313:10,11,16 first 6:20 9:18 14:16 extension 282:6 18:3,6,6 26:7 27:13 398:17 396:1 fair 48:2 270:13 276:7 extensive 224:14 233:7 feel 6:22 28:1,7 35:16 30:20 31:18 38:16 35:19 48:18 62:6 extensively 22:13 53:7 61:6 64:2 74:17 277:13 278:2 309:16 extent 48:20 50:3 76:2 fairly 135:22 272:15 64:19 70:2 123:4 74:21 79:1 80:3 81:13 76:7 204:10 129:17 147:7 148:2 301:21 350:6 359:7 95:2,16 103:3,11 external 156:4 fall 45:11 117:18 148:15 169:4 174:18 196:7 108:6,14 109:10

II			
440.0 404.00 405.40	244.0 200.22 200.47	400:47 445:40	140.45 454.44 405.00
118:8 121:22 125:18	244:9 266:22 280:17	409:17 415:16	118:15 151:14 165:20
125:21 132:10 135:15	359:20 360:20 379:12	found 38:3 377:22	166:9 210:1,2 254:16
136:21 138:16 150:13	follows 59:21 123:22	381:9	280:19 372:15
150:15 155:14 158:3	130:6 197:5 333:16	foundation 19:2,2	fumes 302:6
158:11 160:4 163:4	food 242:7,10	four 19:19 79:3 101:11	function 87:19 304:12
173:22 174:10,22	foots 386:8	102:2 157:8,19	functional 186:10
175:12,19 185:11	for-service 148:1	164:21 174:16,22	243:10 252:11
188:13 207:16 210:16	force 125:5 218:6	175:2,10,12,16	functioning 370:10
215:2 225:10 233:21	foremost 125:19 158:4	176:10,18 181:4	functions 416:12
241:10 242:14 243:4	forget 28:13 141:4	199:11 206:6 213:12	fund 291:4
257:21 272:13 291:19	372:17	241:7,14 242:2,17	fundamental 170:9
296:12 297:3,9	form 155:21 157:17	246:1,12 260:16	funded 281:20 282:4,10
311:16 312:6 316:21	286:4,4 290:16	264:6,15 265:3	funding 20:12
343:11 359:16 363:5	347:17,20,21 361:14	266:16 269:5 296:13	funky 230:7
364:7 365:19,22	362:4 378:10	297:8 299:5,8,13	further 39:22 40:1,6
384:11,15 404:7,20	formal 42:16 62:17 68:2	300:3 315:4 320:3,21	44:5,11,13 47:17
408:13,19 409:5	253:10	333:21 335:1 336:8	89:22 104:4 105:18
411:7 429:15	format 176:9 388:22	428:12	106:21 108:15,19
fiscal 141:13 188:21	former 13:11 15:3	fourth 15:9 21:13 269:9	126:7 128:7 157:17
273:18 290:19,20	forms 19:5	Fowler 2:5 18:20,21,21	160:21 169:3 190:20
fit 188:18 293:14	formula 420:12	19:9,12 89:3 252:2	217:12 255:6 290:8
306:18 312:19	forth 31:4 117:14	427:10	301:6 314:21 331:11
fits 38:9 123:12	126:14,17 146:3	fraction 46:4	fusion 207:15 208:4
five 53:10 79:2 101:11	229:6 256:20	fractured 128:22	213:12,14
137:18 157:8,20	fortune 36:10	frame 36:14	future 35:19 87:17
241:14 345:8 410:22	forty-percent 165:4	frames 109:19	89:21 97:22 103:13
429:15	Forum 1:1,8	framework 324:3	103:14 104:10 126:17
five-minute 173:5			
	forward 8:11,16 17:21	328:18 332:15,16	154:4 168:18 206:2
fix 427:4,5	25:12 26:12 27:14	334:10	290:20 308:17
flexibility 247:21	29:8,14 31:7,12 37:7	frameworks 38:18,21	FY 131:6
flipping 79:1	43:19 46:7 50:1 52:12	framing 31:11	FY16 418:20
flips 101:19	52:15 69:5 119:14	freaky 182:5	FY17 418:18,20
floating 409:2	129:19 131:15 163:5	free 6:22 28:2,7	FY18 418:22
floor 1:8 59:8 65:7	169:6,8 172:4 174:5	frequency 309:15	
flow 59:4	178:9 214:15 218:11	frequently 35:13	G
flows 182:22	225:2 226:15 236:16	fresh 152:8	gain 160:13 200:21
FNKF 1:18	244:21 246:22 247:17	Frieden 80:15	285:8 313:8 420:19
focus 33:14 54:14	248:10 257:18 259:14	friendly 281:6	game 336:17 377:3,7
139:7 151:6 175:20	316:16 318:21 322:11	friends 140:13	378:10 383:2
177:1 215:21 273:6	326:19 330:8 334:11	front 51:18 57:2 225:5	gaming 376:16
274:12 295:7 305:3	363:6 367:14 381:15	230:22 292:2 315:7	gap 156:18 163:2
313:22 360:4 388:11	381:16 392:7 403:12	331:6 364:18 414:4,6	336:11
focused 14:14 37:1	410:7 411:4 417:16	414:10	gaps 32:2 39:6 54:21
148:18	429:9 430:16	fruition 133:20	190:7
focusing 140:21 208:17	Foster 1:13 11:4,5,6	frustrated 93:15	gastrostomy 243:21
270:9 311:7 388:12	21:8 30:20 47:8 48:10	frustration 75:21	gather 397:14 424:1
388:13	56:12,16 94:7 105:13	Fuld 1:14 14:11,12,19	gathered 112:22
folks 29:3 143:7 223:15	114:7 118:7,21 124:7	297:14 298:16 344:7	Geisinger 1:16 13:3
280:12 314:2 327:1	131:18 135:19 150:14	fulfill 85:16	general 50:8 54:12 80:1
370:17	180:19 181:6 202:21	full 8:11 10:1 29:17	163:22 164:10 175:5
follow 46:2 97:13	210:19 217:5 221:3	59:16 67:9 185:15	187:14 239:3 281:19
168:14 207:18 229:13	229:21 245:3 248:6	279:1 286:12 303:1	301:22 341:20 343:19
231:14 233:19 251:1	256:3 268:2 270:17	full-time 13:17	362:10 428:18
318:1,5 325:19	272:12,14 304:2	fully 39:17,18 42:19	generalize 238:21
361:17 419:2	307:7,14,17 330:20	43:8,14,18 44:4 47:18	generally 76:21 289:22
follow-up 122:14	346:21 347:19 350:17	47:21 52:10 53:15,19	generate 392:20
123:17	368:16 380:4,6	65:15 90:1 103:15	generated 391:20
following 243:11,19	381:20 391:16 403:10	107:3 117:4 118:13	generation 48:17 172:4
			-
II			

II
172:6,9 388:19
generic 151:7
geographic 81:7,13
83:2 84:5 197:18,19
geographical 195:21
geographically 83:20
197:21
geriatrics 20:8
getting 70:15 71:13 76:1 124:18 136:14
150:7,15 152:5
169:15 184:2 186:3
278:14,22 279:1
282:12 319:22 332:14
346:21 374:12 377:12
383:20 406:10 414:1
416:1 426:4 GI 308:12
give 6:22 7:11 17:11
33:11 37:10 40:18
46:8 50:11 52:1 54:8
54:10 59:6 60:5 64:6
101:21 128:16 187:21
204:12 208:9 211:17
256:2 275:14 287:7 315:10 339:12 354:4
354:12 369:3,5,13
389:14 397:3 400:16
400:19 415:13 416:11
416:18 420:20
given 34:2 36:14 42:2
80:22 88:18 101:6
153:17 171:11 226:10 252:5 255:17,18
256:12 267:17 283:19
290:6 294:11 295:6
301:2,3 310:7 315:13
315:15 370:15 378:16
381:22 418:1
gives 35:15 335:5 399:9
giving 290:10 378:12 glad 14:19 50:8 310:15
glean 368:20
global 67:18 103:21
104:7 295:15
go 8:18 18:3 22:5 24:9
37:14 40:13 42:17
45:1 48:4 51:4 52:9
53:3,6 59:10 63:4,5,7 65:13 68:16 69:5
70:22 75:2 79:19,21
80:2 83:11 84:12 89:2
89:18 97:21 98:18
99:15 108:10 117:19
121:5,8 128:11 131:4
131:5 134:18 135:14
140:18 142:1 145:12 147:16 150:13 155:13
1 17.13 100.10 100.10
II

```
160:11 163:15 164:22
 174:6,8 177:20
 189:10,16 199:2,9
 212:20 215:2 222:2
 225:10 228:3 229:6
 235:6,17 236:1,6,16
 238:8 242:1,14
 250:11 261:4 264:8
 272:13 276:14 281:17
 286:3 296:11 298:20
 306:5 307:3 311:8
 317:4,9,14,15,16
 320:16 321:5 323:1
 325:21 326:4,5,9
 328:21 338:15 339:9
 341:20 345:14 347:16
 348:12,13 350:13
 352:10 355:1 363:5
 384:11,15 392:16
 399:7 401:22 408:12
 409:11 413:17,19
 418:3 420:4,10 422:4
goal 72:21 164:12
 174:7 178:1 248:21
 287:21 409:3,8
goals 31:17 32:1 53:12
 54:19 73:15 243:13
 244:7,16 268:1 291:9
 401:13
goes 42:14 99:22
 130:21 175:18 177:11
 185:10 209:21 236:22
 271:10 317:12 328:17
 367:16,21 376:17
 408:18 430:3
going 7:6,11 8:18 10:7
 11:3 15:9 17:8 22:1
 25:17 28:21,22 33:6
 37:6,17 38:6,11 42:5
 45:2,5,21 46:7 47:5
 48:8,18 50:1,17 56:17
 59:4 60:19 63:2,7,9
 63:17 69:1,16,19
 70:12,13 72:6 74:17
 76:20 81:2,8 88:5
 95:5 97:11 100:18,19
 100:22 101:21 102:3
 105:6 107:8 109:8
 112:17 113:19 114:8
 119:14 122:9,10
 124:10 129:1,11
 134:15 135:13 136:12
 141:18 142:7 143:10
 149:16 150:8 151:3
 153:9 157:1 158:9
 161:17,19 162:7,12
 164:4 166:8 169:17
```

```
174:6,8,9 176:10,11
  176:17 177:12 180:19
  182:4 185:13,14
  190:11 192:15 193:1
  194:5 206:1 207:20
  208:2 209:13,13,15
  213:11 217:6 219:21
  226:5,20 227:13
  229:7,21 234:18
  235:1,8 236:3,3,13,14
  238:6 239:18,19
  242:18 245:7,19
  250:20 256:1 258:4
  259:19 261:19 264:12
  268:4 273:17 275:2
  277:22 278:14 279:12
  279:14,20 280:7
  284:6 296:11 298:20
  302:19 304:3 306:20
  311:11 315:17 321:10
  326:1 328:9 332:5,6
  332:20 341:15 343:4
  343:6 344:1 345:13
  346:2,10 353:17
  356:20 363:12 367:10
  368:7 370:13 376:16
  382:4 383:4,14 386:9
  386:11,12 387:7
  388:19 389:18,19
  393:8 396:17 400:13
  402:1 405:9 406:12
  407:11 410:4 418:9
  421:2,4 422:4 423:14
  425:12,13,16,18
  426:7,22 430:5
gold 200:4 371:17
good 7:21 11:12 12:15
  15:1,6 16:12 22:5
  27:7 35:16,19 36:10
  38:10 45:22 90:21
  98:12 99:3 119:9
  139:19 149:12 150:16
  153:8,19 173:3 174:4
  179:4 180:9 181:11
  216:8 223:4 240:5
  241:22 249:15 254:15
  272:1,10 287:2 323:5
  329:20 331:17 332:17
  333:3,13 348:18
  370:8,20 371:15
  376:15 383:10 388:15
  394:16,22 403:5
  413:10 417:8 418:15
  426:7,9,20 427:14,20
  427:22 430:9,10
qosh 135:19
gotten 172:2 207:7
  219:4 393:11,12
```

government 2:8 162:20 305:2 grabs 145:13 gradations 420:12 gradually 81:22 **Graft** 379:13 grafting 355:15 356:6 361:15 grants 17:14 18:9 22:16 granular 221:1 278:18 granularity 316:12 grapple 236:13 grave 42:8 387:11 great 14:9 24:7 27:14 27:19 41:18 42:3 88:14 107:19 118:21 138:17,21 148:8 224:21 245:16 262:4 297:14 300:6 337:3 387:8 391:2 415:18 greater 65:22 116:6 394:11 **Greg** 18:4,5,19 120:22 249:2 271:15 274:21 285:14 **GREGORY** 2:4 gross 177:8 ground 210:8 241:5 429:7 group 2:18 10:10 13:16 14:14 17:6 18:12 20:17 21:14 23:13 26:6 36:6 61:7 64:19 80:12 81:12 101:17 103:18,19 104:6,10 104:14 152:5 178:10 185:18 186:13 207:20 224:21 225:5 240:12 242:2,17 246:12 269:10 297:1 305:10 305:14 316:17 323:6 323:9 331:11 333:10 359:11,22 360:3,8 382:8,11 **group's** 107:8 grouped 78:21 245:21 grouper 202:22 203:6 207:15 289:8,15,21 groupers 187:7 199:20 200:5 grouping 219:14 303:8 groupings 241:2 303:8 groups 9:2,6 59:22 104:22,22 241:6 360:4 **grow** 276:1 guess 7:22 45:9 75:11

172:5,8 173:5,19

77:5 143:18 149:11

161:8,16 162:2,8 hard 26:10 51:19 52:20 167:4 168:13 185:10 126:3 142:10 229:19 250:1 252:3 273:15 386:18 404:4 420:2 422:3 425:11 427:1 286:20 297:19,21 305:14 315:19 327:6 hard-pressed 155:3 327:7 358:2,9 363:15 harm 390:13,17 391:2,5 376:9 405:18 406:22 391:8,20 424:22 408:7 418:4,22 419:3 harmonized 79:6 88:10 guidance 54:12 233:12 110:2 113:15.16 248:10 270:16 115:11 346:16 353:21 quide 55:7 59:9,20 60:7 354:18 67:6 68:10 108:11 harmonizing 115:1 122:18 339:5 415:15 **harms** 397:8,11,11,12 guideline 137:13,15,16 Hartford 12:18 Haskell 13:21 37:4 **guidelines** 15:8 67:2 70:14 240:11,14,14 106:21 **guiding** 31:16 376:22 382:10 399:15 guilty 277:11 hat 45:11 327:7 335:21 guys 8:20 26:2 116:11 363:12 378:6 211:17 260:1 354:4 hate 41:16 97:18 hated 135:20 Н Hatlie 1:15 15:13,14,15 **HAC** 64:21 395:18 36:8 69:1 104:19 168:22 220:11 289:10 396:9,10 400:15,17 301:17 333:20 386:21 400:20 401:2,13 404:12 408:19 409:12 424:4 425:3 409:15,18 413:3,7 Hayden 3:14 121:20,21 415:21 417:1 421:17 125:16,16 143:12 308:4 317:21,21 427:16 hack 285:11 286:22 320:9,12 321:6,20 **Hacks** 286:3 322:16 329:18 366:5 **HACRP** 5:10,14 **HCAHPS** 292:9,21 **HACs** 400:21 401:6,14 293:14,16 294:19 401:15,17 424:13 head 189:15 246:9,11 half 14:7 265:18 338:9 hammer 93:6 headlines 416:4 hand 57:4 108:18 125:5 **heads** 319:22 170:13 294:6 414:16 headway 35:1 415:5 health 1:16,19,20 2:1 happen 76:4 89:8 92:17 10:11 11:2 12:11 13:3 120:18 124:20 146:13 13:4,13,18 15:3 16:21 161:19 171:10 208:21 19:4 23:1 27:12 54:21 228:5 280:3 363:1 73:20 74:1,2 81:16,18 412:7 424:2 84:4 88:16 92:5 93:4 94:1,5 95:12 97:9 happened 86:8 116:5 184:8 391:22 420:15 98:3,6,8,9 102:13,21 happening 127:12 103:21 104:7,22 161:4 179:12 180:11 124:14 129:8 130:5 180:14 247:4 276:14 131:21 140:14 141:14 278:12,20 365:2 156:5 158:17 177:6 177:11 189:2 204:6 383:11 408:14

37:12 43:13 49:6 53:12 80:8 98:1,17 159:10 164:17 393:17 424.22 healthcare-associated 113:13 healthier 92:7 177:12 Healthwise 19:3 hear 11:21 33:20 141:2 154:3 161:16 162:13 163:19 184:9 223:1 256:21 257:13 268:4 289:10 303:7,16 310:15 314:22 326:17 363:20 388:9 heard 25:18 65:6 119:11 124:11,22 125:21 140:12 146:11 160:17 162:16 164:14 165:13,15 211:3 228:22 237:6 254:11 260:10,17 261:2 267:14 283:9 316:6,9 316:11 323:13 355:7 356:5 358:17 410:22 hearing 17:21 29:14 115:8 142:11 143:14 161:13 167:15 229:5 267:14 290:8 302:18 327:1,3,5 374:15 407:20 heart 16:5 274:4 296:20 307:17 308:9 315:13 321:20 339:15 340:19 361:10,12,14,16,22 377:1 heartened 162:13 314:22 Heather 1:16 13:1,2 250:4 275:10 285:16 373:20 heavily 128:8 135:22 139:7 394:3,7,17 heavy 100:4 heed 154:17 Heidi 3:10 76:18 held 87:21 280:7 Helen 2:15 7:18,19 11:5 13:21 14:7 30:10 37:4 70:14 146:5,7 160:4 227:2 240:10,14 376:21 382:9 383:12 Helen's 378:11 Hello 27:1 121:20 240:14 help 31:3,6,13 36:4 55:6 131:19 147:14 175:8 177:22 208:20

214:15 232:10 236:15 245:16 246:19 258:18 295:21 311:12 325:19 328:1,17 330:8 336:5 350:13 369:17,19 helped 224:2 308:22,22 362:11 helpful 38:2 78:6 87:17 108:16 163:19 183:6 194:13 311:14 322:22 328:3 330:3,17 331:4 334:11 337:2,21,22 338:9 375:8 418:11 helpfully 124:10 helping 38:2 109:3 210:11 238:1 331:18 helps 33:3 54:4 131:12 133:3 158:22 159:4 198:12 259:9 384:10 hematoma 398:15 hemorrhage 398:15 heterogeneous 206:13 hey 333:6 416:7 Hi 10:9 11:22 14:11 16:19 18:5,21 22:21 23:6 26:4 27:16 125:16 132:9 206:20 208:7 225:22 261:11 308:4 317:21 high 54:14 123:11 132:13 146:12 171:13 178:2,19 183:13 192:10,18 200:13,14 200:17,17 201:2,9 231:1,3 333:22 338:16 342:16 high-level 54:10 high-priority 142:20 high-value 178:3 high-volume 199:13 higher 99:19 101:21 153:7,22 177:15 186:2 192:6 195:6,7 204:7 highest 199:14 315:14 401:5 highly 54:16 142:18 233:7 389:13 hip 296:21 317:3,11,17 318:21 321:4 337:15 339:15 341:5 HIQR 4:6,7 186:21 hire 102:16 hiring 92:3 historically 35:17 301:10 315:6 hit 48:16 71:17 168:13 365:9

219:17 247:2 261:13

264:22 265:2 268:18

269:14 271:18 288:2

291:10 314:3 381:3,8

391:21 401:12

healthcare 2:9 18:16

23:14,16 33:22 37:2

happens 40:17 46:4,6

66:22 179:6 199:1

201:3 232:12 253:6

276:3 280:4 294:19 **happy** 6:6 21:12 23:9

270:11 308:19 399:11

81:9 141:5 224:9

II			
hitting 71:13	195:9 197:13,14	160:13 161:11 162:5	
HMO 17:4	199:6,7 201:13	169:18 179:16 195:4	intro marrie 204:0
hoc 225:11	204:20 223:22 228:12	195:7,10 198:2	iatrogenic 384:8
hodgepodge 31:10	253:7,16 257:17	221:11 229:16 231:1	Icahn 20:9
36:19	266:21 272:21 273:4	231:2 238:15 250:9	iCare 17:4
hog 99:16	276:5,12 277:1,12	250:19 252:4 253:22	ICD-10 209:7,9 251:10
hold 50:21 86:6 97:12	278:19 283:14,15	258:10,18,22 266:14	259:15 261:20,22
184:12 224:18 284:15	287:10 288:5,20	275:22 276:7,19	262:2,3 386:6,16
•	1	278:1,19 279:19	395:8
holding 376:18 400:13	290:10,13,16 292:9		ICD-9 259:14
hole 94:20	296:16 305:20 306:1	290:22 291:5,12	ICU 370:16
holiday 8:2	306:22 307:18 308:10	292:16,22 293:18	IDC-10 209:6
holidays 8:10	310:19 313:18 318:4	294:21 300:15 301:6	idea 41:17,18 103:22
holistic 294:4	319:2,11 320:18	302:2,2,4,6,14 304:21	104:2,3,4,16 109:21
Holters 112:22	321:22 322:12 327:17	309:17 335:3,17	110:17 128:13 137:6
home 121:4,5,9,13,15	330:12 332:5 335:6	347:12 350:20 351:13	166:9 244:5 280:15
121:17 122:1,11,14	339:20 340:7,17	357:17,22 358:1,7,8	314:7 333:5,13
122:20 244:4 282:6	341:3 351:2 357:15	375:3 381:22 382:13	352:17 375:18 380:14
356:20	359:3 361:7 362:22	390:15 394:8 400:21	386:2,5 411:3 420:21
homebound 282:5	368:17 370:2 377:18	401:5 403:21 405:10	427:15,20,22
homes 121:7	378:22 379:11 387:2	405:13 415:19 416:2	ideal 256:5 391:19
homogeneity 206:14	388:9 389:4 394:15	417:13,21 419:6,19	identical 81:2 114:18
hone 38:2	400:22 401:3 403:15	420:17 421:16 422:4	263:17,18
honed 169:20	404:3 416:5 422:15	422:16,21 424:9	identification 183:15
honestly 93:17 155:12	424:16	425:9,11,17 426:6,14	identified 39:5 51:6
234:20 363:21 382:19	hospital's 88:18 91:10	427:1	64:6 288:1 312:16
honor 21:5	95:6 157:6	hot 152:8	381:7
hope 34:8 38:3 54:3	hospital-based 82:17	hour 393:15	identify 61:16 75:2
126:18 144:9 198:12	87:15 128:2,4	hour's 365:8	113:4 263:16 380:20
221:3 270:15 308:18	Hospital-Level 214:19	hourly 429:19	385:7
308:22 399:9 424:14	h : (- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 00 40 470 0	
300.22 333.3 424.14	hospitalist 127:12	hours 29:18 173:3	identifying 259:1
hopeful 349:12	hospitalization 133:1	House's 162:20	identifying 259:1 270:12 384:4
•			270:12 384:4
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7	hospitalization 133:1	House's 162:20	270:12 384:4 ignorant 148:11
hopeful 349:12 hopefully 8:4 33:3 61:4	hospitalization 133:1 205:4,10,12 216:2	House's 162:20 housekeeping 56:21	270:12 384:4 ignorant 148:11 ignore 33:12
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2 89:14 90:8 92:2,7	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2 91:10,17 92:11,15	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9 HVBP 4:17 305:20	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22 205:22 225:13 233:9
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2 89:14 90:8 92:2,7 99:13,15 104:6 121:3	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2 91:10,17 92:11,15 93:8 94:12,17 95:10	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9 HVBP 4:17 305:20 306:3 312:10,11,15	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22 205:22 225:13 233:9 238:19,22 239:6
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2 89:14 90:8 92:2,7 99:13,15 104:6 121:3 123:15 125:10 127:13	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2 91:10,17 92:11,15 93:8 94:12,17 95:10 95:12 96:2 98:8 99:15	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9 HVBP 4:17 305:20 306:3 312:10,11,15 318:7 326:15,21	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22 205:22 225:13 233:9 238:19,22 239:6 351:12,12 382:3
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2 89:14 90:8 92:2,7 99:13,15 104:6 121:3 123:15 125:10 127:13 127:19,20 128:12	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2 91:10,17 92:11,15 93:8 94:12,17 95:10 95:12 96:2 98:8 99:15 102:7,21 103:20	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9 HVBP 4:17 305:20 306:3 312:10,11,15 318:7 326:15,21 329:3 348:4 353:5	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22 205:22 225:13 233:9 238:19,22 239:6 351:12,12 382:3 388:17 394:11
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2 89:14 90:8 92:2,7 99:13,15 104:6 121:3 127:19,20 128:12 132:2,18 133:2 134:5	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2 91:10,17 92:11,15 93:8 94:12,17 95:10 95:12 96:2 98:8 99:15 102:7,21 103:20 104:6,21 105:3 113:3	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9 HVBP 4:17 305:20 306:3 312:10,11,15 318:7 326:15,21 329:3 348:4 353:5 hybrid 130:3 247:12	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22 205:22 225:13 233:9 238:19,22 239:6 351:12,12 382:3 388:17 394:11 impacted 82:4 375:14
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2 89:14 90:8 92:2,7 99:13,15 104:6 121:3 127:19,20 128:12 132:2,18 133:2 134:5 137:11 145:11 147:16	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2 91:10,17 92:11,15 93:8 94:12,17 95:10 95:12 96:2 98:8 99:15 102:7,21 103:20 104:6,21 105:3 113:3 119:6 120:6,9 125:7	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9 HVBP 4:17 305:20 306:3 312:10,11,15 318:7 326:15,21 329:3 348:4 353:5 hybrid 130:3 247:12 264:20 265:4 268:16	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22 205:22 225:13 233:9 238:19,22 239:6 351:12,12 382:3 388:17 394:11 impacted 82:4 375:14 impactful 388:7 390:21
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2 89:14 90:8 92:2,7 99:13,15 104:6 121:3 123:15 125:10 127:13 127:19,20 128:12 132:2,18 133:2 134:5 137:11 145:11 147:16 153:1,7 155:9 157:3	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2 91:10,17 92:11,15 93:8 94:12,17 95:10 95:12 96:2 98:8 99:15 102:7,21 103:20 104:6,21 105:3 113:3 119:6 120:6,9 125:7 126:1,20 127:18	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9 HVBP 4:17 305:20 306:3 312:10,11,15 318:7 326:15,21 329:3 348:4 353:5 hybrid 130:3 247:12 264:20 265:4 268:16 269:12 270:8,9	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22 205:22 225:13 233:9 238:19,22 239:6 351:12,12 382:3 388:17 394:11 impacted 82:4 375:14 impacting 50:22 85:18
hopeful 349:12 hopefully 8:4 33:3 61:4 175:8,17 207:7 232:11 236:18 322:6 426:14 hoping 268:3 319:21 333:2 Hopkins 16:4 hospice 244:9 258:16 258:21 259:4 hospital 1:3,12,13 2:17 3:13 4:5,8,10,12,15 4:18,20 5:5,9,16 8:13 11:8 12:20 15:3 18:12 26:6,17 27:3,14,18 31:7 35:13 38:20 46:12 58:10 73:2 75:4 82:5 83:7,22 87:2 89:14 90:8 92:2,7 99:13,15 104:6 121:3 123:15 125:10 127:13 127:19,20 128:12 132:2,18 133:2 134:5 137:11 145:11 147:16 153:1,7 155:9 157:3 157:21 160:12 161:21	hospitalization 133:1 205:4,10,12 216:2 266:22 272:11 280:18 281:9 283:1 292:16 292:18 392:2 hospitalizations 18:14 96:6 113:5,6,9 hospitalized 89:13 93:19 hospitals 1:13 3:10 11:14 21:8 72:15,18 72:22 73:18 74:12 75:20 76:9,17,20 77:2 77:17 82:11,12,20 83:15,17,18 84:16 85:14,16 86:17,21 87:11,17,20 89:8 90:16,17,20,22 91:2 91:10,17 92:11,15 93:8 94:12,17 95:10 95:12 96:2 98:8 99:15 102:7,21 103:20 104:6,21 105:3 113:3 119:6 120:6,9 125:7 126:1,20 127:18 131:20 132:4,21	House's 162:20 housekeeping 56:21 240:11 345:16 Houston 10:21 how's 253:7 400:12 HPVP 395:17 HR 124:4 357:19 HTR 251:20 Huff 14:1,4,4 70:13 132:9 144:14 176:18 177:4 182:21 215:19 225:22 huge 78:4 90:15 149:8 149:8 189:15 190:6 human 126:3 249:8 367:1,5 393:9 humanity 255:20 hungry 229:9 HVBP 4:17 305:20 306:3 312:10,11,15 318:7 326:15,21 329:3 348:4 353:5 hybrid 130:3 247:12 264:20 265:4 268:16 269:12 270:8,9 Hyperplasia 214:3	270:12 384:4 ignorant 148:11 ignore 33:12 illness 195:1 ills 279:17 illuminate 41:7 221:7 illuminated 331:11 image 231:7 imagine 32:21 99:17 127:5 149:7 161:10 204:3 365:7 391:4 IME 198:3 immediately 160:14 impact 34:8 49:12 50:18 82:13 83:19 84:18 86:13,21 91:3,4 91:15,18 92:2 93:3,17 98:13 99:14 100:6,17 102:9,14,20 170:22 205:22 225:13 233:9 238:19,22 239:6 351:12,12 382:3 388:17 394:11 impacted 82:4 375:14 impactful 388:7 390:21

