

NATIONAL QUALITY FORUM

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INTEROPERABILITY 2016-2017
PROJECT COMMITTEE

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WEDNESDAY
MARCH 22, 2017

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The Committee met at the National Quality Forum, 9th Floor Conference Room, 1030 15th Street, N.W., Washington, D.C., at 8:30 a.m., Rainu Kaushal and Mark Savage, Co-Chairs, presiding.

PRESENT:

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Distinguished Professor of Healthcare
Policy and Research Chair; Department of
Healthcare Policy and Research Executive
Director; Center for Healthcare Informatics
and Policy; Weill Cornell Medicine New
York-Presbyterian Hospital, Weill Cornell
Medical; Co-Chair

MARK SAVAGE, JD, Director, Health Information
Technology Policy and Programs, National
Partnership for Women & Families, Co-Chair

JULIA ADLER-MILSTEIN, PhD, Associate Professor,
University of Michigan

JOHN MARC ALBAN, MS, RN, CPHIMS, Associate
Director of Quality Measurement and
Informatics, The Joint Commission

A. JOHN BLAIR, MD, CEO, MedAllies

JASON BUCKNER, Senior Vice President, The Health
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HANS BUITENDIJK, MSc, FHL7, Senior Strategist
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 President, American Academy of Neurology
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JASON GOLDWATER, MPA, Senior Director
VANESSA MOY, MPH, Project Analyst

ALSO PRESENT:

VAISHALI PATEL, PhD, MPH, Senior Advisor, Office
of the National Coordinator for Health
Information Technology, U.S. Department of
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1 P-R-O-C-E-E-D-I-N-G-S

2 (8:29 a.m.)

3 MR. GOLDWATER: We're going to do
4 things a tad different today than we initially
5 proposed the agenda, just because, again, it's
6 really crucial for NQF, for Mark and Rainu to
7 make sure that we have consensus from all of you
8 about what the domains, subdomains and concepts
9 need to be and that we're very clear on that so
10 that we can then proceed forward in the
11 development of a document that would be
12 representative of your thoughts.

13 So, I know there were numerous
14 discussions going back and forth, alterations,
15 changes, discussions of changes.

16 And so, last night, while all of you
17 were hopefully at dinner and enjoying yourselves
18 -- was it good, by the way? Was it? Yes, see,
19 I told you. Yeah, I have good ideas
20 occasionally. Sometimes, not often.

21 But, we spent some time going through

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1 all of the notes and discussions and created some
2 slides that really talked about, you know, what
3 you all were thinking with respect to domains,
4 subdomains and concepts. And, we're going to go
5 through those and make sure that we get
6 consensus.

7 And then, once we're done with that,
8 we only had about 16 measure concepts that were
9 proposed yesterday. So, it doesn't really make
10 a lot of sense at this point to go through a
11 prioritization exercise because there's just not
12 that many to prioritize.

13 So, what we're going to do is, once we
14 get to a place where we have everything finalized
15 is just have the larger committee, all of you,
16 start talking about measure concepts into each
17 one of these domains and subdomain categories.

18 And then, when we're done with that,
19 we can go through and decide which ones you think,
20 after further reflection are ones we should not
21 be pursuing further or ones that just might not

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1 provide any value.

2 So, let's start and so we'll lead this
3 part of the discussion because we really need to
4 make sure we have this clear and we have a firm
5 understanding of this.

6 And then, we're going to turn it back
7 over to Mark and Rainu to lead the discussion on
8 additional measure concepts for all of you.

9 And then, after lunch, we'll then turn
10 our attention to the exercise that you all
11 completed on reviewing existing measures and
12 scoring them to determine which ones you believe
13 were interoperability sensitive, trying to reach
14 a consensus on what we would call a starter set
15 of measures and those would be the ones that would
16 be included in the framework.

17 So, the domains, there were -- based
18 on our notes, there were three different
19 iterations of the domains. The first is what we
20 initially proposed, which was exchange,
21 availability, use and usability and impact. The

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1 second proposed domain structure was exchange
2 with availability wrapped into that, use and
3 usability and impact. And then, the third was
4 exchange, availability, use and usability broken
5 out as two separate domains and impact.

6 So, the question before all of you is
7 which one do you think is most reflective of what
8 you believe would be a good structure for an
9 interoperability measure framework, keeping in
10 mind, again, that the end user of this document
11 will be those that will be taking this, looking
12 at it and either looking at this as a framework
13 for the development of measures or we'll be
14 looking at this as a way to understand what needs
15 to be measured.

16 So, with that in mind, I'll open up
17 the discussion and ask people what they think
18 would be the appropriate domains and hopefully
19 get consensus, Julia.

20 MEMBER ADLER-MILSTEIN: A minor note
21 that I think our group felt that usability came

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1 before use. And so, just like I think they're
2 laid out in a certain order so when we talk about
3 it, usability/use.

4 MR. GOLDWATER: So, that would be --
5 and so, for number three, it would be exchange,
6 availability, usability, use and impact. Okay.

7 Thanks, Julia.

8 MEMBER SIGSBEE: Yes, I would just put
9 in a pitch for number three. I think if you look
10 at usability, you know, that just -- you know,
11 you know, the relevance it's, you know, how easy
12 is it to use that information?

13 And, use is actually is the -- are the
14 physicians or others actually taking advantage of
15 the information available and the types of
16 measures and how you test that are really very
17 different.

18 So, I think there is a distinct
19 difference between those two domains. And, I
20 think there's value in segregating them out.

21 MEMBER SWENSON: So, not to

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1 necessarily make things more complicated, but I
2 think there should be a number four, which would
3 be the one I would vote for, which is number two
4 with use and usability split out.

5 So, exchange, usability, use, impact.

6 MEMBER BUITENDIJK: I was pondering
7 that and I actually agree with Alan on that and
8 that that's helpful. Availability can be put in
9 the other ones, but I think that's split out is
10 actually based on what we've seen so far, so it's
11 quite helpful. So, I'll second that one.

12 CO-CHAIR SAVAGE: I would go with the
13 third one. I think exchange and availability are
14 distinct, especially at this point in time. I
15 think use and usability are distinct at this
16 point in time.

17 And, I think your earlier point,
18 Jason, about the end reader of this -- of these
19 reports, those are issues that are -- that's the
20 way the current conversation is happening.
21 People are thinking about availability as

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1 different from exchange. They're trying to solve
2 all these different problems.

3 They're trying to solve usability and
4 use as related, but different problems. I think
5 we help the report have the impact it needs by
6 keeping them separate.

7 CO-CHAIR KAUSHAL: I would suggest a
8 modification of what you just suggested, Alan,
9 which would also incorporate, Mark, your
10 comments.

11 Which is, I would do exchange and
12 availability as one category and then usability,
13 use and impact. So we'd have four categories
14 with the first domain would include both concepts
15 of exchange and availability.

16 MR. GOLDWATER: Any other comments?

17 MEMBER ALDER-MILSTEIN: So, I mean, I
18 think if we go down one level and think about
19 sort of where -- I think the question is where
20 should availability fit?

21 And, I think our measures of use,

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1 there was like an easy way to add availability to
2 it. And, I just can't remember what the measures
3 were for exchange and whether it sort of is
4 similarly easy to add the measures.

5 Like, I felt like availability fit
6 well within our usability measures. And, if it
7 fits equally well, then I just -- I'm agnostic on
8 where it goes, but if the subdomain fits better
9 in one place or the other, maybe that should sort
10 of help guide this decision.

11 Because, on our usability list, we
12 could easily have put availability as a dimension
13 of usability.

14 DR. PATEL: Yes, so to echo Julia's
15 point, I think -- I mean, it could be -- I mean,
16 we haven't gone to the subdomain level yet, but
17 I could envision this as a subdomain within the
18 -- like the usability piece potentially.

19 It doesn't address the contribution
20 aspect of things that we talked about yesterday,
21 but it would on the back end, in terms of like if

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1 the information's not available, you can't use
2 it. So, that could cover that part of it in the
3 usability.

4 MR. GOLDWATER: Bill?

5 MEMBER RICH: I support Julia's
6 comments about availability. If the data's not
7 there, everything else falls out. And, again,
8 we do more data exchange than anybody and it's -
9 - oftentimes, it's not there.

10 So, I think that's a key starting
11 point before you get to usability or exchange.

12 MR. GOLDWATER: What I'm hearing is,
13 and correct me if I'm wrong, that it seems to be
14 the domains that you're looking at are exchange,
15 usability, use, impact, those are the four that
16 people seem to be comfortable going with. Is
17 that correct?

18 With availability either being
19 wrapped into exchange as a subdomain or baked
20 into the domain itself. And that, we can discuss
21 later what that would look like. But, are those

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1 the four domains everyone is comfortable with?

2 So, as I used to say to my statistics
3 students when going over ANOVAs, which was always
4 a blast, by the way, I would say understanding
5 this is yes, this is no. So, yes. Terry?

6 MEMBER O'MALLEY: One of the issues
7 is sort of the boundary issues. Should we have
8 a measure in interoperability --

9 MR. GOLDWATER: Microphone?

10 MEMBER O'MALLEY: There we go. Could
11 we have measure in -- should we have a measure in
12 interoperability that looks at promoting the
13 capability of interoperability at the boundary?

14 So, for those folks who are not
15 electronically endowed and who cannot exchange
16 electronic information now, should there be a set
17 of measures to sort of promote their adoption of
18 the basics?

19 And, that would -- and if the answer
20 is yes, then availability then becomes an
21 important domain to have separately. Because

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1 then you'd say we're going to give you the
2 capability because you're going to begin using
3 standardized vocabulary even though you can't
4 exchange it electronically. It's that sort of
5 boundary issue.

6 MR. GOLDWATER: I think that's a good
7 point. I would probably tell you when we get
8 into the discussion of concepts and measures,
9 then that's where we need to start bringing that
10 up, but yes.

11 Bill?

12 MEMBER RICH: Not surprisingly, I'm
13 confused. I thought we -- I thought with Julia's
14 comments and others, I don't understand where
15 availability, it looks -- listening to your
16 statement, it sounds like it's gone.

17 Availability has to be there to have
18 exchange. Is that what you were saying?

19 MEMBER ADLER-MILSTEIN: So, I wonder
20 if we're now getting -- we're talking about
21 availability in two different ways and I think

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1 this came up yesterday, too.

2 There's sort of -- I think what was
3 called yesterday contribution. Right? Like is
4 the data being contributed?

5 And, then, there's availability that
6 comes after exchange. Which I think of as like
7 is it integrated in the clinician's workflow?
8 Right? Such that like it could be somewhere in
9 a system, but if it's not -- if I don't know where
10 to go to find it, it's not really available to me
11 or patients or whomever.

12 So, I don't know what happened to that
13 first concept of availability in terms of just
14 like, is it made available for exchange?

15 I think -- I was thinking about this
16 second availability as is it, you know, is it
17 encountered such that it could then be used?
18 And, again, as I said, I'm sort of agnostic about
19 where it goes, but I think they're two distinct
20 concepts and maybe this --

21 MEMBER RICH: That helps a great deal

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1 because my concept and the biggest barrier I see
2 is the first instance where it's not being
3 contributed and you don't have access to it.

4 (Off microphone comment.)

5 MEMBER SWENSON: So, I think that
6 first one is the one that really goes into
7 exchange, right? If it's -- if you're not
8 contributing it, if you're not making it
9 available, then you're not exchanging it.

10 And, so, within exchange there is what
11 is being exchanged? How is it being exchanged?
12 Which discrete elements, you know, to Terry's
13 comments about the code sets and things. What
14 is being exchanged can all go into exchange, how
15 it's being done.

16 And then, usability also includes some
17 of the availability stuff because it has to now
18 be available in the system in order to be usable
19 in the first place.

20 And so, that availability is kind of
21 split between what's exchanged, how it's

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1 exchanged and then what's usable.

2 CO-CHAIR KAUSHAL: And that was
3 exactly what the first -- the exchange group was
4 suggesting yesterday, that the foundational
5 piece, the contribution piece would be
6 incorporated under exchange.

7 MEMBER SHAPIRO: I think with that
8 first, you know, pre-exchange availability,
9 there's willingness to contribute and, you know,
10 make available. But then, there's also whether
11 not the data exists or if it exists in a format
12 that's amenable to being contributed.

13 So, I think maybe we need to break it
14 down into those two different categories.

15 MEMBER OPELKA: Yes, I really don't
16 care how you split the baby, but availability, to
17 me, exists in both exchange and usability.

18 So, it's got to be available to be
19 exchanged. And, once exchanged, upon arrival,
20 it has to be usable, has to be available for use.

21 So, I don't care if you put it in one

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1 or the other, it has representations in both.
2 So, if it says exchange/available and use and
3 usability, we're going to drag some element of
4 both exchange and availability into usability.
5 It's just part of the equation.

6 So, I don't, to me, it just has to be
7 part of our document that we recognize it's one
8 thing to exchange it, it's one -- but it's
9 another, is it available for exchange? And,
10 then, once exchanged, is it available for use?

11 MEMBER WALDREN: Two things. So,
12 one, I'm concerned about having availability in
13 the domain list because, after a day of
14 discussing it, we don't know what availability
15 means. So, nobody else is going to know what it
16 means.

17 But then, after I heard Frank talk, I
18 mean, I think it has to be evolved into the --
19 into the underpinnings of exchange and usability.
20 If we want to talk about it being different, I
21 thought about availability more of being it's

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1 available for exchange and integration being that
2 it's actually integrated into the source system
3 in a way that the user can actually use it.

4 So, I was comfortable with four
5 without the parentheticals. But, knowing that
6 we're going to put those in in the subdomains.

7 The final thing I would just say is
8 that as a measure framework, I don't care about
9 measuring if people are willing to exchange or
10 not as long as we're measuring exchange. Because
11 I know they're going to fail on that.

12 So, I don't -- I don't think that we
13 want to measure somebody and say, oh, well, you
14 know, they're doing -- they're halfway there.
15 They passed pre-contemplation of making sure the
16 data should be available for them and I don't
17 think that's any -- a value to us. So, I wouldn't
18 put that in, although, I think it is a real big
19 issue currently to discuss.

20 CO-CHAIR SAVAGE: So, it would help
21 me to -- maybe to use a use case and to understand

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1 how the domain would apply. And, the one that
2 I've been primarily concerned with is patients
3 and family caregivers having access to their
4 information.

5 So, it's not -- as it started out,
6 they were not in the system. I mean there was a
7 -- we were trying to actually build a connections
8 so that patients could have a portal in to the
9 electronic health record.

10 Where -- is that -- where does that
11 sense of availability fit within the conversation
12 that we're having right now? So, I ask that as
13 a question as a use case to understand.

14 I'd also just add a point that I think
15 we are having some -- we're having a good
16 conversation about what availability means.
17 But, I think there is consensus that it's an
18 important concept. So, even if we're having --
19 if we're not quite so sure how we want to define
20 it, we know it's important.

21 MEMBER FRISSE: I just keep going back

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1 to the only way I clarify some of these issues is
2 by differentiating obligations and measurement
3 quality of what you must contribute before you
4 start looking about what's available for
5 everybody else.

6 Because there's -- and maybe that just
7 comes in there because part of the whole notion
8 of this availability and exchange is that people
9 share what they're supposed to share. And, I'm
10 not sure where we're captured that.

11 But, sometimes that's, I think, the
12 root cause of some of the confusion I have.
13 Might just be me.

14 MEMBER SWENSON: So, looking at the
15 measure concepts from yesterday, from the
16 availability group, and every single one of these
17 can either go into exchange or use and usability.
18 I mean, they're all the percentage of visits or
19 encounters available to the stakeholder at time
20 of decision, that's exchange happening. The
21 patient, family, providers having access, that's,

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1 again, exchange happening.

2 Providers receiving and integrating
3 information into the record, that's kind of
4 exchange happening and also usability now
5 happening.

6 So, all of these concepts are about
7 exchange actually happening. It's not about the
8 information sitting there ready to be available
9 or even available to be used, it's all about the
10 exchange happening to make it now usable.

11 So, I mean, availability is already
12 covered in the fact that something is being
13 exchanged and then is being used. It has to have
14 been available.

15 MR. GOLDWATER: Before I get on to
16 Terry and Vaishali, let me just sort of, I guess,
17 recap to where we are right now before those two
18 discussions happen.

19 So, it seems to be that we seem to
20 falling out under what would be the fourth, even
21 if we got rid of the parentheticals, exchange,

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1 usability, use and impact.

2 And, the availability contribution of
3 data would fall under that exchange domain.
4 Availability and integrated use of data would
5 potentially fall under usability, depending upon
6 where the measures concepts fall out of.

7 Does that seem acceptable to everyone?

8 Thank you, Julia, I appreciate the pronounced
9 nod. She would have gotten an A in my class
10 easily.

11 All right, Terry?

12 MEMBER O'MALLEY: Just to respond to
13 Mark's use case of patient and family access.

14 So, if you think about patients and
15 families who don't have basically the electronic
16 infrastructure to send information and not using
17 coded data, but they might be able to exchange
18 some text blob or anything using a portal. You
19 know, maybe they're entering it themselves.

20 So, in a sense, you can think of an
21 exchange as being the way that they're moving

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1 information they have into somewhere else. Once
2 it's in the portal, then basically that
3 information is not terribly usable in the sense
4 of electronic exchange. Someone's got to go in,
5 read it, reconcile it and reenter it basically.
6 So, it's not going to be automatically in.

7 So, there would be the next set of
8 sort of interventions that you'd like. You'd
9 like to somehow make the information that the
10 patient and the family could get into your system
11 ultimately more usable once it arrives. And,
12 that means you're going to do stuff front down.

13 So, I'm, you know, I think, Mark, that
14 it's in the structure.

15 MR. GOLDWATER: Jason and then Frank
16 and then we'll see if we can move on.

17 MEMBER BUCKNER: So, I'm going to nod
18 my head as well up and down for --

19 MR. GOLDWATER: Great.

20 MEMBER BUCKNER: -- I like that. I
21 just think that on our exchange, we need to

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1 consider a broad range. So, it's availability,
2 it's contribution and availability twice.
3 Right? Well, it's contribution, availability
4 and acceptance and availability.

5 So, that exchange category is broad
6 because you don't want to penalize somebody who
7 is accepting data but the data's garbage and so
8 you can't use it and you don't want to penalize
9 on the opposite side as well.

10 So, it's really, the exchange is
11 pretty broad and I think that's the right thing
12 to do.

13 MR. GOLDWATER: Okay, great. Frank?

14 MEMBER OPELKA: So, I'm trying to
15 think of different use cases that justify one or
16 the other. And, you know, I think ultimately,
17 that's what we're looking at interoperability to
18 do is to meet some use case that's at the end of
19 all of this.

20 So, if I'm a payer and I want to know,
21 in my instance, surgical site infections for a

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1 given procedure and I'm going to want that
2 information. So, I want to know that the primary
3 data source can generate that particular element,
4 that question, that use case. So, that's the
5 first piece of availability.

6 Then, I want it exchanged to me, the
7 payer, and I want it in a format such that I can
8 get it from every other institution in the
9 country and I can aggregate it so that I will
10 ultimately have use of it.

11 So, when it comes across, not only
12 does it have to be synthesized on the front end
13 before it's exchanged, it has to be decomposed on
14 the back end so that I can use it. It's available
15 for me to decompose it so I can reuse it and
16 reapply it.

17 And, those are the elements of
18 usability. You could do the same thing with a
19 research question.

20 If I was looking for a specific drug
21 in a blood pressure, can this primary data

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1 source, whatever it is, can it synthesize what I
2 want and make it available? Can they exchange
3 it? Does it come over in a format I can use it?
4 Can I decompose it and reconstruct it because it
5 needs to be available to me in the necessary data
6 elements once I receive it on the research end?

7 So, to me, those are the reasons.
8 That's what describes, for me, what availability
9 is, that it goes back to the individual use case.
10 Exchange is just moving it, but first, you have
11 to tell me, does the primary data source have the
12 ability to create what I need to be exchanged and
13 does it come across once exchanged, in a way that
14 I can make it available for whatever use I want
15 to apply to it.

16 MR. GOLDWATER: All right. Mark?

17 MEMBER FRISSE: I just throughout
18 this have been struck, and it's a good thing, by
19 how much some of the conversations we're having
20 really just strengthening existing meaningful use
21 Stage 2 and 3 requirements and addressing some of

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1 the limitations on what we can do. There's an
2 overlap there and I'm sure that'll be all
3 integrated down the road.

4 Because, to the extent we just make
5 the existing regs that everybody's facing more
6 realistic and eligible the, you know, the more
7 powerful our work will be and the overlap is quite
8 significant.

9 MR. GOLDWATER: John?

10 MEMBER BLAIR: Yes, following on
11 Frank's comments, I'm just thinking about that on
12 the data source and what's coming in and how good
13 it is or whatever and usable, are we going to
14 have the concept of minimum necessary?

15 Because, there's data that comes
16 across that we have providers all the time that
17 would like it better that are actually using it.

18 So, where is that? I mean, is there
19 that concept in there? Otherwise, we'll have the
20 bar so high we'll never move anything.

21 MR. GOLDWATER: Right. And, Terry

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1 and then Bill and then we'll have to move on.

2 MEMBER O'MALLEY: And, again, follow
3 on to Frank and John's comments, it almost --
4 we're talking about preconditions for exchange.
5 That may not be in a domain, but it probably needs
6 to be a subsection and that has to do with
7 standardized coding and standardized
8 transmission, all of that.

9 MR. GOLDWATER: A brief interjection.
10 I mean, I think after we get done with this and
11 we move into the subdomains, now that we've
12 agreed on what the domains could be, if you notice
13 that there's other subdomains that are going to
14 make this a little bit more finite, that's fine.

15 I'm not going to cut you off, John.
16 I'm going to be like now just stop talking.

17 So, let's move on now. So, again,
18 just to review, we've got exchange, usability,
19 use and impact. So, the fourth one with exchange
20 talking about availability and contribution,
21 usability talking about availability and data

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1 integration.

2 So, thank you all very much. John?

3 DR. BERNOT: I just wanted to go back
4 for the Group 2's discussion -- or sorry, the
5 Group 3's discussion about use and usability. We
6 thought there may be some confusion with those
7 two names and we had proposed something perhaps
8 application or applicability or something for the
9 use domain.

10 I just wanted to bring that up to see
11 if anybody had a better name for that than those
12 being so close.

13 MR. GOLDWATER: John, I'll take the
14 silence as nobody can think of anything yet.

15 (Laughter.)

16 MR. GOLDWATER: Oh, Tess, go ahead.

17 MEMBER SETTERGREN: Well, maybe it, I
18 mean, it feels like it needs to be sort of an
19 action word versus -- I mean, used as an action
20 word but it will be confusing.

21 So, maybe if the word is just action.

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1 I mean, you're taking an action, whatever that
2 might be or it's a computer action that's been
3 programmed in.

4 But, I agree that, if we have
5 usability and use, people are going to get
6 confused about what's what.

7 MEMBER SIGSBEE: It's actually far
8 more than just an action. Is the physician or
9 whoever actually making use of that information
10 for a medical decision making for understanding
11 that patients, for diagnosis and for treatment.

12 So, I think it's more than just
13 action, but is that information being integrated
14 into that kind of a process?

15 DR. PATEL: Yes, I was just going to
16 echo Bruce's point. It's about the medical
17 decision itself. It may not actually lead to a
18 specific action. It could be they don't decide
19 not to do it as something because they receive
20 some information that said, okay, don't go ahead
21 and do something.

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1 So, I'm not sure action is the right
2 word either. I don't know, I mean, I personally
3 like use, but, you know, there may be something
4 else out there.

5 MR. GOLDWATER: So, before I get to
6 Steve, I mean, this doesn't have to be decided on
7 now. We can, you know, gel on this throughout
8 the day and then I think as we get to the end if
9 we have a better idea of the a and that might
10 come forth as we're trying to whittle out
11 subdomains and measure concepts, something might
12 come to us.

13 Steve?

14 MEMBER WALDREN: I don't know that
15 it's all that helpful, but when I think about
16 these things, I think about use and utility.

17 So, use, can I actually do something
18 with it and utility, can I do something useful
19 with it?

20 So, is it usability and utilization?
21 But, utilization is pretty close to use.

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1 MEMBER SETTERGREN: I just want to add
2 to something that I -- what we've been hearing
3 about in terms of the use of the data. And, it's
4 not just medical decision making, there is lots
5 of other clinicians involved in the care process
6 who may use the data or the information in many
7 different ways. And, that also includes the
8 patient and family.

9 So, whatever we end up with, I just
10 think, even though use is probably the broadest
11 and simplest, I think when we start communicating
12 this work, people will get tripped up on those
13 two words.

14 MR. GOLDWATER: Why don't we move to
15 the subdomain discussion and then, again, I think
16 as we sort of start fine-tuning this a bit, maybe
17 some other idea for use might come out.

18 So, for exchange, now, with respect to
19 Steve and his group, initially, they're
20 subdomains were who, what, here, there, why,
21 fairly broad and I think we tried to interpret

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1 what you meant by that through the notes that we
2 had.

3 Because, if we come forward with a
4 framework and one of the subdomains is who, that
5 might cause a bit of confusion.

6 So, the subdomains we initially
7 proposed for exchange are stakeholder
8 involvement, which is what we viewed as the who,
9 the method of exchange, timely exchange. And,
10 then, when we got to what, we honestly could not
11 figure out how to reframe that. So, we're going
12 to sort of put you on the spot and ask you to do
13 that for us.

14 So, looking at the subdomains for just
15 exchange and not availability at the moment,
16 because we'll find out where we want to fold those
17 in, but you know, the exchange subdomains are
18 what are people's thoughts about those? Are
19 there ones we need to add? To lead, Steve, how
20 would you and your team sort of rename what?

21 MEMBER WALDREN: Yes, so, if the team

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1 has thoughts, that's great. I mean, I think the
2 what really goes around the content of exchange
3 and to deal with its richness and its
4 completeness.

5 So, you know, is it -- so, you know,
6 we can talk about it being content quality or
7 content completeness or content richness or
8 content robustness, something in that nature.
9 But, I don't know if my team can bail me out here.

10 MR. GOLDWATER: Rainu?

11 CO-CHAIR KAUSHAL: Yes, I think where
12 we -- some of the concepts that we were
13 discussing, just to build off what Steven was
14 saying were the completeness, the
15 comprehensiveness, the longitudinally of the
16 data, the breadth of the data. So, I think
17 they're all characteristics of the content of the
18 data.

19 And I would also add that I think that
20 when we get to the breadth of the data, we start
21 to touch on this availability question a little

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1 bit. And, I know we're putting that -- tabling
2 that for minute. But, I would just mention that
3 because that was where -- that was one place where
4 we starting thinking about availability of data.

5 MR. GOLDWATER: Alan?

6 MEMBER SWENSON: I mean, just along
7 those same lines as the last comment there, I
8 think that last one is where a lot of the
9 availability stuff goes in of the content, what
10 is being exchanged, the code sets that are being
11 used, the content that's being there, a lot of
12 that, the discussion around the important stuff
13 of what is available goes into what is being
14 exchanged.

15 MR. GOLDWATER: Steve?

16 MEMBER WALDREN: So, what if it is
17 information availability or data availability?
18 Because then we could talk about it, is it
19 available semantically and longitudinally and all
20 those different things.

21 MEMBER BUITENDIJK: From that

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1 perspective, information availability or
2 availability in general, I could also see it that
3 under stakeholder involvement. Who can I get it
4 from? So, is it available from different
5 sources, et cetera, et cetera.

6 So, and, as I go through the different
7 areas, I would actually be careful calling the
8 last one information availability because I think
9 it's spread out across the first three.

10 As well as we get additional measures
11 out there, I would suggest that the fourth
12 remains a little bit more generic or drop it.

13 And, that's -- looking at the other
14 three is that various aspects of availability
15 seem to fit nicely in there as well. So, it's
16 not to get rid of availability, clearly not, it's
17 just do we need that special subdomain to do that?

18 So, the topic that was raised on that,
19 it was there before of quality, I could see
20 perhaps something like that more where -- because
21 one of the questions that I was trying to figure

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1 out is that where would you put a question of the
2 level of structure, the level of standard use?
3 Are we only sending a narrative or are we also
4 sending structured data with it, et cetera? Are
5 we using the same syntax?

6 Where do we fit that in? And, it
7 seemed to fit a little bit better under quality
8 than somewhere else. But, again, I don't think
9 we're going to lose any of the measures per se,
10 just what's the name of the label?