II	i	i	i
92:1,4 96:20 302:1	328:1,14 335:8	income 234:4 236:8	infant 146:20
377:16	336:10,15,20 337:7	incomprehensible	Infarction 340:10
impairment 243:10	337:19 338:7 361:20	20:22	infection 96:15 113:13
impede 92:18	390:20 392:20 405:13	incorporate 99:18	115:12 308:12 346:17
imperfect 140:4 393:14	418:7 419:14	251:21 263:12	353:22 354:19 385:3
implement 53:2 131:9	improvements 161:22	incorporated 67:5	385:8 390:22
247:6 248:8 303:18	216:10	incorporates 217:16	infections 23:17 157:8
326:14	improves 133:15	incorporating 46:16	348:22
implementation 26:20	improving 32:14,15	increase 54:22 100:14	infectious 12:19 172:8
50:14 131:1,3 251:22	53:12 73:22 388:12	401:14	infiltrated 225:16
326:14 329:2	in-patient 102:18	increased 91:16	influence 88:18 178:16
implemented 32:3,22	inaccurate 381:12	increasing 34:2 81:22	196:15 201:14 234:1
45:14 131:16 163:22	inappropriate 151:4	93:9 290:18 293:5	234:5
187:7 232:15 306:3	157:19	405:8,10	influenced 234:13
implementing 337:6	incentive 72:13,22 73:5	increasingly 36:21	inform 240:22
422:18 423:2	73:13 75:10 99:3	132:21 159:2	information 19:4 40:11
implications 246:7	156:7 166:4 290:17	incredible 33:20 34:8	45:13 59:13 73:1,2
implicitly 199:3	291:11 302:14 356:21	incredibly 30:21 390:21	74:3 77:10,15 81:3
importance 8:13	358:18 359:3 360:2	incremental 97:16	83:12 92:5 106:8,19
important 8:9 30:22	361:8 363:17 372:13	138:11	107:21 113:9 120:12
49:13 58:19 77:3 83:6	379:3 401:4	independent 14:5	127:18 129:20 130:4
86:11,12,15 94:1,10	incentives 98:18	independently 51:10	130:8,10 140:12
94:11 96:5 119:8	100:11 101:19 291:11	index 197:19,20 231:4	144:19 145:3,12,17
121:6 123:11 130:1	294:2 302:16 329:6,7	390:13,16	150:18,20 156:17
132:11 133:21 135:21	361:2 373:13 376:10	indicate 155:22 156:18	168:7 170:6,7 180:13
136:20 140:2 142:15	400:20 incentivization 362:5	339:10 indicated 43:20 145:21	182:13 183:4,7,9,9,18 215:11 247:13 271:18
144:16,17 150:15 156:15 160:20 161:9	incentivize 73:17 96:14	231:4 244:20 298:14	281:7,12,13 287:9
161:18 163:17 167:19	98:2 102:3,7 105:8	382:6 395:1	310:3 313:8 325:14
170:9 179:3,5 180:5,6	336:14,19 424:15	indication 101:7 350:19	369:4,7 374:1 381:22
181:10 182:8 184:6	incentivized 98:10	397:4	383:19,19 397:14
184:20 185:20 189:20	362:21	indicator 156:15 170:17	403:14,20 405:12
203:21 245:5,14	incentivizes 356:8	370:8,20 374:3 380:2	417:19
246:14 257:6,15	incidents 401:15	399:10 400:4 412:16	informed 19:1 20:19
260:4 273:21 293:3	include 54:20 73:19	412:17,17	73:3 325:3
295:12 297:21 298:1	133:14 147:4 166:16	indicators 24:5 187:17	ingenuity 335:9
322:9 348:21 349:19	170:8 172:7 232:3	394:2,7 396:3,5,20	inherent 407:4
350:7,10 361:10,17	251:12 254:19 270:21	398:8,13 421:13	initial 209:22
366:16 367:8 369:2,6	274:11 288:6 371:9	425:21	initials 20:21 22:8
387:2,3,4 388:16	389:20 401:13	Indicators/AHRQ 380:2	initiated 85:4
393:2 405:14 426:16	included 158:16 167:9	400:3	initiative 162:19,22
430:11	174:12 201:9,22	individual 2:3 9:4 17:18	349:2 355:18
importantly 25:8 141:1	217:14 227:10,17	34:15 57:20 61:20	initiatives 90:19
416:1	233:11,17 234:9	62:2 63:22 110:8	injudicious 170:22
imposing 125:9	247:15 293:16 298:7	120:8 129:7 175:21	injudiciousness 170:18
impoverished 204:4	305:4,11 347:5	233:18 234:16 253:7	injuries 397:3
impress 89:16	366:16 385:1,10	384:16 386:1 390:18	injury 349:17 398:16
impression 237:17	includes 38:21 264:19	392:11 417:13	injustice 276:20 277:18
improve 28:11 98:6 158:2 271:6 291:10	396:5 398:12,14 401:10,11	individualized 389:1 individually 31:20	Innovation 80:8 Innovations 18:12
401:15	including 38:13 84:5	61:15 235:12	inpatient 4:5,8,10,12
improved 38:17 92:16	121:7 128:9 132:13	individuals 17:10 95:17	49:15 84:22 91:22
133:20 285:2 288:2	133:12 136:2 143:4	118:7 121:17 134:4	121:3,16 122:10
improvement 7:4 8:5	148:21 170:6 233:3	143:13 144:1	127:4,11 130:9 188:4
15:8,16,18 19:21,21	265:6 275:3 280:19	indulge 194:3	205:10
28:14 37:11 77:19	312:17 359:17 381:1	industry 219:15	inpatients 82:10
82:8 151:13 171:14	inclusion 160:1 229:2	industry-related 20:14	input 4:8,10,12,18,20
239:16 291:8 313:2	251:17 305:8 347:1,2	inevitable 389:22	5:5,16 28:19 30:1,3,6
	l	I	
•			

58:13 131:2 172:2.2.3 interventions 82:5 380:7 383:17 384:11 115:3 348:17 349:11 355:13 357:20 361:4 173:4 224:22 248:14 85:13 96:11 384:15 405:12 408:13 303:7 316:16 329:21 introduce 14:3 16:1 408:16,18 409:11,18 **January** 68:4 259:20 330:3,6,16 331:6,19 23:5 232:18 409:20 410:4 **JD** 1:15 369:10 introduced 109:11 **IQR's** 119:5 **Jean** 210:13 **INR** 118:6 121:6,17 222:4 irritating 189:5 **Jean-Luc** 2:19 27:17 122:1,4,7 130:7 134:4 introducing 261:7 ischemic 241:8 242:3 57:5 70:8 261:6 **INRs** 120:11 introductions 4:2 8:19 266:22 268:17 269:13 354:12 insecure 36:15 ISIJOLA 2:17 Jeff 1:15 15:21 16:3 10:5 25:21 inside 276:4 introductory 59:5 isolated 359:4 366:14 70:21 92:22 97:15 **insight** 326:8 investigation 157:12 396:22 103:7 114:15 345:20 insofar 113:8 investigators 20:2 **issue** 57:14 58:19,20 346:1 348:15 349:7 instance 40:19 234:4 investment 100:20 94:11 95:8 124:6 350:13 357:6 359:15 instances 110:8 113:4 281:21 126:8 128:22 129:11 360:19 362:17 363:9 invited 9:10 132:12 133:7 136:20 364:1 368:21 369:12 **Institute** 16:5 20:10 142:20 162:17 163:6 institution 22:12 93:22 involve 218:22 370:22 371:16 166:8 involved 10:12 28:5 164:10 180:4 188:14 **Jeff's** 363:9 382:6 institutions 129:9 34:19 47:10,11 188:18 190:1.16 Jennifer 13:22 14:4 191:4,12 101:15 206:18 227:3 191:1,18,21 192:1,1 70:13 106:10 144:12 insufficient 40:10 106:8 276:10 349:12 355:20 204:11 217:22 273:6 176:17,22 180:17 106:19 360:12 375:4 396:2 295:12 300:6,8 182:17 215:1,2,17 **insulted** 423:19 involvement 430:13 303:14 315:3,7 217:3 225:19,21 insurance 20:17 147:4 involves 294:5,5 349:19 356:4 357:4 Jennifer's 132:8 193:20,20 219:17 **IOM** 331:9,9 424:5 358:12,14,17 360:10 jerk 220:20 **IPPS** 197:14 201:7 360:17,21 366:10,10 iob 10:20 28:4 98:12 220:6 integrated 128:9 418:18 366:15 382:18.20 105:4 190:12 216:8 intend 225:17 **IQI** 118:14 143:19 389:8 393:2.5 394:20 365:3 413:15 intended 55:15 147:18 144:22 149:19 161:13 395:13 410:17 412:9 **Johns** 16:4 157:14 161:2 281:10 161:20 183:5 Johnson 232:21 **issued** 193:13 281:13 **IQR** 10:2 64:21 72:4,12 issues 8:15,16 19:6 ioin 30:5 391:16 intent 51:15 153:19 73:5 74:10 75:6,9,17 25:13,20 44:14 59:18 joining 11:1 Joint 360:7 156:1 163:9 248:8 81:7,14 96:4 97:1 65:4 69:12,15 71:13 83:10 120:17 126:22 intention 53:21 105:15 109:11,22 jointly 355:16,21 intentional 51:3 110:6,16 129:21 130:1 134:20 136:3 judgments 193:8 intentionally 50:20 135:9 138:2.22 138:7 146:10 147:10 iudicious 78:5 interacting 102:17 139:13 145:9 148:17 147:11 152:6 163:14 iudiciousness 170:18 interaction 249:8 149:14 160:11 163:6 164:15 165:14 175:3 juice 77:4 268:8 July 188:22 321:11 interchangeably 42:21 163:22 164:7,11 175:6 177:16,17 intercity 229:15 166:16 167:5 171:20 179:4 181:3 191:7 370:1 interest 4:2 9:14 20:1 223:7 226:7 253:12 196:14 236:13 258:4 jump 56:22 65:9 234:1,6 256:18 253:19 257:16 263:2 258:15 275:20 277:20 **June** 302:5 257:3 261:14 318:10 263:7,7,10 264:18 295:11 297:4,12 juxtaposition 119:1 interested 81:17 143:3 280:14 285:8,21 302:15 329:1,17 Κ 144:18 163:2 238:17 286:1,3,7,12,13,21 341:21 358:9 371:20 302:18 315:1 399:1 303:15 304:7,12 403:1 427:3,4 **Kansas** 92:6 it'd 317:11 interesting 8:12 81:3 305:15 306:2,5,7,14 Karen 1:19 3:18 16:17 103:22 104:3 235:3 307:3 311:1,3,6,13 item 57:20 61:14 79:17 16:19 232:21 249:11 313:20 391:13 312:11,13 316:22 118:6 240:21 412:17 **keep** 6:8 7:12 51:18 421:10 317:4,14,15,16,18 items 56:21 62:2 54:11 63:19 70:20 interests 9:10 17:19 345:17 319:3,11,13,17,19 71:7,13 94:7 103:5 intermediate 146:2 iteration 170:16 172:4 129:16 192:5 243:17 320:4,15 321:5,9,14 internal 156:4 237:3 321:17 322:19 323:16 185:16 278:9 252:4 295:19 356:8 348:9 418:7 422:17 324:18,20,22 325:3 356:21 358:18 361:8 internally 77:21 164:8 325:21,22 326:5,6,10 362:5 363:10,18 352:22 419:17 326:16,19 332:2,17 **Jack** 2:5 18:20,21 89:2 372:13 410:19 Internet 59:18 332:19 333:3,7,12 93:17 252:1 427:9 keeping 113:11 158:19 interplay 293:4 342:14 347:1,3 348:5 334:15 365:7 376:19 **Jacobs** 1:15 16:3,4 interpreted 305:15 353:5 355:11 374:16 103:8 114:16,22 **Kelly** 2:1 11:1 180:22

1
004-0 0 44
261:6,9,11
kept 193:14 271:22
key 57:17 69:15 83:15
97:7 132:13 201:19
202:6 257:21
kick 203:2
kicking 334:6
kidding 417:5
kidney 1:18 13:14,15
13:16 398:16
Kim 196:19 289:18
kind 31:9 36:9 38:2
40:16,16 41:22 44:22
48:16 50:11,18 51:18
52:1 54:10 76:15 80:1
97:18 98:16 99:21
123:17 125:20 127:18
136:10 149:5 162:6
173:13 174:14 176:1
176:13 177:1 181:4
181:20 185:6,18,22
186:7,8 194:16 196:6
196:14 198:9 202:17
206:16,18 209:5
226:21 237:7,18
241:2 242:17 245:21
252:22 253:1,3 275:6
295:4 310:17 311:5,7
324:3,8,11 325:18
328:17 330:10 331:13
333:1,16 335:9,14
344:8 346:4 359:4
364:9 373:1,8,11,12
377:13 378:8 379:4
383:18 384:12 388:1
391:5 392:8,12,13,18
407:9 416:22 417:19
418:10 420:20 426:16
kinds 17:16 89:9
130:19 277:20 294:2
303:19 304:16 335:11
kit 84:21 85:21
Klassen 381:2
knee 220:20 296:21
317:3,3,10,17 318:21
321:4 337:15 339:16
341:6
knew 112:16 241:4
280:6 354:14 416:8
knots 275:19
know 9:1 10:22 13:21
17:17 20:22 21:1,8
23:21 28:1,12 29:3,16
29:18 30:13 32:10
34:12 36:17 38:1
40:15 42:1,10 46:21
47:8 51:22 59:3,11,18
66:21 76:22 77:9

```
84:22 85:2 87:11 89:4
91:10 92:13 99:17
107:8 108:8 109:7
110:16 121:9,14
122:1 127:5,6 128:8
131:12 135:8 141:8
141:10 143:17,19
144:11 149:2 151:16
153:14 155:5 167:18
168:17 173:19 177:10
180:21 181:15,16
182:6,12,13 183:13
184:21 186:10 189:4
192:8,15,17 193:2,5
193:21 195:3,5,7,10
195:14 198:8 200:15
201:7 202:11 203:3
203:19 204:10 205:7
208:5 215:4,8,9
220:13 221:16 223:13
224:11 226:18 229:7
232:12 235:3,6,22
236:4,15 237:2,16
238:1 243:13 247:17
252:5 253:8,17,20
254:5 259:12 261:18
265:18 270:2.4.17
272:5 273:2,12 275:7
276:22 277:19 279:5
281:22 282:7,13,14
294:7 297:16,20
299:3 302:8,13,19
303:13,17 304:19
306:10 307:21 311:4
311:14,22 312:7,8
313:7 314:5,14 322:5
323:4,8,10,16,18,21
324:4 325:6,13,15
326:19 328:2,7,16,19
329:13,22 330:5,6,11
330:14 331:16,21
332:1,12,16 333:3,10
333:16 336:21,21
337:8 342:5,20 343:2
343:2 345:9 347:7
348:10 351:4 355:13
358:16 359:6 360:19
364:1 365:8,9 367:6
368:1,2,19 369:9,16
370:14 371:1,12,16
371:20 373:9,12
374:6,16 377:1,10
378:8,16 379:4
380:11 382:15 383:2
383:5,18 391:6 392:1
392:1 393:8 396:21
398:20,22 399:3
404:4 412:6,16 413:9
```

```
415:4 416:7 417:5,7
  417:22 418:5,8,16
  419:7 420:6 421:3
  422:4,7,10,20 423:20
  425:7,14 426:22
knowing 185:15 309:12
  384:14
knowledge 19:22 136:6
  219:14 220:2 221:1
  226:4
known 80:20 137:4
  179:8 347:15 380:3
knows 25:4 42:12
  370:19 430:8
kudos 37:10
lab 127:8,10 130:16
labeled 68:20
labor 137:16 142:2
laboratory 128:10,11
labs 127:3 263:20
laceration 398:2
lack 187:8 240:13
  272:19 356:17 392:15
  408:1
LaDonna 345:17
laid 176:9
landscape 247:1
language 121:10
  221:13 239:7
large 30:14 36:6 84:4
  92:8 159:9 167:16
  178:5 208:13 235:20
  273:2 300:15,15
  359:16 397:20
largely 119:10 193:22
  395:16
larger 32:22 98:14
  276:1 395:12
larynx 243:20
lastly 23:3 25:3
late 16:9 330:22 332:14
  354:10
latest 68:18
Laughter 6:11,14,17
  7:2 10:3 14:18 16:10
  21:2,11,21 22:3,9
  24:15 33:8 70:3 71:22
  79:15 103:4 108:2
  142:6 165:11 167:6
  168:1 172:22 365:14
```

413:15 414:3.20

64:5 65:6 79:21 86:9 88:7 109:14 120:3 135:14 154:6 180:18 187:7 196:20 209:16 215:1 249:2 250:3 274:20 298:20 300:13 345:18,20 404:7 leader 80:15 leaders 390:22 leading 46:21 216:1 260:5 leads 287:6 learn 238:3 learning 47:9 235:1 306:17 leave 76:4 79:13 140:14 241:17 256:14 286:17 368:21 413:7 **leaves** 413:2 leaving 430:5 led 224:2 226:11 left 57:16 63:20 68:21 107:8,10 108:12 188:19 leg 420:8 legislature 189:10 legitimate 221:19 legitimately 84:16 **Legree's** 193:16 **Lemons** 3:16 287:4,5 lengthy 53:4,6 Leslie 1:20 16:11,12,17 79:10 88:7,10 108:5 109:1,2 120:3 138:10 154:5 186:15 201:4 206:10 221:21 251:15 284:18 286:20 372:11 383:13,21 let's 18:3 28:13 108:3 116:8 128:15 149:18 155:13 175:18 179:13 200:2 211:7 220:5 221:9 228:10 241:14 242:8 246:9,11 264:8 325:4 346:15 350:12 414:5 415:4 428:4 **letting** 365:13 level 34:14 43:2,4 44:9 44:10,12,14 80:21 81:1,4 82:6 83:10,13 84:19 85:8 90:2,3,4,6 92:20 123:7 153:1 175:14 180:12 195:6 198:9,11 220:17 228:12 284:21 296:17 319:2 335:16 339:20 340:8,18 341:4 381:12 391:2

367:12 **Laurie** 206:20

lawyer 15:19

layer 196:10

lead 20:2 23:13 24:5

II
levels 41:21 83:3
153:22 311:1
levers 327:22
Levy 2:5 19:15,15 64:12
107:2,14,16,19
128:20 154:20 166:13
166:18,21 167:4,7
252:14 254:21 266:8
285:20 311:11 325:18
351:20 352:8,20
353:6 370:6 375:21
384:1 404:9,20 405:3
II
408:11
Lewis 1:16 13:1,2,2
250:5 275:11 285:17
373:21
LHRM 1:21
LIAISON 2:12
liaisons 2:8 9:5
lieu 110:17
life 66:21 252:6 258:3
258:10 268:1 304:7
393:14
lift 78:4 100:4
lifted 233:13
lifting 233:14
light 71:11 365:4
lightbulb 367:21
likelihood 342:16
limit 67:14,15 81:8
limitation 143:7 357:14
limitations 88:17 163:7
limited 194:19 357:18
362:13 412:8
line 44:22 122:2 132:8
296:4 329:17 334:20
418:15
linear 328:12
lined 306:5
lines 44:15 49:3 102:7
291:18 330:1 428:16
linger 49:17
link 122:20 123:3
linking 216:7
links 123:1 332:4
list 10:6 11:3 24:14 29:4
31:15,21 32:6,19 33:3
34:9 36:13 41:10 49:1
51:14 52:13 53:20
59:15 63:5 76:12
79:17 113:17 140:7
159:19 199:15 245:17
265:12 268:14 269:10
292:4 307:1 321:14
337:21 342:22 348:4
416:2
listed 85:17 108:15
listen 36:11

listening 33:19 126:20
256:3
literally 15:22 152:11 literature 137:20
little 16:8 17:9 33:4
36:15 41:7 52:17 57:2
59:4 60:15 61:5 66:11 66:19 67:6 71:2 77:17
87:7 88:7 103:10
115:7 117:9 119:16 121:4,11 124:4 126:7
137:8 142:10 143:14
150:7 165:8 174:9
180:12 182:10,13 189:9 190:20 194:15
195:16 206:13 215:6
217:11 230:7 232:1,3
232:7,11 240:3 241:5 257:10 267:12 274:2
275:6 278:18 287:8
296:22 297:17 308:18 315:11 316:13 318:15
320:2 324:6,7 325:1,8
326:7 377:6 407:16
408:9 413:11,14 420:13 429:13 430:4
430:4
live 89:10 302:3 347:16 382:4
lives 98:13 100:7 102:9
living 243:9
local 79:18 80:17 88:13 106:5
local-based 92:1
located 83:20 89:9 location 43:13 127:7
157:21
locations 122:6,8
156:17,22 157:11 lofty 137:8
logic 161:5
long 53:11 135:9 141:9 173:3 200:6 236:12
258:7 327:20 328:11
349:5 370:7,10 386:22,22 391:7
403:1 424:20 430:6
long-term 18:13 longer 28:6 58:6 66:19
73:12 74:12 133:19
192:2 296:14 360:2
396:5 412:18 look 7:11 8:11 29:8.13
look 7:11 8:11 29:8,13 31:9,9,19,21,22 32:1
32:7 36:13,18 39:1 42:6 48:18 51:8,19
77:3,14,18 86:11
00 04 00 40 00 00 00

```
114:13 121:22 132:20
  139:4 144:6 150:22
  151:14 153:9 154:1
  178:22 179:19 183:18
  186:6,11 192:18
  195:4 197:11 198:4
  200:17 203:8,10,22
  204:21 205:6,19
  207:5 208:2 221:13
  226:12 227:2 229:15
  229:19,22 230:12,13
  231:21 232:14 233:2
  233:8 235:7 264:12
  272:17 278:8 304:11
  309:17 312:10,21
  314:12 327:15 328:4
  330:4 337:5 338:16
  339:4 342:19,22
  360:1,4 363:19
  367:14 368:18 377:10
  377:14,19 381:9
  385:21 388:15 391:22
  416:9 422:13 426:7
  430:15
looked 39:3 87:9 101:3
  136:6 208:17 224:5
  225:11,15 226:15
  227:6 230:4 231:1,8
  237:11 250:17 273:1
  301:10 315:11,12
  381:6 393:22 396:13
looking 8:15 17:21
  18:17 26:12 27:14
  37:15 73:19 78:3
  86:13 92:5 94:17
  102:12 119:10 132:17
  133:21 137:11 143:22
  144:1 145:16 146:19
  151:15 158:8 164:13
  178:14 179:5 183:11
  183:14,16 184:6
  205:2,14 208:16
  226:2 231:10 235:11
  238:18 239:5 248:9
  260:14 261:2,3 271:1
  277:1 282:19 283:20
  290:4 297:2 299:4
  307:22 309:14 311:12
  313:10 314:21 315:1
  317:7 319:9 320:13
  326:4 333:9 345:14
  363:10 383:5 392:7
  393:2 415:22 422:5,6
  422:20 426:9 429:9
looks 153:5 179:18
  208:22,22 212:1
  274:4 310:10 323:17
  337:9 349:21 354:3
```

394:14 399:22 lost 158:12 **lot** 7:5 8:15,21 19:20 26:16,21 36:11 45:5 51:13 65:11 87:16 89:4 100:16 102:8 109:15 123:12 140:15 141:15 145:5,12 162:12 171:9 173:3 200:22 201:9,13 202:1 215:19 217:17 218:15 220:7 231:6 252:6 304:22 315:22 319:22 324:15 331:3 351:15 375:21 402:16 402:22 429:7 430:9 430:10 lots 87:3 121:6 172:2 208:18 328:13 Louis 1:19 16:20 love 6:21 110:1 256:21 258:8 314:20 363:3 loved 347:15 **lovely** 10:6 low 234:4 236:8 lower 260:9 lowering 189:3 **Luc** 210:14 lucky 30:12 **Luke's** 92:6 lunch 66:19 173:17 174:2 229:9 238:9,12 239:18,21 240:1,3,4 **Lutzow** 2:13 17:2,3,3 48:14 229:13 281:18 366:20 M

ma'am 296:5 magic 70:10 117:4 magnitude 34:2 main 19:20 59:10 233:6 233:9 247:8 357:4 maintain 74:2 maintenance 114:4 352:3 major 92:12 96:5 198:22 221:10 273:7 302:9 381:5 majority 103:11 making 35:1 127:20 145:9 147:15 177:12 257:1 277:1 294:17 295:5 326:11 337:21 352:13 364:20 376:3 376:11 381:16 418:3 421:14 maligning 151:4