11 MEMBER FRISSE: I want to express my
12 appreciation for all the work you folks did last
13 night, first.

14 I wonder what people think about item
15 four under availability, social determinants of
16 health? Because, to me, that is in part a what
17 and in part a who.

18 When I went down to look at the rule,
19 it's the same thing. It's absolutely the right
20 thing to do and I'm just not sure if that's the
21 right way to put it for now. So, that's

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1 something to think about.

2 MR. GOLDWATER: I think it's a good
3 point, Mark. Before we get into that, let's try
4 to see how we want to rename the fourth bullet
5 under exchange.

6 CO-CHAIR KAUSHAL: Some of the
7 phrases we were using yesterday in our subgroup,
8 none of which we settled on were things like
9 characteristics of the data, content of the data.

10 But, I think something like that gets
11 closer to these concepts of what's in this data?
12 What is the quality of what's in this data? How
13 is it formatted? How is it structured? And,
14 even gets a little bit into availability. So, I
15 would throw that out there as a concept.

16 Steven, I feel like there's one other
17 phrase we were using yesterday and I can't get my
18 head around it.

19 DR. PATEL: So, I was just going to
20 say maybe format of the data. Does that capture,
21 you know, whether something is structured versus

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1 a scanned PDF? You know, or format in content
2 or something like that.

3 Because, yes, I mean --

4 CO-CHAIR KAUSHAL: I think format's
5 not broad enough to describe the multitude of
6 concepts.

7 I think, you know, I think content or
8 characteristics gets closer. And, I'm not
9 opposed to the concept of using the quality of
10 the information either. I just think it could
11 get a little confusing when we're starting to
12 think about impact and domains under impact,
13 subdomains under impact.

14 MEMBER O'MALLEY: So, I think the
15 piece about the data which is really fundamental
16 is how, you know, is the data -- are the data
17 structured in a way that they can be used
18 interoperability? Which really gets back to
19 Hans's point about, you know, really being
20 standard spaced.

21 You know, because, if it's not, then

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1 there, you've got text blobs which are, again,
2 they're useful, but they're not going to get us
3 all the way to full interoperability.

4 But, the data, the use -- and this
5 almost gets back to the usability of the data.
6 They're increasingly more useful the more they
7 are -- the data elements are structured. They
8 have value even if they're unstructured, but the
9 value chain goes up with structure.

10 MEMBER OPELKA: This, I think, is in
11 the same line of what Terry was just saying and
12 I popped my tent because of what Rainu was just
13 saying.

14 I'm trying to figure this out in my
15 head, but where does it go in the domains that we
16 address issues of content, of quality, of
17 accuracy of the context? Because, contextually,
18 it's also very important.

19 And, then, to Terry's point, to make
20 it truly interoperable, it's got to be by
21 standards with agreed upon value sets.

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1 And, you know, there's a mapping
2 function that has to be demonstrated, has
3 occurred, so that as that value set is applied
4 and the data comes across, we find it in a usable
5 format.

6 But, I'm not sure where that has to
7 be. If you put that in use and usability and
8 you're exchanging the data and these elements are
9 covered in context, fine. Somebody's going to
10 get a great score in exchange and a bad score in
11 usability and that does the trick? That will
12 actually drive the change we need? I don't know
13 the answer to that.

14 MEMBER BUITENDIJK: Yes, building on
15 some of those comments that Rainu and some of you
16 have made as well, I would suggest perhaps
17 instead of the information availability, use the
18 term content and under that, there are subdomains
19 of be it quality, be it level of structuredness
20 or some of those other things.

21 Context, I'm not sure -- I agree with

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1 the concept of context, but I'm not sure that
2 it's clear enough as a subdomain header versus
3 content. Compared with the other ones, it dives
4 into what's actually in there. What's in the
5 exchange? What are we conveying?

6 So, my proposal would be to change
7 information availability to content and then list
8 the other ones under there as we see fit.

9 MR. GOLDWATER: So, what I'm hearing
10 is to change that to content and then there may
11 be measure concepts. That might reflect what
12 those different elements of content are.

13 MEMBER SHAPIRO: I just want to echo
14 what Hans and Frank just said because I think,
15 you know, a lot of the concepts that Rainu
16 mentioned a little while ago, I think fall under
17 data quality and they're currently listed under
18 use and usability.

19 However, if you don't have a level of
20 completeness, the exchange probably wouldn't take
21 place.

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1 So, I think that moving it up the
2 chain and having these measures of completeness
3 and I think timeliness falls under that, which is
4 separate from whether or not the data is
5 structured or not. But, also is potentially a
6 requirement for the data to be fit for use before
7 it would be exchanged.

8 CO-CHAIR KAUSHAL: I wonder if it's
9 data content or data content and quality as the
10 subdomain. I like this concept of pushing it
11 earlier and I also like the concept of having
12 sub-subdomains. But, my only suggestion would
13 be to phrase it as data content and quality.

14 MEMBER ADLER-MILSTEIN: So, I think
15 this conversation has prompted for me -- because
16 it now feels like a lot of these concepts are
17 moving upstream -- and, I think, for me, how I
18 thought about the difference between perhaps the
19 first two and the third bucket is that there's a
20 difference between sort of who exchanged -- who
21 makes decision about exchanging and integrating

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1 data into systems and the users. Right?

2 The users are not the same people.
3 And, so, I think that, for me, is why it is
4 important to sort of separate these two pieces
5 because the usability and use perspective might
6 be different than the people who -- from the
7 perspective of the people who are making the
8 decisions about how to exchange and manage
9 information.

10 So, I think even though we're seeing
11 a parallelism in the concepts, I think they are
12 different and we might want to measure them
13 differently because of this distinction between
14 who's actually managing the data upstream and
15 making it available and who's actually using it.

16 Maybe that was obvious, but that just
17 sort of struck me as we were having this
18 conversation.

19 DR. PATEL: So, I think to that point,
20 I mean, the concepts that we had put under
21 usability, which, you know, relate to I think the

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1 first five or six items there which we were
2 calling -- what was it, was it data quality or
3 information quality or whatever -- really relate
4 to once someone gets the data is the end user,
5 you know, what might influence the end user in
6 actually using the data or not?

7 So, if the data is not timely, if it's
8 from two months ago, then they're not going to
9 use it. It's old data. Or, if the data could
10 be somewhat complete but maybe it's not -- it's
11 missing a piece of information that they really
12 were looking for.

13 So, you know, it may be that some of
14 these concepts do have value upstream. But, I
15 do think that they really belong where they are
16 from, you know, the end user perspective and, you
17 know, trying to understand why information that
18 is received is or is not subsequently used.

19 MEMBER O'MALLEY: So, I like Jason's
20 concept of fit for use because the information
21 has to be fit for use because it really gets to

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1 the point that it's the end user, it's the
2 receiver of that information who really defines
3 whether it's got the adequate quality, the
4 freshness, completeness, format.

5 So, just maybe building out on fit for
6 use as a concept. Because, this is an area
7 that's going to be extraordinarily variable,
8 depending on who the trading partners are.

9 But, the one thing that'll be constant
10 is that, whatever information arrives and
11 whatever format it arrives in, that it's actually
12 usable by the person who gets it.

13 MEMBER SHAPIRO: Yes, I agree with
14 that Julia and Vaishali said. You know, I think
15 all these sort of data quality factors will have
16 a big impact on usability for the end users.

17 I think it's incumbent upon the people
18 making the decision about what to exchange,
19 though, they're the ones that are going to
20 influence whether it's usable or not.

21 And, another thing I think under

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1 usability that we talk about but I don't see
2 there's the idea of workflow integration.
3 Because, I think lack of that, which I've
4 experienced painfully as a user for a long time,
5 is one of the biggest factors in making the data,
6 even if it's available and exchanged, unusable.
7 And, that's something that I think should be in
8 there somewhere.

9 MR. GOLDWATER: Okay. So, what I'm -
10 - I think what we've heard in trying to rename
11 the fourth bullet, the last discussion which I
12 didn't really hear any strong objection to was
13 data content and quality, not information
14 availability, but data content and quality. Is
15 that sufficient for everyone?

16 I know a lot of what you were talking
17 about in relation to that I think is important,
18 but I think those would probably be identified as
19 concepts of things to measure. This is just sort
20 of the general topic category of where those
21 concepts would fall under.

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1 So, are we in concurrence that data
2 content and quality is acceptable?

3 DR. BURSTIN: Just a quick question.
4 Does that capture Terry's point about fitness for
5 use? I think that's a really important concept
6 and I'm not sure that's just the availability and
7 quality of data.

8 (Off microphone comment.)

9 DR. BURSTIN: Okay.

10 MR. GOLDWATER: Yes.

11 DR. BURSTIN: But, then it's probably
12 a --

13 MR. GOLDWATER: I think that that's
14 probably where that's going to go, I think, yes.

15 DR. BURSTIN: Maybe that's what you
16 can call use?

17 MR. GOLDWATER: Yes, maybe.

18 MEMBER O'MALLEY: But the usability
19 has to circle back and actually inform the
20 exchange. So, you know, that may ultimately be
21 the criteria applied. But, it ought to be

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1 applied at the exchange phase, not at the input.

2 It'll be an iterative process, be
3 constantly improving and people who try to use
4 the data will say this is garbage and they'll go
5 back and they'll have to fix it, but it'll be
6 fixed at the exchange level.

7 DR. BURSTIN: And, some of this could
8 be that it -- we're looking at the domains in a
9 linear matter right now and it may be that if
10 they're formatted in a circle where they're, you
11 know, each depends on the next, it might be easier
12 to make that point.

13 MR. GOLDWATER: Okay, so turning now
14 to availability -- oh, Hans, go ahead.

15 MEMBER BUITENDIJK: Yes, I just want
16 to add one comment to that. And, that is that I
17 think that on the sender side, on the party that
18 provides on the quality, there's still an aspect
19 of is it the right information that you're
20 sending?

21 So, that aspect of usability, I can

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1 clearly see is it usable on the receiver side,
2 clearly. But, on the sender side where exchange
3 starts, if we look at the aspects of try to avoid
4 it, but using a CCDA, but sorry, I have to --
5 sending too much or too little based on the
6 provider or the initiator sending that
7 information I think is a part of quality of is
8 the sender actually providing the right set of
9 data as opposed to something that is just not
10 useful. But, it's too much or too little,
11 whatever it is.

12 MR. GOLDWATER: All right, thank you,
13 Hans. Moving on to availability.

14 So, we have agreed that availability
15 would be folded into both exchange and usability,
16 depending upon the circumstance. So, what I'd
17 like us to do now is, these are the subdomains
18 the availability group came up with, so -- oh, go
19 ahead, Mark.

20 CO-CHAIR SAVAGE: So, just as the
21 reporter for the group, I just, you know, those

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1 were the three where we actually had some time to
2 develop measure concepts. But, we had a somewhat
3 longer list. So, just so that you've got a
4 complete record, I'll just add the ones that we
5 mentioned that were -- had some priority.

6 Payers and purchasers was a subdomain
7 that we identified. Non-clinical settings and
8 non-clinical providers, research and then, lastly
9 -- we didn't find a good name for it, so I'll
10 just use one that maybe consumer mediated
11 exchange which wraps up as well, Personal Health
12 Records, PHRs, and patient generated health data.

13 But we were -- it was the idea that
14 there's a lot happening in the wearable space,
15 mobile access, smart phones, it's really shaping
16 things.

17 And, so there were others, I don't
18 want to add those, but those were the ones that
19 got a number of checkmarks as we went around the
20 room talking about what was important.

21 MR. GOLDWATER: Okay, so, looking at

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1 those then, and just sticking with exchange for
2 now, which one of those subdomains do you all
3 feel would be applicable in the exchange domain?

4 Not use and usability now, but those
5 that would be in exchange? Alan?

6 MEMBER SWENSON: I mean, almost all
7 of those are stakeholders. I mean, most of those
8 just fall under stakeholder involvement, all but
9 social determinants of health. I mean, that's
10 the one that I'm not sure social determinants of
11 health, but the rest of them all fall under
12 stakeholder involvement.

13 MR. GOLDWATER: Steve?

14 MEMBER WALDREN: Yes, I would agree
15 with that. And, I would say that social
16 determinants goes to data content because you --
17 and quality.

18 So, if the content includes, you know,
19 a written richness or fitness, then you have both
20 the structure semantic piece of it. You have the
21 longitudinal access. You have the breadth

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1 access. You could have all those under data
2 content and quality.

3 MR. GOLDWATER: Okay. Rainu?

4 CO-CHAIR KAUSHAL: I would agree with
5 that, that I think of social determinants as part
6 of the breadth of available data and would put it
7 under data content and quality.

8 And, that we purposely chose the
9 concept of stakeholder involvement, not just
10 stakeholder provision of data to get both at
11 who's providing and who's using the data?

12 So, in our concept of who, it was, you
13 know, both providers and users of data.

14 MR. GOLDWATER: Mariann?

15 MEMBER YEAGER: Hi. I would wonder
16 if it would make sense to put the patient-centric
17 data sharing and PHR under exchange? It's one
18 of the modalities really.

19 MR. GOLDWATER: Okay.

20 CO-CHAIR KAUSHAL: So, just a
21 clarification question. Do you mean that under

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1 the subdomain of method of exchange?

2 MEMBER YEAGER: I think so.

3 MR. GOLDWATER: So, what I'm hearing
4 is all of the subdomains that were proposed under
5 the availability category already fall under the
6 subdomains under exchange which requires no
7 addition work. Those basically all just fold
8 under. Is that correct?

9 You all are rapidly becoming my
10 favorite committee. Don't blow it.

11 Bruce?

12 MEMBER SIGSBEE: I don't disagree
13 with that, but also, if you look at some of these,
14 they obviously fall under use as well.

15 MR. GOLDWATER: True.

16 MEMBER SIGSBEE: So, I think there is
17 duplicate because, you know, not only is
18 information being exchanged also within the
19 system, but an awful lot of information is being
20 generated and between different providers, et
21 cetera.

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1 And, so, then is that information ,
2 you know, used.

3 MR. GOLDWATER: So, I think some of
4 it -- before I get to Mark -- I think some of
5 that'll be teased out in the concepts. You know,
6 those'll be reflective of exchange, those'll be
7 reflective of use and usability.

8 So, Mark?

9 CO-CHAIR SAVAGE: Just to understand
10 what does fold under mean? Does it mean that
11 they are implicit in and thus not named? Or do
12 they remain, I guess, the concept mentioned
13 earlier was subdomains of subdomains.

14 MR. GOLDWATER: So, we don't --

15 CO-CHAIR SAVAGE: What does that look

16 --

17 MR. GOLDWATER: We really don't --

18 CO-CHAIR SAVAGE: What does that look
19 like?

20 MR. GOLDWATER: -- we really don't
21 have subdomains of subdomains because then that

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1 really gets confusing.

2 So, what we would do is, in the
3 documents, as we're defining stakeholder
4 involvement, these elements would be mentioned.

5 MEMBER O'MALLEY: So, go back to
6 Helen's comment about the fact that we've got a
7 linear progression when we're really talking
8 about a circular iterative process and maybe
9 displaying it that way.

10 And, then, you might be able to see
11 where the connections are between these domains
12 and they skip another domain. But have their own
13 box, it makes perfect sense.

14 So, I would put in a plea for
15 formatting our -- sorry.

16 MR. GOLDWATER: Okay, so, you are my
17 favorite committee except for you.

18 (Laughter.)

19 MR. GOLDWATER: No, just kidding.

20 So, we will try to get a circular
21 diagram after lunch because I don't know if we're

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1 going to have time before then. But, really more
2 or less I think Helen's right, just see sort of
3 the interconnectedness of this which I think will
4 also help to understand some of the measure
5 concepts.

6 Bruce, did you have anything else you
7 wanted to contribute? No?

8 We have divided up use and usability
9 as two different things and we're still trying to
10 see if there is another way of naming use.

11 So, out of those domains, subdomains
12 that have been listed, which ones do you believe
13 would fall under use as it is currently named and
14 those that would fall under usability?

15 Julia?

16 MEMBER ADLER-MILSTEIN: I can tell
17 you what the committee thought, it's the last two
18 that we put under use and all the ones above it
19 that we put under usability.

20 And, I think, given our discussion
21 earlier today, we should add accessibility under

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1 usability because I think we essentially folded
2 that concept in and we explicitly left it out
3 yesterday because we thought it was covered
4 elsewhere.

5 So, if usability can be the first --
6 yes, maybe you can separate out the human use and
7 computable because those are the two use
8 concepts. And, then the other set, that was what
9 was proposed yesterday. So, maybe we can iterate
10 on that.

11 CO-CHAIR KAUSHAL: I would, if we
12 could order the columns in the way that we were
13 discussing earlier so that usability came first
14 and then use. That would be terrific.

15 MEMBER YEAGER: And, I apologize for
16 asking this, can you clarify what you mean by
17 accessibility? I think I missed that part of the
18 conversation.

19 MEMBER ADLER-MILSTEIN: Yes, so I
20 think it was back to what I think Jason brought
21 up about for the user, is the information in their

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1 workflow such that it's accessible to them at the
2 point that they are doing whatever they need to
3 do.

4 MR. GOLDWATER: So, we're sort of
5 reformatting this. Are there any other
6 subdomains under either use or usability that you
7 think are not covered yet that we should add?

8 DR. PATEL: So, one question. So,
9 Julia, to your point, in terms of accessibility,
10 do you think integrated within workflow might be
11 -- I mean, I know that's like one thing.

12 I mean, Jason brought that up and it's
13 something that we've heard so much and I feel
14 like that term, you know, is pretty well known
15 and that might be worth calling out separately as
16 opposed to accessibility which, you know, is open
17 to interpretation exactly what that means. So,
18 I don't know.

19 MEMBER ADLER-MILSTEIN: I mean, I
20 think the only challenge with that is that
21 workflow is a very clinician-centric as opposed

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1 to patients who don't necessarily have a
2 workflow.

3 DR. PATEL: Yes.

4 MEMBER ADLER-MILSTEIN: So, that's I
5 think the only --

6 DR. PATEL: Yes, I mean, I guess the
7 concept would be like available when and where
8 it's needed. But, how to capture that in like
9 one word or two words is tough. It applies
10 across stakeholders probably. But, yes.

11 MR. GOLDWATER: Terry?

12 MEMBER KETCHERSID: Yes, if we're not
13 excited about use and action, a word to think
14 about maybe over lunch is consumption. So, I'm
15 a user and a nurse, I'm a physician, I'm a -- I
16 either consumed it, made a decision or I didn't.

17 MR. GOLDWATER: Terry, did you mean
18 that to be a put of humor that we're going to
19 talk about consumption over lunch?

20 (Off microphone comment.)

21 MR. GOLDWATER: I mean that was pretty

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1 clever, honestly. I mean, that's the best joke
2 I've heard in the last two days.

3 (Off microphone comment.)

4 MR. GOLDWATER: Right.

5 (Laughter.)

6 MEMBER BLAIR: Yes, just even if
7 workflow is provider-centric, why wouldn't that
8 be in there? We're trying to cover everything
9 with each of these? And, even -- and also,
10 workflows, even for patients for some of the
11 applications?

12 MEMBER SHAPIRO: I mean, I don't --
13 do we have to keep it to one word? I mean, we
14 could say accessibility/workflow or we could just
15 call them out separately, accessibility for
16 patients and workflow operation for clinicians.

17 MEMBER ROSATI: Kind of stuck on,
18 what's the word, I think maybe it's deployment?
19 Because it's about actually putting it in place.
20 Isn't that what, you know, regardless of whether
21 it's in a workflow or some other computer

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1 algorithm. Just a thought.

2 MEMBER WALDREN: I was going to say
3 again about accessibility just to make sure that
4 we understand that outside of us in the computer
5 world, accessibility means something like for
6 those with disabilities. So, maybe we should
7 keep that in for that particular reason. But,
8 that's people may see when they see the word
9 accessibility.

10 MR. GOLDWATER: Now that we have this
11 reformatted, thank you, Vanessa, looking at
12 usability, any other subdomains that you feel
13 should be included or do you, by another node, do
14 you think there are a couple that could be folded
15 into one another? How would you, I guess, how
16 would you like to format this as we move forward?

17 Frank? Turn your mic on.

18 MEMBER OPELKA: Thank you. So, I'm
19 sorry I had to step out briefly for a call, and
20 I missed some of the discussion on this. But,
21 back to the point that, I think it was Terry that

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1 brought it up, was fit for use and we said it was
2 in usability. Is that on here? And, where is
3 context?

4 Because, at this point, it's going to
5 become critically important.

6 MEMBER O'MALLEY: So, I'm just struck
7 by the fact that the last bullet under exchange
8 is really the content of usability. And, I'm
9 wondering if we take the same concepts and just
10 say when we say that data quality and content,
11 this is what we're really talking about,
12 relevance timeliness, completeness, et cetera.

13 And use that as sort of the data
14 quality and then we get our usability metrics
15 based on the quality of the data that's coming
16 across.

17 So, it seems to me that we're really
18 talking about the same content, same construct on
19 each of those.

20 MEMBER ADLER-MILSTEIN: So, I think
21 to Frank's point, to me, fit for use is all of

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1 these things. So, this would not be fit for use
2 unless it's relevant, timely, complete. So, I
3 almost see that as like another way to title the
4 bucket and that these are, again, the sort of
5 subdomains within that.

6 I think to Terry's point, you know,
7 it's sort of a question of like from whose
8 perspective do you assess this from. And, I
9 think in the exchange bucket, there is the
10 potential that that could be.

11 So, I take timeliness as an example,
12 right, I could say like that transaction was
13 timely, like it moved from Point A to Point B in
14 a timely fashion.

15 But, from the user's perspective, was
16 that data there in a timely fashion? That would
17 be a different set of criteria to evaluate
18 timeliness.

19 And, so, again, I agree. I think the
20 concepts should go under both places, but I want
21 to be sure there's a place for both, you know,

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1 sort of two different perspectives on what it
2 means for something to be timely.

3 And, I think this, again, for me, this
4 bucket is all about the user. Did we meet the
5 user's needs for, you know, for these dimensions?
6 So, I hope that's --

7 MEMBER WALDREN: Yes, that's what I
8 was going to say. I think if we think about
9 exchange being, going back to the notion we're
10 talking about use cases, that a more general use
11 case and more usability is really more of a
12 clinical health use case.

13 Because, again, from a timely exchange
14 perspective, it's like, okay, well you could talk
15 about transit time and those type of things but
16 depending on the clinical relevance, you know,
17 one day is too long where another place three
18 weeks is not too long.

19 So, I think if we think usability
20 being more of the clinically relevant piece of
21 it, and exchange being more kind of the nuts and

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1 bolts. That may be the way we can tease that
2 line out.

3 CO-CHAIR SAVAGE: So, on that last
4 point, though, I would -- I hope we're thinking
5 of usability across all of the end users. So,
6 usability from a patient's perspective, usability
7 from a non-clinical provider's perspective as
8 well. And those time frames may change. The
9 completeness may change, et cetera.

10 MEMBER YEAGER: But, don't we want to
11 measure what was actually exchanged and relevant
12 to a use case to have a sense of, you know, market
13 penetration? Or is that captured elsewhere?

14 And, I understand the quality and
15 completeness of it are attributes of usability.
16 But, don't we want to at least measure the volumes
17 of based on different types of data?

18 MR. GOLDWATER: Thoughts?

19 Terry?

20 MEMBER O'MALLEY: Well, to respond to
21 Mariann, yes, I think quantity is going to be one

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1 of those qualities of the data. You know, is it
2 sufficient or not for the work to be done?

3 And, the comment -- but I think that
4 comment comes under the next part. I thought it
5 was very helpful -- Julia's point -- that really,
6 usability is the receiver's set of issues. This
7 is what, as the receiver, this is what I want to
8 see when I get it.

9 Exchange is really the work that the
10 sender has to do. And, I thought that was, in
11 my mind, that makes a useful split to separate
12 them out that way.

13 MR. GOLDWATER: John?

14 MEMBER BLAIR: Yes, I definitely
15 think you want to have quantity in there. It's
16 a crude measure, but if you have none, you don't
17 have exchange. And, it's dependent on all of
18 these things.

19 It's dependent on the efficacy of the
20 network. It's dependent on usability at the
21 edge. The quality of the content, standard, all

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1 of that.

2 But, I mean it's a baseline must have
3 once you know you have the volume, you can start
4 to dissect out what that is. But, if you have
5 no volume, then you have no exchange.

6 MR. GOLDWATER: And, again, that's
7 something that could very well be brought out as
8 a concept that would fall under, you know,
9 several of these domains.

10 MEMBER OPELKA: So, I'm piling on the
11 quantity comment, but I want to put it in the
12 context of what Hans said earlier, not too much,
13 not too little.

14 So, they can provide all the data and
15 then I have nothing I can do with it because it's
16 -- it came as a complete data dump, and I'm
17 swamped and overloaded.

18 What data are needed for what
19 particular use? And, not too much more and not
20 too much less.

21 MR. GOLDWATER: Jason?

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1 MEMBER BUCKNER: Yes, so I think the
2 quantity is a good one for exchange, not
3 usability. I think it's easy because there's
4 existing measures out there. So, that's, to me,
5 that's not a big deal to add in all that exists
6 today. So, that's a no-brainer to me.

7 MR. GOLDWATER: Bill?

8 MEMBER RICH: I'd like to re-
9 emphasize what Terry and Frank discussed. If you
10 look at the next step measure concepts of
11 providers receive and integrate complete
12 electronic summary of care.

13 I'm going to speak as a clinician now,
14 and I can't use that. If I want to know blood
15 pressure, hemoglobin, Alc to make a clinical
16 decision to treat, not to treat or observe a
17 diabetic, I don't -- I can't go through a complete
18 summary of care. It's overwhelming.

19 And, as a busy -- as a clinician
20 trying to make these value judgements and
21 decisions to treat, not to treat or just observe,

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1 we have to realize whether it's quantity or
2 quality. I don't know.

3 But, we have to understand what's
4 important from both the patient side and the
5 provider side, no matter what that provider is.

6 So, you know, we're talking some
7 semantics now, but let's keep in mind what we
8 really want to do. We want to improve care.

9 And, a lot of the things that could be
10 accomplished by a checkbox or something that's
11 overwhelming like a complete summary of care,
12 which, you know, I can't use.

13 MEMBER BUCKNER: Yes, Bill. So, we
14 talked about that quite a bit and I think our
15 intent was relevance nails that topic. So,
16 what's presented to make it usable needs to be
17 relevant to the audience that is different each
18 time. Right?

19 And, for you, getting those blood
20 pressures and not all this 30 pages of other
21 noise, that's where relevance comes into play.

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1 (Off microphone comment.)

2 MEMBER BUCKNER: Yes, absolutely,
3 yes.

4 MR. GOLDWATER: John?

5 MEMBER BLAIR: Yes, I agree with all
6 of these things. And, they all need to be there
7 ultimately.

8 But, we've talked a lot about a step-
9 wise fashion of getting there. So, it's
10 connectivity, it's transactions, it's improving
11 the content. It's proving usability.

12 So, I think we understand we need all
13 of these things, but we also need to start and
14 then move on. Or move up the ladder.

15 MEMBER O'MALLEY: A comment on that
16 to both Bill and John's comments.

17 We actually ended up sending full CDA
18 documents to a home health agency and they lasted
19 three days before they said stop sending these
20 documents.

21 (Laughter.)

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1 MEMBER BLAIR: Same here.

2 MEMBER O'MALLEY: Because before,
3 they never got any information and now, they've
4 said, we don't have staff who can read this stuff
5 to parse the data out so we can use it in our
6 non-electronic system. Stop, just fill out our
7 form, and that was it.

8 So, it just -- be careful what you ask
9 for.

10 MEMBER BLAIR: Yes, and so, we had the
11 same problem and sent out a staff of ten people
12 for a year and worked in those on those sites to
13 show them how to parse that and use it and now
14 it's used.

15 So, again, we're not going to solve
16 everything immediately. But, you have to take -
17 - I mean, if you don't start a step wise, yes,
18 half the people will not use this at first. And,
19 then half of those later will use it.

20 But, you've got to start somewhere and
21 move forward.

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1 MR. GOLDWATER: So let me recap sort
2 of I think where we are.

3 So, we have exchange, usability, use
4 until use is renamed, and impact.

5 Looking at the subdomains for all four
6 of those domains, are there any either objections
7 to any of them or are there any that people would
8 like to add that are distinctly different from
9 what is there that would be independent of a
10 potential measure concept that we will get to
11 next?

12 Hans?

13 MEMBER BUITENDIJK: Not an objection,
14 but a concern that, with usability, the more we
15 get into format and presentation, there is the
16 element of, as data comes in and I look at, for
17 example, med reconciliation, problems with the
18 reconciliation, et cetera, that I can understand
19 that part.

20 The further you go beyond that, the
21 more we get into, I don't care whatever came in

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1 probability or not, is the system usable enough
2 for the intended audience?

3 And, I think that might just drift a
4 little bit too much outside of interoperability
5 and too much into just regular HIT use.

6 So, I think we just need to be aware
7 of that, that we're careful. What are trying to
8 achieve and are we making interoperability too
9 large?

10 And, during our group, we had the
11 conversation, we said, well, we really did not
12 talk about what interoperability really is. We
13 highlighted the definition, but we have to be
14 careful that before we know it, it's everything
15 and I don't think that is helpful either to solve
16 problems.

17 It's, at times, easier to isolate a
18 few and then move on.

19 MR. GOLDWATER: There's an important
20 -- which we'll -- in the next discussion, when we
21 recount the measure concepts and then start

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1 developing more is to be mindful of that, to
2 narrow the frame of it.

3 Terry?

4 MEMBER O'MALLEY: So, as the editor
5 of the impact list, which was a victim of another
6 form on inoperability called illegibility, I have
7 a few additions that I would add to this list for
8 consideration.

9 And, it really drives out of what
10 we've already talked about in exchange and
11 usability, and that would be a section under sort
12 of the efficiency and ease of use of data. We
13 should be able to measure that and that ought to
14 be an impact of interoperability. So, I would
15 suggest adding that.

16 And, the other one has to do with sort
17 of, again, data, data quality and quantity. And,
18 that sort of is, is it sufficient for us? We
19 should be able to see that, for example, when
20 patients go for registration at a different site,
21 all of their demographic data and current med

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1 list are there and doesn't have to be repeated.

2 So, that would be a patient experience
3 of interoperability where their data preceded
4 them. And, that would be interoperability.
5 That would be a good thing.

6 So, I would add those two sections
7 under impact.

8 MR. GOLDWATER: To recount,
9 efficiency, ease of use of data, and what would
10 be the other one?

11 MEMBER O'MALLEY: It's sort of the
12 data content and quality.

13 MR. GOLDWATER: Data content and
14 quality.

15 MEMBER O'MALLEY: Yes, stealing from
16 exchange. Reusing.

17 MEMBER RICH: Sorry about this, I'm
18 going to put on my hat now as someone that runs
19 a registry.

20 It calculates meaningful outcome
21 measures to patients and family. They're

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1 publically reported.

2 We just passed a law, the 21st
3 Century, and a big piece of that was data
4 blocking.

5 So, where is availability now? Since
6 this is a major concern of people that measure
7 quality, it's a major concern at CMS, CCSQ. And,
8 those of us that are really making publically
9 available outcome measures for families and
10 patients to look at, where is that?

11 If it was big enough to actually get
12 a bipartisan bill passed, then where is it here?
13 Is it timely exchange?

14 DR. PATEL: (Microphone malfunction)
15 -- that point, but to the earlier point about
16 ease of use and kind of data quality, I feel like
17 that's under really usability. You know, whether
18 something is easy to use or not really relates to
19 the usability as opposed to an impact of
20 interoperability downstream impact of
21 interoperability.

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1 MEMBER Kaelber: I would just -- I
2 don't think it's going to capture, but I would
3 propose a subdomain for impact of actually
4 quality of care provided to patients. I mean,
5 it sort of falls into, you know, like a patient
6 safety thing.

7 But, again, when I think, hopefully,
8 if this actually all works well, that quality of
9 care will be improved for patients.

10 MEMBER O'Malley: Just a follow up on
11 the efficiency data use under impact. You know,
12 if you think about the buckets of the sender under
13 exchange, the receiver and usability uses, again,
14 sort of how the systems uses it.

15 But impact is really the impact on the
16 system operations. It's not on the impact of the
17 individual user necessarily.

18 So, if we think of impact as being --
19 so, what does interoperability do to the entire
20 system of care? Because now we're starting to
21 bring it together, and we're getting data from

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1 places that we never got it before. Does that
2 have an impact that's -- and it is positive or
3 not?

4 So, it's -- I really think of impact
5 as more of a system level measure, you can drive
6 it down to a practice or an individual, but it's
7 really the concept is that this is the high level
8 impact of interoperability on the system of care.

9 I don't know if that helps, but --

10 MEMBER SIGSBEE: I would like to just
11 take a moment and expand on Bill's comments,
12 because I think it's really critical. If there's
13 one organization that should understand the
14 importance of measurement, it should NQF.

15 And, now, over 18 medical specialties
16 are using similar technology to really extract
17 that quality data and data blocking through
18 multiple techniques remain a real barrier to
19 being able to effectively access that data.

20 I would see -- I, you know, it's sort
21 of under human use, under use. But, I think that

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1 it is so important that I would really argue that
2 it should be explicitly stated under use.

3 Is, can you actually, you know,
4 there's the impact of those quality measures but
5 can you, through the mechanisms of the technology
6 available actually access the clinical record and
7 extract that data to then put it through the
8 process of determining denominator, numerator
9 performance. And, then, that impact on clinical
10 care?

11 So, I think it's really a critical
12 issue when for those of us who are heavily
13 involved in registries at this point remains a
14 real problem.

15 And, so, you know, I think a measure
16 of interoperability is really for our ability to
17 reach in and be able to extract that necessary
18 information.

19 DR. BURSTIN: Some of our side bars
20 up here were about whether there needs to be a
21 subdomain about data flow or something like that.

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1 Because I think, again, the importance
2 of having a subdomain is you think there's a
3 measure around it. So, if you think something
4 about data flow or blocking is important because,
5 logically, it leaves you to come up with a concept
6 or a measure around it.

7 I agree, I think it needs a home and
8 I'm not sure exactly where.

9 MEMBER BUITENDIJK: A couple of
10 thoughts on the impact section that, one is, I
11 agree with the additions that Terry suggested,
12 but to maybe a couple of twists to that.

13 One is that the efficiency and ease of
14 use of data, efficiency can also be part of costs,
15 cost savings or cost can be a form a efficiencies.

16 So, perhaps that's a way to combine
17 that there.

18 Data content and quality, one of the
19 things that we talked about data quality
20 particularly is that, if I now am on the receiving
21 side, did I now achieve a complete patient

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1 record? Did I get that or from a research
2 perspective, do I have the right set of data?
3 Which is not necessary from the sender side when
4 I send what I have, but I need to get it from
5 multiple sources. So, that's a part of the
6 conversation under data quality.

7 So, I think there is a place for that
8 under impact to make sure that I now have a more
9 complete -- and I can measure that I have that.

10 Under patient safety and the comment
11 that was also made earlier is that we went back
12 and forth a little bit with patient safety and
13 health outcomes.

14 Patient safety is where we dove deeper
15 into some use cases to identify that. But, is
16 patient safety really a part of health outcomes?

17 And, then, the other chain of health
18 outcomes becomes all the other measures that we
19 could consider that are impacted.

20 Patient safety is more on the what's
21 going wrong or the absence thereof it's going

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1 right. But, the other part is what's going right
2 and what's going better?

3 So, perhaps health outcomes might
4 encompass patient safety.

5 And, lastly, is that one that we
6 talked about and did not get into any use case or
7 refer the discussion, but that sounded
8 interesting is the adherence to quality guidance.

9 Does the fact that I now have the data
10 allow me to adhere to quality guidance or to
11 process guidance that is out there better than
12 what I used to do before?

13 So, it goes into the quality of the
14 process. So, it's effectively one addition
15 perhaps combining cost saving and efficiency in
16 some fashion and then a little bit of an
17 adjustment in the name.

18 So, and there was one appropriate
19 patient flow follow up, coordination of care.
20 How are they -- which term is better? Which one
21 is more encompassing?

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1 Because this is one part that we went
2 -- delved deeper into the use case and some
3 measures, but is it really going to be about
4 coordination of care ultimately as we dive deeper
5 into the conversation?

6 MEMBER HIRSCHORN: Just to reference
7 back to the comment before about information
8 blocking, the -- many vendors who can say, well,
9 we don't block information, we just charge you a
10 million dollars if you want to get your
11 information. And, I've bumped up against that
12 where, you know, where I've, again, as a
13 programmer and I go into our systems then take
14 the data that we need in order to take care of
15 our patients.

16 But, I've bumped up against another
17 information system in a different department,
18 that information that I needed and I said, can I
19 query it? And, after they got off the floor
20 gasping for breath saying you want to do what to
21 our system?

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1 I said, well, I need this information
2 to take care of our patients and they said, well,
3 you know, we'll build you interface, charge you,
4 you know, tens of thousands of dollars for it and
5 then hundreds of dollars every month to get
6 access to one data field. You know, that, in any
7 other context, I would just query it and get it.

8 And, I looked at them and said, this
9 is robbery, you know, and it's not just a lot of
10 money, it's prohibitive. It basically is
11 information blocking because, if you make it cost
12 so much, then you're essentially saying, no or,
13 you know, I'm going to hold you over a barrel and
14 just take you for every penny you've got.

15 So, I don't know how you build that
16 into, you know, into measures. I don't know how
17 you build it into regulation or legislation, but
18 to say that when you charge so much for something,
19 it's another way of saying no.

20 And, I don't know if that can be taken
21 into account under the cost category of saying

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1 that there's just something that can cost a
2 little more versus it's so costly as to be
3 prohibitive as to constitute information
4 blocking.

5 MEMBER WALDREN: So, just a couple of
6 quick points. So, on the impact on the
7 appropriate patient flow, maybe we could talk
8 about it being appropriate care which gets a
9 little bit broader which, I think gets into some
10 of Hans's and the points over here.

11 The other thing on the information
12 blocking, so one would need to do a fair amount
13 of definitional work around that. But, I think
14 one thing we could do is think about an addition
15 domain, a subdomain under exchange which is non-
16 technical barriers to exchange.

17 So, you could talk about business
18 models and other things that deal with that piece
19 of it where information blocking could fit
20 underneath that.

21 CO-CHAIR KAUSHAL: I'm struggling

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1 with some of the subdomains that we're placing
2 under impact because they seem -- when I think
3 about impact, I'm thinking about the impact on
4 the clinical care that we are delivering.

5 And, if that's the context of impact,
6 then, for me, the categories that might fall
7 under there are patient safety, quality outcomes
8 and processes which I think there is some
9 reference to, cost saving and efficiency is a
10 combined domain.

11 Care coordination which includes
12 patient follow up but also things like
13 readmissions and so on.

14 And then, I really wonder about these
15 additional three bullets as, Steven, as you
16 suggested, as fitting in some of our other
17 domains.

18 So, the blocking piece, I think, fits
19 under exchange. It's something that we talked
20 about yesterday and I think that there's a
21 measure that we even suggested yesterday around

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1 there.

2 The propagation of misinformation, it
3 could be part of the data content and quality
4 under exchange. It could be under usability or
5 use, but I'm not sure -- and it may remain under
6 impact in the category of patient safety. But I
7 think we need to tease that apart a little bit
8 more.

9 And, then, like efficiency and ease of
10 use of data feels to me more like a use subdomain.
11 So, I'm struggling with what we mean by impact
12 and if what we mean by impact is clinical impact,
13 then, the subdomains don't -- they feel to me
14 like they're at various levels, and they don't
15 feel complete yet.

16 MEMBER ADLER-MILSTEIN: So, I very
17 much agree with that point and I think it's sort
18 of a means/ends thing, right, like data content
19 and quality are a means and, to me, impact is the
20 end.

21 What is the end result of having that

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1 content and quality?

2 And, so, I very much agree with, I
3 think sort of focusing it on traditional domains
4 of quality.

5 But, I also feel like an impact we're
6 talking a lot about clinical and medical
7 outcomes. And, I don't see sort of the patient-
8 centric outcomes, right, in the sense of like
9 what if I, you know, get information that makes
10 a decision that makes me exercise more?

11 Like, I think those are outcomes that
12 are really important to put in here that I don't
13 see. So, I think it's something around just
14 health behaviors or, you know, whatever that
15 construct may be where patients feel like they're
16 living healthier lives, even if it's not a, you
17 know, safe, effective, sort of clinical outcome
18 that led to that.

19 So, those were, I think, the first two
20 points around ends and patient-centric impact.

21 And, I think in terms of the data

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1 blocking, I very much agree that it needs to be
2 in here. I guess I had always seen it under
3 stakeholder involvement. Right?

4 If you are engaging in blocking, that
5 would be a lack of involvement. And, so, I
6 think, to me that -- I had thought of that as
7 sort of a measure concept that might be under
8 that. So, I don't know if that helps solve the
9 problem.

10 And, I think if you actually look at
11 the definition of information blocking, charging
12 prohibitively high fees is actually one of the
13 forms of information blocking.

14 So, I think we tend to think of it as
15 like an active thing, but, if you look at the
16 true definition in the ONC report, it actually
17 encompasses a lot of these behaviors. So, I
18 think we can rely on that definition for the
19 measure.

20 MEMBER OPELKA: Yes, so, in this
21 couple of threads that are moving around right

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1 now, two comments.

2 One, first to the data blocking and
3 what we have under exchanges, I think somewhere
4 it fits under exchange and under the current
5 statute that was referred to in the CURES Act.

6 It's now a federal crime for a
7 delivery system not to provide all the patient
8 information requested by the patient in the form
9 you currently have it in.

10 So, some way, we need to be able to
11 make sure that that interoperability exists and
12 there isn't data blocking associated with that.

13 Because moving that information out
14 from underneath the restraints that have been put
15 on and constraints by the HR into a patient cloud
16 will actually get rid of a lot of the data
17 blocking problems that are out there. So, that's
18 one.

19 But, I think there's details that need
20 to be worked out in that arena.

21 To this question of impact, I was

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1 having the same problem that Rainu was talking
2 about. Listening to Terry make his arguments
3 about the efficiency, ease of use and so forth.

4 And, so, to me, I'm not clear where
5 impact should be. If this is interoperability
6 impact, there are elements of interoperability
7 impact that I believe are properly pointed out in
8 this list.

9 If this is clinical impact, then
10 perhaps we're short on this list and we need to
11 be a little bit more encompassing.

12 If impact needs to have two categories
13 to it, that's something I would like to hear from
14 everyone else. But, when I look at something
15 like cost savings, what aspect of impact are we
16 talking about?

17 Is this, you know, the triple aim that
18 cost of care was improved because of
19 interoperability or was this that the cost of
20 running a data system for me to deliver better
21 care was reduced because I didn't have to exploit

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1 -- I wasn't exploited by everyone trying to
2 leverage data. I got data in a more usable
3 format.

4 MEMBER SETTERGREN: I already have my
5 microphone on, sorry. I guess I was anxious to
6 talk.

7 I'm listening to what Frank said and
8 I'm also thinking that, from an impact
9 perspective, when I think about impact, I think
10 about actually the quadrupling. So, that adds
11 the caregiver experience.

12 We don't really have patient
13 experience included in this and I think there is
14 an impact on patient experience.

15 And, so, it might be useful to think
16 about the quadruple aim as we look at what impacts
17 might be actually measurable and really directly
18 related to interoperability.

19 And, the only other thing I was going
20 to ask about was, you know, somewhere in here,
21 we've sort of alluded to it, but as we figure out

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1 what to do with all of the data quality
2 components, I really want to see data standards
3 in here spelled out somehow.

4 Because I think it's a really critical
5 component of interoperability and we talk about
6 it in more general terms, but I'd like to see
7 standards.

8 CO-CHAIR SAVAGE: So, just a thought
9 listening to some of the previous comments that
10 it may be useful under impact to add a subdomain
11 about stakeholders or users as a placeholder to
12 think about what's the impact on different users?

13 So, there would be a clinic that would
14 be -- there would be a clinical impact, the impact
15 on clinical care.

16 But, there's also an impact on patient
17 experience, that kind of thing. And, so, that
18 may be a -- just, that may be a useful subdomain.

19 DR. PATEL: I think to Mark's point
20 and Rainu's point, I think, you know, adding
21 either the stakeholder component to it and I

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1 think we had talked about this yesterday like a
2 matrix of kind of users, use cases, and the
3 benefits that might accrue, like the impacts
4 might be different for across different use cases
5 and users or end, you know, the stakeholders.

6 So, that might be a useful thing to
7 put in here. If we wanted to specifically call
8 out as examples of impact on consumers, you know,
9 you could think about shared decision making,
10 patient engagement, you know, using those kinds
11 of broad terms that could I think encompass as
12 examples of, you know, calling out.

13 Because we have some of the clinical
14 pieces here, patient safety, costs, care
15 coordination and, you know, I think the ones that
16 Rainu called out were the ones that I think we
17 were thinking about.

18 I mean, originally, in terms of ONC's
19 interest in the impact area, it was primarily on
20 clinical and care processes, which would
21 encompass like shared decision making on the part

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1 of patients and things.

2 But, I think Frank brought up a good
3 point that, you know, we could think broader than
4 that. But, and maybe that could be captured by
5 that kind of matrix type of approach.

6 MEMBER SIGSBEE: Just to under
7 impact, just a suggestion, we could put in
8 patient family engagement as an impact as of
9 interoperability. And, you know, pick up on some
10 of the things that Julia said.

11 In terms of data blocking, we've also
12 found that, in some systems, the, while you can
13 extract a complete record, it's so complex that,
14 for something such as a registry, the time for
15 the practice to do it is also a form of blocking.

16 MEMBER RICH: You know, one last
17 thing, this is -- the data blocking is not a small
18 thing. Anyone in an academic medical center or
19 maybe 95 percent of them or in an ACO that's
20 reporting, you know, non-outcome ACO, the 32
21 measures, even in the academic departments that

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1 want to measure the performance of their faculty
2 and the people on staff, complication rates,
3 outcomes are unable to do so because of the vendor
4 that serves a lot of these institutions.

5 Rulemaking will be coming probably
6 this spring, Helen, for the 21st Century CURES
7 Act. Wouldn't it be nice, since they're going
8 to have to address the issue of interoperability
9 and data blocking, that one of our measure
10 concepts address that so it's in place for the
11 Secretary when the rulemaking is done?

12 MEMBER BUITENDIJK: From an impact
13 perspective, if I can see in the -- and support
14 Rainu as well, on the comments to solidify some
15 of the impacts as we talked earlier.

16 But I'm not convinced that patient
17 family engagement would necessarily be a separate
18 subdomain rather than, in light of the
19 conversation that we had, do we have a series of
20 stakeholders that we identify across the
21 different domain, spaces, and areas?

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1 And, each one of these, if we
2 generalize patient safety to health outcomes,
3 what -- which are the ones that, for each
4 stakeholder, we translate into a measure concept?

5 If you go down to the appropriate
6 patient follow up and we talked about perhaps
7 there's more coordination of care, if you look
8 there at the patient involvement as a
9 stakeholder, what would that mean for that
10 stakeholder communication environment to improve
11 on coordination of care?

12 Perhaps increased engagement, perhaps
13 a less data collection at time of registration
14 because you can just validate what's there.

15 So, there's a number of things there
16 that I think, as we go through the different
17 stakeholders against each of the subdomains, a
18 number of those will start to fall out rather
19 than creating a separate subdomain because, then,
20 we would have to create a separate subdomain for
21 each of the stakeholders to identify what's

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1 there.

2 So, I think we can achieve the same
3 goal by just making sure we run through all the
4 stakeholders. So, I can see some consolidation
5 there and the -- generalizing some things, but
6 I'd be cautious about putting stakeholders in as
7 a subdomain rather than a list to run through to
8 make sure that we address the right measure
9 concepts.

10 MEMBER YEAGER: I think just building
11 on the comments that were previously made that
12 the outcome is going to be dependent on the use
13 case and looking at above and beyond just
14 clinical care.

15 So, it could be the provision of
16 benefits you have to -- that the Social Security
17 Administration, they need access to clinical data
18 to make a determination if someone's eligible for
19 disability benefits.

20 It also could be access to services in
21 the case of Veterans need to close up referral.

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1 So, I like the idea of having sort of
2 a more generic concept on the impact based on use
3 case.

4 MR. GOLDWATER: All right, let me --
5 let's take a moment and sort of go back and just
6 sort of assess where we are and then make sure
7 that the terminology here is clear because we're
8 going to have to define this.

9 So, under the exchange subdomain, what
10 we have now is stakeholder involvement method of
11 exchange, timely exchange, data content and
12 quality, data flow and then data blocking,
13 although we had data blocking worded as non-
14 clinical barriers to exchange.

15 Do we -- is that the more appropriate
16 term to be using rather than data blocking?

17 (Off microphone comment.)

18 MR. GOLDWATER: Yes?

19 PARTICIPANT: Yes, does that mean
20 non-clinical barriers to exchange that are not
21 data blocked, so I think that's the issue.

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1 DR. PATEL: Yes, I mean, yes, I was
2 about say that data blocking is just one of many
3 issues that --

4 MR. GOLDWATER: Right.

5 DR. PATEL: -- you know, are, you
6 know, policy-related issues that might be
7 preventing interoperability.

8 MR. GOLDWATER: Okay.

9 DR. PATEL: So, that are non-
10 technical, like you could --

11 MR. GOLDWATER: So, do you want --

12 DR. PATEL: -- just call it non-
13 technical barriers to interoperability?

14 MR. GOLDWATER: Non-technical
15 barriers to interoperability? Is everyone
16 satisfactory with that?

17 MEMBER BUCKNER: So, I'm okay with
18 that, but data blocking carries a connotation
19 that people know.

20 MR. GOLDWATER: Right.

21 MEMBER BUCKNER: And, it's a term that

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1 means something. That doesn't mean anything to
2 people.

3 MR. GOLDWATER: Okay, so do you want
4 --

5 MEMBER BUCKNER: That's my concern.
6 It's more accurate, but --

7 MR. GOLDWATER: So, do you want data
8 blocking in as a -- is that --

9 (Off microphone comment.)

10 MR. GOLDWATER: That's what the group
11 concurs with? Fine.

12 All right, under usability, are there
13 any other issues under exchange that have not
14 been touched on yet?

15 All right, moving on to usability, we
16 have relevance, timeliness, completeness,
17 coherence, validity, accessibility and then
18 format and presentation, although there was a
19 discussion as to whether format and presentation
20 should be deleted from my notes.

21 Do you keep those as they are? Do

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1 people want to add, delete, or are those
2 acceptable to move forward from?

3 DR. PATEL: I guess I would suggest
4 that, I don't know if, again, this is the debate
5 about what the impacts and the ease-of-use piece.
6 But, I feel like ease-of-use relates to usability
7 unless -- because it's from the user perspective.
8 You measure ease of use from an end user
9 perspective, not at a system level.

10 So, you know, and I think all those
11 subdomains there relate to ease-of-use. I mean,
12 we would could put ease-of-use and then have
13 these as sub-subdomain measures of ease-of-use
14 like relevance, timeliness, completeness, you
15 know, all affect ease-of-use. But --

16 MR. GOLDWATER: So, is the suggestion
17 then to wrap up ease-of-use as a subdomain in
18 which relevance, timeliness, completeness,
19 coherence would fall under those? Or leave those
20 as separate?

21 DR. PATEL: They're for the same

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1 thing, you know, I don't know. Yes, I mean, I
2 feel like some of the domains have covered what
3 ease of use would -- yes, ease-of-use and
4 usability are kind of the same thing. So, I
5 don't know if -- yes.

6 (Off microphone comment.)

7 DR. PATEL: Yes, it's not -- yes, it's
8 not --

9 MR. GOLDWATER: Mariann?

10 MEMBER YEAGER: And, efficiency just
11 seems like more tied to accessibility workflow.

12 MR. GOLDWATER: Okay, so, we're not
13 on impact yet.

14 MEMBER YEAGER: Oh, sorry.

15 MR. GOLDWATER: We're still on
16 usability, so let's get to usability and then
17 we'll move on to use. Then we'll get a -- I
18 understand everyone's excited, so am I, but
19 usability, again, are we all comfortable with
20 those subdomains as they are listed? We're good,
21 yes? Yes.

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1 Use, we have two, human use and
2 computable. Are we acceptable with those?
3 Bruce is giving me the thumbs up. At this point,
4 I'm just inclined to look just at him.

5 (Laughter.)

6 MR. GOLDWATER: All right, any
7 others?

8 (Off microphone comment.)

9 MR. GOLDWATER: Okay.

10 (Laughter.)

11 MR. GOLDWATER: And Frank with the
12 first bad joke of the day.

13 All right, so, impact, we have patient
14 safety, cost savings, appropriate patient follow
15 up, propagation of misinformation, efficiency,
16 ease of use of data, data content and quality,
17 patient family engagement and health outcomes
18 which we will have to define a little bit.

19 Alan?

20 MEMBER SWENSON: So, I mean, this one
21 needs to be cleaned up from some of the

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1 discussions. So, patient safety should be
2 removed because that's under health outcomes.
3 Right?

4 A health outcome is the safety of the
5 patient. Right? I mean, that's --

6 CO-CHAIR KAUSHAL: I think of them as
7 --

8 MR. GOLDWATER: Go ahead.

9 MEMBER SIGSBEE: And, yet, outcomes
10 are the medical care and the impact on that
11 patient's course.

12 So, I think there, you know,
13 particularly when you look at hospital care, or
14 even office care, they're two very different
15 issues.

16 Leap Frog group has looked primarily
17 at safety, not so much health outcomes.

18 CO-CHAIR KAUSHAL: Yes, I think of
19 them as distinct domains as well. I think of
20 quality as the overall quality of care delivered,
21 the adherence to evidence-based guidelines, the

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1 impact of those processes on the actual clinical
2 quality that is delivered.

3 And, I think of safety as distinct in
4 terms of errors and other types of events that,
5 inadvertent or advertent, that affect a patient
6 and their safety.

7 The reason why I would -- and I agree,
8 I think people often lump this.

9 The reason why I would keep these
10 separate for interoperability is because I think
11 there's pretty good literature that you can
12 achieve gains in safety pretty rapidly from
13 interoperability.

14 Certainly, from the use of clinical
15 decision support and e-prescribing decisions
16 part.

17 But, that the quality gains can often
18 take a longer period of time. And, so, my
19 suggestion would be that we keep it distinct
20 because the effects happen at different times
21 after the introduction of interoperability.

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1 MR. GOLDWATER: Alan?

2 MEMBER SWENSON: Sure, I mean, I'm
3 fine leaving them separate. I still think a gain
4 in patient safety would be a health outcome. I
5 mean, that's fine, we can leave them separate,
6 but cost savings and efficiency needed to joined
7 together, I think. So, we can get rid of the
8 efficiency, ease-of-use of data, because ease-
9 of-use of data is already in usability and then
10 efficiency is cost saving.

11 Appropriate patient follow up, I think
12 we had said that should be --

13 DR. PATEL: Care coordination.

14 MEMBER SWENSON: -- coordination of
15 care, care coordination.

16 And, then propagation of
17 misinformation, I think we wanted to move that
18 into data content and quality was part of the
19 discussion. So, under exchange, so that one can
20 just be removed from the list here as well.

21 MR. GOLDWATER: Terry and then

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1 Vaishali.

2 DR. PATEL: Yes, I was just, I think,
3 echoing some of the points that Alan just made.
4 You know, patient safety, cost, care coordination
5 and then I think -- I don't know what the health
6 outcomes piece, we want to call it impacts on
7 quality of care or maybe that's health outcomes
8 might be better because it could be broader
9 across different stakeholders.

10 So, but, and, unintended
11 consequences, Rainu, would you see that as
12 falling under all under patient safety? You
13 think?

14 CO-CHAIR KAUSHAL: I think there's
15 the unintended clinical consequences that could
16 fall under safety. But I think there's also
17 unintended user consequences and I don't know if
18 there's a concept there that needs to be pulled
19 out under use or perhaps even under usability.

20 And while I have the mic, sorry Jason,
21 I'm going out of order, can I push us on this

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1 term health outcomes and are we talking about
2 health outcomes or are we talking about processes
3 and outcomes? Are we talking about quality
4 processes and outcomes?

5 I think that what we're talking about
6 are -- include processes and outcomes and I think
7 that I'm more accustomed to seeing the phrase
8 quality in front of that rather than health.

9 So I'd throw it out there for a
10 question.

11 MEMBER O'MALLEY: So, all of these
12 edits are great. I'm just coming around
13 thinking, these are really, really high level
14 buckets. And what we want to do is to create a
15 place where someone who wants to develop a
16 measure can come in and find an overarching
17 concept that says, yes, I can work in this space.

18 And, so, under health outcomes, you
19 should have quality, safety and, you know, and if
20 they can't do their cost savings under health
21 outcomes, they'll go to the cost savings thing.