90:21 96:16 98:22,22

malleable 167:18 manage 293:19 manageable 8:7 management 292:8,13 293:5 294:18,21 349:17 manager 2:17,18,19 27:2,9 335:6 **mandate** 76:9.17 mandated 20:5 129:10 372:3 mandating 129:3 mandatory 75:18 manner 81:2 154:17 map 2:12 8:1,3,13,13 10:18 11:15 14:15 15:9 18:6 19:19 23:2 26:7,9 27:4,14,18 29:9 30:1,2 31:1 32:6 32:7 34:13 38:12,20 39:9 40:22 41:3,11 42:9 46:16 50:13 53:8 55:13,14 58:5 60:11 61:9 96:8 131:2 143:20 168:9 172:11 172:16 185:14.16 187:3 223:8 232:19 238:16 239:5 263:11 271:7,9 274:9 305:7 315:7 318:6 326:18 331:12 332:19 334:9 334:14 363:14 **MAP's** 17:5 303:7 **MAPs** 12:12 288:13 336:1 MARCIA 2:20 Marie 2:7 22:20 90:10 123:9 372:17,18 373:20 425:6 Marie's 280:10 Marinelarena 2:17 26:4 26:5,15 46:11 72:5 74:11 111:7,10,12,15 118:12 121:12 370:21 377:14 406:2,6 408:22 409:14 market 72:16 73:11 188:7 199:22 219:22 219:22 220:4 309:20 markets 300:14 marrying 338:5 Martin 1:15 15:13 Marty 15:14 36:7 68:22 97:15 104:18 120:21 168:21 220:10 221:3 299:2 300:22 301:15 333:19 386:20 424:3 Maryland 84:6 92:7

94:18 Mass 12:12 Massachusetts 2:2 20:18 188:19 189:14 **massive** 343:3 match 392:17 matching 185:19 material 36:16 materials 38:20 55:8 194:19 **maternal** 146:19 mathematically 386:3 matter 2:3 9:4,21 17:9 19:18 21:7 45:20 57:2 58:9,19 63:3 173:8 240:7 345:10 357:1 378:9 389:18 430:18 matters 222:14 **mature** 171:19 **Mayo** 94:16 **MBA** 1:11,19 2:2,13 **MD** 1:11,12,15,18 2:2,5 2:6,7,7,10,11,15 3:11 10:20 mean 18:1 25:7 41:1 42:19 44:22 45:7 52:21 90:18 93:1 101:3 107:6 109:4 111:22 121:21 124:17 130:18 131:1,19 148:7,8,16 149:1,12 152:10 159:22 161:9 162:3 164:6 166:4 167:1,15,16 169:1 178:13 191:10 194:21 196:8 201:21 224:9 248:14 270:3 301:20 302:3 313:15 316:6 317:8 323:13 327:18 327:19 329:18 330:3 333:20,21 334:2 336:16 338:4,19 344:17 345:8 366:21 367:3 370:6 371:17 374:14 377:20 378:21 379:1 385:17 386:21 394:5 404:1 405:7 406:1,19 407:1,6,11 407:19,22 412:13 413:9,11 414:5,14 415:2 419:22 421:9 423:1,20 424:12 427:12 meaning 264:21 306:2 313:2 415:19 meaningful 48:16,22 49:4 64:20 73:13,18 74:10 105:15 158:16

222:8 267:21 287:18 meaningfully 98:12 100:6 101:12 102:9 102:17 means 46:9 171:7 210:7 233:15 244:10 345:9 353:18 368:19 392:18 416:12 meant 43:13 211:9 304:11 343:19 measure 1:3 4:9,11,13 4:14,19,21 5:7 12:5 13:16 23:16 26:18 33:2 35:2 38:14,18 39:2,6 40:7 41:4,5,10 41:18 42:4 43:3,6,7,9 43:11 44:4,7 45:6,22 46:14,20 47:6,18 48:7 50:3,3 52:11,16 53:2 53:9,15 54:8,20 55:5 55:13 57:19,22 58:4 58:14 59:14,15,21 60:1,5,20 61:3 64:1,9 64:15 65:3,13,14,15 65:22 74:20 79:5,5,6 79:12.21 80:11 81:7 81:14.15 83:6.17 84:11 86:8 88:11,13 88:16,19 89:19 93:14 99:11,16 103:3,16,20 104:11,11,15 105:17 106:2,2,3 107:3 108:4 108:14,18,20,21 109:8 110:3,4 112:21 112:21 113:7,8,15 114:11,12,18 115:12 116:8,14 118:13,14 119:4,10 120:7 121:19 122:2,9,12,19 123:11 124:13 126:11 126:14,20 129:1,6,18 130:3,4 131:10 132:15 133:18,21 134:18 135:1,11,17 135:20 137:6 138:21 139:5,10,12,15,16 140:10 141:18 142:2 143:1,8,10 144:3,16 144:21,22 145:4,21 145:22 146:4,15 147:3,9,13,17,21 148:2,8,14,14 149:12 149:19 150:9,11,12 150:15,16 151:2,12 151:16 154:11,13,14 155:6,17,21,21 156:1 156:3,3,11,14,14 157:5,13 158:1,2,13

158:15,18,22 159:2,8 160:8,10,14,19 161:2 161:18 163:8 164:7 164:11,16 165:6,15 166:2,15 167:19,21 167:22 168:6 169:19 170:16,21 171:10,18 171:22 172:14 175:13 175:15 176:4,12 178:4 180:3,10 184:2 186:1,20 187:11 191:17,17 192:5 198:18,19,20 199:4,8 199:18 200:20 201:18 202:9,16 204:19 205:2,5 206:22 207:19 209:14 210:16 211:5,11 212:20,22 213:4,15,22 214:4,18 214:21 215:18 216:4 216:5,6,14,18 217:12 217:14,18 219:10,13 223:10 224:2,20 225:7,8 226:6,6,11 227:4,11,18,18,22 228:4.13 232:9 233:18 234:20 235:5 235:12 244:6,18,19 245:11 247:7,11,12 248:10,16,19,21 249:14,14 250:8 251:14 252:4,11,16 253:11,19,21,22 254:1,4,6 255:6,14 256:9 257:8,12,18,19 257:20,21 258:7,21 259:2,6,10,12,16 260:8 261:17 262:12 262:22 263:1,12,15 264:17,18,20,20 265:4 267:1,16,18 268:14,17 269:8,10 269:13 270:9 272:7,9 272:15 273:2.4 274:10,14 275:2,6 278:9,10,17 279:10 279:18,21 280:21 281:1,1,14 283:20,21 283:22 284:7,10,18 285:3,7,9,10,21 287:6 287:9 288:8,9 289:6 293:17 298:7,17 299:6,21 301:3,13,18 303:18 304:12 305:4 305:22 306:21 307:12 308:1 309:4,5,9 311:20 312:11 313:4 313:6,9,17,19 315:4

217.12 10 210.2 7 10
317:12,19 318:2,7,18
318:20 319:3 320:12 320:14 321:9 322:10 322:17,18 326:15
320:14 321:9 322:10
322:17,18 326:15
330:7 334:22 335:2
335:13,18 338:5,17
339:21 342:17 346:14
346:15,18 347:1,14
347:16 349:6,8,8,11
349:20,21 350:1,8,9
349:20,21 350:1,8,9 350:11,14,22 351:5
351:21 352:2,3,11,13
352:15,19 353:7,19
353:22 354:19 355:9
356:7,11,19 357:14
358:19 359:5,12
360:3 362:8,11 364:5
364·10 20 20 365·19
364:10,20,20 365:19 365:20 366:1,3,16,16
367:3 368:16 369:22
371:1,2,12 372:7,14
373:2 376:1,7,15
277.5 270.1,7,13
377:5 378:3,9,17,19 379:5,22 380:15,18
379.5,22 300.15,10
381:13,14,16 382:1,2 382:7,11,14 383:3
384:12,17 385:11
384:12,17 385:11
387:16,20 388:6,14
391:20 392:10 393:5
393:19 394:1,14
396:6,8 397:22
401:20 402:16,19
403:3,6,16,22 404:6
409:16,21,22 410:3,6
411:3 413:8,10 415:6
416:9,12,14,19
417:10,11 418:9
419:10 421:15 424:9
424:15,17 425:22
427:15 429:21
measure's 106:4
386:21
measure-specific 48:9
measured 80:18 140:4
181:10 377:3 382:21
measurement 2:16,20
12:10 58:10 84:12
97:21 120:9 130:20
171:14 332:8 347:14
349:14 392:8
measurements 98:18
202:17
measures 4:7,17 5:13
12:2,6 16:15 18:17
21:19 23:8 26:18,21
28:16,16 29:20 31:7
31:10,12,22 32:2,20
33:1,17 34:7,20 35:3
33.1,17 04.1,20 00.0

```
37:15 38:22 39:3.10
39:12,18,19 40:3,19
41:13 42:20,21 43:14
43:14,19 46:4,12,17
47:1,5 48:15,21 49:1
49:7,10,13 50:2,14,15
50:19 51:4,13,14,20
52:6,12 53:19 54:15
55:11 58:21 61:7,13
62:4,7,9 63:6,19,22
64:13,18 67:4,15
69:14 73:6 74:19
76:12 77:3,6,9,15
78:22 79:2 80:3 81:17
81:19 82:12 88:6
103:18 104:5 108:13
110:5 113:13,20
121:6 123:14,21
125:3 129:12 131:7
132:16 133:3,9 135:7
135:21 136:3 139:5
142:16 143:4,6 144:6
145:2 146:17,18
148:10,13 163:22
174:12,16,17,22
175:2,16 176:7,11,16
176:19,21 177:22
178:5,6,7,9,11,22
179:1,4,14 180:1,7
181:4,11,14 182:7
183:5,6,20 184:11
186:19 187:1,12,15
187:16,20 188:3
194:7 196:20 197:1,7
198:10,16,21 199:6
200:16 201:16,20
202:7,12,14 203:9
205:13 206:7 209:17
210:1 216:9,21
219:12 221:12 223:6
223:11 224:13 225:2
225:8,9,14,17 226:12
230:20 231:6,10,17
232:2,13 235:4,11,17
235:18,19,20,22
238:19 242:2,19,22
245:7 246:21 247:3
247:10 248:15 253:1
253:11 254:10,19
256:6,22 259:4,19,21
260:12,15,22 262:5
267:22 268:6 271:11
271:20 272:2,3,4
275:5 279:4 280:5,14
281:2,11,12 283:13
287:14,17 288:5,7,11
288:14,17,19,22
289:5,9,14,16,20
```

```
290:1 292:1,4 295:8
 295:20 296:1,2,13,18
 297:8 298:1,3,9 299:4
  299:5,8,13 300:3
  301:12 303:9,13,15
  303:19 304:5,14,17
  305:7 306:5,7,13,16
  307:12 308:9,13
  309:5 310:9 311:1
 312:7,13,15,21
 313:12 314:12,15
  315:4,16 316:2,14,21
  325:20 326:2,19
  327:12 329:11 330:5
  330:12,14 333:21
  334:1,16,18 335:11
  336:8 337:5,11,12
  338:20 341:17,19
  342:2 345:2,5 346:10
  353:12 355:14 356:2
  357:5,11,18,19 358:3
  358:10 362:20 363:3
  366:6 367:1 370:12
 370:22 371:15 372:4
  372:21 373:4.22
  376:5 377:3.10 381:7
  388:19 389:1,8,12,17
  389:17,19 390:1,14
  390:17,18 391:11
  394:10 395:9,12
  399:3,4 401:8,18
  402:15 404:13,16
 411:1 412:7 415:1
  418:19 419:13 420:3
 422:18,19 425:12
 427:15 429:15,16,19
 429:22
measuring 28:12,13
  158:8 230:6 249:18
  331:22 348:22 396:7
median 377:22
Medicaid 2:11 3:12,15
  3:17,19 18:12 23:2
  49:20 97:3 147:4
  148:8,10,19 149:16
 230:8 302:5
medical 12:18 13:12,13
  13:21 19:1,6 33:22
  49:18 101:6,9 113:7
  113:11 240:15 370:16
  390:22 396:17,18
Medicare 2:11 3:11,14
  3:16,18 18:11 49:20
  75:9 80:8 136:2,10,11
  143:1 147:18,22
  148:18 149:1 180:2
  180:14 181:21 186:19
  197:6 200:14,15
```

204:18 282:5 288:7 290:13,15 298:15 299:7 300:12,18 315:15 380:15 382:19 397:15 398:20 399:6 401:6 422:8 medication 119:7 158:20 medicine 13:11 19:17 20:8,9 22:11,18 237:4 292:14 meet 48:21 53:12 117:3 291:12 356:22 362:6 meeting 4:2 6:4,5,8 18:7 25:8 28:9,19,20 30:13 59:11 72:7,14 meetings 33:14 126:12 meets 367:16 Megan 3:14 121:20 125:16 143:11 308:4 317:21 329:15 Mehta 1:17 15:6,7 159:17 Melissa 2:17 26:5 72:3 member 10:14 11:5.12 11:21 12:9.15 13:2.9 13:20 14:11,19,21 15:1,6,14 16:3,12,19 17:3 19:12 30:20 36:8 46:2 47:8 48:10,14 56:12,16 61:18 64:1 65:4 68:9 69:1 74:7 79:10 86:10 88:3,9,14 94:7 95:1 103:8 104:19 105:13 108:7 109:2,15 110:11,14 110:21 111:5,9,11,13 111:19,22 112:3,9,12 114:7,16,22 115:3 118:21 120:4,15 124:7 127:2 130:12 130:18 131:18 135:19 136:19 138:11,16,20 150:14 151:21 152:10 152:15,19 154:7 159:17 168:22 169:9 181:6 186:16 194:9 198:15 202:21 206:11 209:5 210:19 215:4 217:5 219:8 220:11 221:3,22 229:13,21 238:10 239:12 245:3 246:3 248:6 250:5,13 251:16 255:11 256:3 261:18 265:9 268:2 270:17 272:14 273:10 274:15 275:11 281:18 284:19 285:17 286:5

			455
	I	I	I
286:13 289:10 297:14	111:6 127:2 136:21	minutes 30:17 67:16	monitored 122:7
298:16 299:1 301:17	137:14,15 138:2	81:9 107:21 240:3	134:20
304:2 307:7,14,17	152:1,6 153:6,18	345:8,9	monitoring 118:6
309:3 314:18 323:4	154:1 155:2 156:20	MIPS 184:22 185:2	121:17 122:1 134:4
330:20 333:20 342:4	215:7,10 222:21	187:3	month 261:22
342:8 344:7 346:21	250:17 301:11 356:22	mirror 393:3	monthly 367:16
347:19 348:17 349:11	361:11,17 362:6	misalignment 32:10	months 27:19 53:18
350:17 355:13 357:20	374:16,22 375:11,13	misguided 155:12	101:11 227:14
361:4 365:18 366:8	384:10 385:18 386:7	missed 25:1 62:3	moot 358:13
366:20 368:16 372:12	387:11 405:19,20,21	399:16	morning 7:21 11:12
373:21 374:14 376:22	406:11,16,17 407:20	missing 115:16 164:21	12:15 14:7 15:1,6,14
380:6 381:20 382:10	408:1,4 413:21	211:16 212:1 214:5	16:12 27:7 38:11 75:3
383:14 385:17 386:21	metrics 20:4 74:9	354:21,22	268:9
390:9 391:16 393:22	112:13 137:12 155:1	mission 384:10	Morrison 2:6 20:7,7
399:15 403:10 405:6	194:15 195:8 196:8,9	Missouri 18:8	93:1 124:2 242:9,12
405:18 406:4,9,22	209:6,8 239:1 255:13	misuse 158:6	242:15,21 252:9
409:17 410:12,16	255:14 261:20 273:16	Mitch 107:1 256:16	359:14 367:14
412:13,22 414:12,17	273:18,20 274:7	266:7 270:21 325:17	mortality 146:20,20
414:20 415:16 424:4	301:2 342:6,14 343:8	351:19 369:16 370:5	177:17 216:6,18
425:3	363:19 410:18	Mitch's 161:1	224:12,20 225:1,7
members 8:8 9:3,18	Mexico 24:18	Mitchell 2:5,6 19:15	230:17 241:8 242:3
29:12,13 36:12 67:10	MHA 1:11	20:16,16 21:3,12 33:6	243:1 244:5,17 250:8
80:10 81:11 124:9	mic 127:1 152:9	33:9 56:2,9 62:21	252:10,12,16,20
238:16 239:5 292:5	Michael 2:7 97:14,17	63:2,9,11,14,16	257:18 258:15 266:21
293:15 333:11	112:19 148:6 159:16	116:10,20 117:2,8	267:20 268:17 269:13
memo 399:1	161:7 168:14 185:9	128:16,17 130:2	349:15,16 355:15
Memphis 10:10	186:14 207:13 209:20	140:9 154:19 166:11	356:7,16 358:16
mental 23:1 323:21	222:10 237:1 278:7	188:12 254:20 275:14	359:2,5,9 360:18,20
324:4 325:10 328:18	332:11 362:18 369:16	285:19 311:10 323:5	361:9,11 362:1,1,2,4
331:3 332:15	371:10 387:9 410:1	323:15 354:10,12	362:4 365:19 366:1,6
mention 345:4	Michael's 46:3 47:12	375:20 383:22 389:7	367:17 369:7 370:8
mentioned 57:6 74:16	374:18	393:7 404:8 408:10	370:15,20 372:6
78:20 85:22 118:4	micromanage 427:11	419:22 423:5	373:3 379:12
123:14 139:2 163:3	microphone 57:9,15	Mitchell's 374:17	mother 137:17
172:12 179:16 247:5	138:19 142:12	384:21	Mothers 13:20 240:15
279:7 289:4 302:12	microphones 57:13	mix 54:20	motion 423:8
334:6 372:5 386:17	115:6	mixture 253:2	Mount 20:9
398:7	mid 359:22	modal 82:5	mouth 242:8,11
mentions 138:3 195:22	middle 188:22 210:5,8	model 172:7 227:8,11	move 17:8 52:2 63:15
merit 385:11	Mike 22:6,10,19 92:22	251:13 260:6 263:22	63:21 78:19 79:16
merits 104:4 349:3	miles 393:3	264:1,2,4,22 265:7	94:2 100:5 103:6
met 1:8 329:5	million 189:11,17	283:12 297:3 323:21	108:3 116:8 126:18
methodologic 421:9	millions 101:1	324:4 325:10 331:3	129:19 131:14 133:3
methodological 196:14	Milwaukee 17:4	modeling 157:5 170:8	135:21 146:1 158:22
methodologically	mind 51:19 54:11 71:16	models 233:4,11,17	169:6,8 171:20 174:4
147:8	103:6 196:11 261:7	234:9	175:21 176:20 206:6
methodologies 95:19	271:22 273:19 307:11	moderated 189:8	214:15 244:21 246:22
197:2 203:22	324:17 368:3 375:1,5	moderately 188:13,14	247:17 248:10 272:8
methodology 83:11	375:17 380:10	modest 216:21 347:8	311:13,15,17 324:12
86:12 110:5 112:10	minds 292:5	modifications 7:5	324:20 325:5 332:22
113:18 195:18 202:22	mine 359:17	263:1 347:8	336:5 343:9 348:7
203:7,20 204:17	minimal 154:11 172:5	modifier 187:3	362:22 363:6 379:6
208:11 224:7 297:10	minimized 237:18	module 170:1	379:21 400:13 403:12
329:4 352:5 353:2,9	minimum 95:17	moment 180:20 327:7	405:8 411:4 417:16
387:12	minority 69:3,11,14	363:13 378:6 414:11	426:16
methods 125:2	minus 421:3 423:14	money 100:18,22	moved 77:12 86:19
metric 87:2,14,20 98:22	minute 239:21 276:15	101:20,22 304:18,20	225:2 285:10 318:3
109:17,18 110:15	354:13	304:21 425:14	380:9 425:17 426:17
103.17,10 110.13	557.15	007.21 720.14	300.3 423.17 420.17
II	1	1	1

movement 97:20 247:1 182:16 195:22 201:5 254:16 255:7,12,20 419:5,8,20 426:9 259:18 261:9,13 254:8 423:8 201:5 202:20 214:22 newer 394:19 421:1 moves 61:4 322:11 215:1,3 217:4 219:2 272:17 273:5 277:5 news 272:10 323:11 324:5 222:6 224:17 242:5 277:20 294:14 295:7 **NHS** 353:12 moving 7:13 57:17 245:1 259:17 260:18 295:12 302:15 304:15 **NHSN** 109:17 110:3,7 216:8 240:20 254:14 272:12,13 304:1 305:6,9,15 329:5,8,8 110:10,15 112:21 267:22 304:21 322:14 307:3 330:19 332:10 113:12,15 114:20 331:5 339:1 341:7 330:8 334:11 391:8 346:19,20 351:18 351:16 354:3 381:13 150:11 152:2 170:1 368:15 369:19 370:9 410:7 381:14,17 383:16 NHSN-related 113:20 MPH 1:20 2:11 380:4,5 382:5 383:15 386:12 388:17,18,21 **nice** 138:6 216:20 **MRI** 193:2 391:15 396:14 398:22 411:4 412:10 416:11 317:11 344:4 MS-DRG 197:12 205:11 403:8,9 405:7 420:5 418:12 419:1 nicely 182:22 **MSHA** 21:5 needed 65:8 161:4 NIH 20:12 251:11 260:3 425:5 **MSHHA** 1:11 Nancy's 33:10 125:18 177:22 215:6 392:20 260:7 262:10,13 MSPB 288:7 313:19 148:3 182:22 220:12 424:16 263:10,12,21 264:19 **MSVP** 202:9 needing 44:11 256:1 273:11 306:12 265:6 266:13,14 **MUC** 29:4 31:15,21 312:5 384:3 423:21 needs 41:4 50:1,6,7 Ninety-five 132:4 32:19 33:3 36:13 narrow 48:19 50:9 97:21 98:18 146:17 Nissenson 1:18 13:8,9 41:10 47:1 51:14 121:5 200:16 162:4,17 169:14 13:10 46:2 52:12 53:20 228:13 narrowed 224:22 272:22 350:7 369:19 nobody's 261:21 245:17 267:1 268:19 narrower 225:4 387:17 **nod** 116:16 269:15 283:1 321:14 negate 153:3 **nodding** 319:22 **Nasso** 1:14 14:11,12,19 339:22 340:10,19 297:14 298:16 344:7 **negative** 180:4 208:8 noise 398:19 421:14 341:6 348:4 353:22 **nation** 53:13 nominated 17:20 **negligible** 101:8 149:3 354:19 379:13 non 229:18 **national** 1:1,8,14,20 negotiations 188:22 MUC15-1015 134:5 14:12 15:2 16:6 20:11 neighborhoods 231:4 non-candidates 358:12 MUC15-1083 149:21 23:14 31:17 54:17 neither 278:1 non-financial 21:17 **MUC15-131** 164:18 81:20 154:11 157:9,9 nephrologist 13:10 non-Medicare 300:10 **MUC15-534** 115:13 164:17 312:19 360:10 **nephrology** 24:17,19 non-profit 19:3 **MUC15-604** 400:4 401:11 nervous 203:17 304:4 non-publicly 171:3 428:7 nationally 20:5 87:8,9 net 420:19 Non-voting 2:8 **MUCs** 61:16,19 62:14 157:15 285:5 293:9 network 23:15 164:17 nonsupport 301:1 **muddy** 264:10 natural 155:14 325:18 401:12 **note** 55:14 57:12 77:13 multi 82:4 naturally 241:6 neurologists 244:2 108:17 217:10 262:6 neurology 259:18,19 multi-modal 96:7.22 nature 128:22 351:6 299:12 multiple 83:14 84:4 **NCQA** 21:18 neurosurgeons 208:9 noted 143:7 201:17 near 126:17 178:17 98:3 254:3 316:1 208:10,20 244:2 223:13 280:13 330:5 363:3 391:11 308:16 neurosurgical 83:8 **notes** 60:7 62:3 410:5 nearby 141:22 never 10:1 139:22 notice 31:20 55:2 89:1 MUNTHALI 2:15 nebulous 40:17 181:14 207:18 217:17 254:18 329:9 218:8,8,9,9 221:7 Myocardial 340:9 necessarily 25:7 75:13 **notion** 89:12 192:22 130:15 133:1 187:17 254:5 317:4,5 386:4 194:1 252:3 255:18 Ν 194:14 196:2 323:11 387:7 418:13 305:1 **N.W** 1:9 November 424:6 364:5 Nevertheless 276:6 necessary 70:10 277:10 NQF 2:14 7:20 8:3 nail 93:6 192:13,20 302:13 new 6:13 20:10 22:22 10:13 24:20 25:12 name 15:2,6 16:3 20:21 24:4,16 26:5 27:8,16 need 28:2 35:8 51:4,8 24:18 27:22 28:4 26:8,11 27:10,18 36:5 75:3 80:5 111:8 51:18 59:13 64:19 29:13 90:13 103:19 29:19 35:12 39:21 111:9,11,17 190:19 68:12 71:6 77:11.21 104:16 108:11 111:5 40:21 43:11 44:20 96:18 98:19 106:14 45:20 46:15 47:2 48:6 232:17 261:11 405:22 111:8,18 121:1 122:3 123:18 126:20 154:10 176:14 219:20 53:16 54:15 59:6 406:3 Nancy 1:13 11:4,6 21:8 130:8 153:8,12 154:3 259:14 264:1 273:21 80:20 108:22 114:8 114:12 116:2 135:18 161:18 165:7 173:7 273:22 285:7,9 30:19 47:7 57:22 192:5 193:2,2,13,14 291:16 300:7,20 137:1 145:7 147:6 92:22 94:6 105:12 114:6 118:4,7 124:3 195:15 196:9 202:12 308:2 313:7 322:11 152:7 155:18,19 131:17 135:12,15 205:13 215:9 236:10 322:14 333:10 394:1 169:12 178:4 181:12 398:11,12 410:22 181:13 182:10 183:2 138:3 150:13,13 236:13,15 239:20 154:21 180:19 181:3 241:9 246:5 251:20 413:11 416:8,14 183:7,17 199:18,19