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1 So, a couple other pieces to add to
2 this, just you think of, you know, the triple
3 aims. So, population health, are we going to put
4 that under health outcomes or is that a separate
5 domain to attract people to work in?

6 The unintended consequences I think is
7 an important bucket because we -- that's not
8 anywhere and we should be looking at the impact
9 of interoperability on that.

10 And I think that was -- oh, and then,
11 broaden out, as was previously suggested, broaden
12 out the patient and family engagement. You know,
13 make that a sub-bullet under stakeholder
14 engagement. So, sort of a broader integration
15 of stakeholders.

16 Thinking about the grid of
17 stakeholders potential impacts and use case. So
18 the construct we used before.

19 MEMBER OPELKA: Yes, I guess I'm still
20 confused as to this is the broader patient impact
21 and not the interoperability, per se, impact, in

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1 my mind.

2 Because to me, cost savings and
3 efficiency are different. And I don't combine
4 them.

5 Efficient interoperability and cost
6 savings in clinical care are two different
7 things. And efficiency and cost savings don't
8 go together if you're talking about the bigger
9 impact.

10 I can save money and provide cost
11 savings care by being effective as much as I can
12 be efficient. Or by being appropriate as much
13 as I can be efficient.

14 Because there are so many things that
15 drive cost savings, if this is the bigger picture
16 of measuring interoperability's effect on cost
17 savings, it's more than efficiency. There are
18 lots of things to it.

19 And if efficiency is measuring
20 interoperability efficiency, to me, it's its own
21 bullet point of all those things that we're

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1 looking at in all of the other subdomains.

2 And can I get rid of all these
3 resources I'm currently expending to get any
4 element of interoperability.

5 So, if I meet all these other targets,
6 I should be able to measure an impact of data
7 efficiency of using all the electronic
8 environment I have and be able to measure that.

9 So, again, I'm hearing one aspect of
10 the larger picture of healthcare overall impact;
11 and another aspect of what are the more specific
12 interoperable aspects of this subdomain?

13 And it's very confusing to me and I
14 think anyone who's going to be reading this from
15 the outside is going to be wondering the same
16 thing.

17 DR. BURSTIN: We have to hone in on
18 this issue Frank raises and carve --

19 CO-CHAIR KAUSHAL: So, is there any
20 disagreement that what we're talking about in
21 impact is actually clinical impact --

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1 DR. BURSTIN: Of interoperability?

2 CO-CHAIR KAUSHAL: -- of
3 interoperability?

4 I mean, because what -- I think that
5 there are important other subdomains that consist
6 of -- within this broader context of
7 interoperability but that we've been able to
8 better place them into other domains.

9 So, is there consensus on that point
10 that what we're talking about is clinical impact
11 of interoperability?

12 CO-CHAIR SAVAGE: This is Mark. I
13 think that's probably the focus right now. But
14 there are things in play right now and coming
15 where it may -- where the definition of clinical
16 may become important.

17 There is care that's happening outside
18 clinical settings. So --

19 CO-CHAIR KAUSHAL: The health impact.
20 So, impact -- health impact.

21 CO-CHAIR SAVAGE: Yes.

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1 MEMBER BUITENDIJK: Actually,
2 building up on the -- on this point as well, I
3 think, and I want to confirm, is that
4 stakeholders was removed from the list and I
5 agree with that.

6 But that also I think helps clarify
7 that we have the opportunity that, as we put every
8 one of these subdomains against the different
9 stakeholders, we will find, I think, the
10 opportunity that, under cost saving efficiency,
11 that we can look at different stakeholders and
12 what they get.

13 So, a clinician has efficiency
14 opportunities in their efforts that come out of
15 that. But also, if you look at the healthcare
16 provider organization and want to drill down to
17 the IT aspect of it, I think we have the
18 opportunity to look at the pure interoperability
19 efficiency if we so want to.

20 But by running through the different
21 stakeholders that are there so, again, care

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1 coordination by looking at both the clinician as
2 well as the patient and the family, I think we
3 can identify a number of measures that highlight
4 that specific benefits that they receive from the
5 fact that interoperability is in place.

6 So, I'm okay with this list because I
7 can see that there's a discussion around health
8 versus clinical, but I would not want to focus
9 this list only of subdomains -- of all the
10 subdomains of impact on the clinical impacts
11 only. I think that will be too limiting for what
12 we're trying to achieve.

13 But they certainly should be part of
14 it. And if that means we need to change health
15 outcomes to quality outcomes, to clinical
16 outcomes, then not a problem.

17 MEMBER SIGSBEE: I just want to
18 comment that the term efficiency is a little
19 clouded by the payers use of that and they use it
20 indicate the total cost of care. And, certainly,
21 as a clinician, I think more how easily do I get

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1 through my day.

2 So, I think we have to be careful
3 about using that term.

4 MEMBER RICH: Is value a better --
5 it's a different term but is it --

6 CO-CHAIR KAUSHAL: Bruce, just to
7 push a little on that, what are the concepts of
8 efficiency? Or are there any concepts of
9 efficiency that you would include in this domain?
10 Bruce, that was for you.

11 MEMBER SIGSBEE: Well, the -- if
12 you're talking about cost savings then it should
13 be just be cost savings. You know, efficiency
14 is with all the information exchanged, the impact
15 is, is that I can find the information I need,
16 make the decisions I make, take care of the
17 patients in less time and do it well.

18 So, you know, that would be from a
19 clinical standpoint how I would look at this.

20 CO-CHAIR KAUSHAL: I'm sorry, I'm
21 going to keep pushing you a little, Bruce,

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1 because I'm trying to understand this concept.
2 If we did clinician or end user productivity,
3 does that get closer?

4 I mean, it feels to me like there's a
5 distinct concept on the efficiency with which a
6 healthcare provider, for example, can provide
7 clinical care in the context of an interoperable
8 environment.

9 And I am also hearing you about the
10 ambiguity of the term efficiency.

11 MEMBER SIGSBEE: Actually, I think
12 productivity is a -- and this refers not only to,
13 you know, physicians, but nurses and what they're
14 doing, home health care providers and even
15 patients and families who have access to this.

16 So, I think, you know, not so much the
17 latter, but productivity has some real value
18 here. If you think of a home health provider,
19 are they getting the information they need to
20 assess and appropriately take care of that
21 patient?

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1 Or do they have to work at it and
2 multiple calls and several visits to really try
3 to sort it out?

4 MEMBER RICH: I think that I'm going
5 to put a measure developer hat now.

6 If one of the intentions of this
7 exercise is from the subdomain to stimulate the
8 creation of measures, there are certain
9 assumptions that we make in measure development,
10 patient safety, cost and, actually, health
11 outcomes doesn't mean anything to a measure
12 developer. That's a very broad term.

13 But to go back to Rainu's first
14 comment, is quality outcomes. That affects
15 health, but that's a very definitive way of
16 addressing measure development.

17 So, cost savings and health and
18 quality outcomes, quality outcomes also includes
19 processes of care, systems of care and outcome
20 measures.

21 So, I'd go back to your first

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1 construct and that will actually guide measure
2 developers. That is a term that they're used to
3 seeing is quality outcomes.

4 Just a comment.

5 CO-CHAIR KAUSHAL: Julia, you made a
6 comment about labeling this domain as health
7 impact. What is your sense of this question
8 which is, is it health outcomes? Is it quality
9 outcomes? What resonates with you?

10 And I would ask a sister question
11 which is, would you include processes or not?

12 MEMBER ADLER-MILSTEIN: Yes, so I
13 mean, you know, I think there's so many existing
14 frameworks that we use like domain, you know, IOM
15 domains of quality and, you know, processes
16 versus outcomes.

17 And I mean, my sense is, when we get
18 to the measure piece, we're going to have all of
19 those types of measures and so we're just going
20 to need buckets for them because there are some
21 processes that will be improved by

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1 interoperability. There are some outcomes that
2 will be improved interoperability and those, I
3 think, could fall across patient safety, cost
4 savings.

5 I mean, so, you know, I guess, I'm
6 just struggling because I feel like we're sort of
7 taking existing constructs and then breaking them
8 up in new and different ways and I'm just not
9 sure how useful that is.

10 So, I wonder if we want to go back to
11 some sort of standard frameworks that capture
12 like a full set of dimensions of quality and
13 include both processes and outcomes.

14 To me, that is like a more
15 comprehensive and logical way to think about this
16 bucket. And I still feel that data content and
17 quality is not right for this bucket.

18 CO-HAIR KAUSHAL: Yes, so, I would
19 make two suggestions. One is allowing data
20 content and quality to live fully in the exchange
21 domain.

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1 And the second is renaming health
2 outcomes as qualities so that we're including all
3 of the subdomains of -- subset of domains, I guess
4 in this case, of quality underneath that.

5 Are there any objections to that?

6 DR. PATEL: I have a minor point to
7 make. Maybe quality of care, just to make it
8 clear that's, well, impact on quality of care.
9 I don't know, usually quality of care is usually
10 --

11 CO-CHAIR KAUSHAL: I might actually
12 suggest that we keep it quality because I think
13 that if we do quality of care, we're talking about
14 the quality of the healthcare delivery processes.

15 And I think it gets us further away
16 from the concept of impact on actual health of
17 the patient.

18 DR. PATEL: Okay.

19 CO-CHAIR KAUSHAL: That would be my
20 sense.

21 Vanessa's making the changes so speak

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1 now or -- I would take health away from there.

2 I would just keep it quality.

3 (Off microphone comment.)

4 DR. PATEL: Yes, and unintended
5 consequences. I don't know if that was another
6 bucket.

7 MR. GOLDWATER: Frank, go ahead.

8 MEMBER OPELKA: Well, I wasn't trying
9 to preempt anybody, but to me, we're just off the
10 mark on this.

11 To me, the impact of interoperability,
12 the impact I'm trying to measure is, do I have
13 the right data at the right time for the right
14 reason for the right patient? That's what I'm
15 trying to measure.

16 And then, when I look beneath that, I
17 want to reduce the clinical burden. I want to
18 know that I measured and reduced the clinical
19 burden to the team.

20 I want to reduce the time. Right now,
21 physicians are spending two hours of their day

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1 completing EHRs in a 10-hour day and 8 hours
2 seeing patients. That's two hours patients
3 aren't being seen. And that's actually getting
4 worse, not better.

5 So, what is the digital value to the
6 stakeholder? Whether it's the patient, we ought
7 to measure the patient value that the patients
8 see. We ought to measure the provider value and
9 we ought to measure the other stakeholder values
10 as subvalues underneath those two first.

11 Because that's what it's all about,
12 that clinical care.

13 And then you can say, well, does this
14 digital interoperability enhance safety and
15 quality? That, to me, is the question that we're
16 -- that's the impact question we're trying to
17 answer.

18 Does this digital interoperable
19 environment enrich productivity or did
20 productivity get worse because we don't
21 interoperate? And all the rest of this then

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1 falls underneath it.

2 CO-CHAIR KAUSHAL: Sorry, I'm going
3 to ask Frank a follow up question.

4 So, Frank, we have productivity. We
5 have safety and quality. So, I'm -- what would
6 you change in what we have up here in terms of
7 the subdomains? Is it that you've -- well, let
8 me just ask the question.

9 MEMBER OPELKA: All I'm saying is,
10 it's not -- the conversations keep floating back
11 to the broader picture of patient quality.

12 I'm saying specifically, explicitly,
13 did you measure that interoperability influenced
14 quality and safety? Because there's so many
15 other things that influence quality and safety
16 that have nothing to do with interoperability.

17 So, if all you do is measure safety
18 and quality, you're not going to know if this was
19 a cause and effect.

20 To what extent did -- is the right
21 data available at the right time for the right

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1 reason that serves safety? That serves costs?
2 That serves productivity?

3 Those are the things you want to
4 measure. If you're not measuring that and you're
5 measuring more globally what these things are,
6 there's so many other things that do this, you'll
7 have no idea whether it was interoperability that
8 created the effect.

9 CO-CHAIR KAUSHAL: So, Frank, how
10 about if we change the name of the domain to
11 impact of interoperability?

12 (Off microphone comment.)

13 CO-CHAIR KAUSHAL: Yes, I think that
14 in shortening the domain names, we lost that
15 concept. So, if we did impact of
16 interoperability and chose measures that are
17 sensitive to the impact of interoperability,
18 would that address -- yes, okay.

19 MEMBER O'MALLEY: So, I like the list,
20 I like that change. And, then, in sort of the
21 next level down then, as you build all of these

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1 potential subdomains across all of the
2 stakeholders and then, you take the value
3 proposition under each of those remaining cells
4 and you get a whole series of metrics that start
5 to fall out.

6 So, I find this a very useful
7 construct the way it is, understanding that sort
8 of the next level is going to be a stakeholder
9 use case specific drill down which gets us very
10 complicated in a hurry.

11 MEMBER FRISSE: I really like the way
12 Frank brought the interoperability context back
13 which was the primary motivation of this.

14 And, as I'm looking at this now, there
15 seemed like some things that you can measure from
16 the outside quality that we do, for better, for
17 worse.

18 There are other things like
19 productivity which is one of the scariest topics
20 in the world to me. Where, it seems the role of
21 any criteria would be to help people take a

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1 uniform approach maybe to measuring that. Is
2 that inferred.

3 But, to me, to be able to critique how
4 these things affect cost and productivity is a
5 good thing. So, you give these out to delivery
6 organizations and everybody else in the chain,
7 patients, how do these standards help me be more
8 efficient and communicate with my provider, for
9 example.

10 But they're -- a lot of them aren't
11 necessarily external criteria you impose for
12 certification, let's say. But rather, they're
13 just kind of guidance for how people can make a
14 case or whether it's working or not.

15 We use them both ways, right? Have I
16 got that right? Wrong?

17 MEMBER BUITENDIJK: I completely
18 agree with Frank's suggestion that we want to
19 make sure that we focus impact of
20 interoperability. And I thought that the entire
21 framework is meant to focus on interoperability.

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1 But if we need to make it more clear
2 here for this domain, should we change usability
3 to interoperability usability? And should we
4 change use to exchange data use?

5 In other words, is that, all these
6 areas are around interoperability. Now, we can
7 make it more clear in the titles, but we had a
8 similar discussion in some ways with usability
9 and use.

10 So, we want to be careful that we
11 don't drift into the area beyond interoperability
12 where just the data is there, however it got
13 there, whether it's manually entered or not or
14 otherwise derived.

15 But we also want to just focus on --
16 primarily focus on the interoperability aspects
17 of the usability and use and exchange is pretty
18 clear.

19 So, just a question from that is that,
20 are we -- while I completely agree with the intent
21 that we -- that's what we want to focus on, do we

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1 want to change the other column headers as well
2 to reinforce that point to avoid that confusion?

3 Otherwise, somebody might do the same
4 thing with usability and use.

5 CO-CHAIR KAUSHAL: So, could you give
6 the two suggestions again for both usability and
7 use?

8 MEMBER BUITENDIJK: So, usability
9 would be interoperability usability, so do that
10 in front of it.

11 Yes, that's part of the exercise.

12 And then use would be use of exchange
13 data. Now, personally I think that that message
14 that it's focused on interoperability has to be
15 in all the text in front, during, after all these
16 things which makes me wonder whether we need to
17 change those column headers.

18 But I'm just putting it in to make
19 sure that the issue that we're trying to address
20 for impact is no different than the issue for
21 usability and use.

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1 So, if we want to keep it shorter, go
2 back to what we had. If we want to make it
3 abundantly clear, something like this would work.
4 And I'm fine either way.

5 MEMBER HIRSCHORN: Yes, we had this
6 in our discussion. I think it would be the
7 earlier -- the first three categories -- the
8 first three subdomains, I think it's more obvious
9 what you're talking about.

10 Because the last one we were, you're
11 saying, yes, what was the point of all this? The
12 whole point of this was impact. Yes, but impact
13 is multifactorial. You know, and so, you know,
14 so, this is inherent -- it's inherent just to
15 what you call the last subdomain.

16 Of course, it's impact of
17 interoperability. That was the point of all of
18 this, is that the -- whereas, the other ones, it
19 was clearer that you were talking about
20 interoperability.

21 Exchange, it was clear you were

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1 talking about interoperability.

2 As we move down the spectrum, it
3 becomes less clear, so you want to put in the
4 word, you can put in the word. But, when you get
5 to the end, though, yes, you have that inherent
6 problem that you're saying, no, just the impact.

7 Gee, that's seems very broad, you
8 know, so it's the impact of interoperability.

9 And, you know, and it's obvious that
10 it's a -- that there is lots of confounding
11 variables and that when you try to attack these
12 categories of patient safety, cost and
13 productivity, care coordination, quality, there
14 is, you know, none of these things are solely
15 affected by interoperability.

16 And so it's going to be tough to
17 measure in the end to say what was the
18 contribution of interoperability to this?

19 That said, you can put in, and I would
20 expect you would put in, you know, aspects into
21 the measure to take into account, where did this

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1 information come from?

2 Again, we have this discussion over
3 and over again in our group session of saying,
4 you know, if it was data that it had anyway, well,
5 then, it's not a function of interoperability.

6 If it's data that I did not have
7 anyway, that got to me, again, from either
8 external it came in or it was even internal, but
9 just wasn't interoperable. Then, that is the
10 impact of interoperability.

11 So, it's going to behoove the measure
12 to take into account where did the data come from
13 in order to understand its impact on -- that said,
14 just in terms and its impact.

15 So, you know, that's the nature of the
16 beast. You know, if you want to -- if you want
17 to measure impact, you have to then, you have to
18 track where did the, you know, where the
19 different -- what was the contributing factor?
20 Did interoperability have an effect on this or
21 not?

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1 But I'm going -- you have to do it
2 because, otherwise, what's the point of all this
3 if you can't measure an impact that it had?

4 MEMBER ROSATI: So, just a -- first a
5 comment about quality. You know, this discussion
6 about what should be the term here made me think
7 about, you know, the quality aspects of this are
8 impact on process on patient outcomes and patient
9 experience.

10 So, I mean, if that's all captured
11 within that one term being there, I think that's
12 sufficient. But, we've got to realize that there
13 are multiple components here of quality.

14 The other piece of what I thought
15 about as I was sitting here is there's two big
16 impacts that are missing, although it may be hard
17 to quantify.

18 One is innovation because by doing
19 this data integration and the ability to exchange
20 information could change the way we deliver care.
21 Right? So, that's one important piece.

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1 The other big global issue is about
2 the ability to do research which is being left
3 out of this. Because, you know, via the, you
4 know, the capacity that we're building here, we
5 can do far more.

6 So, I just to make sure those don't
7 get left out.

8 CO-CHAIR KAUSHAL: Can I ask a few
9 follow up questions to flesh that out some more?

10 So, first, for the first set of
11 considerations, we had, at one point, patient
12 centeredness, patient engagement as a separate
13 subdomain.

14 Does the group generally feel like
15 that should come back in as a distinct subdomain
16 or should it be under quality? My vote would be
17 to include it as a separate and distinct
18 subdomain. But, what does everyone think?

19 MEMBER O'MALLEY: I think, Rainu, I'd
20 favor leaving quality as the larger subdomain and
21 then under that have stakeholder -- individual

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1 stakeholder impacts. And I think they're a
2 little different, but we have to specifically
3 call out patient family. I mean --

4 CO-CHAIR KAUSHAL: So, that sounds
5 great. So then, Vanessa, could you, in
6 parentheses after quality, put in including
7 outcomes, processes and patient experience?

8 MEMBER ROSATI: Can I just, to answer
9 your question, though, I would -- I think of
10 engagement as being broader than quality in the
11 work that we do.

12 It applies for one who is healthy and
13 not even receiving care, but wants to navigate
14 the health, navigate the system.

15 So, I'm for listing it separately.
16 I've thought mostly about it as an issue for
17 patients. But, I'd suspect as well that
18 engagement may apply to other types of users as
19 well when they have more information, more
20 engaged with what they're doing.

21 CO-CHAIR KAUSHAL: So --

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1 MEMBER RICH: I'd like to comment and
2 support the suggestions of Rainu and Hans and
3 others.

4 Sitting here as a measure developer,
5 all of a sudden, click. And, this is going to
6 have to be looked at, interpreted and stimulate
7 thought by people outside this room.

8 And if you look at the impact of
9 interoperability, sitting here, I know extant
10 outcome measures. They're going to look -- that
11 are dependent upon the acquisition of data from
12 ASCs where there's not a lot of electronic data,
13 OPDs, ASCs, patients' primary care docs.

14 And actually, they incorporate three
15 or four of those and I can think about three or
16 four measures now. And that's what we want to
17 do is to get people think of these constructs,
18 think of measures, maybe extant measures where
19 they're dependent upon interoperability of data
20 from different sources.

21 So, I'd really strongly think that the

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1 edits made by Rainu and Hans have really
2 clarified things in my mind, but maybe I need
3 another cup of coffee.

4 CO-CHAIR KAUSHAL: Jason, I think, I
5 know that there's a lot of tents up, I do want to
6 bring it back to three things that have been
7 mentioned just to try to reach some more clarity
8 about them.

9 The first is, I think Mark is
10 suggesting that we keep patient experience as a
11 separate subdomain. And, I think we just need
12 to make a decision. And, it's patient engagement
13 rather than experience, sorry, or patient
14 centeredness or engagement.

15 So, are there objections to doing the
16 patient -- what phrase do you like, Mark,
17 engagement centeredness?

18 CO-CHAIR SAVAGE: Engagement is the
19 one that we have used. It seems to resonate the
20 most and be the broadest.

21 CO-CHAIR KAUSHAL: So, could we do

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1 patient engagement as a separate subdomain, in
2 which case you could remove patient experience
3 from quality?

4 Or you could keep it there, frankly,
5 I don't think it really matters.

6 And then, Bob, you made two other
7 points that I think we need to discuss.

8 One was whether or not we're including
9 innovation as a category under impact of
10 interoperability.

11 And whether or not we are including
12 research and research use cases as an impact.

13 And I think that if people could
14 address those two questions first, then we can go
15 back around and solicit more comments.

16 MEMBER ALDER-MILSTEIN: So, I think
17 we'd envision that as a use of exchange data, so
18 research would be a way that you would use the
19 data that would then lead to the impact.

20 So, to my mind, this is not an impact
21 category, it's a use category because research in

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1 and of itself is not useful and that's what leads
2 to the impact.

3 CO-CHAIR KAUSHAL: Do you want to
4 include it under use then or not?

5 MEMBER ALDER-MILSTEIN: Yes, so I
6 think we had had it as subdomains under the human
7 and computable. But --

8 CO-CHAIR KAUSHAL: Okay.

9 MEMBER ALDER-MILSTEIN: -- we can add
10 it explicitly and I think innovation similarly
11 like innovation for innovation sake is not
12 valuable but if innovation leads to impact.

13 So, I guess, for me, those -- both of
14 those concepts are really important and we had
15 thought about under use and I think they could be
16 their own bullets or under existing bullets.

17 DR. PATEL: So, I would agree with
18 Julia. I think these are like use cases in a
19 sense like, you know, how interoperable data is
20 used for research, you know, secondary use, for
21 example, research purposes.

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1 And then, one can measure the impact
2 of that downstream in the impacts part of it.

3 So, we could list these as examples in
4 terms of use cases or under the use section.
5 But, you know, I don't know. Yes, so that might
6 be covered underneath there.

7 The other piece of it, it might be
8 worth bringing up the results of the
9 environmental scan and literature review because
10 that also had in there domains on like the impacts
11 of interoperability to make sure that we're
12 covering the main findings from that, you know.

13 Or, I don't know where that is brought
14 in, but just to make sure we're covering all the
15 domains.

16 CO-CHAIR KAUSHAL: So, I think the
17 suggestion is, and I think we should decide what
18 we want to do with it, is either to include
19 research and innovation under the use domain or
20 to remain silent on it because we think that it's
21 going to be included in some of the subdomains

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1 under use.

2 So, what are peoples thoughts on that?

3 MEMBER OPELKA: Well, I mean, this is
4 -- there's a lot of conflict going out here with
5 several conversations at once, I think.

6 I can add to the list, if we want to
7 add to the list. If we want to put research on,
8 that's only a small segment. Registries is a
9 much larger impact for many, many more lives in
10 real time and that's not on the list.

11 I look at all of those as part of the
12 accessibility of data. And once it's accessible,
13 it has multiple uses. Research is one,
14 registries are another.

15 And other aspects of quality of care.
16 I think these are very traditional, stale quality
17 metrics that are up here. And, it's not where
18 the world's going. The world is looking at more
19 complex measures and so, if we were to just focus
20 on process and outcomes, that's not going to be
21 good enough in very short order.

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1 So, where I would just put quality and
2 like leave it for a broader umbrella. Because,
3 you don't have appropriateness. You don't have
4 complex compound measures that can be put
5 together across an episode longitudinally.
6 You're not dealing with patient activation,
7 patient engagement, PRO-type measures.

8 You're not looking at clinical
9 decision support activities. You're not
10 incorporating practice guideline activities.

11 There's all sorts of things that open
12 up once you get data liquidity going. And so,
13 that's the innovation world that's out there and
14 it's waiting to happen. It is burdened by a lack
15 of data.

16 The interfaces that are developing are
17 the interfaces outside the EHR world. It's
18 what's happening in the clinical registry world
19 that all the action's going.

20 Where do I get that data moving and
21 how do I represent this on here?

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1 So, I looked at all of those as
2 elements of the uses and the usability but, if we
3 want to parse it and list them out, we can do
4 that, too. To me it's six of one, half a dozen
5 of the other.

6 In a broad sense, I was just looking
7 at creating data liquidity that then is available
8 to be used for the good purpose of quality, cost
9 containment and so forth in the triple aim.

10 MEMBER BUITENDIJK: I agree with
11 Frank's statements in that looking at the list on
12 the impact side, that quality should not be
13 limited to. But at least it's stating including
14 outcomes. So, it's not limited to that.

15 And I think that's where I would see
16 the effect of innovation and research starting to
17 pop up and in a number of other areas as well,
18 patient safety and any of the other ones. I
19 should see that pop up.

20 If we want to put it, I think, use of
21 exchange data is a more appropriate place to

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1 highlight it.

2 But I'm not -- I'm fairly silent on
3 whether it should go there. I don't think it
4 should go under impact.

5 Regarding the question that Rainu
6 asked about for or against patient engagement as
7 a subdomain, I remain from a perspective that I
8 believe that, as we apply the stakeholders to the
9 other four categories, five categories that are
10 there, the subdomains that are there, that we can
11 get to all the aspects that patient engagement
12 entails including care coordination, at least
13 from a patient perspective involving the patient,
14 their care team, their caregivers, et cetera.

15 From a quality perspective, from
16 patient safety perspective, from a cost savings
17 perspective, I think we can get to all those areas
18 without having to call out patient engagement
19 separately.

20 So, I still am on the thought that it
21 does not need to be separate subdomain without

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1 compromising the ability to get to the
2 information we need to.

3 MEMBER ROSATI: Just want to make sure
4 we don't mix together patient experience and
5 patient engagement.

6 The reason is, because, the patient
7 experience piece which I think can be addressed
8 by interoperability is the complaint you often
9 have, that I've had to provide this information
10 seven times already. So, that's an experience
11 and it doesn't necessarily get them any more
12 engaged in terms of their health.

13 So, I just want to make sure we think
14 of it that way.

15 The other part about, you know, I tend
16 to agree that, you know, where do you put
17 research? Is it usage or is it impact?

18 I guess it could be in the usage
19 category. I think impact and innovation has to
20 be in the impact category.

21 And so, just back to because I

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1 suggested it, wanted to make that clear.

2 MEMBER FRISSE: I keep going back to
3 the things that are on the outside in the primary
4 charge which is to understand how
5 interoperability can both strengthen existing
6 meaningful use metrics and create new ones.

7 And I'm going to take a parable
8 analogy and I may be banned for this.

9 Transportation sells, cars are the
10 series of products and processes that we use for
11 that. When you get a car, you have the
12 specifications inside the car, some's required,
13 certain safety standards, some are optional.

14 You have value-added products that
15 meet certain standards that you can add to your
16 car. Right? And then you've got that whole
17 production process.

18 And then on the inbound, you've got
19 the suppliers who have to meet certain standards
20 and criteria.

21 And to me the critical thing that some

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1 of you have emphasized over the last two days is
2 the extent to which these emerging technologies
3 in home health care must be thought of like new
4 value-added products that must meet certain
5 standards for that interface.

6 And I still think that's where we need
7 to go.

8 But in the middle, the efficiencies,
9 the productivity, those sort of things, I think
10 people will figure that out, and unless we have
11 some compelling reason to have some approach,
12 recommended approach to measuring some of these
13 things, it's certainly essential to the output.