202:10 203:3 205:18 165:10,12 172:13,21 150:6 152:19 154:18 218:17 236:21 276:3 206:4 210:7,12,22 211:1,22 212:4 227:1 164:13,16 165:3 352:22 426:11 211:2,9 217:12,19 228:7,21 239:21 173:11,15 185:4 oops 189:16 218:6,12,20 219:11 240:2 261:5 267:11 194:9 209:11 210:13 **op** 359:21 224:6 226:3,20 227:5 268:10 269:6 271:4 211:21 212:10,17 open 25:16 53:18 59:8 228:22 231:19 232:15 274:8,17 283:8 284:9 213:1,11,13,21 214:1 65:7 79:22 80:3 106:3 233:1,19 235:16 285:22 286:9,14 214:7,12 215:16,17 106:5 115:10 120:20 256:4,14 262:22 289:12 290:8 338:12 223:3 224:18,18 134:3 185:5 206:2 338:14 343:18 354:11 263:8 267:15 268:4 225:18 228:17 229:4 211:15 212:6 213:2 355:6 373:18 213:14 214:2 219:5 270:18,19 271:18 239:1,14 240:1,10,20 272:2 274:18 283:9 **Obama** 302:9 241:22 242:14,15 228:11 248:4 266:21 318:18 320:4,22 objection 62:12 246:9 257:14 262:18 268:15 269:12 282:21 325:15 333:5,6 355:8 objections 62:15 263:15 266:19 269:9 291:17 303:1 318:11 355:14 356:2 396:2 **objective** 28:18 37:22 269:11,16 272:8,14 337:14 339:19 340:7 340:17 341:3 353:20 402:22 278:6 282:20 284:16 40:5,9 **NQF's** 53:22 415:10 **objectives** 4:2 28:10 286:17 287:2,4 354:18 379:11 382:8 NQF-endorsed 40:20 61:10 291:14 295:2 296:11 400:2 402:1 405:16 41:1 42:21 43:7,15 obligated 41:5 298:17 299:14 302:22 428:5,16 obligations 187:22 46:18 136:22 144:21 303:22 306:8 307:5 **opened** 53:17 312:6 **NSQIP** 109:17 110:3,19 observation 275:4,5 307:10,15,15,20 opening 4:3 28:22 113:15 114:19 278:15 279:1 308:3 316:18 317:1 operating 10:16 315:21 nuances 127:16 128:6 **obvious** 108:9 277:2 320:6,9,11 321:6,18 operational 159:12 128:14 373:22 322:21 330:18 332:19 233:9 **number** 64:13 67:6 obviously 18:1 43:18 operationalized 275:9 338:11 339:7,8,17 78:13 80:22 95:17 83:5 126:14 131:4 341:14 342:8 343:17 operative 356:16 359:1 98:10 141:4 155:9 136:20 298:4 345:4,6,13 348:1,15 362:2.3 161:14 163:8 167:20 occur 82:5 133:2 391:9 350:12 353:10.17 operator 78:12,15 174:16 175:13 189:7 occurred 145:6 205:9 354:5,14 355:2 365:8 265:14 291:17 295:22 385:14 379:8 390:8 393:20 296:5,10 402:8,12 213:12,22 229:22 230:16 235:20 241:14 occurring 132:17 135:7 399:22 400:12 402:8 428:22 429:3 243:6,6 246:11 occurs 182:9 402:14 405:16 414:21 opinion 64:7,11 69:3,11 414:21 428:4 262:21 263:3,9,14 odd 181:20 opinions 21:10 30:6 264:3,6,17 265:3 offer 238:16 239:4,9 old 382:1 392:22 69:10,15 266:4,19 267:1 offering 124:21 395:11 403:17 408:4 opioid 293:6,13 294:3,9 268:14 269:4 296:7 Office 23:1 408:21 413:13,17,19 opioids 293:10,20,21 opportunities 7:4 32:8 320:3,21 335:3,5 Officer 2:15 7:20 13:13 413:20 414:8,18 346:16 349:8,8,11 oftentimes 53:14 417:1 420:22 85:10 87:3 288:1 350:9,11,14 361:3 **oh** 24:8 70:21 71:1,4 **older** 139:1 149:4,5 295:10 328:14,15 390:11 400:21 402:10 78:3 120:21 138:20 216:2 322:2 361:19 429:1 194:9 201:5 284:13 omit 396:22 **opportunity** 4:7,17 5:12 **numbers** 149:2,9 241:7 333:11,12 354:14 omitted 397:1 5:20 7:12 35:22 40:21 265:19 266:2 355:1 363:9 369:18 on-one 98:14 49:21 67:12 75:5 82:8 numerator 40:12 397:1 372:16,17 389:11 once 41:1 62:9 63:20 86:2 97:8,20 99:1 numerous 92:8 156:8 131:22 165:19,21 390:7 394:9.15 65:6 71:12 131:16 385:5 407:13 418:14 425:6 175:9 206:3 234:10 196:18 200:21 291:22 nurse 13:5 18:7 24:17 430:14 274:5 277:2 307:12 295:14 314:20 336:10 Nurses 2:1 11:2 261:12 **Ohio** 390:12 326:9,21 364:17 337:7,18,18 339:12 nursing 24:19 121:7 428:22 346:3 391:13 395:1 okay 19:10 24:12 36:2 122:14,15 377:8 37:13 40:2 48:10 56:9 one's 356:1 429:15 416:11,19 418:5 56:11,17 63:11 68:11 **one-third** 177:10 opposed 83:2 171:4,6,7 0 71:7,17 74:15 78:10 ones 18:10 58:10 61:22 255:5 290:5 326:10 **O'Rourke** 2:18 27:1,2 79:12 80:1 88:14 69:21 191:13 194:1 **opposite** 198:18 420:4 37:18 41:3 42:7 43:1 91:12 106:4,13,16 195:4 196:10 273:22 opposition 229:5 56:20 63:1,7,10,12,15 109:1,13 110:21,22 273:22 274:1,4 ops 280:20 111:13 112:15 113:17 321:16 322:1 394:17 option 40:2,10 58:17 63:18 64:16 68:13 69:7 70:4,19 71:4,7 113:21 115:9,19 413:20 414:18 75:17 158:17 71:10,19 72:1 89:17 ongoing 76:6 162:19 optional 134:19 192:14 116:8 118:6 120:20 115:22 134:16 160:3 128:15 140:6 149:18 163:10 187:15 204:8 options 39:19 103:13

115:13 134:6 149:21 overlap 186:19 201:17 164:9,18 213:5 299:20 315:3 316:9 228:15 267:3 268:20 overlapped 298:14 283:2 340:1,11 354:1 overlaps 40:7 180:7 379:14 400:5 419:18 301:2 428:7 overlay 32:17 **OQR** 429:19 overpayment 181:22 order 6:7 53:2 87:6 oversight 122:11 155:8 203:11 204:8 overspent 189:17 329:5 363:19 374:12 overuse 141:7 156:16 156:19 163:11 179:8 374:20 Oregon 84:6 184:19 overview 4:4,5,15 5:9 organization 11:9 17:20 19:3 20:20 38:11 54:8,10 72:6,7 97:13 200:1 277:3 74:4 290:10 400:16 302:3 394:5 400:19 organizational 9:3,7,11 overwhelming 36:13 9:18 13:20 57:1 116:14 organizations 120:8 Owens 2:9 23:21 24:2,4 127:3 128:8 145:19 146:22 147:1 393:16 167:17 191:12 196:3 395:6 399:19 412:15 276:2 421:8 organized 59:20 owned 128:11 oriented 202:13 original 202:9 originally 380:4 **P** 2:7 ought 154:14 190:13 P-R-O-C-E-E-D-I-N-G-S 194:3 277:10 380:8 outcome 32:15 81:15 **p.m** 70:15 173:10 240:8 83:6 99:9,10 109:10 240:9 345:11.12 115:12 146:2 185:20 362:15 430:19 186:8,10,10 214:14 pace 133:15 216:5 234:5,13 package 125:8 238:19 245:15 252:12 packaging 408:8 252:13 263:18.18 page 122:20 207:6 267:21 309:8,16 227:22 298:12 307:16 346:17 353:22 354:19 **pages** 79:1 369:3 389:22 423:22 paid 182:1,3 229:2 outcomes 32:14 146:19 pain 292:7,13,14,15,17 178:17 186:3 203:22 293:1,5,19 294:9,18 206:3 220:18 234:1 294:20 252:17 256:18 257:2 paints 155:7 314:8 349:22 369:2 pair 309:15 401:16 paired 187:20 outlined 31:17 **pales** 372:12 outpatient 102:19 palliative 20:8,10,11 120:11 127:4,9 130:9 359:18 360:10,12 278:13 Pam 23:21,22 24:4,7 outreach 351:16 399:16 403:14 420:21 outside 29:19 92:15 421:6 94:3 113:10 277:14 Pamela 2:9 146:21 outstanding 215:15 393:16 394:22 413:1 outweighs 376:11,17 panel 201:12 202:2 overall 178:1 180:2,10 233:2,5 271:19 272:3 199:7 202:9 223:20 **panic** 426:5 330:14 398:18 paper 25:1 237:3,11 overarching 323:20 248:15 253:18,20 overdoses 293:13 254:1 256:8 390:11

paradigm 103:17 105:2 partly 190:2 425:16 426:17 parallel 75:13 97:2 parameter 399:7 partnering 104:21 paraphrase 289:13 partners 1:18 13:13,14 parliamentary 56:5 13:18 34:22 98:3 parsimonious 312:14 partnership 1:3 85:11 334:15 92:6,11 parsimony 284:1 parts 90:14 part 9:12,22 19:3 28:15 pass 58:2,6 160:4 30:14 47:20 57:20 passed 56:7,13,14 75:7 85:14 96:10 97:9 92:13 304:10 332:19 105:4 107:4,5 111:3 **passes** 66:3 119:4 138:2 160:18 passing 407:5 408:21 168:6 169:11 170:1,3 path 160:12 199:9 170:4 174:15 175:19 203:6 333:16 355:10 355:11 183:6 194:14 203:16 205:16 222:16 224:6 pathogen 170:5,7,13 224:7 251:11,13 pathogens 170:11 266:16 270:18 273:3 pathway 39:17 43:6 282:13 292:8,9 89:20 119:5 134:19 297:13 298:2,8,12 169:3 pathways 43:2 54:7 304:8,9 324:16 362:8 383:6 396:9,10 patience 194:8 212:18 417:12 429:6 patient 1:15 11:7 12:17 **part-time** 18:22 PARTICIPANT 26:13 14:13 15:15,17 16:15 286:16,20 291:21 22:15 28:11,14 32:14 306:20 369:21 74:2 85:15 110:10 participate 9:11 29:18 127:7,8 130:6 132:12 66:22 72:18 73:13 146:8,10 147:11 95:11 357:22 153:20 156:16,21 participated 60:16 157:11,21 159:4 participating 3:22 179:9,20,21 186:9 237:20 187:4 193:9 204:4 particular 8:13 9:9 217:15 237:4 240:16 18:11 30:9 32:1 43:12 244:11 255:5 256:19 52:14 58:20 86:7 257:1,6 258:1 267:20 117:13 130:3 140:17 268:1 271:18,20 143:8,10 145:15 276:4 279:7 281:6,6 148:17 162:14,15 284:18 312:17 356:9 163:6 171:11 175:4,6 356:20 358:18 363:18 181:2 185:8 200:9 364:8 380:1,2 384:18 215:5 219:13 221:2 387:21 389:4 391:22 222:15 229:2 230:3 392:3 397:13 400:3.4 239:1,2,3 257:11 401:15 406:7 411:22 281:14 283:10 292:3 415:10 428:6 293:17 295:13 297:4 patient's 197:9 362:16 299:9 300:9 301:13 patients 19:5 36:11 303:12 310:17,18 73:21 98:13 99:4 312:8 314:22 330:7 100:3,7 102:9,18 387:5 398:7 412:5 110:18 120:10 121:22 425:20 123:16 153:11,13 particularly 17:12 34:1 177:14,17 187:5 58:18 76:3 119:8 193:17 195:6,11 120:6 146:7,11 198:6 203:13 206:18 177:19 243:5 255:15 207:20 208:5 217:17 223:19 229:17 231:2 257:8 276:1 331:19 390:5 397:19 398:22 231:3,12 243:8,13

244:9.17 257:7 258:13 259:4 272:20 278:13,21 279:7,12 292:13 293:1 294:5,8 331:20 364:12 368:6 369:5 372:9,9 377:16 397:1 Patrick 80:14 patterns 83:9 287:22 pause 64:19 66:10 78:14 106:15 299:22 pay 6:5 33:16 100:14 182:4 191:13 400:22 425:22 **pay-for** 73:7 pay-for-performance 290:12 pay-for-reporting 72:12 payer 34:1 147:3 148:3 156:16 289:5 payers 34:20 331:20 paying 302:14 391:2 payment 72:17 73:11 81:21 82:1 99:21 156:7 174:17,19 175:1.9.11.15.20 176:11,19 177:2,22 178:12,14,21 179:1 179:14 181:5 183:10 184:3 186:18 187:1 188:1 196:9 197:1,17 197:18 198:3,5,7 200:15,16 201:7 212:22 213:3,15 214:4,20 223:10 225:7,9 228:13 231:5 231:10 287:9,13 288:14,17 291:4 296:18 297:3,10 300:9 305:4,5 308:6,9 308:12 310:19,21 311:9 313:1 315:15 319:3 320:13 330:5 339:21 340:8,18 341:4,18 343:9 416:17 payments 72:20 92:20 178:19 183:14 196:1 201:10 290:17 291:12 401:6 **PC** 139:15 143:9 **PC-02** 139:19 143:15,19 143:20,21 **PCORI** 20:13 **PD** 275:3 pediatric 12:19 80:6 361:16 peg 244:3,3 358:21

pelvic 398:1 penalize 89:8 penalized 90:17 422:21 penalizing 301:6,7 342:18 penalties 316:1 374:21 375:2 405:10 penalty 166:5 291:1 375:13,16 405:14 415:22 416:2 pending 108:22 116:2 135:18 159:20 165:14 172:14 183:2 210:21 217:19 274:18 321:15 355:8 402:22 412:16 penetrance 357:21 358:4,11 372:1 penny 193:16 people 8:2 18:2 25:15 27:22,22 28:4 35:9,9 86:21 87:9 89:10 93:15 101:4,16 115:7 121:5,8 131:19 137:18 141:15 144:15 152:20 153:4 163:3.8 167:20 169:4 173:12 176:12.15 183:18 191:3,11,11 192:9,10 192:20,22 193:5 201:16 222:13 230:4 230:14 231:9 237:21 239:22 252:4 257:13 282:1 293:12 304:11 316:8 324:18 331:14 333:6.11 339:11 344:20 362:22 365:5 372:14 373:2 376:18 379:3 382:18 383:2 389:4,11 392:16 416:18 430:5 percent 66:1,7,8 69:4,4 82:9 89:12 93:18,19 99:5 102:1,3 106:17 106:18,19,21 115:20 115:20 116:6,7,16 117:4 124:17 132:4 134:10,10,11 137:19 150:3,3,4 165:4,5 167:12 212:12,12,13 213:7,8,9,16,17,17 214:7,8,9 228:18,18 228:19 262:14 267:6 267:6,7 268:22 269:1

269:2,16,17,18 283:4

283:5,5 290:20,21

340:14,14,21,22

299:11 340:3,4,5,13

341:1,10,10,11 350:3

354:5,6,7 355:2,3,4 357:21 358:3,6 372:1 372:2 377:20,21,22 379:17,17,18 386:7 398:10,11 399:20,20 400:9,9,10 401:5,7 410:10 427:18 428:11 428:11,12 **percentage** 72:16,19 73:10,11 99:21 399:17 421:22 percentile 183:12 percentiles 378:1 percolate 188:15 perfect 133:14 139:22 387:7 perfectly 264:9 perform 87:4 215:8 273:20 419:13 performance 12:10 19:21 90:9 140:3,3 156:18 218:18 290:14 291:6,7,13 306:16 323:17 329:11 336:12 336:12 368:18 377:17 378:3 390:19 401:1 403:16 404:3 406:13 407:14,16 415:17 416:7 417:11 423:5 performed 270:7,8 306:13 performing 336:16 performs 87:10 period 49:17 67:4,19 68:2 145:20 171:2 179:15 203:8.11 218:3 228:3 232:21 234:19 235:14,15,18 235:21 238:1,2,6 243:18 281:5 periodic 109:9 perioperative 398:5,14 permit 357:17 permutations 260:21 person 14:16 18:4 23:22 64:10 86:7 90:12 314:5 315:21 336:18 388:2 person's 36:5 personal 189:15 192:6 personally 229:9 perspective 10:18 29:15,20 53:1,11 77:1 77:20 78:3 93:3 94:5 100:1,2 101:18 166:2 179:9 187:18 253:9 267:20 279:11 336:6 336:18 430:15

perspectives 29:10 pertinent 45:5 perverse 359:3 360:2 361:2,7 372:13 373:12 376:10 379:3 perversely 356:8 362:20 375:14 perversity 366:22 367:5 pervious 397:6 **Pharmacy** 1:17 15:11 **PharmD** 1:17 phased 267:17 **PhD** 1:13,20 2:4,5,9,13 Phelan 2:7 22:7,10,10 40:13,15 41:12 97:18 112:20 113:14,21 148:7,22 149:11 161:8 167:15 168:2 185:10 207:14 209:18 209:21 210:4 222:11 222:17,21 237:2 262:19,21 278:8 332:12 343:15,21 344:11,16 362:19 371:11 387:10 410:2 410:14.17 411:15 phenomena 123:21 phenomenal 113:22 371:22 philantrophy 20:13 philosophical 128:21 philosophy 392:13 **phone** 9:19 13:22 14:17 24:1 74:21 78:11 142:9 143:13 146:22 362:15 394:22 402:7 428:21 **phrase** 268:9 physiatrist 208:22 physical 193:3 physician 22:11 120:9 140:13,16 187:2,9,13 206:21 290:1 332:6 372:21 physicians 22:14 128:2 243:14 423:6 pick 9:22 99:2 199:10 199:15 201:8 208:21 394:8,10 picking 276:8 315:17 picture 38:9 46:9 51:21 197:12 309:14 330:14 330:17 389:15 piece 25:1 86:15 273:14 411:18 piecemeal 99:2,7 **pieces** 77:11 Pierre 2:11 23:4,6 28:22

п			400
00 40 00 44 0 50 44		400.5	0044404500000
30:18,20 41:6 50:11	plug 258:18	428:5	294:14 315:22 329:6
51:22 128:16 129:15	plummeted 141:11	Pollock 2:10 23:11,11	349:13 356:21 357:3
136:8,16 142:3	plus 147:20 356:17	42:18 43:10 44:3 45:9	potentially 32:21 33:1
155:14 159:15 162:10	421:4 423:14	110:2,13,20 111:2,17	35:1 44:9 85:6 97:4
184:14 224:10 248:6	pneumonia 175:15	111:21 112:1,5 113:2	119:9 126:15 127:3
251:8 280:8 303:3	214:21 216:1,4 222:5	114:3,21 115:2	127:20 131:4 143:18
304:2 305:12 312:1	223:6,11,15,18,19,21	155:16 165:17 169:11	156:15 161:5 163:4
316:5 351:20 357:7	224:13 226:6,6	171:21 172:19 384:21	253:11 325:11 330:15
422:10	228:13 230:4 239:2	pool 290:17	337:6 349:18 362:20
Pierre's 33:9 140:7	258:14 272:11 274:12	poor 231:12 244:18	poverty 218:16 230:5
350:18			
	274:13 278:10,17	258:14,17	230:15 276:19
piggybacking 332:13	279:5,8,13 283:1	pop 22:4	powers 84:17
333:2,8	296:19 307:13,22	population 12:11 27:12	practical 390:10
piling 283:21	308:6,8 315:14 319:1	74:1 80:7 81:16 83:20	practice 101:3 197:19
pinching 193:16	319:6 320:13 321:21	85:15 88:16 89:12,15	practices 23:19 85:2,5
pious 275:15	322:2,10 339:15,21	99:6 102:15 110:10	92:3 159:4 223:14
pipeline 35:20	366:6	136:15 139:1,4,8,11	practitioner 24:17
placard 196:21	point 25:8 46:3 51:7	142:19 149:8 206:13	practitioners 129:7
place 31:19 51:16 91:8	53:21 55:16 60:5 70:7	216:2,16,17 217:14	391:1
108:7 110:15 141:20	70:9 75:7 82:13 83:16	217:16 220:6 222:4	praised 425:13
141:21 145:10 186:1	94:12 103:15 105:14	222:18,20 223:22	pre 26:8
243:19 256:5 262:16	117:12 123:1 124:19	227:17 230:9 235:6	pre-rulemaking 4:4,8
270:10 349:16 350:7	131:19 133:8,11	244:11 300:10	4:10,12,18,20 5:5,16
	144:20 146:14 148:4		
385:21 407:12		population-based	38:7,12
placed 390:16	154:4 158:12 160:8	81:18 82:1 92:20	precautionary 373:1
places 26:16 84:5 89:9	161:1 170:19 172:6	populations 222:7	precede 197:9
92:16 130:11 342:18	191:20 202:10 209:12	portfolio 178:4,5	preceded 205:7
placing 244:12	210:12 238:13 241:15	portion 178:12,13	precise 396:20 398:8
plague 315:5	243:6,16 254:13	273:12 290:13,15	421:15
plan 321:12 329:22	277:13 307:21 310:9	portray 181:21	predicted 157:4,10,20
334:3,9	310:22 318:12,14	portraying 182:1	predictive 157:5 170:8
planned 114:14	321:12 322:19 323:5	posed 122:5 143:15	172:7
planning 205:20 330:9	325:7 326:21 335:22	position 108:9 144:2	predominantly 157:7
plans 184:10 189:2	347:4 356:15 358:13	158:9 168:18 170:15	181:19 300:15
192:19	374:4 378:11 384:21	425:8	preface 243:2
plate 8:22	389:7 396:6 407:1	positive 151:3 159:5	prefer 320:16
platforms 76:8 119:20	409:17 415:17 417:14	180:4	preference 126:5
II -		possibilities 248:18	· -
125:14 266:10	420:18 426:13,15		preferences 244:17
play 85:14 104:21 209:8	pointed 91:20 93:18	possibility 82:21 84:2	256:19 257:7
273:17,20 274:5,6	163:8	254:2	preferred 54:16 248:11
329:12 343:10	pointing 378:5	possible 33:17 42:2	261:4
playing 198:9	points 65:10 72:16	65:2 66:20 127:17	pregnancy 149:6
please 6:22 9:16 22:6	193:13 246:5 271:14	169:21 173:17 214:14	pregnant 117:10
25:11 36:3 55:14 57:4	334:21 359:15 420:13	262:3 312:15 353:4	preliminary 37:21 55:4
57:7,8,15 59:11,17	poisoning 293:10	possibly 95:13 171:5	55:9,18 59:17 60:2,8
66:22 78:13 83:1	poke 157:2	221:16 261:21	60:8 61:9 62:13 64:4
103:5 106:10 138:18	policing 365:4	post 201:9 359:21	338:16 377:15
142:12 143:17 144:10	policy 8:16 11:7 26:20	post-acute 122:15	premature 87:14
150:19 173:11 176:22	58:19	178:18 181:17 332:6	119:16
212:5 265:16 295:22	polished 104:14	post-discharge 121:7	Premier 1:20 16:13,14
296:7 305:17 341:8	polite 191:2,7	201:3,10	premium 189:3
369:17 402:9 429:1	poll 354:13	post-hospital 199:1	preparation 417:18
430:17	polling 115:10 134:3	post-nospital 199.1 post-operative 398:15	prepared 430:7
pleased 7:9 188:14	212:6 214:1 228:11	398:16	preponderance 178:6
240:21	266:21 268:15 269:11	potential 25:10 87:15	prescribe 293:20
pleasure 8:1 21:16	282:21 339:19 340:7	153:3 157:11 163:14	prescription 293:6
23:20 29:3	340:17 341:3 353:20	164:8 195:20 218:10	presence 31:2
plenty 380:22	354:17 379:10 400:2	228:2 293:20,22	present 1:10 2:13 3:8
	I	l	I
			

61:7 87:5 281:7 348:10 384:10 presentation 4:14 79:19 80:4 284:6,15 287:3 presentations 59:5 156:8,9 presented 65:10 157:16 303:6 presents 324:1 President 2:15,20 11:6 11:13 12:16 13:4 17:4 presiding 1:10 press 191:3 296:7 402:9 429:1 **presses** 152:8 pressure 367:21 387:16 387:19 399:18,19 pressures 293:20 310:11 presumption 122:6 **pretty** 6:8 8:5 22:13 35:18 167:22 168:2 208:3 224:14 233:19 259:21 275:4 297:7 327:22 367:2 375:18 399:2 prevalence 79:18 80:18 81:15 82:4,18 85:8 89:7 92:1,10 106:6 200:13,18 333:22 prevalent 142:18 prevent 18:13 373:12 preventable 96:6 preventing 366:15 prevention 2:10 23:13 23:19 80:7 282:9 preventive 192:13 previous 141:9 198:16 217:12 225:3 269:8 275:12 284:3 297:1 334:14 394:1 395:17 396:4 398:14 404:16 410:3 previously 108:11 179:16 203:8 204:6 274:10,14,16 356:5 403:11,19 price 85:18 188:15 190:8,15 191:1,8,9,20 192:4 300:8,17 309:6 309:7,12,13 313:14 313:21 314:21 price/cost 314:8 prices 189:8 193:7 300:16 **pricing** 195:22 primarily 263:20

primary 122:8 127:8,21 139:12,16 223:16,16 296:20 341:5 **prime** 77:8 principal 415:5 principle 287:21 297:16 347:9 349:2 principles 31:16 57:17 323:11,18 prior 6:5 28:20 32:6,7 161:4 233:12 251:21 259:4,5 305:13 320:19 322:14 336:1 363:14 382:4 priorities 32:12,16 39:2 51:6 52:5 148:21 312:16 368:22 prioritize 180:6 priority 39:6 132:13 171:13 privacy 74:2 **private** 20:13 34:19,22 98:4 147:4 privilege 16:14 proactively 258:22 probably 41:7 45:8,11 90:7 93:19 97:15 98:11 103:9 111:13 131:8 138:8 192:17 199:17 218:8 219:13 219:16 230:13 277:13 297:6 318:13 332:18 351:12 364:14 369:12 378:9 381:1 413:1 418:1,2,22 429:12,14 429:14 probe 271:2 **problem** 141:13,13,14 157:12 158:4,6 167:11 177:7 189:19 189:20 190:15,15 191:22 193:10 245:22 258:6,19 283:15,15 283:22 293:9 356:14 359:4 380:17 382:21 413:1,22 414:13,18 420:10 426:10 problematic 356:7 361:21 **problems** 123:19 136:21 158:10 200:7 204:9 220:5 335:7 374:22 425:10 427:2 427:3

procedural 62:21 72:2

180:12 199:9,15,20

procedure 115:11

89:18

200:5 210:17 290:7 309:21 316:13 346:17 347:20,22 353:21 354.18procedure-based 198:21 199:4 219:10 219:20 procedures 57:18 178:17 179:7 183:17 199:10,11 231:13 287:20 **proceed** 30:14 346:5 process 9:22 10:13 29:7 35:18 37:20 38:17 40:20 41:2 45:1 45:21 47:9 48:6 51:12 52:21 53:5,5,6,16 54:1 56:2,18,22 60:14 61:22 63:4 109:4,8 114:8 116:12 118:1 121:2 123:2 145:7 159:19 160:18 169:12 182:10 183:7 209:14 222:3 226:5,8,9 233:19,20 235:2 237:20 257:8 259:13 270:18 295:18 304:10 325:11 337:9 346:3 419:3 processes 271:6 produced 331:7 product 41:19 42:1 177:9 325:12 professional 17:12 189:15 192:6 193:11 Professionals 2:1 11:2 261:13 **professor** 13:11 18:8 20:8 profile 55:16 **profound** 243:10 program 4:6,16,19,21 5:6,10,17 23:8 31:20 31:21,22 32:19,22 34:4 35:3 38:18,22 39:5 40:5,8,9 43:5 48:1 52:13 53:2 54:19 61:11 64:14,15,17,21 65:5 67:13,15 72:12 72:13,19,21 73:5,8,15 74:14,17,20 75:6,10 75:14 77:4 86:17 87:15 93:16,22 94:4 94:10,11 105:15,18 111:16 123:7 125:4 125:15 129:19 131:5 133:15 136:2 139:13 142:17 143:6 148:12

148:18,20 149:14 150:10 153:2 156:7 160:11 163:6 164:7 165:20,22 166:19 167:17 180:3 204:20 216:15 223:7 226:7 227:5 247:7 248:1,20 248:22 253:5,19 254:7 257:17 267:19 280:14 285:8,12 286:10 287:11 288:6 288:9,12,20,21 290:11,12,15 291:1,3 291:4,9,17 292:3 296:3 301:20 302:11 303:19 304:6,7,13,17 305:5,8 306:2,3,19 310:20,21 311:9 312:8,9,9,22 313:1,9 313:19 317:11 319:12 323:12 324:5,12 328:10 329:3 330:9 330:15 334:16 336:5 336:6,19 338:5 343:9 347:1.3 352:19 353:13 355:10 360:11 366:2,7,17 371:5 375:7 380:7 382:4 387:5 400:17 401:1,4 401:8,13,20 402:2,17 405:9,15 408:19 414:8,15 415:2,7 416:17 422:11,19 427:16 programmatic 59:7 programs 31:8 32:1,3 32:10 33:15,16 39:6 50:15,20 51:5,9,20 52:7,7 65:3 72:11 73:7 74:13 75:13,13 75:15 77:12 84:7 93:5 96:15,19 97:3,4,10 99:14 101:14 102:8 109:12 119:1 133:12 153:21 159:11 169:19 186:22 187:11,13 285:11 305:21 313:12 323:7 331:8 332:3,5,7 338:4 350:4 359:17 361:13 387:15 409:4 410:7 progress 177:19 279:4 328:19 project 1:15 2:17,18,19 2:19 15:15 27:2,8,11 27:17 53:17 54:3 80:12 205:19 227:3 318:11,18,21 337:14

projects 27:13 36:22 46:19 206:3 232:15 prolonged 243:18 promote 81:17 promoted 149:17 161:13 promotes 40:5 promoting 149:13 pronounce 190:19 **proper** 215:11 355:10 properly 282:3,10 386:15 prophylaxis 388:12 proponent 155:1 proportion 200:14 201:2,9 proportions 231:2,3 proposals 254:17 propose 253:11 329:20 418:17 proposed 28:16 48:1 53:3 77:7 80:13 105:14 155:17,18 159:16 171:16,17 202:9 218:12 225:16 proposing 126:15 139:15 158:1 Prostate 214:2 Prostatic 214:3 protecting 244:10 **proved** 311:20 provide 29:20 52:18 55:15 67:21 72:21 73:1,16 156:15 177:13 183:18 197:4 232:5,10 235:10 236:17 247:21 266:3 278:18 281:12 291:11 318:15 329:9,21 330:13 338:17,19 377:17 403:20 **provided** 40:12 216:12 281:14 287:15 288:16 **provider** 50:22 101:12 127:9 133:5 363:16 364:6,21 365:2,3 366:13 **providers** 48:17,22 50:21 73:17 132:19 178:3 179:17 219:17 287:18 313:2,4 331:21 356:8 364:12 364:14 367:19 375:4 provides 19:4 30:1 60:12 145:4 180:12 308:18 331:10 400:20 **providing** 38:11 417:19 proxy 70:12 262:7

prudent 193:1 **PS** 401:10 420:22 **PSA** 284:17 **PSI** 383:6 397:7 **PSI-12** 396:13,21 398:5 398:10 **PSI-15** 396:13 397:20 398:9 **PSI-7** 396:5,8,12 **PSI-90** 380:3,14 395:14 395:17 397:7 399:5 401:10,21 403:7,17 406:4,21,22 407:1,2,5 409:2 410:20,21 413:4,6,19 415:7 416:22 421:19 **PSI-90's** 395:15 psychiatric 429:22 430:3 **public** 4:7,17 5:12,20 59:1,15 67:3,3,6,12 67:18,20 68:2,4 72:12 74:1,18,19 75:1 78:15 93:4,12 94:1,4 97:9 98:4 104:22 126:15 144:8 145:10.13 151:11,18 154:15 156:5,5,9,12 158:17 159:6 160:9 161:15 161:21 162:7 163:15 163:21 164:3,9 165:16,18 166:10,22 167:7,10 168:4,8,16 169:13,15 172:15,18 183:8.9 191:3 202:8 202:11,15 231:19 255:4 291:18,20 295:5,7,11,14,15 296:1 310:10,13 321:15 348:14 350:21 382:12 401:1 402:1,3 402:7 403:22 416:16 428:16 429:3 public.qualityforum.... 68:16 **publicly** 139:13 160:15 164:1,5,12 183:5 306:1,9,10,14 307:9 308:15 311:2 318:3,4 320:18 321:10,21 322:4,12 326:15,22 327:13 355:11 369:22 370:1,7 388:16 published 238:17 239:7 321:8 390:11

pull 57:22 59:19 60:4

61:17 62:4,7 79:9

176:18,18,21 215:18

241:21 265:19 284:13 286:21 344:6 345:1 359:12 403:2 416:16 pulled 61:13 62:6 64:1 64:3,10 79:3,11,13,20 80:3 86:8 108:4,6 112:22 118:7 135:12 137:13 150:12 151:19 176:7,12,15 182:19 194:6 214:22 219:4 241:16 242:4 245:1 246:1,2 247:19 263:20 272:12 284:9 296:14 297:8 341:22 343:13 344:1,1,4,7,18 346:12,19 380:4 402:18 403:8 429:16 429:17,20,21 430:1 pulling 63:6 135:20 260:2 262:16 285:21 297:10,18 298:1 342:2 344:9 pulmonary 19:16 398:6 **pulpit** 193:12 **puncture** 397:22 398:2 purchaser 14:6 34:1 purchasers 16:22 144:18 179:10 purchasing 4:15,19,21 5:6 287:11 288:6,12 288:20 290:11 296:3 299:10 300:4 304:6 305:8,16,21 306:18 310:20 313:18 317:1 317:6.16 319:18.20 322:15 327:17 333:15 345:15 347:6 375:1 409:12 purely 113:7 158:18 purpose 92:9 152:4 158:3 169:14,16 287:4 318:8 332:4,8 386:14 purposefully 241:1 purposes 23:16 110:7 114:4 156:12 159:7 159:12 171:14 188:2 251:4 255:20 317:13 330:9 390:19 **pursue** 164:6 **push** 84:12 **pushed** 190:19 **pushes** 328:13 **pushing** 58:13 put 6:7 7:15 23:8 29:5 30:15 32:18 36:3 38:22 41:9 42:13 43:22 52:12 53:8,20

57:7 81:21 93:21 95:4 98:19 104:5 117:14 117:22 125:3,15 129:19 139:2 153:21 172:3 193:9 199:11 200:2,3 226:15 240:22 243:20 262:14 262:15 279:17 284:1 291:3 310:9 312:11 327:16 329:13 330:15 333:15 348:4,5 355:9 363:10 371:14 372:17 375:1 383:17 385:22 388:18 390:12 405:14 407:16 putting 30:11 31:15 32:5 84:7 103:20 126:14 160:14 161:10 164:6 244:5 304:17 376:19 Q quadruple 300:2

quadruple-dinging 335:3 quadrupled 293:11 qualify 404:12 405:19 quality 1:1,8,17,21 2:9 2:15,20 4:5,9,11,13 8:4 11:6,19 12:1,2,17 13:4,15 14:14 15:8,11 18:16,17 19:21 22:13 22:15,18 23:8 24:5 31:18 32:2 37:6 54:15 54:17 72:22 73:2.20 77:19 81:17 87:20 92:16 93:5 97:21 98:17 141:8 151:13 171:13 177:16 178:5 178:6 179:9 185:19 186:1,8 187:20 188:16,18 189:22 191:17,21 192:1,5 193:8,15 198:22 199:4 216:12 247:3 247:18 252:3,16,20 254:9,12,13 255:5 268:1 278:10 279:4 288:19,20 291:10 303:13 312:20 313:2 313:4 314:7 370:8,20

quarter 72:15 quest 309:20 question 29:22 33:10

425:19 426:2,15

371:20 376:14 377:16

385:11 387:15 390:19

392:20 393:17 425:11

II			
35:17 47:12 48:11	350:18 363:21 373:22	282:6	155:3,10 168:13,17
50:2 56:3 62:22 64:12	392:14 418:13 421:18	reaching 47:3	168:22 169:17 178:8
70:1 81:13 95:16 96:3	quitting 101:14	react 59:2 363:17	179:10 180:6 182:5,6
107:2 114:17 116:10	quote 47:18 82:14	reaction 220:21 366:13	193:13 194:17,20
122:5 126:1 129:2,14	220:3	read 35:10,22 54:9 67:9	201:6 202:15 203:3
139:9,17 141:2		67:10 141:18 416:4	204:2 207:1 220:4
143:18 144:10 159:15	R	reading 121:2	221:1 222:3 236:12
159:19 161:9,18	R 2:6	readmission 49:5 51:1	237:7 243:7 245:6
162:1,2,4 163:20	rabbit 94:20	199:1,6,8 224:12,20	247:16 248:21 249:18
183:22 185:11 191:10	race 218:7,14,22 221:8	225:1 237:10,13	255:1 256:4,9 257:5
194:11 199:5,16	221:9,13 224:6,6	273:4,11 278:10,16	257:15 264:11 268:6
207:9,13 208:6	225:15,16 231:8	279:21 280:4,14	273:5 274:1,7 279:5,9
209:22 215:14 225:22	239:7	281:1,2,3,11,11 282:9	281:20 282:7,15
232:6,14 233:2,16	racial 220:16	335:13	283:13 289:20 290:3
235:7 236:19 237:1	radically 222:5	readmissions 18:13	294:4 295:7 297:21
245:6 246:11 250:7	raise 57:4 130:2 146:9	27:11 50:21 230:1,17	298:1 300:8 302:7,15
250:16 251:1 253:1	raised 75:7 84:10	235:20 273:12 275:4	302:17,19 304:11,21
256:5,14 262:4,19	104:13 141:3 147:10	279:6 280:16,20	305:2,2,6,9 313:21
265:10 280:2,7,10	160:7 169:5 201:5	314:14	314:22 315:16 325:14
281:19 282:1 289:3	236:19 249:21 256:17	readmitted 279:1	329:19 330:6 331:15
289:11 293:17 297:22	293:3 358:17 420:6	ready 7:19 74:16 77:8	331:16,22 333:7,9
302:8 307:2 311:5,12	raising 292:19	87:20 89:1 105:20	334:1,10 336:5,17
312:6 313:13 314:1,4	rallying 100:9	118:21 153:1 158:13	342:5 343:3,10
320:20 321:2 325:19	ramifications 34:17	160:9 164:14 165:15	349:12 350:10 358:8
326:3 335:22 337:4	Rand 192:16	165:18 166:3,22	358:13 360:20 361:2
347:18,20,21 363:22	range 139:8 188:6	168:4,16 169:7	363:3,22 368:18
366:20 367:11 370:11	225:12,12,12 338:17	172:17 212:3 266:18	370:20 371:21 374:15
374:6 380:8 395:3	343:1 377:20	282:19 318:18 328:7	375:6 384:10 385:20
399:15 410:2 412:2		353:18 354:11 379:9	386:15 387:1,20
	ranges 338:18		T
414:9,15 415:5,8	rare 146:12	400:1 411:10	388:8 391:1,18,22
417:8 421:18	rate 89:14 91:18 98:20	reaffirm 211:8	392:6,10,20 404:5
question's 418:15	98:21,21 99:6,20	real 25:13 32:11 127:14	405:19 406:19 414:10
questions 25:19 28:7	135:12 137:5 149:20	187:22 188:8 221:12	416:9 420:7 425:15
30:18 55:11,21 68:8	188:22 293:9 377:20	256:18 266:2 281:21	realm 177:20
69:18 72:3 76:6 95:1	377:22 379:12 398:2	304:6 343:12 375:3	rearview 393:3
95:20 143:15,16	398:15,17 401:6	380:17 420:10	reason 25:3 41:12 97:22 117:16 139:19
144:11 196:7,16	rateable 126:3	realign 92:19	
204:14 206:7,9	rates 84:18 91:8 98:7	realigning 291:10	151:10 153:9 186:4
207:11 254:16 256:16	102:20 137:10 141:10	realistic 46:9 368:3	218:13 247:15 284:22
257:6,16 281:16	218:16 281:2,3	reality 93:9 364:11	324:13,14 333:21
289:2 290:9 292:8,12	351:12 352:5 377:17	367:20 386:8 425:15	348:3 371:19 374:2
293:3,5,16 294:2,13	ratio 309:9 398:19	realize 194:6 336:9	377:5 416:15
294:18,21 303:2	rational 69:8 252:7	342:5 343:13	reasonable 190:21
304:3 308:20 312:3	327:8	really 16:7 22:17 25:7	191:5 309:17 420:6
320:10 339:11 350:15	rationale 39:14 42:13	25:11,16 30:1,12,14	reasons 52:14 138:3
353:15 357:9 399:10	51:15 60:12 89:15	37:7,7,11 41:17,19,22	167:21 170:10,11
399:13	104:9 120:13 184:5	42:4 43:2 44:18 45:17	179:4 218:15 277:2
quick 54:8 56:2 69:19	204:22 234:3 297:18	49:8 53:12 60:3 64:7	370:19 385:19 404:16
72:3,6 74:4 89:3	424:11	65:21 69:7 86:11,12	reassure 30:2
122:22 132:10 142:8	rationales 35:14 179:22	86:18 87:1,11,18 89:6	rebranding 407:8
144:15 289:3 345:6	raw 185:21 229:15	94:5 97:22 98:12,12	recalibrated 399:5
400:19	279:5,20	99:10 100:4 123:6	receive 20:12 72:15
quickly 173:17 204:16	re-discuss 64:20	127:2,16 128:9	144:1 292:14
427:5	re-download 68:12	132:11 133:8,19	received 59:2,16 67:7
quite 76:8 77:7 93:17	re-endorsement 109:9	135:6 137:4,11 141:6	202:8
147:2 189:4 208:14	228:2	144:16,18 145:2,16	receiver 265:13
209:2 219:22 234:20	re-votes 69:13	148:13 150:22 152:4	receives 65:22
265:20 276:6 343:1	reach 39:9 46:20 58:4	152:12 153:16,17	receiving 198:5
	l	l	I

relate 292:3 receptive 313:10 96:14 155:8 400:21 repackaging 410:18,18 recognition 163:1 **reduced** 401:7 related 9:15 18:17 repair 206:12 recognize 8:12 42:8 reducing 73:20 92:10 22:17 49:6 59:22 repeat 322:7 93:11,13 401:16 94:13 177:17 178:7 58:9 140:18 253:14 repeating 65:10 254:10.14 reduction 5:10,17 179:1 184:1 190:5 **rephrase** 110:12 recommend 14:17 64:21 72:20 73:9,14 191:8 201:22 202:5 replace 281:10 286:7 76:12 88:3 102:5 85:7 99:5,19,20 102:3 243:5 258:3,16,16 389:2 109:11 119:17 136:13 285:12 395:18 396:9 270:6 279:13 287:15 replaced 285:7 168:5 227:10 250:1 396:10 421:17 290:4 293:10 349:15 report 28:15 57:11 272:16 283:19 381:20 reductions 101:22 349:19 405:12 72:22 76:5,9 129:10 383:15 387:6 411:11 reevaluate 168:18 relates 90:8 292:7 147:15 164:5 233:7 recommendation 56:13 reevaluation 168:9 relating 163:14 240:17 283:17 331:8 58:2,8 62:13 65:2 172:16 relationship 187:4 331:14 371:9 388:10 66:15 67:22 75:11 reexamining 294:18 249:14 252:19 388:16 424:5 88:1 107:22 108:17 relative 175:3,7 178:13 reported 81:3,5 82:14 refer 8:2 108:19,21 109:7 reference 35:12 123:6 181:4 216:10 291:6 96:1 110:10 119:20 114:9 118:10,17 referenced 108:11 315:4 349:7 403:13 126:21 129:21 161:15 120:5 135:17 161:6 references 312:5 422:1 164:1,12 166:5,7,7 relatively 219:20 168:15 172:17 181:9 **referral** 83:7,8 168:8 172:15 298:6 243:17 427:5 182:18,20 183:1 referring 55:3 306:1,9,11,15,22 refinement 209:3 263:7 186:18 212:15 213:19 **release** 275:3 307:18,21 308:10,16 264:17 released 300:21 369:22 311:2 318:4 321:10 214:10 217:1,6,9 222:2 284:20 285:6 refinements 206:2 393:9 321:22 322:12,13 286:12 294:17 341:12 reflect 113:19 205:8 relevance 209:6 326:16,22 327:14 260:1 312:15 404:2 relevant 17:13.16 355:12 370:1,7 401:2 342:6 354:8 372:20 373:6.10.15 379:19 reflected 162:18 179:15 207:4 274:6 405:12 381:19 400:11 404:13 reflecting 47:11 61:8 341:21 reporting 4:5,9,11,13 404:18 425:2 427:7 364:21 reliability 77:10 119:13 72:13 73:8 75:17,18 reflection 109:6 428:14 134:21 147:21 183:19 75:22 76:16 96:1 recommendations reflective 404:5 392:15 398:19 110:7 119:5 124:14 55:19 62:16 76:14 refrain 65:9 reliable 76:1 140:11 134:19 139:13 145:13 107:13 268:7 271:20 regard 31:5 392:9 167:22 168:2,3 147:13 151:11 154:13 249:17 254:13 380:14 375:22 regarding 25:20 46:19 154:16 156:6,12 recommended 129:18 122:5 207:14 226:2 392:4 157:3 158:17 159:6 137:14,15 195:15 242:2 250:7 350:8 relievers 294:9 160:10 161:15.21 241:18 255:3 272:4 355:14 395:7,10 reluctant 190:17 162:8 163:15,21 298:4 164:10 165:16,18,19 396:16 remain 292:21 regardless 138:5 408:2 recommending 372:22 remaining 62:14 165:21 166:10,22 384:14 408:19 regards 178:10 206:11 remains 107:13 358:14 167:7,10 168:4,16 reconfiguration 350:22 regions 83:7 remark 117:9 169:13,16,22 170:5 record 101:6,9 113:11 registered 18:7 remarks 4:3 29:1 94:9 171:3,6,8 172:18 130:5 140:14,17 registries 158:17 remember 6:16 29:21 188:1 255:4 287:22 158:19 173:9 240:8 371:15,18 37:3 207:16,22 301:20 310:10,14 264:22 265:2 268:18 257:16 335:13 338:22 321:15 326:6 353:8 registry 262:7,8,11,14 269:14 345:11 381:8 356:12,13 357:20 421:19 357:17 382:12 385:11 430:19 remind 103:2 115:5 401:1 409:15 416:16 358:6,6 371:17,22 records 113:7 129:8 372:3 118:9 122:17 295:4 reports 32:7 83:13 131:21 247:2 383:4,9 registry-based 357:13 reminder 72:9 represent 9:9,10,16 391:21 392:18 396:18 357:17 358:3,10 **reminds** 296:22 16:21 17:19 178:12 396:18 regular 61:14 126:13 remote 95:4 200:14 290:16 recrafted 294:14 removed 61:19 62:10 representation 172:10 red 71:10 rehab 193:3 233:9 representative 9:12 redesigned 97:3 367:4 reimbursed 302:5 removes 197:18 198:1 17:5 57:1 representatives 9:7 395:19 397:21 reimbursement 290:14 Renal 24:20 429:16 reimbursements 23:4 redo 429:12 Renaming 411:7 reorganized 346:22 redoing 123:5 290:16 represented 15:10 **redone** 209:7 reiterate 77:2 142:11 reorient 310:18 29:10 reduce 86:14 93:8 rejoining 354:15 repackaged 408:15 representing 11:8

12:20 13:14 15:11
23:7,12 24:18
represents 234:16
236:7 302:3 348:20
384:7
request 58:5 142:8,11
318:6 326:9,12
332:20 430:3
requested 330:2
requesting 330:4
requests 125:7 189:3
require 39:22 157:17
236:14 267:16,18
294:4
required 54:16 119:6
125:4,15 134:18
155:22 205:22
requirement 75:18
125:9 160:2 305:22
313:17
requirements 54:19
178:21 251:20
requires 44:13 187:3
288:4
requiring 74:12
rescind 344:9
rescinds 286:21
research 2:9 16:20 18:9
18:16,22 20:11 22:17
60:11 81:10 393:17
Resection 214:2
reselected 263:13
reset 354:13
resistance 23:18 158:5
163:11 170:2,3,4,6
163:11 170:2,3,4,6
163:11 170:2,3,4,6 171:12 333:17
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17 respectively 378:2
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17 respectively 378:2
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17 respectively 378:2 respects 198:10 204:7 respiratory 398:17
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17 respectively 378:2 respects 198:10 204:7 respiratory 398:17 respond 50:11 54:18
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17 respectively 378:2 respects 198:10 204:7 respiratory 398:17 respond 50:11 54:18 142:7 184:15 196:14
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17 respectively 378:2 respects 198:10 204:7 respiratory 398:17 respond 50:11 54:18 142:7 184:15 196:14 196:18 200:9 257:20
163:11 170:2,3,4,6 171:12 333:17 resolution 134:21 165:14 resolve 258:19 resource 177:21 178:7 190:1 202:16 226:3 227:6 238:15 239:4 287:19 303:8,15,18 303:19 309:5,11 312:18 313:17 314:12 resources 49:7 216:11 272:20 287:14 339:1 respecified 396:22 398:7 respect 44:6 47:22 75:22 114:7 204:17 respectively 378:2 respects 198:10 204:7 respiratory 398:17 respond 50:11 54:18 142:7 184:15 196:14

responding 294:3
315:8,9
response 19:9 25:22
33:10 47:12,15 48:11
78:9 105:22 128:16
128:17 135:4 136:17 152:18 161:16 166:17
204:13 224:17,21
245:19 246:10 256:21
306:12 316:4 348:1
350:18 353:16 355:1 368:12 379:7 402:5
402:11 403:4 411:9
428:3,19 429:2
responses 71:6 115:17
140:7 164:22 354:22
responsibilities 193:11 276:20
responsibility 38:1
105:7 275:22 276:3,8
276:13,16 277:12
332:18 364:7 responsible 23:14
89:14 103:20 104:7
127:20,22 132:22
277:17
responsive 125:7 202:7
rest 33:21 97:13,19 173:16 403:21
resubmitting 114:3
result 116:1 134:11
150:4 213:10 221:7
228:20 243:11 283:7
289:7,15 293:13 300:13 338:7 378:15
420:15
results 60:7 61:8 66:4
106:16 114:17 115:19
134:9 150:2 160:15 164:2 165:3 212:10
213:7,16 214:7
228:17 238:17 267:5 268:22 269:16 283:4
268:22 269:16 283:4
336:22 340:3,13,21 341:10 347:13 354:5
355:2 379:16 400:8
419:19 428:10
resumed 173:9 240:8
345:11
retested 408:16 returned 11:18
returning 29:12
revalidated 386:12
review 4:2 29:19 32:7
41:4,9,11 42:16 56:18
59:1 72:8 80:11 82:15

101:9 109:9 116:2

135:18 152:7 183:2

183:17 217:13.19 218:12,21 225:11 226:16,19 227:12 228:1,2,4,22 237:19 256:4,15 267:15 268:5 270:20 271:12 272:2 282:13 283:9 288:16 308:5 324:22 reviewed 56:1 103:18 152:13 160:1 226:9 227:16 249:5 268:12 271:19 274:9,14 320:15 322:17 411:20 411:22 415:10 reviewers 8:7 reviewing 73:4 reviews 202:2 revised 169:12 380:8 382:15 revision 257:19 263:11 revisit 40:22 64:15 343:15 **revolve** 372:8 revote 354:15,16 reward 173:15 239:15 291:1.2 **rhyme** 324:13,14 333:20 rich 21:9 135:6 **rid** 377:13 right 18:10 26:1 33:7 34:16 36:5 46:12 47:15 56:14 63:14 64:16 71:3 86:1,16,18 87:18 94:14 104:1 107:16 108:13 116:4 117:2,5 126:19 128:20 130:17 132:7 141:12 149:11 151:11 152:10,15 153:20 154:1,2 158:14,15 165:17 166:18 167:4 170:20 171:12 181:9 182:1,12,15 183:16 189:9 208:21,22 209:1 221:5 224:11 226:22 228:9,10 231:6 238:3,5 239:18 242:21 248:12.15 252:10 257:17 259:17 263:6 264:6 266:20 267:5 271:1 280:12 282:1 284:5,8,16,17 286:9,11 298:16 300:13 306:6 307:14 307:16 314:11 319:21 320:6 323:14 326:13 338:5,5 352:18,20,20

352:21 353:9 359:10 365:20 366:2,5,8 368:22 376:6 379:10 379:20 392:4,13 393:4 409:1 412:19 413:20 414:12,21 419:15 420:10 422:12 426:19 428:1 429:13 **rigorous** 230:13 ripe 145:9 151:11,12,12 ripple 33:20 139:3 rise 69:3 risk 80:19 110:4 123:12 141:17 151:7,17 155:6 175:14 194:17 194:20,22 196:22 197:5,15 198:10 214:19 224:7 227:8 227:11 228:12 233:3 233:11,17 234:9 250:7 251:13 260:5 263:22 264:1,2,4,22 264:22 265:7 268:16 268:18 269:12,14 283:11 293:22 296:17 319:2 339:20 340:8 340:18 341:4 361:11 366:1 379:11 **RN** 1:16,19 2:4 21:1,1,3 road 101:2 334:7 **roadmap** 334:4 robust 25:16 195:16 role 34:3 104:21 171:22 283:13 288:10 roll 331:7 335:1 rolled 392:12 rolls 41:1 **Ron** 7:8,9 10:19 29:2 30:8 35:6 47:14 74:5 108:7 116:11 124:2 142:4 265:9 267:11 270:5 316:18 317:21 411:17 417:4 Ronald 1:9.11 room 1:8 35:9 45:2 70:21 74:21 78:8 79:8 148:6 173:13 241:20 291:20 357:7 368:21 393:18 402:4 428:17 Roth 1:19 16:18,19,19 round 45:17 366:11 routine 80:2 82:16 routinely 251:4 **RPSI** 241:15 **RQR** 286:4 rubric 37:22 96:10 rule 35:10,13 50:8 53:4 53:4,9 131:5,6 134:15