14 But if you -- the real question is,
15 what are we measuring when it comes out and what
16 are measuring for these new components when they
17 come in?

18 Which kind of gets you back to data
19 liquidity and a few other things that people have
20 mentioned.

21 DR. PATEL: just to put in a plug for

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1 keeping patient engagement and kind of shared
2 decision making as a separate item, I think we
3 want to make sure, once this is published, just
4 to think about the audience.

5 It's not just going to be clinicians
6 and -- but, you know, we want to make this
7 relevant for consumers as well and making sure
8 that there's something in the impacts that can be
9 visually seen as opposed to having it under a
10 rubric of underneath one of -- as a sub-
11 subdomain, I think is important.

12 MR. GOLDWATER: Okay, so after all of
13 the discussions which have been great, so there's
14 two more things I think to decide on before we
15 can close this.

16 So, the first is under quality, do we
17 want the parenthetical or do you want that
18 removed?

19 And, two, do you want to keep patient
20 engagement where it is, move it somewhere else or
21 eliminate it?

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1 So, let's start with the first, which
2 is quality. Rainu, go ahead.

3 DR. PATEL: I'm agnostic about
4 whether or not we have the parentheses after
5 quality. I think it's cleaner if we actually
6 take them away.

7 And I would advocate that we keep
8 patient engagement a separate subdomain.

9 I do agree, Hans, that the stakeholder
10 involvement will start to incorporate the patient
11 perspective and it goes through the other domains
12 that we're talking about.

13 But I do think that there are distinct
14 and unique metrics that we can develop around
15 patient engagement that are broader than
16 patient's experience with the processes of
17 healthcare delivery.

18 And so, I would advocate keeping it
19 separate.

20 MR. GOLDWATER: Go ahead, Mark.

21 CO-CHAIR SAVAGE: So, I would

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1 advocate the same way and agnostic about quality
2 leaning towards just keeping it as quality, but
3 agnostic and I would keep patient engagement.

4 MR. GOLDWATER: Okay, so, let's
5 propose removing the parenthetical from quality
6 and leaving that as its own subdomain and leaving
7 patient engagement where it is.

8 Bruce, I'm looking to you for
9 approval. Yes? No? Good?

10 Terry?

11 (Off microphone comment.)

12 MR. GOLDWATER: Patient and caregiver
13 engagement? Okay.

14 MEMBER O'MALLEY: And, my question
15 is, is engagement the right term? I'm all in
16 favor of patient and caregiver, but it's, you
17 know. It's a start, okay, it's a start.

18 MEMBER RICH: Friendly amendment to
19 what Julia said. Family caregiver, because, in
20 the conversations, people often think of the care
21 team as being the caregivers, the clinical care

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1 team.

2 MR. GOLDWATER: All right, so we will
3 leave quality open and we will do patient and
4 family caregiver engagement under impact and
5 interoperability.

6 And should the -- what's that?

7 (Off microphone comment.)

8 MR. GOLDWATER: You have something
9 again?

10 MEMBER O'MALLEY: Patient or
11 individual. No, again, are we talking about --
12 I'm sorry, but this is, you know, you're --

13 MR. GOLDWATER: I'm just --

14 MEMBER O'MALLEY: -- parsing, you know,
15 if we're going to parse it, then let's parse it.

16 MR. GOLDWATER: Go ahead.

17 DR. BURSTIN: Meaning person, family,
18 we'll figure that out.

19 MR. GOLDWATER: Go ahead.

20 CO-CHAIR SAVAGE: So, the National
21 Partnership has wrestled with this issue many

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1 times. There are entire communities who feel
2 very strongly that it should not be patient, that
3 it should be person.

4 What I will say is that in all of our
5 experience, we have settled on the use of patient
6 because it speaks to the most people and we drop
7 a footnote that says, we understand that there
8 are different uses. I would keep patient here
9 because this is the broader audience.

10 MR. GOLDWATER: And we'll drop the
11 same footnote in the report. I mean, literally,
12 we'll follow the same example on it.

13 All right, Bob, you can close us out.

14 MEMBER RUDIN: You're going to hate
15 me, Jason.

16 MR. GOLDWATER: I promise I won't hate
17 you.

18 MEMBER RUDIN: But, so, I've been
19 mulling over the usability, so I have a comment
20 on the usability one.

21 MR. GOLDWATER: Okay.

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1 MEMBER RUDIN: Is that okay?

2 MR. GOLDWATER: Of course it is.

3 MEMBER RUDIN: So, first, like title
4 now is a little confusing to me. Do we mean
5 usability of exchange data to make it consistent?
6 Is that -- that's one question I wanted to put
7 out.

8 And the other one is, I think we have
9 bunch of variables there, domains that some of
10 them, I think, could fit under the domain of
11 actually data content and quality from the --
12 but, within the context of the receiving end.

13 So, I wonder if, instead of trying to
14 bullet out all of those, which I think there would
15 actually be some additional ones we could think
16 of from like just usability literature.

17 Like, for example, we don't have
18 things -- we also are missing things like if the
19 patients are the receivers, what about health
20 literacy aspects?

21 So, one aspect might be, if we have

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1 like something about data quality and we do have
2 timeliness essentially in the first two domains
3 also. So, I want to point that out.

4 So, if we have something like data
5 quality from the -- in the context of the
6 receiver, and then, data understandability would
7 be another one which takes into account something
8 like health literacy.

9 And then, I know we talked briefly
10 about integration into workflows. And that does
11 sound clinician-centric. But you could -- we
12 could say integration into workflows or patients
13 like, you know, peoples like routines to make it
14 more general.

15 Because I think there's a difference
16 between what the data is that's being presented,
17 whether it's presented in an understandable
18 fashion and then how it's presented which gets us
19 back to integration into workflow. It might be
20 a way to consolidate those into, I think, some
21 more coherent buckets.

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1 MR. GOLDWATER: Let me make sure I'm
2 understanding what you're suggesting.

3 So, instead of adding to that
4 interoperability, usability list, creating
5 higher level subdomains where those things would
6 fold under?

7 Okay, so, data comprehensibility is
8 one.

9 MEMBER RUDIN: Data quality.

10 MR. GOLDWATER: Data quality.

11 MEMBER RUDIN: And integration into
12 routines.

13 MR. GOLDWATER: Okay.

14 MEMBER RUDIN: Work routines or
15 people's lives.

16 MR. GOLDWATER: Any thoughts on that
17 or any dissent, I should say? No?

18 Yes, Frank?

19 MEMBER OPELKA: Yes, I'm not sure I'm
20 following where they're going. You've got data
21 content and quality under exchange.

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1 And in terms of productivity, I
2 thought that was really a workflow issue and it's
3 all stakeholder productivity, it wasn't, you
4 know, it's patients aren't excluded.

5 So, I thought workflow was covered
6 under productivity but I'm not sure where you're
7 -- there are a lot of changes you just mentioned
8 and I'm not sure where they're all going and if
9 they aren't already covered.

10 MEMBER RUDIN: It's the question of
11 how the data would be used. So, for data to be
12 used, there's something about the data itself.
13 So, not the -- not how it's produced, but how
14 it's packaged in the form where from the end user
15 perspective.

16 And then there's the question of, is
17 it like the selection of which types of data when
18 it's presented. Because there's the question of,
19 is it understandable? Like, are you showing
20 something to a user who doesn't understand that
21 data needs to be interpreted for them in some

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1 way?

2 MEMBER OPELKA: So, I'm getting post-
3 availability stress syndrome again. And, all of
4 that's covered there. Relevance deals with a lot
5 of that as well.

6 So, that's covered under relevance.
7 If the data aren't relevant that's been
8 exchanged, it's -- we're assuming availability
9 and relevance is part of that.

10 MR. GOLDWATER: Jason?

11 MEMBER BUCKNER: Yes, and that's my
12 thought, too, Frank, as well as coherence. Is
13 it understandable? I think that was the
14 intention of the word coherence there. Is it
15 valid to you whatever a use case is?

16 So, you know, I'm a little confused on
17 what the change would actually be that you're
18 proposing, Bob.

19 MR. GOLDWATER: Alan?

20 MEMBER SWENSON: So, it seems, and I
21 mean, Bob can obviously clarify it, at least how

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1 I'm understanding it is, that you're just
2 suggesting that there is some room for
3 consolidation and clarifying of terms, not that
4 relevance and completeness and coherence aren't
5 already covered, but that some of those things
6 could be bucketed into one item rather than
7 having so many different subdomains?

8 MEMBER RUDIN: Three domains, one
9 would be data quality, one would be data
10 understandability or comprehensibility to the end
11 user and then the third would be integration like
12 how effective it integrates into people's
13 routines. I think we can merge all the ones that
14 are that there into those three categories.

15 MR. GOLDWATER: Does that make sense?

16 DR. PATEL: Yes.

17 MEMBER BUITENDIJK: I think, by and
18 large, that clarification is helpful. When we
19 get to understandability, then we need to be
20 careful that we just look at the content part of
21 the interoperability, not the way that it

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1 actually physically appears.

2 So, I just -- that frequently, we, we
3 not necessarily meaning this group but in
4 general, is that we get confused about human
5 readability aspects of things. And which it goes
6 to understandability.

7 And you only achieve that after the
8 computer applies some transformation to make that
9 happen.

10 So, I think we just want to be careful
11 that understandability does not get over
12 interpreted into how payloads are actually
13 transmitted.

14 MR. GOLDWATER: Why don't I suggest
15 this before we get to Mark, the next part of this
16 is going to be teasing out measure concepts
17 related to all of this.

18 If there's a sort of we see them
19 grouping together in the categories that you're
20 mentioning then maybe can think about how to roll
21 them up.

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1 Mark, did you have anything to say?

2 (Off microphone comment.)

3 MR. GOLDWATER: With that, we're
4 taking 15 minutes.

5 Thanks.

6 (Whereupon, the above-entitled matter
7 went off the record at 11:01 a.m. and resumed at
8 11:25 a.m.)

9 CO-CHAIR KAUSHAL: All right. I'm
10 going to suggest that we go ahead and get started
11 in the interest of time. Because the next step
12 that we have in front of us will, I am sure enga
13 -- have a lot of discussion and be quite involved.

14 So, what we're doing, now that we have
15 our domains and subdomains, is to start thinking
16 about the measure concepts. So this was the work
17 that we did yesterday afternoon.

18 And what we're trying to do now is to
19 flesh out a longer list of measure concepts. And
20 we, Mark and I, talked about different ways to
21 structure this.

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1 And we were thinking that maybe we
2 should start with one of the domains in the
3 middle, like usability. And then go back to
4 exchange. And then go forward.

5 But we've decided we're just going to
6 go in chronological order. So, we're going to
7 start with exchange and with the measure concepts
8 associated with exchange.

9 And the goal of the next 10 or 15
10 minutes is to just generate a number of measure
11 concepts around exchange. Vanessa and the team
12 are still putting up the measure concepts that
13 were developed yesterday.

14 Steven, I'll turn it to you to go
15 through the four or five that were developed
16 yesterday. We have included in here some of the
17 availability ones now.

18 So, if you want to speak to the ones
19 that our group did. And then maybe Mark, I'll
20 turn it to you to speak to some of the ones that
21 the availability group did.

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1 MEMBER WALDREN: Well sure. So
2 underneath stakeholder involvement, we had two
3 measures. So one was the notion of those
4 patients that were shared, what percentage had
5 their information exchanged.

6 And a sub-measure would be that if you
7 cap -- if you were capturing the type of
8 organizations you were exchanging with, and you'd
9 be able to understand, are you exchanging with
10 key categories of organizations actively.

11 So it's this notion that there's
12 certain types of exchange that we want between
13 different types of stakeholders that we want to
14 push forward. And some of the ones that we
15 talked about were dental and behavioral health.

16 And of course patient exchange and
17 engagement would be one of those subcategories as
18 well. So that's one measure.

19 The next underneath the stakeholder
20 was this notion that the front line folks are
21 being actively participating in exchange. And

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1 it's not an organizational level only exchange.

2 So what per --

3 (Off microphone comment.)

4 MEMBER WALDREN: Oh, sure.

5 CO-CHAIR KAUSHAL: Could I ask you to
6 phrase a few more of those concepts so that
7 Vanessa can get them onto the slide? The things
8 that you were just describing.

9 If you could phrase it as a measure
10 concept. Am I making sense?

11 MEMBER WALDREN: Yes. And the first
12 one is on the first one. So, of those patients
13 that were shared. And I would say the next one
14 is which key categories of stakeholders that
15 you're actively engaged in exchange.

16 So, I don't know if that's clear
17 enough. Okay. So then I'll just read off this
18 list here. So the next one was this notion of
19 are you using nationally recognized standards for
20 your exchange.

21 We -- didn't -- we talked a little bit

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1 about timeliness. And I think more of ours was
2 -- I think there needs to be a conversation about
3 how the timeliness works in the next layer. So,
4 I don't know that that makes a whole lot of sense
5 for us.

6 So the other two are, I think, are not
7 ours, are they? I'm sorry. Let me go back to
8 look at my list. Yes. So that's it.

9 CO-CHAIR KAUSHAL: Sorry. I think it
10 would be useful if we could put back up the
11 subdomains that we just discussed. Oh, they're
12 up there. Okay. Sorry, I didn't see that.

13 So, Steven, in looking at -- just
14 because you had the unfortunate luck to be scribe
15 yesterday, in looking at those five or six
16 subdomains, are there additional key concept
17 measures that you might include here?

18 MEMBER WALDREN: So, underneath the
19 method of exchange subdomain, we did talk about
20 this notion of the different types of exchange
21 and a volumetric. But we didn't get to the con

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1 -- to the point of a concept.

2 But, we talked about this notion of
3 how many, you know, pushed messages are you
4 doing? How many pull messages? How many
5 networks are you connected with?

6 Kind of in the method of exchange we
7 talked about the notion of, are you actively
8 training your front line staff in how to use those
9 methods of exchange? So, for example on the
10 push, are you teaching them how to actually do
11 it?

12 CO-CHAIR KAUSHAL: So Vanessa, just
13 to translate a couple of these. I think that the
14 latter was this concept of, could we call it non-
15 technical support, or support and training?

16 MEMBER WALDREN: Support and
17 training, yes. So we talked about configuration
18 as well. So, support and training, I think, is
19 fine.

20 CO-CHAIR KAUSHAL: Support and
21 training for the exchange. And then

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1 configuration as a separate concept.

2 And maybe what we do, you know, I'll
3 defer to the group. But maybe what we do is
4 throw up some of these key areas that we're
5 thinking about.

6 And then figure out how to translate
7 them into measure concepts. So, would it be
8 okay, Steven, if we just threw up configuration
9 and then figured out what we're talking about
10 there?

11 MEMBER WALDREN: Yes. Yes.

12 CO-CHAIR KAUSHAL: And I would also
13 suggest that we throw up --

14 MEMBER WALDREN: You're the chair.

15 CO-CHAIR KAUSHAL: Data -- just
16 trying to us. I would also suggest that, you
17 know, we've talked about various aspects of data
18 content and quality.

19 Some of the things I think we've
20 talked about are data -- so this, Vanessa, would
21 be another separate area around which we'd want

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1 to develop a measure concept.

2 But we've talked about data
3 completeness, data comprehensiveness, data
4 sources. Comprehensiveness, sources, or breath
5 maybe was the word we were using.

6 Steven, I'm going to keep -- I'm going
7 to put you --

8 MEMBER WALDREN: Yes. No, no. No
9 that includes -- we talked about the notion of -
10 - in that particular bullet the notion of the
11 social determinants.

12 There was discussion around police,
13 and David had brought up, you know, about police
14 reports and other things like that. So, that was
15 the intent of the breath.

16 On another bullet we talked about the
17 level of structure. So we talked about the
18 syntactic and semantic richness of the data.

19 Yes. So I would say the semantics.
20 Set up system of that. Awesome.

21 In another bullet we talked about the

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1 level of automation. So, how much of it is the
2 system that's generating the exchange versus a
3 user has to go through the process of initiating
4 an exchange.

5 I would add in one more bullet I
6 guess. We talked about coordination with trading
7 partners. Which I think this gets to the
8 potential of, and sorry, I was out.

9 If that fits underneath the data flow
10 or data blocking. But, it's this notion of doing
11 the business and work of making sure that you can
12 actually do the technical exchange.

13 We did talk about incentives in place
14 for exchange. But I don't know if that makes
15 sense.

16 CO-CHAIR KAUSHAL: Terrific.

17 MEMBER WALDREN: Yes. So, I would
18 say on that particular bullet, where you have the
19 technical elements of exchange, I'd put non-
20 technical. So, I'd just put non hyphen. Yes.

21 And why not just leave it at that.

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1 And we can talk about -- I mean, we can talk about
2 incentives being part of that as well, if we want
3 to go into that route.

4 Yes. The only other thing I have on
5 the list here, I wouldn't put into this
6 particular one. But, it's this notion of fit our
7 need. Does it actually fit a need or -- but I
8 think that more goes into usability and use.

9 CO-CHAIR KAUSHAL: Let's hold onto
10 that one for use, I think. So then -- terrific.
11 This was really helpful to get us started.

12 So, I guess here, let me offer up some
13 questions for now to the group as a whole.
14 Looking at this list, are there additional
15 domains that need to be included?

16 Or I guess we're talking sub --
17 concepts, thank you. Are there additional
18 concepts that measure concept areas that need to
19 be included?

20 And are there suggestions about how to
21 take some of these areas and phrase them more

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1 granularly as a measure concept? Helen?

2 DR. BURSTIN: I just want to mention,
3 I think, we added data blocking. And I don't see
4 a concept here around data blocking.

5 And I think that would be really
6 important.

7 CO-CHAIR KAUSHAL: And Mark, I should
8 also turn it to you. Because the availability
9 group had the last two bullets on this.

10 And I guess my question for you is,
11 are those issues sufficiently included? If you
12 could just go back for one second.

13 Would it be sufficient to flesh out
14 the -- there's a concept around key stakeholders.
15 And is it sufficient to say key stakeholders are
16 involved both in providing data for, and
17 utilizing data from an exchange?

18 Or, you know, something like that
19 that, you know, providers and users? Or were
20 there additional concepts that you all had under
21 availability that you feel like needs to be

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1 included?

2 MS. BAL: Sorry, Mark. Just
3 clarification. Unfortunately there was a lot of
4 ideas. And so we actually do have it on two
5 pages.

6 If you want, we can move these two to
7 the other page so you can see all six of them
8 together.

9 CO-CHAIR KAUSHAL: Poonam, my sense
10 is that all of them -- you can go ahead and flip
11 to the next slide.

12 But my sense is they all follow a
13 similar theme. Which is it's about using, or
14 providing data, and it's different people.
15 Different stakeholders doing it.

16 Which is why I was wondering if we
17 could summarize it as stakeholders providing and
18 using data?

19 CO-CHAIR SAVAGE: So I think then yes.
20 You could generalize. We did it that way because
21 we were working with individual user groups.

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1 You could generalize it to say that
2 that's the -- that needs to be the case.
3 Everybody needs access to the health information
4 that they need.

5 I'm going to pause for a second and
6 reflect on the social determinants of Health One
7 to see if it's the same way.

8 CO-CHAIR KAUSHAL: I think that the -
9 - I think the concept, if you could go back for
10 a second. I think that the concept this morning,
11 earlier in the morning when we discussed this,
12 was that social determinants could fall under
13 data breath.

14 So data sources, completeness,
15 comprehensiveness, and breath. That social
16 determinant information is another type of data
17 source.

18 CO-CHAIR SAVAGE: All right. So, I'd
19 say logically, yes. As somebody who's trying to
20 move the needle in the area, this is an area where
21 it's important to call it out and name it. So

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1 that people are actually thinking about it.

2 Sort of like how we keep -- we are now
3 saying, we don't just mean clinical care, we're
4 also thinking of -- we're thinking of care in the
5 patient's home. Because we need to call that
6 out.

7 At some point it will become routine.
8 Social determinant is not routine yet. So that's
9 why I think there's value in lifting it out and
10 naming it.

11 CO-CHAIR KAUSHAL: So, that's one
12 suggestion then. We should go around the room.
13 Vanessa, maybe what we do is after data sources,
14 we specifically call out, in parenthesis, social
15 determinant.

16 And one other suggestion, which is key
17 stakeholders providing data and using data in
18 exchange. And again, there in parenthesis,
19 perhaps calling out patients and families and
20 care givers. So, including patients and families
21 and care givers.

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1 Yes. Let's do it.

2 CO-CHAIR SAVAGE: Okay. Mark?

3 MEMBER FRISSE: I'm not sure this
4 makes the list. But it's to me something about
5 questions you ask about the process as you do it.

6 And it's a snake hole. And that is,
7 how do you authorize other users in the family
8 and delegate? Again, that's more of a question
9 about the exchange per se.

10 But I always wonder about that. And
11 I don't think -- and in all the background of all
12 these other technical requirements, one would be
13 clearly authorization and then ideally delegating
14 tasks.

15 So, I don't want -- I don't think it
16 belongs out here in the front. But nevertheless,
17 I think it's important.

18 CO-CHAIR SAVAGE: Terry?

19 MEMBER O'MALLEY: Thanks. Just
20 thinking on social determinants. And sort of --
21 that's an issue that extends well outside of the

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1 current electronically enabled healthcare
2 system.

3 Because getting that information is
4 more likely to be derived from people who are not
5 on electronic health systems. Is that fair to
6 say?

7 CO-CHAIR SAVAGE: Two observations
8 that bring it much closer in time, even to the
9 present. I'm -- as I mentioned yesterday, I am
10 going to site visits, ten different communities.
11 They are bringing in data from non-clinical
12 settings into clinical EHRs.

13 The second thing I'd say is that the
14 2015 addition of Certified EHR Technology has a
15 criterion that's been -- was announced back in
16 2015 that went along with patient generated
17 health data. You can bring in non-clinical data.
18 And it named eight different fields.

19 So, yes, it is more forward looking
20 than many things. And yet it's a -- it's
21 eminent.

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1 MEMBER O'MALLEY: So, my comment on
2 that then is, do we need to explicitly call out
3 the fact that we're going to accept, as part of
4 under the data quality piece and data breath, are
5 we going to accept sort of electronically
6 transmitted non-standard space information?

7 You know, will we take a fax? Will
8 we take a pdf? Will we take a secure email from
9 someone that actually has a list and a text blob
10 of social determinants?

11 Is that sort of in scope? Out of
12 scope? How -- you know, for a measure? Are we
13 going to put a limit on that? Or are we just
14 going to say, let's leave it blurry and let it
15 sort itself out.

16 CO-CHAIR SAVAGE: Speaking for
17 myself, I'm not sure that that's just specific to
18 social determinants of health. There's a lot of
19 -- right.

20 So, I -- and it was mentioned
21 yesterday, do we -- you know, the notion of a pdf

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1 is better than nothing.

2 I think when we're looking at what
3 measure is developed, to meet the needs of the
4 measure concept, some may -- some measures may
5 actually look at that. And others may not look
6 at that.

7 I think that's probably at the actual
8 measure develop is where that may come in.

9 CO-CHAIR KAUSHAL: Can I ask a
10 question? If we did data sources both clinical
11 and non-clinical, does that start to better
12 incorporate the multitude of non-clinical data
13 sources?

14 CO-CHAIR SAVAGE: Yes.

15 CO-CHAIR KAUSHAL: So the -- after
16 data sources, Vanessa, to take out social
17 determinants. But instead say, both clinical and
18 non-clinical. Or we could even call it social
19 data sources.

20 But, -- do non-clinical for now. And
21 then we can fuss with it later.

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1 CO-CHAIR SAVAGE: Bill?

2 MEMBER RICH: Yes. Just I agree with
3 the multiplicity of inputs for social
4 determinants. And to go back to Mark's point,
5 it's one I raised yesterday.

6 And that is, it's very, very sensitive
7 when you deal with the elderly or people with
8 multiple chronic conditions. A lot of family
9 members make inquiries all the time. And Bruce
10 must deal with this also.

11 And it's very hard to kind of figure
12 out the rules under HIPAA. Who you can talk to
13 and who you can't.

14 So, I just want to reflect that it's
15 actually a very complex issue. But one that's
16 really needed to deal with people with multiple
17 conditions.

18 One question. I don't understand the
19 bullet, percentage of applicable standards being
20 used where an applicable standard is one that is
21 nationally recognized and its domain is part of

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1 the exchange occurring at the organization.

2 Help me. Yes.

3 MEMBER WALDREN: I thought that was
4 much clearer than availability. But I guess not.

5 (Laughter.)

6 MEMBER WALDREN: So, this is me being
7 super wordy, trying to put it into one sentence.

8 So, the intent would be that you first
9 need to -- so there's going to be this set of
10 nationally recognized standards. Right?

11 And you can define what that means.
12 You can say there's the ISA. And say okay that's
13 -- has enough gravitas to say that it is. Or,
14 is it, has to be something else. But -- so, we
15 didn't get into that space.

16 The next though was saying okay, well,
17 what if you never exchange medications? Should
18 you be dinged for never using RxNorm? So the
19 intent was saying, is it applicable?

20 So there the intent was that if you
21 exchange something in the domain of that

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1 particular standard, then it's applicable. So
2 that was the intent of the second part of that
3 sentence.

4 So you can see that if you were trying
5 to implement this in a very piss-poor way, you
6 could have a survey that said, for RxNorm, one
7 question, do you exchange medications
8 information? If you checkmark that as yes, then
9 it's applicable to you.

10 Do you use RxNorm? Yes. Okay. Then
11 you would be in the numerator. If you didn't,
12 then that would be in the denominator. That was
13 the intent.

14 MEMBER RICH: It's a really broad
15 statement. And maybe a narrow example would be
16 appropriate. As you're dealing with this
17 exchange of data, it's in all different forms.

18 And what is a standard form? I don't
19 know. That's a recognized one.

20 But that language you're reading, it
21 could be broadened to apply to many, many

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1 different data sources. And an inability or
2 unwillingness to transmit that data.

3 So I think that a further definition
4 or example of a national standard, I think would
5 help. Because I think anyone that reads that
6 will be more confused than I was.

7 CO-CHAIR KAUSHAL: I'm really --
8 there's a lot of tents up. I'm going to do a
9 time check to get a sense of how it's going to
10 help us to proceed.

11 So we have about 45 minutes. We have
12 -- and we can take some time out of the afternoon.
13 We have three more domains that we want to cover.

14 And there are some new concepts that
15 have been introduced in this that we haven't
16 really fleshed out at all. So for example, data
17 blocking wasn't something that we talked about a
18 measure concept for yesterday.

19 So, I guess I'm polling the group to
20 see, would we like to spend another five or ten
21 minutes on this domain? Particularly fleshing

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1 out the newer concepts in this. Or do people
2 think we should move onto the next one and come
3 back if we have time?

4 Five to go -- great. So keep going.

5 CO-CHAIR SAVAGE: Yes. Frank?

6 MEMBER OPELKA: Hans is speaking for
7 all of us with our tents up.

8 CO-CHAIR SAVAGE: Hans?

9 MEMBER BUITENDIJK: Oh, I thought
10 Frank was first.

11 MEMBER OPELKA: No. It was a
12 commentary.

13 CO-CHAIR SAVAGE: Sorry.
14 Misunderstood.

15 (Laughter.)

16 MEMBER OPELKA: Yes. So when I look
17 at this exchange, to me it's more like this is a
18 send/receive question.

19 I'm interested in what are all the
20 data sources that you have that may want to have
21 send and receive. And what format are they in?

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1 So what version of HL7 are we working with?

2 And then, are you capable of
3 send/receive messaging? And how are you capable?
4 Are you capable through CVAs? Are you capable
5 through Fire APIs?

6 Are you able to deal with open source
7 SOHA? What other architectures are there that
8 we can exchange data? So this is more on the
9 technical side of things.

10 And then when you get down into some
11 of these more descriptive elements of the actual
12 and use cases in exchange, I look at -- if we
13 look at EHRs, there's 50 thousand some fields
14 there.

15 We don't need to exchange. And
16 shouldn't be worried about exchanging 50
17 thousand. What's the top thousand? And what
18 are those elements that are -- that we can
19 prioritize?

20 And we ought to say that those things
21 are commonly needed, commonly exchanged. Such

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1 as the patient's identification. Such as the
2 social determinant to help whatever those things
3 are.

4 But, first understand these
5 structural elements. Who are you? And are you
6 capable? And can you talk to multiple different
7 data sources?

8 Not just EHR to EHR. Because this
9 world is much bigger than that now. Can you talk
10 to these other data entities that are important?