224:16 308:10 321:8 **says** 121:3 128:18 season 8:3.3 331:14 seeks 44:6 321:16 418:18,19 148:13 159:20 161:20 **seats** 173:12 seen 9:21 36:9 50:12 rulemaking 53:3 254:18 164:3 317:18 323:15 second 14:16 40:2 52:9 84:3 133:2,9,13 rules 34:7 54:11 324:4 79:4 89:11 95:8 96:3 143:19 147:12 177:7 run 11:3 34:6 94:20 scale 165:16 250:21 134:14 136:17 137:1 181:14 199:14 233:8 157:2 212:4 234:10 407:12 422:8 251:5,18 255:18 250:10 304:6 308:11 running 68:3 302:6 260:3,7 262:10,13 243:12 271:5 284:15 381:4 391:14 425:8 263:10,13,21 264:19 297:13 303:10 307:8 sees 279:16 runs 359:21 265:7 266:13,15 320:20 347:21 356:4 segments 186:21 rupture 137:20 146:11 **Scales** 251:11 360:7 376:8 403:6 segue 394:22 rural 1:20 15:3 95:3 scan 164:22 404:21 select 40:11 54:14 229:16 scared 6:13 secondary 223:17 201:1 210:6,6 389:1 **RV** 287:1 scary 189:5,6 Secretary 205:20 selected 200:10 201:11 scattershot 324:8 section 139:10 141:18 207:20 239:1 380:2 S scenario 421:11 423:20 **sector** 20:13 400:3 **S** 1:9,11 scheduled 317:4 **sectors** 133:6 selecting 49:13 201:15 **sacred** 367:6 **scheme** 49:6 398:11 security 74:2 selection 38:14 54:8 safe 415:20 School 13:12 20:9 see 7:4 9:19 29:9,12 55:13 61:10 30:4 33:3 36:20 38:19 selections 310:6 safer 394:15 schools 22:1 Schultz 1:20 16:11,12 39:16 41:19 50:19 selectively 250:8,9 safety 11:7 12:17 13:4 16:15 19:18 22:15 16:13 79:10,11 88:9 51:2,9,13,13,20 55:21 self-deception 194:3 88:10,14 109:2 120:4 self-insured 193:22 23:14 37:6 73:20 67:6 68:17 69:20 119:7 132:12 146:8 138:11 154:7 186:16 71:10 75:14 77:6,11 **seminal** 381:1 206:11 221:22 251:16 146:10 147:11 153:20 77:12 80:21 97:20 send 106:11 244:3 senior 2:17,17,18,20 164:17 179:9 240:16 284:19 286:5,13 99:10 100:13 101:10 372:12 383:14 107:14 109:10.22 11:13 12:16 14:5 26:5 271:19,21 284:18 312:17 380:1,2 384:7 scientific 2:15 7:20 117:19,21 119:14 27:2 24:5 121:22 132:16 138:17 sense 35:11 98:15.16 384:18 387:3,21 **scope** 34:2 88:19 138:21 140:6 142:16 123:8 125:9 175:17 389:4 390:4 393:1,2 397:13 400:3.4 113:10 144:3,7 156:3 161:12 187:22 201:17 250:20 401:12 406:8 411:22 **score** 156:9 205:6 175:18 176:3 180:3,4 268:11 311:19 324:13 415:10 428:6 292:10 329:10,11 182:9 185:7,22 326:11 327:16 328:9 427:19 **saint** 194:2 199:13 200:22 204:13 331:3 333:14 350:21 salaried 13:18 **scored** 291:5 206:13,17 209:11 351:3 352:14 374:22 **salient** 271:13 **scores** 401:2 211:7 216:14 217:19 412:15 414:2 sample 110:19,20 scoring 294:21 329:4 220:18 221:13.18 sensitive 32:11 272:19 **sampling** 109:19 110:9 screen 264:12 224:17 225:13 229:11 359:7 136:15 screens 90:1 229:20 231:16 237:7 sent 197:2 Sanghavi 80:5,6 91:14 scroll 108:12 241:17 242:8 270:4 sentence 137:21 95:15 **scrutiny** 337:13,16 276:13 279:16,18 separate 74:13 76:15 **sarcasm** 21:15 **SDS** 41:14 204:11 291:19 294:13 295:22 164:2 166:15 189:21 296:12 309:21 319:22 205:19 218:4,21 190:8 197:16 315:16 sat 101:12 satisfaction 186:9 224:6 225:10,13 320:9 323:1 327:16 separately 298:7,7 328:1 334:5 335:10 separating 207:4 satisfies 374:17 226:2,8 227:8,19 228:3,3 232:2,8,14,20 335:15,16 339:8 **sepsis** 19:20 20:3 96:16 satisfying 42:10 325:11 223:16 274:12 279:9 233:3,10,16,22 236:8 341:18 342:14 347:11 **save** 344:16 saving 100:22 142:5 238:19 272:18 304:15 347:12 348:18 350:13 279:13 319:8 saw 16:11 216:21 241:3 304:16 372:15 374:4 350:13 363:3 372:10 **septic** 153:13 **se** 391:18 373:11 374:19 383:16 sequence 418:11 430:5 333:20 Sean 2:6 20:6,7 92:22 384:13 402:15 408:20 sequentially 53:7 saying 21:14 74:7 412:8 414:1 416:12 92:22 112:17 124:1,7 100:18 110:12 129:6 **series** 31:11 55:10 138:21 166:14,21 220:11 242:5,8,14 419:9 420:18 425:5 59:22 246:4 252:8,15 serious 158:4,6 359:19 167:22 168:3 182:2 430:2 256:16 260:17 270:21 seeing 36:18,21 37:13 388:18 424:12 427:2 191:3 221:20 277:11 359:12 367:13 368:14 133:4 144:19 207:16 seriously 30:3 189:4 305:2 328:18 332:17 352:9,11 364:2 369:14 370:19 274:5 311:18 339:17 256:15 370:22 384:3 406:9 Sean's 245:4 250:6 347:6 378:6 395:21 sermons 275:15 413:10,18 426:22 252:2 430:16 serve 94:14,18 102:22

П			
198:5	344:5	256:8 381:14	93:3,8,11 94:3 95:6
served 83:14,22 85:15	Shield 2:2	Simultaneous 111:4	96:5 98:20 99:6,20
serves 85:4 198:9	shift 103:17 105:2	112:4	100:9 101:21 102:1
service 49:19 93:12	415:18 421:16,17	simultaneously 268:7	102:20 106:6
II	shifts 403:15 404:1	l -	smoothly 30:14
147:19 229:18		Sinai 20:9 26:17	SNF 363:1
services 2:11 3:12,15	shining 365:4	single 99:2 101:12	
3:17,19 73:1 181:18	shoppers 193:1	235:12 280:21 314:5 367:17	soapbox 332:9 364:16
181:20 184:19 188:8 202:5 287:15 290:5	short 10:4 94:7 341:15 345:8	SIR 112:7 348:8 351:21	social 49:19 229:2
			277:4,15,16 societal 91:3 93:2
serving 7:22 220:6 305:14	shortcomings 140:21	352:3 353:8	
	shorter 78:21	sit 17:10,18 21:18 72:11	141:13 276:8
SES 231:4	shortfall 189:11	site 68:15,15 115:12	society 1:15 16:6 86:14
sessions 193:3	shot 42:6 211:18 354:4	132:2 144:7 239:8	90:19 158:5,7 190:16
set 4:9,11,13,19,21 5:7	393:13	348:22 353:22 354:19	279:17 350:2 355:17
31:6 33:2 77:3 95:9	show 44:17 79:2 91:21	sitting 7:9 16:14 29:21	society's 283:15
123:7 138:4,22 139:5	102:2 183:12 332:20	146:6	socio 218:6 220:17
139:11 153:6 156:20	333:13 393:10 407:12	situation 155:15 244:13	socio-demographic 204:1 218:1 230:1
174:14 176:5 198:16	showed 209:1 300:11	248:17 334:5 364:11	
198:21 201:7 262:9	showing 237:8 278:13	375:9 391:4	239:6 276:10 283:11
302:15 303:12 307:8 312:14 317:19 329:3	278:21 300:18 shown 140:16	situations 220:15 261:1 375:6	socioeconomic 45:14 softer 173:13
329:5,8 332:8 334:15 386:6 394:3	shows 178:18 207:7	six 101:11 410:22	softly 284:19 sole 96:8
sets 35:2 38:18 39:5	262:12 328:7 364:4	sizable 178:20	
	shuffle 158:12	size 34:2 217:15	solid 139:19
202:16 342:17	shut 104:2,17	skepticism 140:20	solution 258:6
setting 43:4 50:17	shy 28:8,8 sicker 195:6,11	skilled 122:15 377:8	solve 193:10
98:14 102:18,19,19 123:18 188:5 243:15	side 10:17 22:13 26:20	skin 220:19	solving 276:19 277:18
		skip 213:12	somebody 25:10 29:22
278:13 389:5	26:20 49:18,19 51:12	Slabach 1:20 15:1,2	56:6 230:18 243:18
settings 39:7 121:8	77:18 90:1 149:16	95:1 334:13 405:6	265:19 356:21 361:8
130:10 249:19 seven 394:6 429:16	172:12 237:20 277:2 290:2 329:2 357:15	slate 31:9 292:1	362:5 363:10 365:7
		slated 317:18 318:10	367:15 369:17,19 378:21
Seventy-six 379:16	sides 69:9,10 256:9	320:4,21	
several-fold 169:17	316:8	slide 22:5 38:16 39:8,16	somebody's 25:9 somewhat 103:17
severe 243:11,19	signal 398:18	40:13 44:17,18 55:2	
244:10 258:5 259:8 343:3	signaling 82:21 significant 8:5 82:2,11	56:19 59:3 60:14 61:12 62:20 65:19	225:4 362:9,13 soon 383:8,20
severity 195:1 223:14	85:12 91:21 93:3	67:2 68:7 73:4 83:1	sorry 19:14 24:3,9 71:2
245:13 250:21 258:1	101:5,22 173:20	84:15 288:15	118:14,15 120:22
259:13 294:12 342:19	184:5 200:19 216:20	slides 25:2 56:1	124:2 138:20 148:11
sexist 117:8	238:22 299:11 313:5	slightly 248:7 380:17	196:20 210:18 224:18
Shahab 2:19 27:7,8	397:5,6 403:15	Slosburg 1:21 11:19,21	262:3,20 264:7 269:5
37:18 38:10 40:14	significantly 84:18	11:22	287:5 304:2 307:14
54:6 56:8,11,15,17	92:15 102:20 187:6	slower 160:12 169:2	342:10 343:13,18
70:11 106:10 108:16	345:21 360:2 396:13	small 22:16 32:20 89:22	346:21 347:19 350:17
115:5 118:9 135:16	signs 263:21 331:8	95:3 101:3 105:4	358:5 362:14 368:21
144:12 211:15,19	siloing 49:10	149:10 381:15 389:7	405:3 418:14,14
225:19 341:7 400:18	similar 50:15 132:15	421:22	423:19
share 75:6 131:22	139:11 216:17 219:9	smaller 195:10	sort 25:14 31:8,10,16
198:6 229:12 323:22	246:4 251:16 264:3	smoke 82:10 91:7	31:17 32:9,17 35:1
329:16 337:1	290:3 346:8 348:4	100:3 101:4,7 102:16	52:4,10,11 54:2 96:10
shared 42:8 148:12	349:15 365:20	smokers 93:20	97:12 112:3 121:10
SharePoint 68:15,15	similarly 64:22	smoking 49:2,14 50:16	163:21 181:16 190:19
sharing 419:19	Simon 193:16	79:18 80:18 81:14	194:19 195:1 198:17
Shek 15:5,7 159:16	simple 28:10	82:3,13,16,18 84:18	200:3 205:14 220:3
SHEKHAR 1:17	simpler 11:4	85:8 86:13,13 88:13	230:10 232:6 234:2
Shelley 1:14 14:10,11	simplicity 83:5	89:5,7,14 90:14,15,19	249:7 257:6 277:5
297:7,9 298:19 342:1	simply 53:16 96:7	91:4,8,18 92:1,10	309:8 312:5 313:13
,			
II			

II			
313:21 314:7,8,9,9	322:14 419:5,8	260:4	374:3
315:5 316:12 329:16	spectrum 157:6	stakeholders 294:6	statute 318:2
332:7 347:9 392:12	speech 380:13	316:7 396:1	statutorily 355:10
407:4 408:1,6 413:8	speed 109:3	stand 238:11	statutory 305:22
414:12 419:19 421:8	spell 118:3 167:2	standard 200:4 219:15	313:16 317:13 355:11
421:9 422:15 423:2	spend 29:18 186:2	220:3 371:18	stay 49:15 225:8
sounder 282:15	277:8 299:7	standardization 197:17	stays 275:4,5 280:9
sounding 276:22	spending 177:6,11,15	198:1,8 250:7	413:20 414:18
sounds 41:18 148:7	177:21 178:8 180:2	standardize 309:7	Steering 268:4 270:20
172:4 223:3 240:5	180:15 186:19 187:16	standardized 112:8	step 38:17 61:6,12
285:20 327:8 425:1	189:11 197:6 201:17	175:14 214:20 228:12	66:21 90:7 150:15,22
source 139:22 140:1	204:19 281:8 288:8	268:16 269:12 296:17	158:11 163:4 232:6
247:3 248:2 272:22	298:15	319:2 339:20 340:8	245:12,16 271:5
371:4,7	spends 324:14	340:18 341:4 365:19	332:18 346:1 349:10
sources 140:11,20	-	365:22 366:1 379:12	362:14 363:5 381:15
247:1,10 253:2,2	spent 49:20 178:14 391:7		381:16
south 142:1		standardly 266:14 standards 291:13	
space 32:15 153:17	spinal 207:15 208:4,13 213:12,14 397:2	standards 291.13	stewardship 151:22 153:16 155:11 159:3
163:3 273:21 387:21		_	
Spalding 3:18 196:17	spirit 325:4	226:4,19 227:7,12,16 236:11 271:8,8 379:5	159:11 169:18,21 170:14
	split 58:15 69:2	412:5	
196:19 200:11 204:15 289:17,18	spoken 50:7 162:16 393:18	standpoint 51:3 146:8	stick 100:12 101:19 102:11 257:19 260:8
		181:5 422:11	stimulates 313:1
spans 205:5 spared 380:13	spot 368:22 spread 391:5	stands 153:22	stomach 243:21
speak 28:5 45:22 50:3,5	spreading 373:3	Stanford 202:3	stop 86:1 95:6 191:6
50:6 57:7 67:17 76:20	spreading 373.3 spreadsheet 325:6	star 78:13 296:7 402:9	346:4 373:2
115:6 122:2 125:17	spring 29:6 207:18	429:1	story 259:10,11
142:12 289:1 333:17	squeeze 77:5 268:8	start 29:4 31:14,19	straight 316:20 413:16
384:1 385:2 388:2	282:10	61:21 74:22 129:20	straightforward 208:4
speaker 103:11	SSI 79:6 88:10 108:4,21	133:11 152:20 176:10	strange 230:10
speakers 104:20 169:1	115:12 348:4 353:11	176:12,17,22 260:2	strategic 58:20 84:10
speaking 17:15 57:9	353:12 402:16	261:16 273:17 277:5	84:13 95:13
111:4 112:4 142:13	SSIs 113:4	337:21 346:15 429:10	strategies 81:21 83:6
speaks 49:1 331:5	St 1:19 16:20 92:5	started 30:19 37:14	96:14
spec 245:18	staff 2:14,16 6:22 8:9	74:6 118:13 174:7	strategy 31:18 37:10
specific 17:19 54:18	25:12 26:3,11 28:1	240:22 259:11 284:12	54:17 81:20 84:12
85:6 115:11 126:10	30:10 37:22 55:4	299:3 345:14 350:14	96:7,9,22,22 97:2
156:21 163:20 186:18	56:13 58:1 59:6 60:2	391:1	105:6 169:15,17
199:8 204:14 206:7	60:9 61:6 64:4,9 66:9	starting 29:6 55:16 60:5	280:9 312:20
207:12 215:14 233:15	69:11 107:12,22	152:5 179:19 235:12	straw 299:3
246:17 280:13 292:11	108:8,17,19,21 111:2	starts 75:19 84:11	stream 385:3,8
297:4,12 304:3	113:3 114:9 117:14	state 22:22 75:21 80:21	Street 1:9
309:21,22 316:14	117:20 118:10,17	90:2 147:13 155:22	strength 423:17
334:21 339:10,15	135:16 141:22 142:9	234:21 318:13 373:21	strengthening 282:3
341:21 346:17 353:21	160:4 181:8 209:16	396:14 413:8 417:15	strict 291:2
354:18 360:15 395:13	217:8 226:21 232:19	417:17	strictly 151:16
specifically 52:17	232:20 239:19 241:18	stated 120:2 154:14	strike 252:7
122:13 184:22 207:19	255:4 271:12 284:20	385:19 404:16	strikes 87:1,18 93:4,14
257:10 270:1 300:12	298:4,13 315:9 342:6	statement 39:13 233:6	206:12
305:21 396:14 397:15	343:14 402:21 404:13	236:5 260:14 371:6	striving 83:4 99:11
specifications 59:14	404:19	387:2	stroke 239:2 241:8
126:2,5 136:6 187:9	staff's 55:18 59:17	states 148:12 177:6	242:3,22 243:5,11,19
208:2 246:18 319:6	109:7 120:5 186:17	230:8 350:5	244:10 245:13,15
322:11	222:1 286:11 300:1	statewide 84:5 97:3	250:8,21 251:11,18
specifics 426:19	301:1	stating 308:8	252:17,19 255:18
specified 43:3,8 396:19	stage 158:16 248:3	statistic 52:20	257:3,17 259:8,12
specify 169:13	stages 160:21	statistics 393:11	260:3,7 262:10,13
specs 122:19 319:16,18	stakeholder 224:22	status 171:1 220:18	263:10,13,21 264:19

265:7 266:13.14.22 268:17 269:13 399:9 **strokes** 258:5 strong 69:3,10,14 147:2 148:2 155:1 259:21 267:19 292:21 327:22 387:6 stronger 386:4 strongest 116:15 263:22 265:22 **strongly** 102:12 142:2 146:3 284:22 300:5 314:19 342:13 382:11 384:2 **struck** 33:13 **structure** 72:13 282:12 401:4 structured 266:15 282:15 **struggle** 314:4 324:2 327:7,10,20 328:11 329:2 struggled 109:20 323:6 struggling 314:2 **STS** 356:12 357:13 371:1.17 stuck 388:1 studies 229:22 237:8 238:18,22 243:6 385:5,22 396:18 study 124:8 192:16 300:7.11.20 stuff 192:13 206:15 209:7 231:18 371:21 stump 380:13 subcohort 222:5 subgroups 207:1 subject 2:3 9:4,20 17:9 19:18 21:7 44:5,20 57:1 58:9 63:3 subjected 60:21 submission 132:5 155:21 169:12 submit 47:5 53:22 74:13 110:18,20 164:4 253:16,22 337:15 submittal 318:11 submitted 62:1 67:9 68:6 137:1 147:6 155:18 218:2 268:11 317:5,6 318:12 333:7 333:12 submitting 110:17 126:10 131:21 132:4 subsequently 403:21 **subset** 32:20 substandard 413:4,6

substantial 41:6 69:10 82:7,17 84:1,20 85:4 85:10 91:22 92:2,4 178:12,13 217:13 361:12 395:20 substantially 82:4,19 91:16 395:22 417:12 substantive 223:10 348:13 352:7 substituting 14:7 70:14 **suburban** 229:16 success 49:5 sudden 193:1 **suddenly** 91:7,16 **suffice** 226:14 sufficient 391:21 suggest 82:15 94:2 114:8 119:2 154:16 168:19 187:10 216:22 252:10 314:19 360:17 377:9 suggested 140:18 200:13 218:7 230:14 299:5 suggesting 277:5 suggestion 146:16 326:18 419:16 suggestions 376:4,4 suggests 93:7,9 381:5 suited 120:7 Sullivan 2:7 22:21.21 90:11 123:10 279:22 283:18 372:19 425:7 427:8 sum 71:21 116:6 summarize 117:20 267:13 summary 5:22 80:11 233:6 236:5 271:13 377:15.17 **summed** 66:12 summer 330:22 **summing** 66:4,14 super 406:14 superior 208:11 256:6 supplemental 184:10 support 2:16 26:10 28:1 39:19,20,20 40:16,18 41:1,8 42:5 42:14,15,15 44:20 45:3,4,10,12,16,18,19 46:5 47:16 60:9,10,10 61:1,3,3,4 65:17,18 65:18 66:2,2,2,5,5,6,7 66:8,9,13,13,14,14,15 70:4,5,6 72:1 74:8 76:2,4,15 88:4,20,21

108:22 109:6 114:9 115:13,14,14,20,21 116:1,5,13,13 117:7 117:18 118:11,17 119:3,18,21 123:22 125:8,10 127:15 129:18 134:6,6,7,10 134:10,11,12,22 135:18 136:14 142:2 145:21 146:2 149:22 149:22,22 150:3,4,4,5 154:8 159:22 162:3,6 162:14 163:12 164:18 164:19,19 165:4,5,6,6 166:9,9,14,16 167:9 167:13,20 168:11 171:18 172:14 183:1 184:13 185:12,13,15 195:14 210:6,9,10,10 210:21 211:8,13,13 211:14 212:12,13,14 212:16 213:5,6,6,8,8 213:9,10,16,17,18,20 214:8,8,9,11 217:1,2 217:8,20 226:2 228:15,16,16,17,18 228:19,20 232:19,20 241:19 244:19 251:6 255:3,4,6,17 267:3,4 267:4,6,6,7,9 268:20 268:21,21 269:1,1,2,3 269:17,17,18,19,21 269:22 270:1,2,14 272:16 282:16 283:2 283:3,3,4,5,6,7 285:1 286:12 298:5 302:11 311:13,21 326:1 340:1,2,2,4,4,5,6,11 340:12,12,13,14,15 340:16,22,22 341:1,2 341:10,11,11,13 342:7,8,9,9,12,13 343:14,16,20,22 344:12 345:3 349:3 354:1,2,2,6,7,7,9 355:3,4,4,5 363:6 378:12,17 379:14,14 379:15,17,18,18,19 381:21 382:7 384:19 386:18 387:11 400:5 400:5,6,9,10,10,11 402:20,22 404:14,14 404:19,21,22 406:8 410:4,6 411:4,11,12 411:12,15 413:18 414:18 425:2,3 428:7 428:8,8,11,12,13,14 supported 27:11 46:18

47:2 60:21,22 65:15 117:5,6 123:13 274:18 supporter 292:21 supporters 190:21 supporting 27:3,4,9,17 74:9 125:2,5,13 133:18 180:1 182:14 218:20 390:6 supportive 140:10 146:4 151:15 165:20 165:22 250:18,19 275:21,22 349:1 350:11 362:10 391:11 **supports** 118:3 260:20 342:11 382:11 suppose 69:2 190:2 supposed 108:8 131:20 141:21 156:2 173:16 203:18 270:18 317:9 345:22 427:13 sure 7:11 21:6 28:12 30:3 31:14 35:8 36:4 36:5 40:14 42:11 47:4 48:5,7 52:3 57:15 72:10 77:4,8,21 90:11 90:22 91:9,14 107:3 110:13,14 114:13 118:3 123:15 124:19 125:12 143:12 155:1 160:3 161:11 166:22 167:8 174:3 181:6 195:12 196:4 197:3 201:8 212:19 215:10 219:3 220:15 221:15 227:1,21 228:21 235:8 236:21 237:2 241:9 246:16 252:15 255:1,8 256:11 270:21 271:10 285:3 297:6 298:11,18 305:18 307:2 315:12 316:20 318:12 321:6 324:14 346:6 348:3 349:5,9 350:18 352:13 355:6 357:8 359:8 365:12 380:18 388:3 422:6 423:8 **surely** 119:7 surgeon 16:4 359:6 370:14 371:16 surgeons 1:16 16:6 348:20 350:3 355:17 360:5,16 361:22 367:16 377:2 surgeries 208:18 359:20 surgery 12:1,3,6 360:13

89:16 94:2 107:11,15

360:21 361:10.12.14 228:10 229:10 232:6 telephone-based 95:20 78:17 80:5 86:2.4 361:16 379:13 233:8 235:7 240:2 tell 9:16 27:21 35:8 88:9,22 91:13 92:21 **surgical** 115:12 141:22 247:6 260:16,19,20 189:13 190:9,10,11 103:1,8 105:10 106:1 278:4 284:20 304:11 346:17 348:22 350:4 194:21 240:12 245:7 109:3 114:1 120:1,4 353:22 354:19 360:16 309:6 313:21 327:6 258:8,11,12 259:20 124:7 131:18 133:21 327:15 328:20 346:10 surprise 156:10 417:2 265:13,17,20 310:12 134:1 135:5 136:19 surprised 154:22 349:6 350:7 353:18 138:14 144:14 146:21 380:19 390:8 395:15 217:11 231:22 363:12 364:10 367:7 416:6 147:1 148:5 150:14 telling 136:12 surprises 231:9 355:22 374:10 395:3 407:7 155:16 162:11,12 409:1 428:17 tells 151:18 173:1,2 177:4 180:16 surprising 358:2 180:17 181:6 182:16 surprisingly 9:8 taken 20:5 38:13 49:14 ten 235:14 345:9 surveillance 23:15 51:8 245:12 256:13 359:21 367:9 392:10 184:16 185:3 186:14 80:19 113:3 156:5 392:12 396:2 409:7 186:16 188:10,12 256:22 386:17,22 survey 95:18,20,21 396:12 tend 28:8 194:4,7 198:13 takers 270:4 200:11 202:19 206:5 292:9,22 294:19 **tendency** 378:17 tenfold 381:10 takes 135:9 192:9 197:7 207:10 210:10,15 survival 356:17,18 359:2,5 361:6 362:21 238:3 tension 47:15 128:1 212:17,18 214:12,16 371:2 372:4,6 373:7 talk 26:13 28:2 38:7 tent 36:3 57:7 217:3,5 219:1,2 220:9 377:7 44:2 52:16 81:5 84:13 term 178:17 236:12 221:22 222:9 224:8 Surviving 20:3 129:1 147:9 197:14 362:2,3 370:10 225:18 236:20 238:7 Survivorship 1:14 203:21 204:16 211:10 terminology 289:21 238:10 239:10,12,13 241:14 257:10 297:9 terms 34:22 89:6 14:13 240:6,18 241:22 suspect 242:18 369:12 307:8 341:19 342:1 130:22 133:7 145:3 244:22 245:3 246:16 386:13 403:14 392:7 411:14 419:16 145:18 146:1,6,13 249:4 250:13,21 255:11 257:4 265:9 suspending 294:20 talked 44:19 118:5 147:10,15,20 159:20 Suzannah 3:11 224:1 235:19 283:22 371:1 163:5.20 164:9 271:16 273:8 282:17 235:8,19 246:19,21 378:14 380:6 386:22 170:21 180:13 182:18 285:13 291:14 295:1 257:9 318:9,12 403:1 183:16,19 184:9,13 295:2,3,17 296:10 Suzannah's 270:6 talking 53:10 168:13 215:17 216:11 223:13 298:10,19 299:1 **swap** 417:9 221:8 242:18 277:8 223:14 238:6 252:20 302:21 303:4,21,22 307:5 308:21 312:2 **swapping** 417:10 289:5 292:12 307:13 253:10 297:21 306:16 switch 141:6 251:9 327:18 376:3 392:16 313:13 314:13 326:13 314:18 316:3 322:21 384:17 385:13 395:6 351:9,10 396:15,15 404:10 328:22 332:10 333:18 **system** 1:16 13:3,5 tallied 71:14 395:10 396:21 397:18 335:19 338:21 339:7 23:15 49:18 70:2 tally 369:8 398:18 399:7 412:11 339:7 344:22 351:18 71:20 80:19 95:5 tallying 65:20 419:18 421:14 353:14 357:6,8,9 **Tara** 3:16 287:5 303:6 110:6 120:12 127:5 terrible 258:13 420:9 362:17 363:11 365:13 130:7 140:17,22 target 94:11 122:12 territory 277:7 366:18 368:11,15 201:7 204:6 229:18 140:3 238:5 254:14 terror 153:22 370:4 372:16 373:19 276:2 281:20 424:22 **Taroon** 2:16 227:2 test 56:19 69:19 70:1,5 373:19 374:9 378:4 **systems** 98:3,8,9 99:15 232:17 289:13 415:16 70:7 234:11,22 379:20 382:5 383:12 102:13,22 120:9 task 218:6 323:9,9 283:13 392:10 383:21 384:20 385:15 140:14 158:21 159:10 tasks 410:5 tested 43:4,8 76:7 90:3 387:9 390:7 391:15 278:19 300:16 381:5 tax 93:10 277:9 147:22 423:7 393:20 399:12 419:15 taxes 90:14 91:17 testing 40:1 41:14 43:3 425:4 429:5,5 430:12 T 43:21 44:5,12,13 45:7 teaching 198:2 430:15 70:2 71:20 90:8 169:3 table 8:8 18:2 25:5,11 team 26:10 38:4 80:10 thanks 6:3,4 7:7,14 29:15 30:5 31:2 58:11 235:8 245:11 246:21 392:6 12:22 16:17 18:19,19 72:11 252:2 **THA** 308:13 20:6 22:19 24:7 29:2 technical 246:18 tackle 142:21 thank 7:8,16 10:18,22 30:21 37:19 38:10 take 30:2 35:22 51:16 389:14 11:5,16 12:7,21 13:7 54:6,6 56:20 105:13 60:19 63:2 67:8 68:8 technically 41:3 13:19 14:9,22 17:1,7 142:4,4 159:17 69:22 82:9 100:15,18 technology 73:17 18:18 20:15 21:5,22 196:12,17 204:15 23:3 24:2,20 25:2 267:11 289:17 291:21 105:19 114:12 116:11 271:18 tee 266:19 287:3 339:18 26:9 29:16 30:7,8,10 301:14 141:20,21 150:8,22 159:18 160:3 173:5 teed 162:9 284:6 332:1 30:15 34:11 35:4 38:4 **theirs** 57:16 173:11 195:5 198:7 50:10 56:9,16 63:17 theme 174:19 239:3 teeing 303:5

75:1,5 76:17 78:7,10

telephone 3:22

211:1 221:6 227:2

251:16

themes 174:11
theoretically 418:17
therapy 193:3 thereof 240:13
thing 6:21 12:4 38:3
45:17 74:17 77:13 86:18 111:7 117:6,11
124:22 139:7 168:12 176:3 181:10,22
182:5,15 185:17
203:19 224:4 228:8 240:11 245:14 249:6
249:19 252:15 271:1
271:2 324:8 348:18 351:11 365:10 373:8
376:8 380:12 383:10
407:5,17 408:21 409:1 420:9 426:9
things 17:15 34:6,9 41:14 58:7 59:4 60:12
83:16 84:9 91:3,17
92:17 97:7 98:8,11 100:6 101:1 102:17
128:10 130:19 131:14
132:13 138:5,8 153:12 177:11,13,18
182:9 185:19 193:6 198:2 215:5 221:8
228:6 233:15 274:2
278:1 283:21 304:16 323:11.14.22 324:5
323:11,14,22 324:5 324:12 325:16 327:13 328:19 331:15 332:2
333:2 334:11 336:2
337:8,21 358:22 372:8 373:5 375:21
378:13 380:21 383:5
389:20 392:5,10 395:13 405:7 430:11
think 7:6 10:17 19:12
19:13,19 21:13,16 26:1 30:22 31:16,18
32:16,17 33:1,10,18 34:9,13,13 36:12,17
36:20 37:7,9,10,14
41:15 42:9 43:21 44:1 45:1 46:8 47:21 48:3
48:17 49:22 50:8 51:3 51:7 52:4,11 60:9
64:17 68:7 71:6 74:22
76:11 78:5 83:15 84:9 86:10 87:3,16 88:19
89:4 90:7 93:2,16
96:4,18,21 99:1 100:15 101:16,17
102:10,11,19 104:2,4 104:16,20 105:1,2,7
110:11 111:17 114:10

119:16 120:16 121:10 123:10,11,12,20 124:5 125:18,22 126:6 127:14,22 128:6,13,21 129:2,2 129:11 130:1 131:1 132:15,21 133:3,7 135:13,20 136:11,21 137:8,9,17 138:2,6 139:12 140:5 141:6 141:12 144:3,15 145:1,4,8,11,21 146:10 149:12 151:10 152:1,3,6,6,19 153:2 153:15 154:3 160:6 160:19 161:12 162:13 162:15 163:13 164:7 164:10,14 168:4 171:11 173:21 177:5 178:1 179:3 180:5,9 182:14 183:15 184:4 184:12 185:17 189:20 189:21 190:5,6,16,22 191:6,16,19,21 192:1 192:2,5 193:4,8,13,19 194:2,12,16 195:3,13 195:19,20 197:15 198:18,19 201:4,19 202:7 203:15,20 204:22 208:11,14 211:1 214:14 215:19 216:6 218:13,15 220:14 224:4,10 226:16 228:5,21 231:5,22 232:10 235:3 237:10 244:15 245:19 246:4,5 248:20 249:21 252:18 253:9 254:7,8,16,22 256:4 259:17 260:22 268:10 271:2 272:1,2 272:22 273:17,19,22 274:4 275:19 276:2,6 276:12,18 277:5,10 277:19 278:8,11,17 279:3,9 280:11 281:11,18 282:8,16 283:22 289:4,20 294:3,11,17 295:19 297:20 298:5 301:10 303:7 304:4 305:6,6 309:11 312:4,5 313:15 314:1,2 315:5 316:8,8 317:1,8 320:20 321:5,18 322:9 323:4,6,13,22 324:1,10,11 325:8,16 326:17 327:2,11,19

327:21 328:2 329:1.2 329:18 330:4 331:2,6 331:13,18 332:21 333:1,5,22 334:2,5,9 334:13 335:9,10,13 335:15 336:7,22 337:2,20 338:3 339:17 348:18,20 349:2,18 350:6 351:7 351:15 352:21 356:11 357:3 360:20 361:1,5 362:12,19 363:2,5,16 364:4,9,11,13,17,19 364:21 365:15,16 366:10 368:12 370:7 370:9,9,19,21 371:13 372:8,9,20 373:1,9 374:5,6,17,20 375:17 376:13,13,14,17 377:1,4,9,12 378:8,18 379:8 382:6,10,18,21 383:8,11,16 384:5,6,9 385:2,9 386:5,14 387:1,4,8,17 388:18 390:4 391:9.9.12 395:8 397:19 398:4 399:1 405:11 406:12 406:15 407:3,7 408:15,22 409:8,10 410:12 411:6 412:13 412:22 413:12 415:16 416:22 417:7,15 418:4 419:17 421:20 422:11 423:2 424:7,9 424:18 425:10.16.17 426:4,5,13,18 427:1 427:14,18,22 430:6,7 thinking 29:4 31:15 34:22 35:18 52:6 86:18 96:10 160:4 163:18 185:1.2 189:18 197:16 254:7 272:1 276:14 277:21 298:18 307:11 311:8 312:6 319:4 324:15 325:9 342:4 366:15 399:2 410:20 413:2 422:18 426:11 thinks 146:17 third 11:14 12:3,12 14:15 243:16 265:21 269:10 379:22 Thirty-eight 167:13 Thirty-five 355:3 thirty-three 165:5 354:6 **Thomas** 2:13 17:1 **Thoracic** 1:15 16:6

thoracics 207:2 thorough 237:21 thoroughly 218:5 thought 31:11,16 101:13 141:16 163:4 168:14 169:2 181:8 190:21 207:3,22 215:7 247:21 249:11 257:2 280:18 281:5 283:19 284:2 295:18 313:21 319:12 328:8 342:10 343:19 344:19 353:9 366:9 415:19 416:8 thoughts 31:11 38:3 75:6 223:2 297:2 335:19 357:7 359:11 363:7 373:17 385:16 threat 129:4 **three** 19:19 20:20 37:3 38:16 49:14 54:18 57:13 102:2 107:4 157:3,8,19 174:1 193:4 211:12 229:8 235:19 239:15 241:7 241:13 242:1.6.17.19 242:22 245:6.8.9.17 246:1,6,7,12,12,14 247:15 253:1,13 254:6 255:13,13,16 255:21 260:16,20,21 263:15 264:3,14,20 265:13,14 266:4 267:18 268:6,11,14 275:1 292:12 299:13 307:20 315:14,16 316:21 319:16 333:8 335:1 337:11 341:17 342:2 343:8 346:9 349:8 350:9,11 354:3 354:21 398:12 423:9 423:9,13 427:17 429:17 three-and-a-half 27:19 three-patient 49:15 three-quarters 73:10 threshold 140:3 thrombosis 398:6 throw 109:22 170:20 300:16 tie 275:19 tied 304:17 tier 205:19 423:9,9,9,10 423:12,12,13,13 **Tilly** 2:19 27:16,17 68:19 71:1,5,9,17 106:4,13,16 115:10 115:16,19 134:3,9

350:2 355:17

11			
149:19 150:2 164:16	tobacco 52:16 85:17,18	282:3,14	393:6,20 394:21
164:21 165:3 210:15	91:16 93:7	translation 19:22	399:12,22 417:4
211:12,16 212:6,10	today 7:13 8:12 9:12	transparency 145:10	419:2 430:14
213:1,13 214:1	10:2 11:9,15 17:14	310:4 375:10,15	treated 406:10
228:11 266:20 268:15	23:22 24:4 29:5 37:16	transparent 145:3	treating 364:12 406:16
269:11 282:21 339:19	65:12,17 69:22 76:20	193:7	treatment 204:8 252:6
341:9 353:20 354:17	80:10 104:3,17	Transurethral 214:2	275:3 287:16
	1		
379:10 400:2,8 428:5	162:12 194:14 287:7	trapped 389:9	treatments 179:11
428:10	295:7,9,16,20 319:4	trauma 208:13	treats 223:22
time 6:9,20 8:20 15:22	349:16 378:14 403:7	Trautner 2:1 11:1	tremendous 93:21
25:13 26:2 27:13	428:18 430:8,10	180:22 261:11,12	100:21 102:13
28:21 29:6,16 36:14	told 70:9	Travis 1:9,11 7:3,8 10:9	trends 18:18
36:20 41:4 50:13	tolerant 424:21	10:9 30:16 33:5 35:6	trial 137:16 218:3 224:6
53:10,11 57:14 61:4	Tom 17:3 48:13 50:10	36:2 46:1 47:7 48:13	225:10 226:9 228:3
62:1,5 63:3,10,12	51:17 80:15 229:11	50:10 54:5 68:22	232:8,20 234:19
65:9 66:19 68:1 77:8	366:19	70:18 71:15 117:11	235:13,15,18,21
78:12,16 79:1 86:1	tomorrow 6:10 295:16	129:15 131:11 168:12	238:1,2,6
95:22 103:16 109:12	400:14 410:16 429:9	173:11 180:17 182:16	tricky 267:13
131:13 134:17 135:9	430:16	184:14 185:4 186:14	tried 21:9 297:1
136:8 142:10 144:6	tool 59:10 84:21 85:21	188:10 194:4 196:13	tries 81:21
145:20 153:17,21	87:1 124:14 391:10	198:13 200:8 202:19	trillion 177:7
154:2 159:7,18	tools 239:7	204:12 206:5 207:10	Trinity 92:5
160:11 161:10 173:21	top 68:20 69:20 199:15	209:4,11,20 210:2,9	triple 300:2 301:7 335:3
176:13 177:3 179:15	265:18 284:3 334:19	210:18 211:6,20	triple-A 206:16
182:14 195:18 200:6	336:17	212:3,8,17 213:11,21	triple-A's 207:2
211:2 212:2 220:1	topic 34:12 39:2 45:5	214:12 215:12 217:3	trouble 89:11 115:8
227:9 228:4 239:20	139:6 140:2 142:15	219:2 220:9 221:21	143:14
241:16 242:5,6	162:15 184:20 356:10	222:9,15,19 223:3	true 87:20 92:12 129:1
243:18 244:2 248:9	topics 139:11 350:8	224:8 225:18,21	187:17 192:2,2,3
248:20 253:6 256:12	357:4	226:20 227:21 228:9	259:11 310:5 363:22
256:13 258:8,17	topped 336:2	229:4 236:20 237:19	364:3 384:5 396:7
259:5 267:17 273:15	torn 301:17	239:10,13,22 240:5	409:12
281:5,8 290:9,18	total 49:6 198:17,19	291:14 295:2 296:10	truly 315:18
291:7 292:1 296:6,9	204:2 205:1,5,12	298:10,17 301:15	trump 89:6
318:20 321:12 324:7	230:16,16 296:20,21	302:22 303:22 305:12	trust 48:5,12 237:19
324:15 325:1 329:17	309:12 341:5,6	306:4,8 307:5,10,15	truth 394:16
330:1,5 338:10	totally 20:21 68:19 70:9	307:20 308:21 310:15	try 6:7,8,9 7:12 53:11
344:16 345:22 346:11	384:2 406:11,12	312:1 314:16 316:4	58:14 66:22 81:8
356:20 359:18 365:15	407:18	316:18 318:22 319:15	92:19 98:6 103:8
366:10 368:4 370:7	touch 49:17 50:17	320:11 321:3,18	104:12 124:10 126:8
385:20 387:1 391:7	125:20	320.11 321.3,16	126:21 129:16 138:7
11	tough 44:18 277:7		
392:22 394:4 402:8	trach 244:3,3	327:2 330:18 332:10	175:19 176:1 204:15 214:6 229:7 255:15
402:13 411:7 417:8	,	333:18 334:12 335:12	
418:2,15 428:15	tracheostomy 243:20	337:20 338:13,21	279:19 280:19 289:12
430:2	358:21	345:13 347:17 348:1	341:15 385:20 392:17
timeline 131:3	track 63:19 76:15	348:15 349:4 350:12	408:3,3
timelines 418:13 419:1	120:10 129:16 230:12	351:18 353:14,17	trying 18:13 69:13 99:7
timer 71:3	322:6 361:22	357:6 359:10 362:17	100:5,17 103:2 105:1
times 20:20 101:11	tracking 77:20	363:8 365:15 366:18	123:2 128:18 160:6
137:3 157:3,8,20	tracks 83:9	367:10,13 368:11	163:2,5 164:8 166:14
161:14 175:10 248:1	tract 308:12	369:18 370:4 371:10	167:2 178:1 193:17
255:1 300:8 338:2	training 13:5 15:20 24:6	372:11,16 373:16,19	212:18 219:3 245:12
403:7	405:13	374:5,11 375:20	271:6 282:10 295:19
timing 52:22 430:4	transcriptionist 57:10	376:21 378:4 379:8	315:19 316:19 328:16
tired 324:9	transformation 15:19	379:20 381:18 382:5	330:6,13 335:12
tires 203:2	37:1 302:9	383:12,21 384:20	339:3 348:8 364:10
titled 38:20	transitioning 386:6	385:15 386:20 387:9	368:20 369:1,6 376:1
TKA 308:13	transitions 281:19	389:6 390:7 391:15	393:1 418:4 419:11
	I		

			473
		<u> </u>	l
tube 243:21	ugly 417:1	undertake 232:9	urinary 308:12
Turing 190:18	ulcer 387:16	undertaken 205:21	usability 249:8
turn 28:21 37:17 38:6	ulcers 387:19 399:18	underway 205:18 206:4	usage 151:14,15
55:20 64:5 72:3 74:5	399:19	221:11,15	use 23:17 34:7,7 43:12
180:19 209:15 210:13	ultimate 114:17	undifferentiated 387:18	48:1 73:13,18 74:10
224:1 397:18	ultimately 96:18 131:9	unfair 105:4 191:9	87:14 93:7 97:2
turning 57:15	161:2 247:17 378:15	193:19	105:15 110:6 114:18
turnip 282:11	426:8	unfairness 407:4	144:22 150:12,17
tweak 418:7	Umbdenstock 21:9	unfolds 245:20	151:1,2,4,5,7,9,16
Twenty-five 165:4	unable 59:12 120:10	unfortunately 21:19	152:21 153:18 154:9
Twenty-four 400:9	unclear 252:20	52:22 100:10 143:2	156:11,13 157:6,19
Twenty-three 428:11	uncomplicated 149:21	181:1 231:11 345:17	158:13,15,16 159:6,8
Twitter 7:1	uncover 238:2	uniform 196:2	159:20 160:2,13
two 7:16 8:22 9:2 26:12	underestimated 104:20	uninsured 147:5 198:6	161:21 163:16 164:18
27:14 29:17,19 37:3	undergo 217:12	unintended 146:14	165:16 166:3,3,9
39:17 44:17 67:7,8,16	undergoing 41:14	294:15 304:13 313:5	168:8 169:2,3,22
71:6 74:13 77:11 81:8	undergone 41:6 227:12	378:18	170:2,19,22 171:13
89:3 95:1,20 104:20	underlies 81:10 84:20	unintentional 293:19	177:21 178:7 184:19
119:1 120:16 131:8	underlying 203:12	union 356:17 362:3	188:6 190:1 192:20
140:16 149:5 167:16	234:3,16 236:4,8	unique 119:1	202:16,17 205:11
169:1 203:10 207:1	249:15 272:6	unit 309:13	216:14 226:3 227:6
216:7 225:8 234:19	undermine 163:9	United 177:6 350:4	247:2 286:2 287:19
241:7,13 242:1,5,17	underscore 293:8	universal 192:19	294:8,20 303:9,15,18
246:12 248:14 253:18	understand 18:2 31:3,6	universally 140:4	303:19 304:5 309:5
256:9 260:15 261:17	31:13 33:15 38:8 65:3	universe 280:17	309:11 311:17 312:18
262:21 263:3,9,14	83:4 87:10,17 103:12	University 18:8 19:17	312:21 313:12,17
264:14,17 266:19	107:7 109:20 110:15	UNKNOWN 286:16,20	314:13 327:21 328:5
267:2 268:5 270:2	118:1 123:19 124:10	unnecessary 179:11	339:1 352:16 362:1
273:18 278:5,22	126:11 148:9,9 152:2	186:22 190:3 192:11	371:19 372:3 374:3
280:4 303:8 319:16	152:21 154:3 155:3	192:20	377:8 385:6 389:12
335:5 341:7 343:2	155:10 157:22 167:8	unquote 220:3	407:21,22 408:2
344:20 349:8,11	169:19 188:17 192:9	unreasonable 371:13	416:19 425:21
350:8,8 355:14 357:3	195:15,17,21 196:9	unrecognized 398:1	useful 81:11 114:12
359:15,16 373:5	214:16 218:2 220:13	unsure 251:18	137:9 181:11 271:2
375:21 392:22 394:2	234:12 235:3 245:14	untested 120:19	281:12 403:19
394:2,6,17 395:10	245:16 246:5 278:20	untrue 193:19	user 396:1
397:8 401:9,11,18	304:13,15 317:10	unusual 133:10	users 249:12
402:15 409:2 412:21	318:2 320:17 324:19	up-front 100:20	uses 204:20 247:12
415:6 420:15 421:21	325:20 327:9 328:3	upcoming 418:18	263:15,17 264:4,21
423:12,13 429:19,22	328:17 332:3 347:13	update 46:14 72:17	265:5
two-and-a-half 27:10	369:1,6 376:9 382:3	73:12 108:22 110:22	usual 68:1
two-step 304:10	384:2 404:1 416:19	111:11 112:9 114:13	usually 9:9 103:18
tying 86:16 91:1	417:21 418:8 419:11	116:3 223:9,12	247:5 391:11
type 39:3 43:12 139:5	419:12	227:15 228:1 229:1	uterine 137:20 146:11
185:19 215:9 241:11	understandably 136:1	267:15 274:13 355:8	utilization 152:3 181:17
254:9 310:6,8,12	understanding 109:16	401:19 402:22 415:14	189:8 309:8,15
330:7 334:19 336:18	137:10 141:20 150:18	updated 68:13 113:18	313:14,22 314:12
343:5 363:20 366:3	151:10 163:7 178:2	307:1,4 308:6 319:5	358:4
417:18	181:12 182:6 194:13	320:14 322:4 411:21	utilizations 314:14
types 39:17 54:20	194:16 196:2 203:16	415:14	utilize 279:19
92:17 96:11 103:17	234:11 273:19 274:3	updates 46:13 68:10,18	utilizing 126:2
126:22 194:15 196:6	274:6 323:16 335:6	412:6 422:19	utilizing 120.2
			V
287:17 314:15	343:11 366:12 380:11	updating 114:10	
typically 43:11,17	388:5 393:10 408:11	upper 108:12	VA 358:1,8
183:22 422:8	418:10 419:7 423:11	ups 335:1	vaginal 135:11 141:17
100.22 122.0		LINCOTTINA 1VUIA	1 /1 2 : / / 1 /1 (1 :) / ()
	427:13	upsetting 189:5	143:22 149:20
U UCLA 13:12	427:13 understood 350:18 352:9 375:6 386:4	Upshaw 1:9,11 upstream 96:19	valid 249:21 311:19,20 387:15

validate 266:12 315:20 385:21 386:1 validated 261:21 262:1 266:9 validation 396:16 validity 77:11 119:13 134:21 147:21 183:19 259:20 384:16 392:15 408:6 valuable 41:15 156:3 172:1,2,3 173:22 248:14 260:6 332:21 333:14 369:4 value 30:5 49:22 91:2 137:18,22 166:8 170:21 178:3 187:2 187:17 297:22 298:6 310:13 311:6 312:22 314:3,10 338:17 347:5 376:18 387:8,8 408:2 value-based 4:15,18,20 5:6 287:11 288:5,11 288:19 290:11 296:3 299:10 300:3 304:5 305:8.16.20 306:18 310:20 313:18 317:1 317:6,16 319:17,19 322:14 327:17 333:15 345:15 375:1 409:11 values 48:15 351:1 variable 234:5 variables 225:13 234:16 263:13 264:4 265:1,7 268:19 269:15 variants 315:17 variation 178:20 180:11 181:15,17 182:8 183:11,13 184:5 199:14 200:20 201:1 216:3 301:8 313:3,3 328:8 336:3,13 337:18 361:12.18 368:18 383:19 variety 19:4 27:13 358:21 various 188:6 288:14 334:20 390:17 vastly 285:2 **VBAC** 136:11 146:10 147:16,17 148:21 **VBACs** 146:9 **VBP** 186:21 204:20 285:11 286:3 290:14 290:17 292:2,10 294:22 304:21 307:4 311:14,17,21 316:2

318:3 320:13.16 321:14 324:20 326:1 326:5,9 332:3,22 334:16 353:7 355:12 365:19 366:2,3,17 380:9 382:4 383:18 384:14 409:19 **VBPN** 286:22 vector 302:9 vehicles 37:1 vein 396:22 398:6 vendor 76:3 125:10 126.12 vendors 76:2 119:21 125:1,5,6,12 126:1,9 134:22 249:18 ventilated 258:15 venues 56:5 138:9 verdict 267:8 269:3,19 340:6,16 341:2 355:5 **verify** 48:12 versa 421:5 version 7:6 68:14,17,20 124:13 227:4 230:21 230:21 247:14 248:16 253:3.21 263:9 267:16 272:10 285:2 285:4,7 286:6,8,13 308:1,2,3,5 320:16 322:18 357:13 380:8 380:16 394:2,19 396:4 397:7,7 409:16 411:19,21 412:2,4,5 412:12,16,20 413:7 415:6,9 416:9,21 417:2 versions 232:2 247:9 247:22 248:15,19 253:18 254:3,6 267:18 409:2,4 versus 45:3 139:15 193:4 195:9 208:4 258:17 309:8 313:14 355:11 359:5 360:16 375:7 396:19 403:16 413:8 vertex 144:2 vertically 57:8 vetted 386:15 vice 2:15,20 11:6,13 12:16 13:3 421:5 view 129:5 155:2 191:10 310:9 391:5 420:18 viewed 216:11

viewpoint 9:9 259:22

views 430:10

vigorous 163:10

Virginia 94:18 virtue 166:6 198:4 vision 84:10,13 247:18 visit 140:15 visits 275:3 280:20 282:8 vital 31:2 263:20 331:8 voice 15:17 volume 315:14 397:10 397:16 voluntarily 166:7 253:22 voluntary 75:16 165:19 165:21 166:3,4 171:6 171:8 248:16 253:21 vote 46:9 55:19 57:4,18 60:19,20 61:2 62:17 65:13 69:19 70:5,7,12 71:11,16 89:16 105:9 105:19,21 106:5,11 106:14 115:9 116:14 128:19 134:2 149:18 150:2,5 164:14 167:12 171:16,17 206:6 209:13,16,18 211:22 212:3.9.19 228:10 244:19 255:1 255:21 260:15,20,21 260:22 261:5 282:20 286:15 302:19 324:8 339:4,9,18 344:12 346:14 349:6 353:18 354:16 379:6 400:1 407:6 411:10 413:15 414:1,4,5,14 427:19 428:4 vote's 159:21 **voted** 70:18 112:12 269:21,22 270:1 voter 354:10 votes 65:20 67:1 70:16 211:20 275:18 341:7 341:9 voting 2:3 56:18,19,22 57:18 59:8 60:1,14,17 60:18,21,22 61:1 63:21 66:21 68:8 69:2 70:2,17 71:20 74:8 106:3,12 107:10,11 111:19 115:15,18 134:8 150:1 164:20 165:2 166:15,16 167:9 169:2 210:21 211:15,19 213:1,13 214:14 255:2,21 266:6 352:15 353:6,8 400:7 408:17 412:19 428:9