11 And then what are these top areas that
12 we want to exchange? And can we list all of
13 those?

14 Because I look at some of these that
15 are on here, and I think to me they're -- many of
16 these belong in other categories. They're not
17 specific to the exchange function.

18 CO-CHAIR KAUSHAL: Can you pull out,
19 Frank, a couple of those that you think actually
20 belong in a different category?

21 MEMBER OPELKA: Do you --

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1 CO-CHAIR KAUSHAL: This is a whole
2 list right now.

3 MEMBER OPELKA: Oh. Well, then it's
4 been edited some. Okay. I'll look at it while
5 Hans is going.

6 CO-CHAIR KAUSHAL: And Frank, the
7 other thing I'd ask you to look at is, I feel
8 like we have some of the concepts that you are
9 suggesting. But in various sorts of orders.

10 Like I think yesterday when we were
11 doing this, we were talking about having the
12 stakeholders first. And then things about the
13 data next, and so on.

14 And so, it would be helpful to know if
15 it's just a question of ordering? Or whether
16 it's a question of entire concepts being missing.
17 Or misplaced. You know, all those issues.

18 So, Hans?

19 MEMBER BUITENDIJK: Building on that,
20 is that there are, I think, two that can be
21 combined. If I understand the discussion

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1 correctly. And two that can be partially
2 combined and partially moved.

3 Data sources and key stakeholders.
4 Those sound very similar depending on who I'm
5 hearing talk about that. But they still seem to
6 be very similar.

7 In that we're trying to find out if
8 all the different places where I can get data
9 from that are interesting to me because of my
10 patient population. Am I connected with them?
11 And in what way?

12 So, I think if we can combine data
13 sources and key stakeholders on the part of --
14 and then I would -- I'm actually reading the first
15 comma after data sources to be a semicolon.

16 And it says that I'm looking at
17 completeness, comprehensiveness. How many of
18 those am I electronically engaged with? And how
19 many am I paper or otherwise engaged with?

20 That's what I'm trying to get to. All
21 the providers that are referring to me. Or the

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1 providers that I'm referring to as an example.

2 So I think data sources and key
3 stakeholders part one, can be combined that way.
4 Key stakeholders part two --

5 CO-CHAIR KAUSHAL: Hans, I'm going to
6 have you hold just for a second. Because I think
7 this is an important concept.

8 Vanessa, I actually -- I think what
9 Hans is suggesting is to change this bullet into
10 data completeness, comprehensiveness and breath.
11 And take out sources from here all to --

12 MEMBER BUITENDIJK: No. No, I was
13 not suggesting that.

14 CO-CHAIR KAUSHAL: Oh, you weren't?
15 Okay. I'm sorry. Because I misunderstood you.

16 MEMBER BUITENDIJK: No. I think this
17 way -- this way is actually clearer, I think.
18 Because I'm looking at the parties that I'm
19 interacting with, given my patient population.

20 And of that population that I'm -- the
21 partners that I'm dealing with, how many of those

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1 am I electronically engaged versus paper or
2 otherwise?

3 So, am I complete -- is it the
4 complete set? Comprehensive? That's how I
5 started to interpret the data sources. And then
6 if that's indeed what was meant with data
7 sources, I can combine key stakeholders and data
8 sources in that way.

9 CO-CHAIR KAUSHAL: Oh, I see. So
10 you're suggesting combining key stakeholders with
11 data sources. Would you still have a separate
12 bullet on key stakeholders to get to the concept
13 of use?

14 MEMBER BUITENDIJK: That was part
15 two. I would suggest that's more on the use.
16 I'm now sitting in the use domain as opposed to
17 the exchange domain.

18 So that one I would make sure it's
19 addressed in use. So key stakeholders goes
20 partly up and partly out.

21 CO-CHAIR KAUSHAL: Okay. So, can you

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1 -- Vanessa, can we do this? Can you just do a
2 strikethrough for a second? Because I think we
3 need to discuss this.

4 But do a strikethrough of that. And
5 then under data sources, instead of all, just
6 change the word all to key.

7 And I think that what we should do is
8 react to this before we continue around with the
9 people who have their tents up.

10 MEMBER BUITENDIJK: Yes. And then I
11 have a second one to do something similar. But,
12 we'll come back to that after they respond.

13 CO-CHAIR KAUSHAL: Okay. So perhaps
14 we can start with this. Comments, reactions to
15 this?

16 Okay. We're great. Go to point
17 number two.

18 MEMBER BUITENDIJK: Okay. On the
19 level of structure, syntax and semantics, and the
20 percentage of applicable standards, et cetera.
21 If we were to say level of structure syntax and

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1 semantics according to applicable standards.

2 Would that combine sufficiently? I
3 think within that, we can deal with for a
4 particular capability, are we using the
5 appropriate semantic standards? Syntactical
6 standards and otherwise?

7 I'm curious whether if you do --
8 according to applicable standards, would that
9 catch the essence of both? That bullet and the
10 last bullet?

11 CO-CHAIR KAUSHAL: So then do a
12 temporary strikethrough of the last bullet. And
13 Tess, you've talked a lot about standards over
14 the last couple of days.

15 So I'd love your sense of whether or
16 not this suffices in your mind.

17 MEMBER SETTERGREN: I think as a broad
18 concept that probably would cover what we were
19 talking about in the group. Steve may disagree
20 with me.

21 Because we really got into a little

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1 bit more detail. But I also think we have the
2 opportunity with, you know, as we flesh out a
3 little bit more, what we mean by the concepts to
4 measure.

5 That maybe we can add some to this to
6 add some clarity.

7 MEMBER WALDREN: So, I mean, I would
8 be comfortable with the change. I think the one
9 thing though that it eliminates is the measure of
10 semantic exchange where there's not an applicable
11 standard.

12 So, if -- you know, so again, I mean,
13 and we talked about applicable standards. So if
14 it's not nationally recognized, so, you know, for
15 example, the API.

16 So let's say that you as a vendor put
17 together an API. Well documented. Highly,
18 highly structured. More structured than any
19 nationally recognized standard.

20 But there's not a national standard
21 for that particular data source. We would --

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1 we'd miss that in this.

2 But I'm comfortable with that. But I
3 can see that as a miss.

4 CO-CHAIR KAUSHAL: So Steven, how
5 about if we do according to applicable standards
6 if available? Or according too available
7 applicable -- you know, something like that.

8 Available -- applicable standards if
9 available?

10 MEMBER WALDREN: Well, I'm fine with
11 it as is.

12 CO-CHAIR KAUSHAL: As is. Okay.

13 MEMBER WALDREN: But I'm -- that was
14 my only point. That -- and again, we didn't put
15 national standards.

16 But, again --

17 CO-CHAIR KAUSHAL: It's okay.

18 MEMBER WALDREN: It's a small
19 problem.

20 CO-CHAIR KAUSHAL: Okay.

21 MEMBER WALDREN: So, I'm fine with it.

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1 MEMBER BUITENDIJK: And in that
2 situation, is that where -- let's say is that the
3 API in Steve's example is using Fire, everything
4 else. Got there. But for the semantic part it
5 uses a local coding system.

6 Then I would hope that the measure
7 that we define for that would ding that
8 particular part on, well, it's great. Eighty
9 percent there, but 20 percent missing because
10 it's semantically not exchangeable. Because we
11 now have to figure out what it means.

12 I think we still could get there. And
13 on the national, yes. It should be national
14 standards. Otherwise, you and my standard might
15 be completely different. And that's not what we
16 want.

17 CO-CHAIR SAVAGE: So trying to move
18 on to stay on time. David?

19 MEMBER HIRSCHORN: There was a point
20 up there about giving patients access to their
21 information from the EHRs. I'm trying to

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1 remember what slide that was on.

2 That was on the next slide, or if it
3 got --

4 CO-CHAIR KAUSHAL: The slide is now
5 gone. It was -- it was the next slide after
6 this. It was one of the availability measures.

7 MEMBER HIRSCHORN: Okay. So that's
8 where I was and my comment was pertaining to.
9 So, am I jumping ahead going there?

10 CO-CHAIR KAUSHAL: Why don't you go
11 ahead and make it.

12 MEMBER HIRSCHORN: Okay. I just
13 wanted to point -- to reiterate the point, as
14 something that we see from the medical imaging
15 community is that not all of your data is in the
16 EHR.

17 And you know, the imaging reports will
18 be, but the pixels are not. And to not forget
19 about that part when you're making data available
20 that it's not all in EHR. There's other sources.

21 The EHR will say sure, we integrate

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1 with your imaging system. We have a seamless
2 link. Yes. But when another party says I want
3 data, or a patient says I want all my data.

4 Then EHR says well, here's all your
5 data. And they say what happened to my imaging
6 data? And it says well, I integrate with it.

7 I said, no. But I asked you to
8 exchange it. So, I don't exchange it. That's
9 not my data. That's someone else's that I
10 integrate with. But that's not mine.

11 You know, so to not forget that
12 there's -- there's always been this distinction
13 in the silo between your imaging data and
14 everything else.

15 And I'm sure there may be other
16 exceptions to the rule as well. But I know that
17 imaging data is a big exception to that. That
18 it's not in the EHR. The EHR plays nicely with
19 it.

20 But when ask the EHR to exchange
21 information, it says that's not my job. Because

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1 that's not my data.

2 CO-CHAIR KAUSHAL: Yes. No, I hear
3 you. One -- what we could do, is under data
4 sources, have a third qualifier. And that be
5 images in specific.

6 I think you know, the things that I
7 think this relates to, it's images and EKGs
8 primarily. Maybe some biopsy specimen too.

9 MEMBER HIRSCHORN: Well a lot of EHRs
10 will put EKGs in as pdfs or something else. You
11 never know if they'll take that in.

12 But they won't take, you know,
13 petabyte of imaging data.

14 CO-CHAIR KAUSHAL: So maybe in the
15 interest of time, Alan, are you reacting to the
16 -- great. Go ahead.

17 MEMBER SWENSON: Yes. Well, it just
18 seems like some of this is already covered --

19 CO-CHAIR KAUSHAL: Give us a
20 solution.

21 MEMBER SWENSON: Under completeness.

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1 Right. I mean, if it's available, it should be
2 exchanged.

3 If it can be exchanged, now there's
4 some of that is an issue of there aren't
5 necessarily standards to do image exchange. And
6 there are standard bodies that are working on
7 that kind of stuff.

8 But if it can be exchanged, it should
9 be exchanged under the completeness.

10 MEMBER HIRSCHORN: Okay. I mean, the
11 standards certainly exist. They haven't been
12 implemented.

13 CO-CHAIR SAVAGE: Vaishali?

14 CO-CHAIR KAUSHAL: So -- I know that
15 there's several tents up. It's noon. So, I
16 would ask you if it's a can't live unless I make
17 this comment, type of comment. Or if it's
18 something -- oh, there we go. I'm getting more
19 tents.

20 And I am going to make a request on
21 behalf of Helen, who doesn't even know I'm doing

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1 this. Which is, data blocking doesn't -- hasn't
2 been fleshed out yet.

3 And so, if you're making a comment and
4 it feels important, great. Do it. And if you
5 have a comment to make on data blocking, let's do
6 that.

7 And then maybe we can wrap up in the
8 next three or four minutes.

9 DR. PATEL: So just this is more of a
10 question to be raised. You know, when we in ONC
11 measure exchange, we look at key concepts that
12 relate to sending, receiving, being able to query
13 or find data and integrate data.

14 So those four key concepts are how
15 we've been measuring exchange. And so, do we
16 think that that is -- exchange is adequately
17 measured by the -- and by that first measure?

18 So of those patients where care was
19 shared, the percentage of patients who had their
20 information exchanged? I just -- raising a
21 question, do we think?

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1 Because that's the only real measure
2 that I see of exchange. Actual exchange. A lot
3 of these other pieces are more contextual.

4 So, in terms of, you know, also going
5 to John Blair's point earlier. Like, you know,
6 in terms of volume. Looking at pieces of
7 information. Making sure that there is
8 information that is flowing.

9 I just want to make sure that we're
10 all comfortable with the fact that that is the
11 only measure of actual exchange activity.

12 CO-CHAIR SAVAGE: Mariann?

13 MEMBER YEAGER: I was going to comment
14 on data blocking.

15 CO-CHAIR KAUSHAL: So, I'm going to
16 ask for --

17 MEMBER YEAGER: Would you prefer me
18 to hold that?

19 CO-CHAIR KAUSHAL: Yes. If you could
20 just hold it just one second.

21 MEMBER YEAGER: Okay. Um-hum.

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1 CO-CHAIR KAUSHAL: Any comments to --
2 Jason?

3 MEMBER SHAPIRO: Yes. You know, it
4 might be implied that if it's exchanged it's
5 accessed and used. But, maybe that should be
6 made explicit.

7 Because we know that usage, even
8 though the exchange might exist, is often very
9 low.

10 CO-CHAIR KAUSHAL: So, one -- maybe
11 you have a suggestion. I was going to proffer a
12 suggestion.

13 It strikes me that the phrasing of
14 this measure concept is much more granular than
15 some of these other areas. And maybe we just
16 roll it back up.

17 And we do, you know, something around
18 availability of info -- of exchanged information.
19 Or some other type of volume measure. Yes? Can
20 somebody take this?

21 Can you take this and run with it? I

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1 got a nodding head. So, I --

2 I think that the -- I think there's
3 two concerns. I think there is one concern is,
4 is that this is the only measure now around volume
5 of data that is being exchanged.

6 And then I think the second concern
7 is, is that this measure as stated, doesn't get
8 to whether or not that is actually available data
9 once it has been exchanged. Is that what you
10 were trying to say, Jason?

11 MEMBER SHAPIRO: But it's actually --
12 it actually winds up getting used. That it gets
13 accessed and used.

14 MEMBER ADLER-MILSTEIN: So I think if
15 we do the data sources measures right, that's
16 where this comes back in. Like completeness will
17 be a measure of exch -- a volume of exchange.

18 I just think if we phrase that one so
19 that it feels like that. But I think that
20 something other --

21 DR. PATEL: I thought completeness

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1 was more like whether the information being sent
2 was complete. Like, I think Jason, you had
3 brought up an earlier point that like when you've
4 done a data run, like some pieces of information
5 are just not complete.

6 So, I --

7 MEMBER ADLER-MILSTEIN: But isn't a
8 measure of exchange --

9 DR. PATEL: Is that a measure of
10 exchange? Or that's just a measure of like the
11 -- I don't know. I mean, I guess complete -- you
12 know, just figuring out what the completeness
13 means, you know.

14 MEMBER ADLER-MILSTEIN: That's what
15 it means.

16 CO-CHAIR KAUSHAL: Let me make -- let
17 me make two suggestions. And then we can decide
18 that we don't like them.

19 One suggestion would be replacing the
20 first bullet with volume of health information
21 exchange. And leaving it agnostic as to how

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1 we're going to measure that.

2 And then the second would be, we have
3 eliminated the concept of key stakeholders who
4 are potentially using the data. So, maybe in --
5 maybe that just goes over to use or usability.
6 Or maybe there's a bullet here around, you know,
7 potential key stakeholders who can use.

8 So, let's do this, Vanessa. Do a
9 strikethrough on the first one. And just replace
10 it with volume of health information exchanged.

11 And then for -- Vaishali, you have a
12 comment on the second, the user piece.

13 DR. PATEL: I forget where -- I did
14 have a comment. And then I forgot.

15 The second part of what you were
16 saying was that --

17 CO-CHAIR KAUSHAL: I think --

18 DR. PATEL: Oh, the usage. Oh, the
19 usage piece.

20 Is that then as we know from, you
21 know, a lot of the research that your team has

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1 done and others. That, you know, information of
2 this exchange is not -- is actually pretty rarely
3 used at this point.

4 So we do want to measure those as two
5 distinct concepts. And I think the usage one
6 will go under the usage bucket.

7 And there here is where you'd want to
8 measure whether the piece of data was exchanged
9 or not.

10 CO-CHAIR KAUSHAL: Okay. We're
11 getting nods. So, we'll take that. And then
12 should we -- let's do a quick run through on
13 tents. And then we're going to break for lunch.

14 So, that should be an incentive.

15 CO-CHAIR SAVAGE: Okay. Mariann?

16 MEMBER YEAGER: I'll be concise. So,
17 I was hoping to provide a little more context
18 around the concept around data blocking.

19 And we typically look at that in terms
20 of discriminatory practices. So, one example
21 would be, the number of instances or percentage

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1 of the time that data were unavailable due to
2 unfair or unreasonable conditions that would
3 limit exchange or entrap ability from another
4 data sharing partner.

5 That will be -- and that --
6 differentiate that from barriers or technical
7 limitations that impeded exchange. So, I think
8 image exchange is a wonderful example where there
9 are international standards.

10 They've been deployed rather broadly
11 with PACS and RIS systems. Not really have a
12 recipient on the other end.

13 So, in the nascent stages of enabling
14 nationwide image exchange but can't do it today,
15 the data exists. It's just not accessible.

16 So is that data blocking in our world?
17 It's not nefarious. It's not discriminating and
18 imposing unfair practices. It's merely an
19 impediment.

20 So, I wonder if that would be helpful
21 to distinguish the two.

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1 MEMBER RICH: Can we just defer to the
2 ONC definition of data blocking? I think that
3 covers Mariann's.

4 It's not the same. You're right Hans.

5 MEMBER YEAGER: Their definition
6 would apply. But this would be a way to measure
7 the number of instances or percentage of time.

8 And also getting a little bit more
9 granular on what it means. Because it's a
10 governmental definition, it's rather broadly
11 writ.

12 But if we can get into, it's around
13 discriminatory practices where you treat one
14 trading partner a certain way, and you treat
15 another trading partner who's similarly situated
16 a different way. And it's fair and unreasonable
17 conditions.

18 So, in that it's sort of subjective.
19 This measure to me, feels subjective. Because
20 you're asking the party who feels that they were
21 discriminated against to report the instances of

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1 that. Or you know, like, you know, percentage
2 of time or what's occurred, but.

3 MEMBER RICH: To help facilitate
4 this, it may be a good idea. I totally agree
5 with what Mariann said.

6 And Hans did educate us. They're
7 different between the ONC and the 21st Century
8 Cures. Since we don't know what the regs, how
9 they're going to define it, maybe if you just
10 leave it open as it is.

11 Take Mariann's as an example in a
12 footnote or something like that? I don't know.
13 I'm just trying to further the discussion.

14 CO-CHAIR KAUSHAL: So, I think the way
15 that it's now with the parentheses works well.
16 It's just a couple of examples.

17 And I think it's still open for
18 discussion.

19 CO-CHAIR SAVAGE: David? In a
20 nutshell, hopefully.

21 MEMBER KAELEBER: Yes. I guess it's

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1 sort of more like a point of order question. I
2 mean, I find the discussion really helpful.

3 But I'm trying to figure out like,
4 it's hard for me to see where does all this go
5 like in the next couple of hours? In the next
6 couple of weeks?

7 It's hard for me to sort of figure
8 out, do I really want to be knit picking with all
9 these different words? I don't know if you guys
10 can comment on that now?

11 If that's something like when we come
12 back from lunch? But like just so that I can
13 sort of participate fully and add value.

14 CO-CHAIR KAUSHAL: Yes. I -- no, I -
15 - here's my reaction. And then Jason and Poonam,
16 I'll turn it over to both of you.

17 My reaction is that we're getting too
18 detailed. Because we are trying in the next hour
19 or so to -- well, it needs to be next 15 or 20
20 minutes to get through three more domains.

21 So, it would be good to get your lay

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1 and Poonam's lay of what the rest of the afternoon
2 should look like. But, yes, I agree. I think
3 we're too detailed.

4 MEMBER KAELBER: I'm also just trying
5 to understand. I mean, how does this process
6 that we're doing right now, how does it fit into
7 sort of what the rest of this committee is doing?
8 Not just today, but sort of over the course of
9 the committee?

10 MR. GOLDWATER: No. I think the
11 point of this particular exercise is to establish
12 some higher level measure concepts related to the
13 domains and subdomains that you all talked about
14 that indicate an either current gap that exists
15 in the ability to measure interoperability.

16 Or something that could be done
17 better. And that when a developer is able to
18 look at this, can take this and create a measure
19 from it.

20 So you do want to avoid being overly
21 prescriptive and overly detailed. You're trying

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1 to provide a high level concept that sort of
2 identifies as, as we talked about yesterday, sort
3 of a general population, a general framework that
4 somebody could take a build a measure from.

5 And so, when we get back from lunch,
6 you know, we'll spend the remaining hour or so
7 going through those concepts.

8 And then turn our attention to actual
9 measures that you've evaluated to see when the
10 framework is released, there's a list of concepts
11 under all of these subdomains and domains. And
12 then there's a list of measures that you viewed
13 as being interoperability sensitive that people
14 could use.

15 How it will inform the rest of this
16 committee's work is, once this is done, you know,
17 our job then is to go back and create a report
18 that's reflective of what you all have discussed.

19 And to share it with you to ensure the
20 fact that we're representing what your points of
21 view are. And that we are getting close to a

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1 point where we are reflecting your ideas, your
2 concepts, your decisions about what is important
3 to be measuring interoperability and how to do
4 it.

5 And that by the time we get to the end
6 of the project, we have a very firm framework
7 that will be released for people then to take and
8 start building measures from.

9 CO-CHAIR KAUSHAL: And Jason, can I
10 have your sense of the rest of this afternoon and
11 how much time we can spend on the other three
12 domains?

13 MR. GOLDWATER: So I think Poonam and
14 I just had a sidebar off of this. So, we were
15 going to have a discussion, sort of the criteria
16 for developing measures.

17 And I think we're probably going to
18 eschew that for today. And spend, you know, the
19 next hour and 15, hour and a half after lunch
20 going through and finalizing the measure
21 concepts.

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1 And then spending, after a short
2 break, the remainder of our time together going
3 through the measure exercise and the measures
4 that we develop. Because I think from our
5 team's standpoint that's what we really need to
6 make sure that we can go back and create the
7 report.

8 And I said this yesterday, and I'll be
9 reemphasizing it. That we have to create
10 something that's reflective of what you've
11 discussed.

12 Not anything where we are thinking
13 about, well, what should we put in here? If we
14 have a discussion about what should we put in
15 here, then something's gone wrong.

16 We need to make sure we have
17 everything that we need.

18 CO-CHAIR SAVAGE: Hans, is it
19 something that needs to be said?

20 (Laughter.)

21 MEMBER BUITENDIJK: Otherwise the

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1 card would not be up.

2 CO-CHAIR SAVAGE: Thank you.

3 MEMBER BUITENDIJK: No, a very short
4 note. It's not on the list itself. But the
5 domain space that I think from the conversation
6 some of the examples that we had that, and it
7 might be appropriate for the report more than
8 that it reflects right now.

9 We use the term exchange. And with
10 the examples that are being used that frequently
11 it mostly seems to them imply that data is
12 actually moving from one place to another.

13 There isn't a concept of access.
14 Which I think is very much to be part of exchange.
15 But not to lengthen the names here, where data
16 remains where it is and it's accessed by means of
17 API use or otherwise.

18 Imaging and other ones maybe prime
19 examples for that. Where you just don't want to
20 move that much data all the time to everybody and
21 duplicate it.

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1 So, I just want to make sure that
2 through our conversations that to use the term
3 exchange interchangeable with access as well.

4 And that we don't care whether it
5 actually physically moves all the time or not.
6 Whether I copy it or not. That should be
7 immaterial.

8 And that might be helpful as we dive
9 into the measures. To make sure we're not going
10 to be stuck on just copying data.

11 CO-CHAIR KAUSHAL: Great. So, I
12 think what we've done is we've added the word
13 access right up top.

14 Frank?

15 MEMBER OPELKA: Yes. I was listening
16 to the conversation earlier. And to me the
17 conversation became confusing when we said, we
18 only have one measure. Of one particular type.

19 None of these are measures in my mind.
20 These are concepts. And within the concepts,
21 there maybe multiple measures.

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1 So, when I looked at one of these that
2 was accused of being only one measure, I saw five
3 or six. And it struck me as why are you only
4 thinking of that as one?

5 So, -- and I don't necessarily know
6 that volume is the right fix. I understand the
7 fix that's being intended there.

8 But, somewhere along the lines of a
9 concept, not a measure, for the reasonable
10 availability of data to be exchange in an
11 established format with an appropriate
12 stakeholder.

13 And again, we keep getting stuck in
14 this rubric of EHR to EHR. It's a bigger world.
15 And just dealing with radiology and imaging,
16 that's one demonstration of a bigger world.

17 But, there's a lot more care that will
18 be directed from registries. So how are you
19 talking EHR to EHR in volume exchange? How are
20 you talking with imaging?

21 How are you talking with registries?

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1 How are you talking with mobile devices? How are
2 you talking with other service oriented
3 architectures that are out there? There's a
4 whole world that's emerging, taking care of
5 patients.

6 And we've got to know that we have
7 access or exchange for that entire environment.
8 And there alone on just once concept, you could
9 have five or six measures.

10 CO-CHAIR KAUSHAL: So Frank, one
11 question for you. Which is instead of saying
12 volume of health information exchanged -- I think
13 that some of your concepts about non-clinic --
14 non-EHR data sources is included in the phrasing
15 we were trying to capture around data sources.

16 And that can certainly be tweaked. I
17 also think though that the point that you're
18 making about volume of health information
19 exchange being too narrow or too imprecise is
20 accurate.

21 So, what I'm wondering about is there

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1 something -- is it some sort of quantity of
2 available health information being exchanged?

3 Is there some -- is there nuance there
4 that we should quickly try to incorporate? Or
5 what would you suggest?

6 MEMBER OPELKA: So again, I'm not
7 trying to write the measure. I'm trying to write
8 the concept.

9 So the concept was, a reasonable or
10 avail -- or appropriate data for exchange. When
11 you write the measure, you can narrow it further
12 to define what is reasonable and appropriate.

13 So, I mean, volume is okay. It's just
14 a bigger term. I was just trying to narrow down
15 volume conceptually so that whoever the measure
16 developer, he or she is, when they're looking at
17 that, they're going to say, I need to define that
18 what's reasonable in this particular exchange
19 that I want to measure.

20 CO-CHAIR KAUSHAL: But -- self too.
21 Volume of reasonable an appropriate health

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1 information data exchange.

2 Don't do that. Okay.

3 MEMBER BLAIR: Yes. I think that
4 they're separate.

5 CO-CHAIR KAUSHAL: Go on.

6 MEMBER BLAIR: They're se -- I think
7 volume is one. It's a crude measure. Now
8 obviously reasonable and appropriate, you want
9 that. And the more reasonable and appropriate
10 of the volume.

11 But we're talking about step one, step
12 two and moving on.

13 CO-CHAIR KAUSHAL: I got it. So
14 these are two separate bullets Vanessa. Okay.
15 Terrific. Thank you.

16 MEMBER SWENSON: Isn't reasonable and
17 appropriate already covered under usability?
18 Like we're now talking about the volume of get
19 the information exchanged. And now, is it
20 usable?

21 Like those are already parts of

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1 feasibility.

2 CO-CHAIR KAUSHAL: Hans is shaking
3 his head no.

4 MEMBER BUITENDIJK: I don't think so.
5 Not that there is not part of it in usability.
6 But this is on the side of the sender deciding
7 effectively how much am I going to send to the
8 other party.

9 So, are they providing you with the
10 right amount of information or not? And then on
11 the other hand, there is the confirmation that
12 yes, I did or I did not send it.

13 So, I think there's two parts to it.

14 CO-CHAIR SAVAGE: So, many cards went
15 down. I see two cards up. Jason, is this
16 something that you want to say?

17 MEMBER BUCKNER: Well, my cards up
18 isn't it? I pulled that from Hans.

19 (Laughter.)

20 MEMBER BUCKNER: Now, I think my
21 comment -- I was trying to wrap in what Jason was

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1 saying. And I really like the first one that got
2 zapped out.

3 And I think that's where we're kind of
4 landing. Is, measuring how much happened with
5 the volume is important. And it's an easy one
6 to do.

7 But, that other one is like, how much
8 of your patients that you -- where care was
9 shared, are you getting? Right? So of the
10 ecosystem of data out there, how much of that are
11 you grabbing?

12 And so, again, I don't want to dive
13 too far into measures. That volume is a high
14 enough level concept that you can spin off that
15 first item and several others from it. Great.

16 I'm not the wordsmith here. But I
17 want to make sure that it represents more than
18 just, I sent five million records.

19 CO-CHAIR SAVAGE: Okay. I see John
20 and Terry. And then we'll call it a cl -- lunch
21 time. Terry?

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1 MEMBER O'MALLEY: Okay. I have two
2 comments. One is, it's almost time for lunch.