VPB 376:12,20 vulnerable 244:11

W wage 197:19 wait 45:16 53:11 276:15 322:3,20 326:20 waiting 318:17,20 326:10 337:14 388:4 walk 386:11 **walked** 15:22 walls 276:4 Walters 1:9,11 6:3,12 6:15,18 7:17 10:19,19 26:3 27:21 35:7 44:16 48:3 74:15 78:7,10,17 79:12,16 86:4 87:22 88:5,12,22 90:10 91:12 92:21 94:6,22 97:14 103:1,5 104:18 105:11,20 106:1,20 107:20 108:3.10 109:1,13 112:16 114:5,15 115:4,9 116:4,18,22 117:3 118:2 120:1,14,20 122:17 123:9 124:1 128:15 129:13 131:17 132:7 134:1,13 135:2 135:5 136:16 138:10 138:14 140:6 142:3 146:21 148:5 149:18 150:6 151:19 154:5 154:18 155:13 159:14 161:7 162:9 164:13 165:7 166:11,19 167:11 168:21 171:15 172:10 173:1 240:10 240:18 242:10,13,16 244:22 245:18 246:9 248:4 249:1 250:3,11 251:8,15 252:1,8,22 254:20 255:9 256:1 260:13 261:9,16 262:18,20 263:4 264:5,8,14 266:5,18 267:10 268:13 269:4 269:9,20 270:11,15 271:15 272:8 273:8 274:20 275:10,13 278:4 280:6 281:15 282:17 284:5,11 285:13,16,18 286:15 286:19 287:2 316:19 341:14 342:7 344:3 344:14,20 400:12 402:3,6,14 403:5

404:7,18 405:1,5,16

•
406:21 408:10 409:9
410:1 411:6,10
419:21 423:4 424:3
425:1,5 427:6,9 428:1
428:4,15,20 429:5
want 18:1 23:4 26:9
28:11,11 29:15 30:2,3
30:8 32:11 33:16 36:3
37:9,18 38:4 42:11
45:16 46:15 51:22
52:9,18 56:21 57:12
62:5 64:14 67:21
70:11 76:13 78:2
89:17 98:1,21,22 99:10,12 105:7 109:9
99:10,12 105:7 109:9
114:12 115:5 118:9 123:4 124:19 129:17
129:22 130:2 131:2
138:16 146:1 148:13
151:6 157:22 158:11
159:18 161:12,14,15
167:8,20 170:19,20
174:3 180:21 183:21
185:22 186:11 205:6
211:17 224:5 233:14
238:11 241:17 247:17
254:8 257:9 265:18
266:2 274:8 276:12
282:14 284:19 292:20
294:9 300:19 302:10 303:5 305:2 307:3
311:4,17 312:14,21
319:15 326:20 327:4
328:21 329:16 331:22
334:8 336:14,19
338:4,6 344:1 349:9
353:4 354:4 357:12
360:1 364:3 370:14
371:5 372:18 374:8
376:2 391:16 395:1
413:13 415:6 416:18
416:22 417:1,2 421:7 422:10 428:16
422:10 428:16 wanted 33:11 36:8 54:7
55:21 56:10 77:2
103:9 132:9 146:8,13
150:20 160:21 176:21
215:10 223:1 228:7
232:5 235:10 236:17
239:9 246:22 247:20
269:6 284:13 297:16
298:18 303:16 307:16
316:15,16 320:7
359:14 400:19 415:13
wanting 147:14 389:9
wants 241:17,21 268:6 310:16 344:18 403:2
411:14
111.1 f

war 276:19 warfarin 118:7 134:4 **warrants** 157:12 wash 231:15 237:7 279:15 Washington 1:9 189:12 wasn't 22:2 24:10 33:6 202:11 waste 179:8 190:3 watched 343:10 watching 403:22 way 21:15 28:9 56:4 60:6 63:5 83:11,18 91:5 93:13 94:19 98:2 100:10 101:18 128:4 131:15 152:2,21 153:6,18 178:6 187:6 192:3,15 195:16 197:3 200:2 225:15 230:13 232:17,18 234:3 238:4 248:7 257:22 258:2 259:13 260:22 261:4 262:5 270:3 281:7 282:12 283:16 312:10 317:9 322:13 327:9.20 328:4.6 329:3 335:14 338:22 343:11 352:4 363:5 364:13 368:19 378:10,15 388:22 389:8 407:9 408:7 412:20 416:7 422:4 ways 84:11 96:18 137:21 169:20 177:20 207:4 249:13 329:20 385:12 396:7 416:15 **we'll** 8:19 9:5,18,19,20 37:14 38:8 52:16,18 56:18 57:18 58:13 59:5,7,10 63:10,13,21 64:5 65:7,8,13,16,20 66:4 67:12 68:1 69:21 74:5,20 79:4,19,22 80:2 106:3 114:3 117:21 128:19 132:16 134:2 135:14 140:6 176:1 185:7 186:6 197:14 204:13 211:8 211:10 212:20 215:2 219:5 228:10 235:6 241:9 246:15 286:21 341:19,20 346:7 354:13,15,16 374:9 379:21 429:10,12 430:2

we're 8:15 10:7 15:16

17:8,21 26:12 28:12

37:16 41:21 50:9 51:2

51:12 52:6 53:10 60:19 63:7,9 69:13,19 70:6 73:6,19 74:9,17 77:8 78:22 80:3 88:5 88:12 97:11 99:11 100:18,19 101:20,21 102:3 103:2 105:5 108:8,13 115:16 119:10 123:2 129:11 131:7 134:15 145:1 151:14 158:1,8,8,9 159:6,9 162:13 164:4 164:21 165:20,22 166:15 167:1,9 169:17 171:1,4,6,7 173:5,16 174:8,9 176:10,11 177:5 178:1 185:1,1 186:13 188:21 203:7 206:2 206:22 209:12,13 211:16 213:11 214:5 232:7,8 235:11 236:13,18 239:16,18 240:20 242:18 245:19 255:1,2,8,21 263:11 272:14 274:1 277:22 282:10 290:4 291:16 298:20 299:14 307:22 311:8 318:17,20 319:4,9 326:6 329:13 330:13 332:16,20 337:13 341:14 345:13 345:14 346:2,10 347:4 348:8,9 353:7 353:18 354:11,21,22 374:1 375:22 376:3,6 379:8 383:20 386:7,9 388:11,12 389:8 400:1 402:1 406:16 408:17,18 409:7 410:5 413:9,18 414:22 417:9,10 422:19 423:18 426:4 426:5,13 427:11,13 we've 7:4 9:21 30:12 31:1 32:18 36:9 38:13 38:17 39:3,5 47:10 64:16 65:6,11 75:14 104:20 133:2,9 144:7 146:10 156:8 158:4,6 164:14 165:12,15 172:2 175:4 177:7,18 181:14 182:3 191:2,6 191:16 201:21 203:5 211:3 223:13 231:5 238:17 239:6 248:15 248:17 250:10 253:9 253:18,19 254:5,11

256:13 266:11 267:13 274:14 279:4 297:5 304:6 305:4 316:9,10 316:11 321:18 323:13 327:15,15 336:1 338:2 345:21 354:15 375:13 378:14 389:16 389:17 392:4 396:12 403:1,13 410:22 413:5 416:8 418:19 424:21 429:7 430:2 weaker 382:16 web 72:7,14 132:2 144:7 webinar 115:7 website 231:19 238:20 401:3 **WEDNESDAY** 1:5 weeds 157:1 week 145:20 152:7,14 152:15,16 412:21 weeks 412:21 Wei 2:2 12:7,9 138:15 198:14 219:7 220:9 289:4 309:2 365:16 366:18 393:21 weigh 67:20 301:21 318:7 weighing 376:6 weight 299:11 397:9,20 398:10 weighted 394:3,7,17 weighting 397:8 398:11 399:17 406:19 411:2 weights 397:10,11,12 397:16,18 398:9 welcome 4:2 6:3,18 7:7 11:17 26:22 29:13 30:9 62:4 64:7 118:19 welcomed 10:6 well-tracked 122:9 wellness 97:22 98:6 100:1 105:1 went 10:1 26:19 173:9 201:15 224:16 235:20 240:8 284:13,16 308:11 342:16 345:11 381:8 409:6 412:20 415:12 430:10,19 White 162:20 who've 27:22 60:16 wholeheartedly 55:17 wholesale 99:7 **whoopsie** 407:15 wide 166:3 199:7 225:11,12,12 426:2 widely 92:10 widespread 73:16

144:22 workgroup 1:3,8 2:12 114:4 131:8 144:4 Ζ wild 99:16 23:2 27:3,9,18 29:11 160:1 188:21 189:9 Zehra 2:19 27:8 37:18 willing 119:21 30:10 35:13 38:21 203:10,10 205:5,7,15 42:18 54:5 56:20 60:3 39:15 42:9 58:8 59:6 willingly 166:5,7 207:17,17 223:7 400:16 **WILSON** 2:20 61:18 62:10 65:4,8 224:13,21 225:5 Zehra's 109:4 234:19 259:5 290:19 win 167:14 67:10,22 399:14 zero 50:4 391:8 wind 136:16 301:6 290:20 293:12 306:2 workgroups 34:15 39:9 **zip** 230:14 window 290:7 42:9 58:3 318:5 320:19 321:9 wise 294:12 working 26:11 33:17 321:17 322:13 323:17 0 wish 33:12 57:6 58:20 51:9 100:8 127:16 324:11,11,18,20,22 **0** 106:18 62:8 255:13 345:1 128:13 152:1 159:9 325:3 326:16 327:14 **02** 139:16 143:10 367:17,19 194:17 205:18 206:22 333:3 337:22 347:15 **wishes** 56:6 240:1,4 271:9 357:9 363:21 364:17 367:15 withdraw 251:5 393:4 368:10,13,17 370:1 **1** 4:9,19 79:2,17 150:10 withdrawn 344:21 works 87:10 101:18 395:11 409:11 412:1 346:16 withholding 290:15 106:2 114:14 144:9 420:8,9,15 421:4,5 **1.5** 377:21 woman 139:8 196:4 206:21 214:16 year's 223:7 224:16 **1.75** 290:19 women 138:7 262:12 347:7 308:10 423:7 **1:00** 70:14 173:18 174:7 wonder 42:18 273:5 world 33:22,22 34:1,1 year-long 29:7 **1:17** 240:8 315:10 357:4 388:14 360:16 391:19 392:19 years 7:5 8:6 18:18 **1:30** 240:4 394:18 worried 301:19 302:1 19:19 20:3 27:10 1:35 240:9 wondered 42:2 336:2 423:21 30:22 35:11 37:3,8 1:45 239:21 347:9 worries 194:10 47:9 53:10 65:1 75:16 **10** 99:5 wonderful 14:2 21:14 worry 176:4 185:17 110:16 124:8 125:20 100 262:13 372:2 386:7 186:5,12 367:4 420:7 29:9 391:10 141:9,11 154:15 410:10 wondering 150:7 worse 154:1 243:8 189:7 192:2,8,16,17 **1030** 1:8 222:11,13 226:13 244:14 393:12 232:16 235:14.22 10th 118:16 310:8 334:17 405:19 worst 255:14 416:3 238:14 247:6 292:6 11:00 240:21 word 24:8 190:9 270:3 worth 77:4 94:21 268:8 293:4 305:13 323:7 **11:54** 173:9 words 190:8 336:4,11 393:13 328:20 333:8 334:7,7 **1140** 284:7 420:8 worthwhile 114:10 334:7 363:14 381:2 **115-836** 213:4 work 6:5 7:15 8:10,21 wouldn't 95:9 130:15 385:18 386:19 390:11 **12** 20:3 341:10 9:15 15:19 17:14,17 160:16 255:13 407:12 392:22 393:8 424:5 **12,000** 338:18 19:20,20 22:13 23:7 407:22 408:3 yesterday 68:14 188:20 **12/15** 68:14,17 wrapping 161:5 26:2.10 27:6 30:11.12 300:21 360:8 **12:05** 173:10 30:15 34:18 38:8 46:7 write 7:1 yesterday's 300:7 12th 68:4 46:16,16,22,22 48:18 written 68:2 381:2 **Ying** 2:2 12:7,9,9 **14** 132:20 156:21 368:2 50:13 70:10 77:17 wrong 89:9,9 93:21,22 138:15,16,20 198:15 **15** 89:12 93:18 102:1 86:16 92:19 97:9 94:11,11 104:2 219:8 309:3 365:18 228:13 240:2 340:4 102:10,14 114:1 116:20 124:10 147:8 366:8 393:22 340:13,19 353:22 124:9 126:21 133:5 150:19 191:15 221:4 York 20:10 22:22 90:13 354:19 393:8 230:18 252:13 318:10 136:15 152:4 153:4 300:8 **15-1033** 269:15 153:17,20 154:9 364:5,6 420:8 young 2:11 23:6,6 29:2 **15-1135** 268:19 169:18 174:15 179:17 wrongs 392:13 31:14 34:11 52:3 15-294 267:1 205:17 208:10 215:13 **WUNMI** 2:17 112:6,11 129:22 **15-295** 341:6 225:6 243:22 253:7 130:17,22 136:3 **15-369** 340:10 X 274:7 297:6 305:14 142:4,7 148:16 149:9 **15-378** 339:22 330:1 359:11 370:16 162:11 184:16 223:5 **15-391** 283:1 Υ 382:8 387:18 388:4 246:16 248:13 251:9 **15-395** 379:13 253:8 257:4 280:12 391:14 392:15 394:12 year 7:10 8:2 11:15 15-837 213:15 420:1 424:17 425:11 12:4,12 14:15 15:10 303:4 305:18 306:6 **15-838** 214:4 430:8.9 18:6 21:13 26:7 27:4 312:2 316:6 326:13 15th 1:8 worked 20:2 26:17,17 27:6 29:21 31:8,12 328:22 337:3 348:3 **16** 1:6 213:16 379:18 109:22 195:22 196:1 351:7 352:1,18,21 35:11 36:13 37:20 393:8 424:5 390:18 46:19 47:1 58:3 60:15 353:11 357:8 374:9 **17** 131:6 268:22 321:11 worker 102:15 60:18.20 62:19 65:20 418:12 419:15 421:6 **173** 4:11 workers 277:15,16 422:12 66:4.11.20 68:3 73:5 18 82:9 238:18 273:17 Workforce 16:7 82:14 89:13 112:12 273:18 398:11

19 238:18,21 341:10	6:6 7:21 116:5 7:4
1980s 95:22 1999 293:11 424:6 3:40 345:12 1A 69:21 3:40 345:12 2 3:40 345:12 2 4:11,21 79:5,12 108:4 356:15,17 358:15 6 4:2 286:13 108:14 173:6 174:8 359:4,9 360:17 361:3 6.0 285:4,7 286 342:3 361:20,22 367:22 368:2,3 369:7,7 212:13 228:1 342:3 360:20,22 367:22 368:2,3 369:7,7 212:13 228:1 342:3 370:19 373:3 377:13 416:6 417:20 424:6 416:6 417:20 424:6 416:6 417:20 424:6 416:6 417:20 424:6 416:6 417:20 424:6 416:6 417:20 424:6 <t< td=""><td>6:6 7:21 116:5 7:4</td></t<>	6:6 7:21 116:5 7:4
1999 293:11 424:6 3:40 345:12 6 6 4:2 286:13 6 6 4:2 286:13 6 6 4:2 286:13 6 6 4:2 286:13 6 6 4:2 286:13 6 6 4:2 286:13 6 6 4:2 286:13 6 6 4:2 286:13 6 6 4:2 286:13 6 6 4:2 286:13 6.0 285:4,7 286 6 6 4:2 286:13 6.0 285:4,7 286 6 6 6:1 106:17 116:7,16 117 116:7,16 117 116:7,16 117 212:13 228:1 600 302:6 60 66:1 106:17 212:13 228:1 600 302:6 65 147:19 149: 212:13 228:1 600 302:6 65 147:19 149: 212:13 228:1 228:13 228:1 228:13 228:1 229:14 296:17 319:2 340:22 68 400:8 69 341:11 340:22 68 400:8 69 341:11 7 7 7 7 7 7.9 377:21 70 312:13 7 7 7.9 377:21 70 312:13 73 4:6 428:10 74 4:7 7	6:6 7,21 116:5 7:4
2 30 102:1 175:14 192:17 6 2 2 4:11,21 79:5,12 108:4 108:14 173:6 174:8 356:15,17 358:15 6.0 285:4,7 286 108:14 173:6 174:8 359:4,9 360:17 361:3 116:7,16 117 116:7,16 117 174:16 290:21 341:16 361:20,22 367:22 368:2,3 369:7,7 206:378:2 204:3 78:22 93:19 370:19 373:3 377:13 600 302:6 204:3 78:22 93:19 370:19 373:3 377:13 416:6 417:20 424:6 340:22 68 400:8 209:12 295:13 30-day 214:20 228:12 68 400:8 69 341:11 2008 26:8 2010 92:14 356:6 362:12 366:9 79 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 358:19 361:8 362:6 73 4:6 428:10 329:14 333:12 358:19 361:8 362:6 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	7,21 116:5 7:4
2 193:3 239:21 299:15 6 4:2 286:13 2 4:11,21 79:5,12 108:4 356:15,17 358:15 60 66:1 106:17 108:14 173:6 174:8 359:4,9 360:17 361:3 116:7,16 117 174:16 290:21 341:16 359:4,9 360:17 361:3 116:7,16 117 342:3 361:20,22 367:22 212:13 228:1 342:3 368:2,3 369:7,7 600 302:6 20 4:3 78:22 93:19 416:6 417:20 424:6 65 147:19 149: 192:2,17 213:7 214:7 30-day 214:20 228:12 68 400:8 2005 235:13 257:17 266:21 268:16 269:12 296:17 319:2 2010 92:14 356:6 362:12 366:9 7.9 377:21 2011 10:6 112:5 356:6 362:12 366:9 7.9 377:21 2014 82:14 177:7 356:6 362:12 366:9 7.9 377:21 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 365:8 370:16 768 398:20 2017 290:20 32 212:12 228:17 267:7 32 4:9 2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	7,21 116:5 7:4
2 299:16 349:14,16 6.0 285:4,7 286 2 4:11,21 79:5,12 108:4 356:15,17 358:15 60 66:1 106:17 108:14 173:6 174:8 359:4,9 360:17 361:3 116:7,16 117 174:16 290:21 341:16 361:20,22 367:22 2637:22 342:3 368:2,3 369:7,7 600 302:6 20 4:3 78:22 93:19 416:6 417:20 424:6 65 147:19 149: 192:2,17 213:7 214:7 30-day 214:20 228:12 68 400:8 2005 235:13 257:17 266:21 268:16 69 341:11 2008 26:8 269:12 296:17 319:2 39:20 340:9,19 7 2012 110:6 112:5 356:6 362:12 366:9 7 79 377:21 2013 293:11 30s 359:22 73 4:6 428:10 74 4:7 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 329:14 333:12 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	7,21 116:5 7:4
24:11,21 79:5,12 108:4 356:15,17 358:15 60 66:1 106:17 116:7,16 117 108:14 173:6 174:8 359:4,9 360:17 361:3 116:7,16 117 116:7,16 117 342:3 368:2,3 369:7,7 212:13 228:1 20 4:3 78:22 93:19 416:6 417:20 424:6 340:22 192:2,17 213:7 214:7 30-day 214:20 228:12 340:22 2005 235:13 257:17 266:21 268:16 269:12 296:17 319:2 2010 92:14 356:6 362:12 366:9 341:11 2012 110:6 112:5 356:6 362:12 366:9 77.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 358:19 361:8 362:6 74 4:7 329:14 333:12 358:19 361:8 362:6 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 2017 290:20 32 340:20 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	7,21 116:5 7:4
108:14 173:6 174:8 359:4,9 360:17 361:3 116:7,16 117 174:16 290:21 341:16 361:20,22 367:22 212:13 228:1 342:3 368:2,3 369:7,7 600 302:6 26 378:2 370:19 373:3 377:13 65 147:19 149: 20 4:3 78:22 93:19 416:6 417:20 424:6 340:22 192:2,17 213:7 214:7 20-day 214:20 228:12 68 400:8 2005 235:13 257:17 266:21 268:16 69 341:11 2008 26:8 269:12 296:17 319:2 339:20 340:9,19 7 2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 70 312:13 2014 82:14 177:7 30s 359:22 74 4:7 75th 183:12 37 2015 1:6 73:9 235:14,15 365:8 370:16 768 398:20 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	7:4
174:16 290:21 341:16 361:20,22 367:22 212:13 228:1 342:3 368:2,3 369:7,7 600 302:6 2.6 378:2 370:19 373:3 377:13 65 147:19 149: 20 4:3 78:22 93:19 416:6 417:20 424:6 340:22 192:2,17 213:7 214:7 30-day 214:20 228:12 68 400:8 2005 235:13 257:17 266:21 268:16 69 341:11 2008 26:8 269:12 296:17 319:2 69 341:11 2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 352:12:12 228:17 267:7 78 4:9 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
342:3 368:2,3 369:7,7 600 302:6 2.6 378:2 370:19 373:3 377:13 65 147:19 149: 20 4:3 78:22 93:19 416:6 417:20 424:6 340:22 192:2,17 213:7 214:7 30-day 214:20 228:12 68 400:8 2005 235:13 257:17 266:21 268:16 69 341:11 2008 26:8 269:12 296:17 319:2 69 341:11 2010 92:14 339:20 340:9,19 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 78 4:9 2018 320:5 321:5 31 67:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
2.6 378:2 370:19 373:3 377:13 65 147:19 149: 340:22 20 4:3 78:22 93:19 416:6 417:20 424:6 340:22 192:2,17 213:7 214:7 2005 235:13 257:17 266:21 268:16 68 400:8 2008 26:8 269:12 296:17 319:2 69 341:11 2010 92:14 339:20 340:9,19 7 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 78 4:9 2018 320:5 321:5 31 44:21 8 228:19 269:1 327:14 341 4:21 8:30 429:10	8
20 4:3 78:22 93:19 416:6 417:20 424:6 340:22 192:2,17 213:7 214:7 2005 235:13 257:17 266:21 268:16 69 341:11 2008 26:8 269:12 296:17 319:2 339:20 340:9,19 7 2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 365:8 370:16 768 398:20 329:14 333:12 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 212:12 228:17 267:7 78 4:9 2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
192:2,17 213:7 214:7 30-day 214:20 228:12 68 400:8 2005 235:13 257:17 266:21 268:16 69 341:11 2008 26:8 269:12 296:17 319:2 7 2010 92:14 339:20 340:9,19 7 2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 78 4:9 2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	4,5
2005 235:13 257:17 266:21 268:16 69 341:11 2008 26:8 269:12 296:17 319:2 7 2010 92:14 339:20 340:9,19 7 2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 365:8 370:16 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 78 4:9 2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
2008 26:8 269:12 296:17 319:2 7 2010 92:14 339:20 340:9,19 7 2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
2010 92:14 339:20 340:9,19 7 2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 8 228:19 269:1 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 74 4:7 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
2012 110:6 112:5 356:6 362:12 366:9 7.9 377:21 2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
2013 293:11 370:15 377:5 379:11 70 312:13 2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 33 167:12 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	 _
2014 82:14 177:7 30s 359:22 73 4:6 428:10 235:17 401:3 31 340:3 356:9,22 74 4:7 2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 78 4:9 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
235:17 401:3 2015 1:6 73:9 235:14,15 329:14 333:12 2016 75:19 290:19 2017 290:20 2018 320:5 321:5 327:14 2018's 317:18 31 340:3 356:9,22 358:19 361:8 362:6 365:8 370:16 32 212:12 228:17 267:7 32 340:20 33 167:12 341 4:21 345 5:7 327:14 345 5:7 31 340:3 356:9,22 74 4:7 75th 183:12 37 768 398:20 78 4:9 78 4:9 8 228:19 269:1	
2015 1:6 73:9 235:14,15 358:19 361:8 362:6 75th 183:12 37 329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 78 4:9 2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
329:14 333:12 365:8 370:16 768 398:20 2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 32 340:20 8 2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	78·1
2016 75:19 290:19 32 212:12 228:17 267:7 78 4:9 2017 290:20 322 340:20	J. I
2017 290:20 322 340:20 2018 320:5 321:5 33 167:12 327:14 341 4:21 2018's 317:18 345 5:7 8 228:19 269:1 8:30 429:10	
2018 320:5 321:5 33 167:12 8 327:14 341 4:21 8 228:19 269:1 2018's 317:18 345 5:7 8:30 429:10	
327:14 2018's 317:18 341 4:21 345 5:7 8 228:19 269:1 8:30 429:10	
2018's 317:18 345 5:7 8:30 429:10	0.040-00
	6 340:22
2019 327:14 342:14 35 69:4 283:5 368:2	
2020 80:22 327:18 36 213:16 269:17 9	
2021 325:7 327:18 37-page 207:6	
32 9:13 37,000 338:19	
21 85:17 378 228:14	
22 143:19 149:19 38 4:4	
23 71:5 283:4 3C 69:21	
23rd 68:3	
24 214:8 267:5 4	
240 4:13 4 134:11 135:11	
25 71:17 78:22 107:21 4:00 346:1 362:15	
141:11 193:3 207:6 40 63:19 69:4 106:17	
299:11 401:5 193:3	
25th 183:12 378:1 400 5:10	
26 70:19 402 5:14,18	
27 340:13,21 42 283:4	
28 150:3,3 213:8 428 5:20	
287 4:16 429 5:22	
29 237:11 269:1 44 150:4 267:6 293:12	
291 4:17 44 130.4 207.0 293.12 46 134:10	
291 4.17 46 134.10 48 115:20 213:17	
2B 69:21	
3 4:13 5:7 116:8 118:6 5:04 430:19	
150:10 158:16 175:13 50 134:9 328:20	
240:21 272:9 345:15 52 115:20 213:9	
377 :22 534 354:20	
3.1 68:20 108:12 535 354:1	
3.2 377:20 54 269:1 340:4	
3.3 399:20 55 66:7	

<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: Measure Applications Partnership

Hospital Workgroup

Before: NOF

Date: 12-16-15

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

Mac Nous &