3 (Laughter.)

4 MEMBER O'MALLEY: And the other one
5 is, in a sense reasonable and appropriate is
6 defined by the user.

7 You know, do you have the information
8 that I need? Because if you have it, then it's
9 reasonable to expect you to have to exchange it.

10 But, the goal for the sender, and this
11 is a -- so it's a sender metric, it's in a sense,
12 what percent of the information do I have control
13 of that is available for exchange at this point?
14 Because it meets standard. It's in the right
15 format. I can get a hold of it.

16 I don't know if that helps or not.
17 But it's focused on what the sender has control
18 over here. Recognizing that the receiver helps
19 define what's appropriate and reasonable.

20 CO-CHAIR SAVAGE: Real quick.
21 Vaishali?

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1 DR. PATEL: Yes. Quick. So, I saw -
2 - I liked that first measure that was crossed
3 out. However, I thought that was more of a
4 specific measure as opposed to like a measure
5 concept.

6 And so I do think that that would be
7 an example of a measure that we would want to
8 propose. But -- and I think to Terry's point,
9 you know, this -- the exchange measure is really
10 from the perspective of the sender.

11 So, I think just being able to measure
12 the information that is shared from the
13 perspective of the sender would -- should be the
14 focus here.

15 MEMBER RUDIN: If we try to measure
16 reasonable and appropriate from the sender, we
17 could probably do a reasonable job, like a decent
18 job. But it won't be perfect.

19 And I think that's okay for this.
20 It's good enough. And then we have a separate
21 measure that's, you know, better for the -- in

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1 the usability case.

2 CO-CHAIR SAVAGE: Last word Terry.

3 MEMBER O'MALLEY: Lunch.

4 CO-CHAIR KAUSHAL: So, I think what
5 we're going to do is ask people to bring their
6 lunch back to the table so we can keep working.

7 (Whereupon, the above-entitled matter
8 went off the record at 12:23 p.m. and resumed at
9 12:34 p.m.)

10 MS. DUDHWALA: So I think we're going
11 to go ahead and move into Usability. The domain
12 of usability of course has changed a little bit.
13 But I'm going to turn it Julia to you to talk
14 about what your group did in terms of their
15 thinking yesterday about concept measures, and
16 yeah.

17 MEMBER ADLER-MILSTEIN: Sure. So I
18 think the first measure concept is really about
19 again, capturing the user perspective, and so for
20 each of the dimensions essentially assessing the
21 user perception of whether that data was

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1 accurate, timely, complete, relevant, coherent,
2 valid, accessible, etcetera for what they needed
3 to do with it.

4 So again, this will have to be
5 specified by use case, by stakeholder type,
6 etcetera. And then for completeness, we felt
7 like there were two other measure concepts that
8 were just a little bit easier to define, so we
9 added those as well. So the percent of users who
10 had a minimum data set present for the decision
11 or action for that user, and the percent of
12 structured data elements present for a given
13 decision or action.

14 So we have sort of one that applies
15 across to all the domains, and then on
16 completeness two more additional measure
17 concepts.

18 CO-CHAIR KAUSHAL: So questions for
19 Julia and clarification questions, and then
20 comments?

21 CO-CHAIR SAVAGE: Bob.

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1 MEMBER RUDIN: I think we've
2 discussed the kind of difference between concept
3 and measure. To me, the second two seem like
4 pretty specific measures rather than concepts,
5 and I just wonder if -- I mean clearly the concept
6 seems like completeness; is that correct?

7 MEMBER ADLER-MILSTEIN: So I think
8 the way that we thought about it is you would
9 actually need to do quite a bit more to get to a
10 specific measure because like what is the minimum
11 data set, what is the decision action? So I
12 think it's actually not at the level of a measure,
13 but it is perhaps a bit more. I mean if
14 you looked at the examples you were given
15 yesterday of a measure concept, this is actually
16 closest to what that was. I think on the prior
17 slide and our first one is perhaps higher level
18 than we were supposed to be, so I guess that's
19 how I thought about it.

20 MS. BAL: So just clarification.
21 That's correct. These are actually measure

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1 concepts. The other ideas that we had are a
2 little higher, and we obviously -- the team needs
3 to strategize on the best path forward. But you
4 know, keeping time in mind, we'll come up with
5 exercises to get those a little more in concept
6 form.

7 But this is actually what a measure
8 concept is. It's very -- it's still very high
9 level, very obviously no numerator, denominator
10 or testing or anything of that sort. But at
11 least having the definition is what we mean by a
12 measure concept, if that provides clarification.

13 MEMBER RUDIN: So actually this does
14 seem like at least either a numerator or a
15 denominator to me. So my earlier comment on this
16 topic was also may have been some confusion on
17 what's a domain versus what's a concept, and so
18 for like for all these, the accuracy, timeliness,
19 completeness, I kind of thought those were very
20 good concepts, and that we might think about some
21 ways to lump them together for higher level

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1 domains that might encompass, be more
2 comprehensive in terms of the space. We can talk
3 about that more if there is more time.

4 DR. BURSTIN: Quick comment on
5 concepts. There was clearly some confusion
6 yesterday around the idea. Basically, we'd like
7 to walk out with something you could hand to a
8 measure developer, and they would have enough
9 specificity to have a sense of what to do with
10 it. So some of those single word things we
11 listed on the prior slide, for example, wouldn't
12 cut it.

13 We're going to need to go back and
14 forth with you to think about what that concept
15 is. At its simplest thing is what's the measure
16 focus and who's the target population. If we
17 could at least be pretty clear on that, we can
18 work beyond that. But otherwise it's really just
19 an idea that needs more fleshing out.

20 CO-CHAIR SAVAGE: Mark.

21 MEMBER FRISSE: What I liked about the

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1 last two bullets is, and I'm no meaningful use
2 3As, but there are requirements there for sending
3 specific data elements in a structured document
4 form to certain patients and providers within a
5 certain period of time.

6 If I remember right, the thresholds
7 are relatively low, and to me the goal of this
8 exercise is to point out that like when I think
9 about visiting nurse, for example, or all the
10 other devices, all the home, the social
11 determinants, it's to take the spirit of that and
12 say how can we broaden the number of people, the
13 types of tasks, the kind of data elements we need
14 like nursing and those things, and just as I said,
15 build on the meaningful framework so it's
16 actually more effective.

17 So but those two, unless I'm wrong and
18 others can comment, those have -- there's a
19 strong precedent in meaningful use and you ask
20 yourself what could I do for a VNA, what could I
21 do for a nursing home, what could I do for post-

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1 discharge care to build that out. That would
2 improve quality.

3 CO-CHAIR SAVAGE: Hans.

4 MEMBER BUITENDIJK: Regarding the
5 last one, I'm curious whether something may be
6 missing there or whether it's something separate
7 that needs to be addressed.

8 The focus area is on structured
9 elements, and I know there's agreement that we
10 need to focus on structured elements,
11 particularly if you want to be computable
12 decisions of sorts to do something actionable at
13 the computed level.

14 But there is also the element of
15 narrative that puts things in context or to have
16 that information available, will not only add
17 structure to that element. So how do we want to
18 address that?

19 Should we address that here or just
20 acknowledge that we assume that narrative always
21 will come across and it will be augmented with

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1 structured data and that needs to be increased,
2 and this is enabling us to address that, or are
3 we saying that we at times want to replace
4 narrative with structured data, which is not
5 always the right thing to do?

6 Frequently it's not the right thing to
7 do. You need the narrative as well as the
8 structure. So I'm just trying to make sure I
9 understand the intent of the last bullet relative
10 to narrative elements to it, that we don't want
11 to disincend based on the measure, to not send
12 narrative.

13 CO-CHAIR KAUSHAL: Julia, I'll have
14 you respond to what the motivation was behind
15 this measure, and then for the group to respond
16 to this specific question that Hans is raising
17 before we continue on.

18 MEMBER ADLER-MILSTEIN: So I don't
19 think we thought about it like that. Sort of to
20 me you're describing I think a pair of measures,
21 and one is about do we have the right structured

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1 elements there and the other is do we have the
2 right narrative elements there. I think when we
3 discussed it we just hadn't thought about it like
4 that.

5 So we could either solve this by
6 adding a paired measure, though I think that is
7 a harder measure for me to think about how to
8 operationalize. But I don't know. So I guess
9 that's my reaction was, that I don't think we
10 thought about it and it makes sense to me to add
11 it as a complementary concept to the one that's
12 there.

13 CO-CHAIR KAUSHAL: Terry.

14 MEMBER O'MALLEY: So I'm not sure if
15 this goes under usability or exchange, but sort
16 of a concept of citizenship of it sort of being
17 a good --

18 CO-CHAIR SAVAGE: Terry, I'm sorry.
19 I'm going to have you hold that concept for one
20 second, because I want to finish the conversation
21 about whether or not people think that we need a

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1 concept measure around narrative data or not, a
2 measure concept around narrative data or not.

3 MEMBER SHAPIRO: I definitely think
4 that it's important to have a measure of
5 narrative content. It serves a different purpose
6 and that's the, you know, commodity that
7 clinicians use to communicate with each other.
8 The structured data is useful for a lot of things,
9 but it doesn't do everything.

10 MEMBER FRISSE: This is Mark. I'd
11 agree.

12 CO-CHAIR KAUSHAL: Okay, terrific.
13 So Terry, you can keep going.

14 MEMBER O'MALLEY: Okay. Okay. So
15 sort of a citizenship comment. As steward of the
16 data, knowing that data that comes in to you may
17 not be in a standardized, usable format but you
18 may convert it, and repackage it and ship it out.
19 And so kind of get to the concept that the whole
20 system has got the responsibility for improving
21 data quality and usability, just as a measure

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1 concept.

2 I have no idea how we would go about
3 measuring it or framing it, but just the idea of
4 a shared responsibility within the ecosystem of
5 data exchange to continually improve.

6 CO-CHAIR SAVAGE: Vaishali, did you
7 have your card up to speak, or is it left on --
8 okay.

9 CO-CHAIR KAUSHAL: So I would ask for
10 reaction to Terry's comment first. People feel
11 like they can react to it, anyone? Okay. Terry,
12 we're going to keep thinking.

13 CO-CHAIR SAVAGE: Frank.

14 MEMBER OPELKA: I don't have a fully
15 baked concept, but what I was trying to
16 contemplate is some key exchanged information
17 that is subsequently used in clinical decision
18 support or treatment plans. So measurement of
19 things like summary of hospitalization or MedRec
20 or something of that sort that we demonstrate was
21 exchanged, and then ultimately demonstrate it got

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1 used in a treatment plan or a clinical decision
2 support environment.

3 MS. BAL: I'd say that's in our use
4 bucket. It's on the next slide.

5 MEMBER OPELKA: Never mind.

6 CO-CHAIR SAVAGE: Steve.

7 MEMBER WALDREN: Yeah. So first I
8 like the ones that are here. I think they're
9 great. One deals with kind of the relevance and
10 validity, kind of subdomains. So percentage of
11 data elements presented for a given decision
12 action were irrelevant for said decision action.
13 It's this notion of what's the signal to noise
14 ratio, that it's sending too much, it's showing
15 too much to the user.

16 CO-CHAIR SAVAGE: Steve, is that --
17 are you saying put the word "relevant" in?

18 MEMBER WALDREN: I'm saying keep the
19 one that's there already as is, but I would say
20 also then add another one saying so of those
21 elements provided, how many were relevant to the

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1 decision?

2 So for example, if you're presented
3 with a complete 20 page CCB as a follow up, you
4 know, 95 percent of that may not be relevant to
5 the decision that you're trying to make, as
6 opposed to pulling out these are the medications
7 that are different from what you have on your
8 medication list.

9 Here's the assessment and the added
10 orders that are not part of your care plan, as
11 opposed to here's the 13 reviews of systems that
12 were needed to make sure that the specialist got
13 their documentation level appropriate for
14 billing.

15 CO-CHAIR KAUSHAL: Stephen, can I ask
16 you a question, which is -- is it truly a separate
17 concept or I can hear John whispering his answer
18 in my ear, so let me just ask the question and
19 you can answer it. Do we care about the total
20 amount of structured elements present or the
21 total amount of narrative data elements present

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1 and so on, or do we only care about those that
2 are relevant, in this area where we're thinking
3 about usability?

4 My thinking is this, is that when
5 we're thinking about exchange, we're interested
6 in total volume. But when we're thinking about
7 usability, it seems to me that we're thinking
8 about the usability of information that's being
9 exchanged that is relevant for the decision-
10 making that is happening at that time.

11 MEMBER WALDREN: So in theory yes, but
12 I think in practice no. I think you need to have
13 them separate. In 2005, we started the process
14 to say what's a clinically relevant summary of
15 care, and we're in 2017 and we still don't know
16 what a clinically relevant summary of care is.
17 So I would keep them separate just for practice.

18 MEMBER SWENSON: So I think on some
19 of these, going back to the focus of everything
20 being on interoperability. Like when I read the
21 second one there, percentage of users who had

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1 minimum data set present for decision actions.
2 That has nothing to do with interoperability.
3 Like that could have been based on data that was
4 already in my systems.

5 So I think that that's as an idea, but
6 it needs to be reworked somehow to the percentage
7 of, you know, decisions or actions that were
8 based on information that came from
9 interoperability exchange data, but then we're
10 getting to impact.

11 So really it's kind of those latter
12 points of the structured elements coming in from
13 outside and being present for a decision, not
14 necessarily the decisions made because that's now
15 looking at the either use or impact, you know,
16 that second bullet as written and even some of
17 the others as they're written currently really
18 don't specify that it's interoperability data.

19 MEMBER FRISSE: In response, I would
20 say I agree. That's why it's important to put a
21 context on it. I'm going back to the meaningful

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1 use Stage 2 and 3 requirements, where they say in
2 transitions of care, or if you're seeing a new
3 patient, you must get this information for ten
4 percent. You must have these fields.

5 My central claim is that that's
6 frustrating. People don't see quality, because
7 the information's not coming from the right
8 people or going to the right people. But if you
9 just look at that again and put transitions of
10 care and then ask yourself why is Meaningful Use
11 2 and 3 not working? It's because it doesn't go
12 to home care, because it doesn't go to family,
13 because it doesn't go to certain people.

14 I think we're in a position now to say
15 the technology and the consumer maturity is
16 robust enough that we can beef those things up to
17 broaden the pool, if you will, and my central
18 contention is by adding more people in and more
19 data types, that's how we're going to get the
20 better quality measures, not by just doing the
21 same stuff among the same people.

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1 CO-CHAIR KAUSHAL: Other than Mark,
2 how would you -- how would you -- how would you
3 reflect this on this line?

4 MEMBER SWENSON: I think it just needs
5 to either be clear in how these are defined or in
6 the wording of them, that when we're talking
7 about the information being present and to be
8 used, the denominator needs to be that
9 information that came from outside.

10 I think that's one of the, you know,
11 when we look at like meaningful use, that's one
12 of the issues with how things are written in like
13 transitions of care, is it essentially penalizes
14 those that have everything inside and don't need
15 to do transitions of care, and it benefits those
16 who are smaller organizations and have to do
17 transitions of care.

18 And so this needs to have the
19 denominator only be those where the information
20 is from outside in the first place.

21 CO-CHAIR KAUSHAL: Concepts that our

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1 group was discussing yesterday was this concept
2 that even within large supposedly integrated
3 delivery networks, the exchange of information is
4 not seamless. It can often be very fragmented
5 and just as difficult as getting information from
6 outside.

7 Is there -- is that an important
8 enough issue that we want to incorporate
9 something in these measures regarding that?

10 MEMBER ADLER-MILSTEIN: And if we
11 added the words something like "available from
12 outside sources," your question will be well what
13 counts as an outside source? Is it outside of,
14 you know, my information system, even if that
15 other information system is within my hospital
16 system or whatever, health system, or is it from
17 outside systems meaning like outside of our
18 organizational boundaries. I think we always go
19 back and forth about what outside means.

20 MEMBER SWENSON: I mean I would, you
21 know, say something about information that was

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1 exchanged electronically or received through an
2 electronic exchange, not necessarily outside
3 information because it could be inside
4 information from another system that had to be
5 electronically exchanged in order to have it.

6 CO-CHAIR KAUSHAL: So sorry. I'm
7 still struggling with this. So are you
8 suggesting, Alan, that we rephrase which bullets?
9 Is it the one on structured elements and
10 narrative data?

11 MEMBER SWENSON: Yeah. I mean the
12 last four really. I mean the fourth one is, you
13 know, I already said exchange data elements that
14 are relevant. So really the three above it
15 though, as written, don't necessarily need
16 interoperability.

17 CO-CHAIR KAUSHAL: So percentage of
18 exchanged structure elements present. Would
19 that work?

20 MEMBER SWENSON: Yeah, electronically
21 exchanged.

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1 CO-CHAIR KAUSHAL: Electronically
2 exchanged. So Vanessa for the bottom three, the
3 bottom four, just add in that clause,
4 electronically exchanged. Okay, sorry. Keep
5 going, Terry.

6 MEMBER O'MALLEY: So two comments.
7 One sort of interoperability versus
8 intraoperability. I think all of the concepts
9 we've had here for interoperability hold for
10 intraoperability, which I take to be the exchange
11 of information within a unified "information
12 system."

13 So maybe that will get us away from
14 worrying about what people actually do with it
15 internally to what they do between trading
16 partners that are on different platforms.

17 And then the other question is so
18 who's -- how are we going to measure, how are the
19 measure developers going to measure what's
20 appropriate or not? How are they going to ask?
21 I think the issue of who defines appropriateness.

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1 Is it the receiver of the information that
2 defines it, or is it the fact that the sender and
3 the receiver together have created a complete
4 data set that has clinical value.

5 It includes what the receiver says
6 they want to know, and it includes what the sender
7 knows that the receiver doesn't know but ought to
8 know? That gets a complete data set that's
9 relevant. So how are we going to -- my question
10 is, okay, how are we going to measure that?

11 CO-CHAIR KAUSHAL: Terry just -- oh,
12 Jason if you can respond even better. I was just
13 trying to understand the question. Go ahead.

14 MEMBER BUCKNER: No, I mean our group
15 struggled with that, right. I mean I think at
16 the end of the day, the last four measures are a
17 pretty good stab at trying to do this in a sort
18 of quantitative fashion.

19 The first bullet is the proof in the
20 pudding, right? A survey of the users. Was the
21 information useful and relevant and timely and

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1 complete and all those things? That's the real
2 measure, right. And so I think unfortunately,
3 the survey was the best we could come up with,
4 but to me that shows whether this is useful or
5 not.

6 CO-CHAIR KAUSHAL: So from this, is
7 there a concrete suggestion or is this more an
8 area that we should continue to consider as we
9 think through usability? Jason, you had your
10 tent up before this. Did you have another
11 comment? No.

12 CO-CHAIR SAVAGE: Hans?

13 MEMBER BUITENDIJK: I just have a
14 quick reaction to Terry's comment. I want to
15 make sure I understood that on what the
16 implication may or may not be on inter versus
17 intra.

18 I assume that we are still talking
19 interoperability meaning across systems and not
20 necessarily limited to between organizations'
21 different legal status, and therefore that the

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1 way that this is rephrased, as Helen suggested,
2 can help us bridge between the two types of
3 environments, easily you can go back and forth,
4 if we're trying to make the distinction between
5 interoperability versus intraoperability, I
6 think we're going to potentially muddy some of
7 the waters more than we need to.

8 Now we might in our measure
9 development focus more on those things that
10 happen to come from outside providers, because
11 that's where right now the main focus is of
12 interoperability. But as David also indicated,
13 there's still a lot to be done inside
14 organizations as well.

15 But they typically have more control
16 to do the work that they need to do to make it
17 happen, first as across individual separate
18 providers. There are many more other obstacles
19 in the way, that we need to figure out how we can
20 address that and make it move forward.

21 CO-CHAIR KAUSHAL: So my suggestion

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1 for us would be to table the intra versus inter,
2 because then we have to define what is an
3 organization, what is a system and I can see us
4 leaving tonight at 3:00 a.m. instead of 3:00 p.m.
5 So other comments about usability?

6 CO-CHAIR SAVAGE: Bob.

7 MEMBER RUDIN: I hope we can do better
8 than survey-based measures for these -- the top
9 one. There's these important concepts, and I
10 would hypothesize that in at least some use
11 cases, we would be able come up with measures
12 that wouldn't only be based on perceptions.
13 Perceptions would certainly be part of it for
14 some of them, such as there's probably some cases
15 where data's there and you know it's not designed
16 for the patient to understand.

17 So it wouldn't -- I guess coherence is
18 the closest word. I think coherence would be
19 part of like what I was talking about earlier,
20 which would be like understandability,
21 interpretability. But you could -- you could

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1 know if something was designed for a patient to
2 consume versus not designed. That's something
3 that seems to be more measurable.

4 And some of the other ones like I'm a
5 little confused about the difference between
6 accuracy and validity in this context. Like
7 validity might be like using a valid measure of
8 something. But my main comment is can we -- can
9 we not limit ourselves to perception and think
10 about more measures that we could quantify
11 throughout --

12 CO-CHAIR KAUSHAL: So I think that --
13 one second Julia. So I think Bob what you're
14 suggesting is to change this to accuracy,
15 timeliness, completeness, relevance,
16 comprehensibility, maybe strike validity,
17 accessibility and format presentation of data?

18 MEMBER RUDIN: I think we could lump
19 a lot of these together, like accessibility and
20 format presentation of data. They both have to
21 do with the same idea of getting it --

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1 CO-CHAIR KAUSHAL: Accessibility.

2 MEMBER RUDIN: Like yeah, getting it
3 to the right place in the context, and coherence
4 I think gets at this concept of
5 understandability. The other one is accuracy.
6 Well, accuracy and completeness and relevance I
7 think have to do with sorting the data that comes.

8 So it has to do with slicing and
9 dicing the data in a way. It has to do with
10 something about the data you choose and like
11 something about the data quality. So this was a
12 comment I had earlier.

13 MEMBER ADLER-MILSTEIN: So the
14 discussion we had in our group yesterday is that
15 some of these will have objective standards
16 against which they can be measured. So for
17 example I think you're saying you can assess
18 coherence. We can use scales to assess like
19 readability or understandability.

20 So I think our idea was that in cases
21 where there was some kind of an objective

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1 standard that could be used to assess that
2 dimension, that that would be part of the measure
3 construct. But that there were some of these
4 where that might not exist, or even if it did
5 exist it might not travel with what the user
6 perceives that concept to be.

7 And so we felt very strongly that
8 there should be perceptual measures in addition
9 to where possible these more objective measures,
10 and I think for completeness it seemed more
11 obvious what these objective measures were. I
12 think you're therefore introducing other
13 dimensions that may have these objective
14 measures, and I think we just sort of ran out of
15 time to really go through each dimension and say
16 like if we wanted to measure this more
17 objectively, what would that measure concept look
18 like?

19 CO-CHAIR KAUSHAL: Well Vanessa,
20 maybe what we do is rephrase this as measures
21 and/or perceptions of, and Bob, why don't you

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1 take a stab at the way you've described this now
2 a couple of times. Why don't you give the three
3 or four areas. That's fine, Vanessa. Just keep
4 going with that, and Bob's going to finish the
5 clause for you.

6 MEMBER RUDIN: Right. I will finish
7 the clause. Okay. So I would say concisely
8 would be data quality, data comprehensibility and
9 ability to integrate into routines, which we can
10 think about maybe a better way to say that,
11 because I'd want that to encompass all users, not
12 just clinicians, not just patients.

13 So my -- what kind of brought me to
14 this is while I like this list of concepts, I
15 don't think it's necessarily comprehensive. So
16 I was trying to think of a framework that could
17 get at -- that would cover all the different
18 domains of usability and would be exhaustive. I
19 think that part of it is you have some data and
20 there's some qualities of the data.

21 You have how something about the

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1 cognitive relationship between the user and the
2 data in their context can they understand it, and
3 then you have something about their work flow.

4 So if something is understandable to
5 the -- if the right data is there and it's
6 understandable, but you're not somehow getting it
7 to them in their workflow, with the right alert
8 or in the right way where it's not overly
9 burdensome, we would want to capture those types
10 of integrations in here. I don't see that in
11 here anywhere.

12 CO-CHAIR KAUSHAL: So for the people
13 who were in this work group, how do you feel about
14 this way of summarizing what used to be bullet
15 one, and what feels to me like the important
16 changes, changing the longer list into data
17 quality, comprehensibility and, you know, ability
18 to be used or integrated, something like that?

19 DR. PATEL: So when we met yesterday,
20 we basically were looking up dimensions of
21 information quality and pulling from basically

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1 the usability literature, you know, these
2 different dimensions and obviously it wasn't a
3 comprehensive literature review. We were
4 looking up on Google, you know, a couple of
5 articles. So by no means is this list meant to
6 be the be-all end-all list.

7 I think what it represents is this
8 concept of information quality. So but I don't
9 know if we want to confuse people by having
10 information, the term information quality in both
11 the exchange bucket and the -- yeah, if you think
12 it's okay, then we could just kind of revert back
13 to a broader, the concept, which the original
14 concept was information quality and then, you
15 know, we just pulled these different dimensions.

16 MEMBER RUDIN: Can I just quickly say,
17 I think it's okay because it's in a different
18 context. Like if you're looking at information
19 quality from the perspective where you're not
20 sure how it's going to be used, like on the first
21 domain, that's fine. But now you do know.

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1 You're in the context here. It's
2 defining in terms of the consumption of
3 information. It's a different definition. I
4 think it's okay as long as we make that clear.

5 DR. PATEL: So we might have to go
6 back up, you know, like when we make the change
7 here to make the change on the overall, the
8 domain, you know, the subdomains, to make it just
9 consistent.

10 MEMBER KETCHERSID: Yeah. So I kind
11 of hate to do this, but you know, Alan and I have
12 been reading what was just on the slide. Oh,
13 there they are, the bottom and doing the math,
14 and there may be a wordsmithing opportunity here,
15 right?

16 We've got -- so in exchange, we're
17 bringing in the kitchen sink. We're
18 incentivizing bringing in the kitchen sink, and
19 now in the last four here we're asking what
20 percentage of the kitchen sink was used?

21 So now I'm motivated not to send you

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1 the kitchen sink, right, because I want those
2 numbers to be high. So it's really not the --
3 from a usability perspective, it's really not the
4 percentage of what actually came in
5 electronically that's being used to do A, B and
6 C. It's something else. It's relevant. Throw
7 the term relevant in there somewhere. I don't
8 know. But that's --

9 MEMBER SWENSON: So and I guess what
10 I wonder is if those bottom four are now covered
11 under the top one anyway, ability to integrate
12 inter-routines. I mean is, doesn't that cover
13 essentially what's in the bottom four, and those
14 are now measures that you can create under the
15 context of integrating inter-routines?

16 CO-CHAIR KAUSHAL: Responses.
17 Steven, I don't know if you're -- you've had your
18 tent up for a while. Are you responding to this?
19 Bruce, are you responding to this? David?

20 MEMBER WALDREN: I wasn't but I will,
21 that my concern if we try to lump them all

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1 together that we have the privilege of having
2 these conversations, and we've been having these
3 conversations for a day and a half, because I
4 kept inserting. So when somebody says oh,
5 information quality, it's like oh, well what do
6 you mean by quality or, you know, and how is that
7 different?

8 So I'd be hesitant to lump them more,
9 although I think I could see where that makes
10 sense, just because people won't have that
11 context that we've had. But I do have another
12 point about the second bullet there.

13 CO-CHAIR KAUSHAL: Let's hold onto
14 that, the new point for just a second. So I
15 think that there's been -- there's two things
16 that I think we need to consider.

17 One, which I think Steven I very much
18 agree with you, that eliminating the granularity
19 of the ensuing four bullets after the top bullet
20 would be an important loss of information. But
21 maybe we do make them as sub-bullets of the first,

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1 because maybe that's what they really are.

2 The second comment though, that Terry
3 made, was that there's an opportunity to gain
4 given that we're talking about percentages. So
5 people may be reluctant to give, to exchange more
6 information because then their percentages would
7 naturally go down.

8 So is there a way that we can phrase
9 these -- the last four bullets to get rid of that
10 issue? Can we take out percentage? Is there
11 some way to do that? Terry's going to answer our
12 question.

13 MEMBER KETCHERSID: Well no. English
14 is not my forte. I'm left-handed. So it's
15 almost as though, you know, for each of these
16 decisions being made, there's a certain number of
17 data elements that are necessary to make those
18 decisions, and what we're really driving at is
19 the percentage of those elements that came in
20 electronically.

21 Some of them are already resident in

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1 the host system. It's the percentage of the
2 attributes I need to use to make a decision that
3 came in electronically, not the percentage of
4 electronically brought in data elements that were
5 used to make the decision. So the denominator
6 is different.

7 So for each of the last three, right,
8 a given decision or action, a given decision or
9 action, a given decision or action, there is a
10 certain number of attributes that are necessary
11 for me to make that decision. I'm looking at a
12 med list, I'm looking at a problem list, I'm
13 looking at whatever. What percentage of those
14 items came in electronically?

15 CO-CHAIR KAUSHAL: Yeah, that makes
16 sense. So let's think about how to rephrase
17 this. So Vanessa, here's the easiest thing. The
18 first -- after the first bullet, the next four
19 you indent. That's easy, and then so I'm going
20 to take that one.

21 So the percentage, the percentage of

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1 relevant structured elements, relevant -- let me
2 -- so the percentage of relevant, structured
3 elements that are electronically exchanged for a
4 given decision or action. Does that work? No.
5 Percentage of --

6 MEMBER O'MALLEY: I think percentage
7 of the relevant elements, relevant being defined
8 by the user's needs. So the percentage of
9 relevant elements that came from an outside
10 source electronically, that are available for the
11 user becomes a metric. That's a very powerful
12 metric, because the percentage then, you just
13 want to up, up up up all the time. 100 percent
14 is when you want, yeah.

15 So that sort of aligns the incentives
16 very well. But it requires that the elements are
17 relevant, and then there's got to be something
18 about getting those elements relevant to the
19 people who need them. But that's a slightly
20 different idea. But I think we can --

21 CO-CHAIR KAUSHAL: And is there -- is

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1 there a concept here of whether or not those
2 elements, whether or not a clinician, for
3 example, has that information already accessible
4 to them, or whether it needs to be exchanged in
5 order to be accessible. So you know, getting
6 back to this concept of whether it's intra or
7 interoperability.

8 MEMBER O'MALLEY: If it's
9 intraoperability, then it's data that has come
10 from outside that is relevant to the user, and
11 the user can tell you whether they got what they
12 needed or not. They're probably the only ones
13 who can tell you whether they got what they
14 needed.

15 CO-CHAIR KAUSHAL: Go ahead.

16 MEMBER FRISSE: As someone who
17 doesn't study, again meaningful use but the ten
18 years of dialogue almost fastidiously, it seems
19 to me, just looking at the case of quality
20 metrics, they're always context-dependent. You
21 don't worry about a hemoglobin A1C, you know, for

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1 a healthy young kid. You don't worry about
2 maternal fetal care for a man, you know.

3 And that's why what's been effective
4 measurements, the real stretch I think are again
5 these things where you scope it down, and when
6 you're talking interoperability, if you just
7 start with the notion of a transition in care,
8 again I don't want to beat the drum over and over,
9 you immediately require that.

10 And whether it's all one giant system
11 or not, who cares, because you're measuring the
12 results. Meaningful Use 2 says you must have
13 these data elements, and I'm arguing that if you
14 look at some of the stuff we're doing, we're just
15 talking about how you can expand the pool of
16 people, expand the metrics you use, expand the
17 number of devices and all and build a better
18 quality framework.

19 Everything we've been discussing
20 really fits in that. So in that regard, these
21 percentages are about as good as you can do when

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1 you do it in a high level spirit, because it's
2 the old "it depends," you know. It depends on
3 what specific disease or a group you want to
4 measure. I don't know if you can do a general
5 approach to this that's not going to just get
6 people mired down.

7 But if you tell me nursing home
8 patients instead of 40 percent, 100 percent have
9 to have these things, two way. Or home visiting
10 nurses have to have these things this way, and if
11 you're a new vendor, you have to have these data
12 standards and these functional capacities or
13 we're going to say you're probably not the right
14 way to do it.

15 That seems okay with me. But to go
16 much more into detail with that or to get too
17 broad, neither of those is going to work I don't
18 think. My two cents.

19 CO-CHAIR SAVAGE: Steve.

20 MEMBER WALDREN: So one quick and one
21 not so quick. So in the second to last bullet,

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1 I think relevant should be changed to irrelevant,
2 now that we're putting relevant in the others.

3 (Laughter.)

4 MEMBER WALDREN: Because I think that
5 was the intent there. But my real issue is with
6 the -- I think I'll move them around here so I
7 can keep up. Right, okay, yeah. So now it's the
8 first sub-bullet, looking at the minimum data
9 set. I think the way that now it's been
10 reworded, I think we lost the notion of being
11 able to pull together the data set.

12 So this is saying that somebody sent
13 you a minimum data set and then therefore you
14 presented it to the end user, as opposed to there
15 were data elements and multiple different
16 exchanges that represent a minimum data set for
17 that patient, and those discrete pieces of
18 information were pulled together and the end user
19 was presented a minimum data set.

20 I see those two as separate. I think
21 the latter, it gets more into the notion of

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1 usability, that you took disparate pieces of data
2 from multiple exchanges that get pulled together
3 and made into a minimum data set for a patient.

4 CO-CHAIR KAUSHAL: Reactions to that?

5 DR. PATEL: So I wonder if we could
6 just add a phrase or something, you know, could
7 be like across more than one source or something,
8 that gets at the point that, you know, you're
9 kind of aggregating or maybe aggregating is not
10 the right term, but you know your different --
11 they could come from a variety of sources.

12 It's not just one piece of data that's
13 exchanged and then you're looking at that one
14 piece of data. But this concept that you were
15 talking about. So maybe across data sources or,
16 you know, something like that or --

17 MEMBER WALDREN: Yeah, percent of
18 users. You've had -- well users is not that's
19 sort of the problem now, that it's not really
20 user-based; it's at the level of patients too.

21 DR. PATEL: Yeah, maybe not users but

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1 --

2 MEMBER WALDREN: Percent of patients,
3 where a minimum data set was aggregated across
4 exchanged data and presented, put to the user for
5 a decision action. That's wordy and all but --

6 CO-CHAIR SAVAGE: Bruce.

7 MEMBER SIGSBEE: I wonder if to some
8 extent with this we're tying ourselves in knots
9 and because, you know, thinking first as a
10 clinician sitting there with the information
11 available, do I know which was an opinion from
12 some other system or was developed locally? I'm
13 not sure that I really know all the time if that's
14 the case.

15 And yet, you know, to access these
16 domains is important. There are, as Mark pointed
17 out, I think some transitions in care where this
18 becomes a really important question. If somebody
19 is discharged to a skilled facility from the
20 hospital, do they get what they need to
21 adequately take care of that patient, and it's a

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1 pretty stark, easy to do type of testing.

2 I think these are fairly comprehensive
3 or fairly high level concepts, captures pretty
4 well everything. We can wordsmith it some more,
5 but I think -- I get the sense that we're really,
6 particularly for this domain, tying ourselves in
7 knots a little bit.

8 CO-CHAIR KAUSHAL: I agree with that.
9 I might suggest if Mark and Hans and Bob are okay
10 with it, that we move on to use. But if you feel
11 strongly that you want to make a comment, please
12 do so. Go ahead, Hans.

13 MEMBER BUITENDIJK: An opportunity
14 maybe to simplify and help out with that, in that
15 sub-bullets 3 and 4. Sorry, it's 2 and 3. Is
16 really what we're trying to identify there is
17 that of the data that has been exchanged, how
18 much of it is human readable versus computer
19 readable, and maybe by elevating the concepts a
20 little bit higher at that level, what we're
21 trying to identify is that both are high.

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1 It needs to be human readable;
2 otherwise -- and so that you can always store it
3 so that you as a human decision-maker can absorb
4 the information. But you need to have a
5 structure to enable for the computable use of it.
6 So is it usable in those two regards, and then we
7 can figure out how we divide up the definitions
8 of the measure concept. So I would use those
9 terms perhaps, rather than structured versus
10 narrative as we get to usability.

11 MEMBER ROSATI: Just a quick comment,
12 I'm sorry. Just a quick comment. You know, we
13 focused on relevance and completeness. I just
14 wanted to make sure we weren't missing
15 timeliness. I know that maybe that's assumed
16 that it's here, but I think timeliness is --

17 You know, it could be the best data in
18 the world and it could be moving. But if it
19 comes a week late, it's not going to be useful.
20 So I just want to make sure that it's addressed.

21 CO-CHAIR KAUSHAL: That's a good

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1 point, because we took it out of the exchange
2 side of things as well. So I think we should
3 include it back in the uber bullet. Bob, yeah.

4 MEMBER RUDIN: I think that's
5 incorporated into integrating and to routines,
6 because if it's not there at the right time in
7 your routine, that's a variable. But I agree,
8 it's an important issue that you might want to
9 just --

10 CO-CHAIR KAUSHAL: How about if we do
11 this? How about if we --

12 DR. PATEL: Yeah, I mean it was
13 supposed to -- it was supposed to be in that
14 information quality domain that we had it
15 originally, you know, like the accuracy, the
16 timeliness and all of that. So I mean I don't
17 know if we want to have some bullet here that
18 relates to information quality that might include
19 the timeliness or --

20 CO-CHAIR KAUSHAL: What I was going
21 to suggest, so there's two suggestions on the

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1 table. One is to just incorporate timeliness
2 into the list. The other suggestion would be to
3 add ability to integrate inter-routines in a
4 timely manner. Okay, in a timely manner.
5 Terrific. Can we move on?

6 And so the reason I didn't comment on
7 that is because I actually think that there is
8 multiple lumpings that need to happen. So yes,
9 I agree Hans that the structured and narrative
10 data elements can be lumped. It's not an
11 important nuance for this. The other thing that
12 I think is that the phrasing now of our fifth
13 bullet, percentage of available relevant
14 structured elements that were electronically
15 exchanged, it should be the phrasing of what will
16 remain as three bullets here.

17 So if that makes sense, what I'm
18 suggesting is that it's the percentage of users
19 who had an electronically exchanged, who had --
20 who had a minimum data set, who had available
21 relevant minimum data set information

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1 electronically exchanged, right, being the first
2 bullet.

3 The second bullet would be the
4 percentage of available, relevant structured
5 elements, structured and narrative elements that
6 were electronically exchanged, and then the final
7 bullet would be some iteration of that, if that
8 makes sense.

9 MEMBER BUITENDIJK: Just to clarify,
10 I did not suggest to lump narrative and
11 structured together necessarily; rather, to
12 change terminology to make it a little bit wider.

13 CO-CHAIR KAUSHAL: Just taking it
14 out.

15 MEMBER BUITENDIJK: To be human
16 readable versus computable, where we really would
17 like to have both being driven up.

18 CO-CHAIR KAUSHAL: Got it, got it.
19 My error there. So replacing the word structured
20 with computable and the word narrative with human
21 readable. Okay. Jason and Poonam, you guys can

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1 take it from here to rephrase it. Let's move on
2 to use. So Julia had to leave. Is there
3 something --

4 MEMBER ADLER-MILSTEIN: I'm actually
5 on the phone if it's helpful, but I think anyone
6 from our group could speak to this.

7 CO-CHAIR KAUSHAL: Julia, you never
8 leave. I love it.

9 MEMBER ADLER-MILSTEIN: You can't get
10 rid of me.

11 CO-CHAIR KAUSHAL: Julia, could you
12 please, if you can do it on the fly, go over the
13 conceptualization behind the use concepts.

14 MEMBER ADLER-MILSTEIN: Absolutely.
15 So I think we were fairly concise here, where we
16 thought that there were two, you know, two uses.
17 Once data is usable, it would either be factored
18 into human decision-making or it would be
19 factored into some kind of computable use,
20 decision supports, you know, quality measures,
21 etcetera.

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1 So really that was as far as we got
2 and, you know, I think there are a lot of
3 integrated implementations. There's going to be
4 a lot of different applications. But those are
5 the two high level concepts.

6 DR. PATEL: Yeah. So I was on the
7 committee and feel free to -- for others to chime
8 in. So I think we had basically -- for there
9 were examples with regards to the use.

10 We thought that the viewing was like
11 a very basic crude measure of use, but that would
12 let us at least know whether the piece of
13 information that was sent was even looked at,
14 opened and then there are a multitude of other
15 potential measures one could look at for use that
16 would be specific to the use case, and also the
17 stakeholder.

18 And so -- but that would be as a
19 starting measure on the human side of things. I
20 would say the incorporation piece would be just
21 to make sure that the information -- to better

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1 understand, you know, make sure that the
2 information is available for downstream use. It
3 has to be incorporated. So that would be a
4 measure of, you know, of assessing, you know, the
5 degree to which information that is
6 electronically exchanged and received from
7 outside sources is incorporated, which could
8 further downstream use.

9 And then for the discrete data pieces
10 of the computable data, you know, the degree to
11 which it's subsequently -- you know, there are
12 again multiple examples that we talked about it.
13 It could be used in quality measurements, it
14 could be used for population management. It
15 could be used for algorithms to identify high
16 utilizers.

17 So there again, which is, you know,
18 there are multiple use cases that would be
19 examples of how information is used for
20 computable, you know, in a computable kind of
21 way.

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1 Again, those would be very use case
2 specific. So I don't know if it makes sense here
3 to list just, you know, again, you know, have it
4 be a little bit more generic and say you know,
5 have the use be divided into the two, the human
6 which I don't really see here, the human and then
7 the computable, and then under the human there's
8 this one basic measure of information being
9 viewed.

10 The other incorporation, which
11 enables the more -- the secondary use of the
12 computable use, because it can't be computable
13 unless it's integrated, or maybe that's more of
14 a measure on the exchange side.

15 I don't know, you know, that the
16 information has to be within the system and
17 available for the subsequent use by either a
18 human or, you know, for these kind of more
19 secondary uses that are downstream like clinical
20 decision support and the like so --

21 CO-CHAIR KAUSHAL: I don't know if

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1 anyone else --

2 CO-CHAIR SAVAGE: David.

3 MEMBER KAELBER: I guess I'd just
4 point out for the last two bullet points, that I
5 think there's two important words missing, which
6 I think indicate the problems with the measures,
7 outside information. But then the challenge is,
8 you know, I would say a lot of systems don't do
9 a good job of using discrete -- their own discrete
10 data for clinical decisions, or their own
11 discrete data for quality metrics.

12 So now layering a whole external data
13 seems very complicated on that. So maybe it's
14 an aspirational measure.

15 CO-CHAIR SAVAGE: Is it outside? Is
16 it electronically exchanged? Are those the same
17 concepts?

18 MEMBER KAELBER: Well, I think the
19 intent of the Committee I assume was that outside
20 information should be added at least as a bullet
21 point.

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1 DR. PATEL: Yes, outside information,
2 yeah.

3 MEMBER KAELBER: But again, that
4 brings up the whole problem with the measures
5 because, you know, maybe we should start by
6 saying, I mean this is outside the scope of this
7 Committee, but what's the percent frequency of
8 discrete data even using clinical decisions for
9 internal? That's probably not where people want
10 it to be.

11 So now like laying on -- I think it
12 might be problematic from that perceptive. But
13 at least at the very -- I mean if we want to
14 clarify it, it's outside information I think.

15 CO-CHAIR KAUSHAL: Well I -- so can I
16 push on the outside a little bit. I feel like
17 if we use the phrase "outside," we're going to
18 have the same issue that we're just discussing
19 about intra versus inter, because do you define
20 outside as outside of the system, outside of an
21 IT system? Do you define it as outside of an

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1 organization?

2 That feels to me like it starts
3 getting problematic. So how do you feel about
4 using the word "electronically exchanged"?

5 MEMBER Kaelber: Sure, yeah. I think
6 that -- I mean that, for what I'm talking about,
7 that meets the same spirit. But I still feel
8 like it has -- those two measures still have that
9 underlying problem. I think a lot of systems
10 don't do that well with their own internal
11 information.

12 CO-CHAIR KAUSHAL: Right, right. So
13 then David let me -- let me ask a follow-up
14 question, which is is there -- well so I guess
15 one question for the Committee, and then perhaps
16 a suggestion, the question for the Committee is
17 is it important, as part of measures of
18 interoperability, to understand overall how much
19 discrete data and for the quality metrics piece
20 as well, the clinical discrete data and quality
21 metric discrete data is being utilized.

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1 So is this an important concept to
2 incorporate, and if it is an important concept to
3 incorporate, is one way to do it by using the
4 percentage? So having the denominator be the
5 percentage of discrete data that is used, and the
6 numerator be the amount, the amount of exchanged
7 discrete data? Does that make sense? Okay, that
8 was clear in my mind. So, and it did make sense?

9 MEMBER Kaelber: It does.

10 CO-CHAIR KAUSHAL: Okay, good.

11 MEMBER FRISSE: You can't -- there's
12 inside/outside.

13 CO-CHAIR KAUSHAL: The mic. Okay.
14 So I think there's consensus that we're going to
15 stay away from inside/outside, and we'll stay
16 with the phrase electronically exchanged. Then
17 I think that the next question is is David's
18 concern about overall use of discrete data
19 period, regardless of source, a concept that we
20 want to address in this framework? Or does that
21 feel out of scope. Hans.

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1 MEMBER BUITENDIJK: That specific
2 question, I think we still should leave it in,
3 although I recognize that it might be in some
4 areas more aspirational. In other areas, it's
5 already there. ECQMs are God, it's time to move
6 better in some of those areas, but not where we
7 want to be.

8 So I think from that perspective, like
9 a number of other metrics, it's good to be there
10 and put it in that framework, to recognize that
11 that's what we need to do. Clarifying comment
12 on reconciliation and incorporation.

13 I think I'm okay with the general
14 concept that it's attempting to address, but we
15 want to make sure that it attempts to address and
16 recognize that reconciliation and incorporation
17 again gives an impression of copy of data.

18 And where it may be sufficient to
19 reference the data or be aware on how to pull it
20 together. A good example again is the images
21 perhaps. In other areas it's that I may not need

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1 to incorporate it to a foolish extent, as long as
2 I can reference it and can include it. So
3 incorporation should not always be interpreted as
4 fully copy.

5 So again, it's as we divine the
6 measures, we don't want to slant this in a
7 direction that would force people to always copy
8 and incent that behavior, but the opposite may be
9 useful.

10 CO-CHAIR SAVAGE: Steve.

11 MEMBER WALDREN: I was going to say
12 that in regards to the electronic exchange, we've
13 also talked it being from multiple data sources.
14 So one data source could be theirs or it could be
15 some others. So just another phrase.

16 I'd be concerned about the ratio of
17 electronic exchange versus discrete data used in
18 from the original source, just because if you're
19 a highly utilizer of your original source, that
20 may make it a little bit more challenging. But
21 I think if we look at this being more

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1 aspirational, I'm fine with leaving it as is.

2 CO-CHAIR SAVAGE: Vaishali, do you
3 still have a point or card down? Okay. Jason.

4 CO-CHAIR KAUSHAL: Sorry Vanessa.
5 For bullet 3 I think what we've suggested is that
6 we put in the phrase "electronically exchanged"
7 before "discrete data," and the same with bullet
8 4.

9 MS. MOY: Yeah.

10 CO-CHAIR KAUSHAL: Great, thank you.

11 MEMBER BUCKNER: So I'm trying to find
12 balance here with the inside and outside world.
13 I don't want to discount that inter-system sort
14 of transfer is not important. It is. But the
15 reality is it's light years ahead of external
16 sites.

17 So the folks integrating with long
18 term care that are not part of their system or
19 visiting nurses or other places, that's the gap.
20 Like that's the huge, huge gap, and so I'm trying
21 to figure out what the right balance here is,

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1 because it's important in both places. But it's
2 certainly more mature internal than it is
3 external.

4 MEMBER FRISSE: If I could say, that's
5 why I think again, I keep going down to inner-
6 outer, you know. It depends and organizations
7 are different. Kaiser has more. It depends on
8 the use case, the transitions in care to
9 organizations clearly, you know. Other things,
10 it depends.

11 So and everybody wants to get down
12 ultimately to a meaningful use case or two that
13 have some segment of the population that drives
14 interoperability and is interoperability-
15 dependent. So what you're saying I think really
16 addresses that point. You've got to focus on a
17 specific issue to really add meat to the bones
18 here.

19 CO-CHAIR SAVAGE: Okay, Terry and
20 then I think we're done with the text.

21 MEMBER O'MALLEY: So I had a question

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1 on reconciliation, which it's a little different
2 process, a very different process of
3 incorporation. Incorporation to me is you've got
4 the data and you've folded it in.

5 Reconciliation means that you've
6 reconciled any discrepancies between those two
7 data sources, and I'm not sure that we've
8 necessarily -- and I'm not sure what the
9 frequency of reconciliation is. I don't know
10 what the right metric is for reconciliation.

11 CO-CHAIR KAUSHAL: Yeah. I think
12 that's a good point. For the Committee, were you
13 referring to medications there in specific for
14 reconciliation, or what was the thought process?

15 MEMBER O'MALLEY: It could be allergy
16 lists, you know. There are a whole bunch of
17 things that need to be reconciled.

18 DR. PATEL: No absolutely, yeah. I
19 think when we met yesterday, I'm just -- I can't
20 see like the writing on the board over there.
21 I'm not sure this was a measure. I don't

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1 remember this incorporation piece in what we
2 discussed. So I'd have to look at the board. I
3 don't know. This might have been a lost in
4 translation kind of thing.

5 PARTICIPANT: We were talking about
6 algorithms, we were talking about databases.
7 There was at least some allusion to that.

8 DR. PATEL: Yeah. The data would
9 have to be -- I mean incorporated for secondary,
10 you know, for these downstream, yeah, for
11 downstream use. But I don't think it was like
12 as a measure.

13 CO-CHAIR KAUSHAL: So how about if we
14 separate this into two, as a percentage frequency
15 of incorporation of electronically exchanged
16 information, and then the other one being when
17 applicable, percentage frequency of
18 reconciliation of electronically exchanged
19 information.

20 PARTICIPANT: Sure.

21 DR. PATEL: I mean that's an example

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1 of how the data could be used.

2 CO-CHAIR KAUSHAL: Okay, Tess, you're
3 bringing us home.

4 MEMBER SETTERGREN: Just a
5 clarification question on the first bullet point,
6 which I thought I understood when we first
7 discussed it, and now I'm reading it and thinking
8 what does that mean? So I'm just wondering could
9 we just say percentage, frequency of
10 electronically exchanged information that has
11 been viewed, because a patient may not make a
12 decision or take an action.

13 DR. PATEL: Yeah. I think that was
14 the intent, but again, it got lost in translation
15 here, uh-huh.

16 CO-CHAIR KAUSHAL: Yeah. So Vanessa
17 for the first bullet, we're going to end the
18 sentence at or the clause at "viewed." Terrific.
19 Jason, Poonam, can we go on? Yes, we can. Let's
20 go on to impact. Somebody here from the impact
21 group that can summarize?

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1 MEMBER WALDREN: We started to take a
2 couple of the use cases to run through the
3 different subdomains, and the first two were
4 fleshing out the ideas around patient safety. So
5 we'll be looking at medication discrepancies
6 among different medication lists. So as that
7 occurs, how many times do we run into
8 discrepancies that need to be reconciled?

9 A number of instances medication was
10 not given. Who came out came from an outside
11 health care facility. So trying to focus on
12 fleshing out a little bit more some of these on
13 patient safety.

14 The next parts, next two duplication,
15 reduction of labs and duplicate lab imaging in a
16 specific care setting was focusing on the cost
17 efficiency topic to given that interoperability
18 might provide better insight into what's already
19 there, that it's not being ordered or that it's
20 not being executed on.

21 Percentage of patients who pick up

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1 their medication refill, or the next one referral
2 to another provider is around this what we now
3 phrase the coordination of care, making sure that
4 patients do follow-up, that there is adherence to
5 the provided treatment protocol plan, whatever it
6 might be in that setting. So to look at those
7 aspects. Can we see improvements there?

8 We had another subdomain that got
9 folded in otherwise around malinformation being
10 propagated. So we were looking at the number of
11 times that a patient would identify errors on
12 their records as it's being used, so that it's
13 correct information there, and as well provide a
14 system identified errors in the medical record.

15 So that would mean that for that data
16 set, we would have improved intra or
17 interoperability improve the quality of the
18 record, then the misinformation, incorrect
19 information that's in there. So those were the
20 ones that we were able to run through,
21 recognizing that probably a lot more concepts,

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1 whatever is in the spreadsheets are in the health
2 outcome side.

3 These were the ones that we had a
4 chance to run through. Did I miss anything?
5 Alan, Bob?

6 CO-CHAIR KAUSHAL: Terrific. So in
7 looking at this list, it seems to me that we have
8 several concept measures, measure concepts in
9 patient safety. We have one at least in care
10 coordination.

11 And so it seems to me that it would
12 be a good use of our collective time to think
13 about productivity, to think about some of the
14 quality and some of the patient caregiver
15 engagement, rather than doing a lot of tweaking
16 of the existing ones. Take it away.

17 MEMBER O'MALLEY: To make a comment
18 on this, we did this use case based. So we sort
19 of made our grid of stakeholders and use cases
20 and where the value was, which has the advantage
21 of really granular, but the disadvantage of sort

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1 of mixing the big buckets.

2 We might want to go back and redress
3 this. Say for example, it's not just medication
4 discrepancies; there's really discrepancies in
5 the clinical record for anything. You know, but
6 in particular there would be some subsets. So
7 medication lists are big. Allergy lists are big.
8 Past medical history, family history, things that
9 patients and clinicians value and use.

10 So you can be very discrete about
11 where, what discrepancies we want to look at.
12 But maybe discrepancies is a better bucket than
13 medication discrepancies. So that would be one.
14 The number when -- of when medications aren't
15 given, that's almost part, I would put together
16 on sort of care plan.

17 So has the care plan been executed the
18 way it was originally -- so did patients get the
19 meds they were supposed to? Did they go pick up
20 the meds they were supposed to? Did they get the
21 testing in labs that they were supposed to?

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1 There's a lot of sort of the plan of care and
2 whether or not it's executed, and then you get to
3 the duplicates, I think stand pretty much on
4 their own.

5 And then the final is correcting
6 errors within the system. So it's not only just
7 patient-identified errors, but that's sort of
8 everyone gets to look for errors. But so I'm
9 wondering if we can't, in a sense, push these all
10 up a level, more or less a level?

11 CO-CHAIR KAUSHAL: So what I was
12 thinking was this, that these by and large, other
13 than the referral one, are in the domain of
14 safety, I think. I think they all are in the
15 domain of safety. It does sound like it would
16 make sense to think about other discrepancies as
17 you're suggesting.

18 And then what I was actually
19 suggesting was to move on to the next subdomain,
20 which in this case is cost saving, and come up
21 with a couple of measure concepts under cost

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1 saving, a couple under productivity and so on,
2 rather than spending a lot of time tweaking this
3 set because we -- we have something that the staff
4 can work with on --

5 MEMBER BUITENDIJK: And I think that
6 that makes sense, to focus on the ones that are
7 based on how we restructured. To clarify, is
8 that the duplication, reduction, labs, imaging?
9 Those were intended to be part of cost savings,
10 efficiencies.

11 Now as we talked about particularly
12 imaging and David will jump in there quite
13 shortly as well, is that there is the patient
14 safety aspect related to rounds of radiation
15 dose, etcetera. So some of these might actually
16 split into a couple of different areas.

17 If we -- if we talk about other areas,
18 we have opportunity to further delve in, which we
19 did not do a lot in the time that we had
20 available, around which ones are more patient
21 focused.

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1 Referral gets a little bit to that.
2 But another example might be the number of times
3 that the patient has to start their registration
4 form from scratch, as opposed to it's already
5 filled out. They can validate and only focus on
6 the changes that happen.

7 Intraoperability contributes to that,
8 and that might be either -- initially the thought
9 would have been on the care coordination, perhaps
10 efficiency. But since the patient caregiver
11 engagement is involved, maybe that's the right
12 place to put it.

13 CO-CHAIR KAUSHAL: Is there a measure
14 on patient caregiver engagement that you might
15 suggest? We have the one that's referrals, which
16 touches on it. Are there other measures, measure
17 concepts that you would suggest for patient
18 caregiver?

19 CO-CHAIR SAVAGE: The one that we've
20 used, most ready for prime time perhaps, has been
21 frequency of access to health information as a -

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1 - in some ways it's a proxy for engagement. But
2 when we did our national survey and we started
3 looking at responses, and these were just the
4 survey data, so it's perceptions, about people
5 who knew that their doctor was using electronic
6 health records.

7 We started stratifying by the
8 frequency of their use. We found some
9 interesting results, much more engaged in their
10 care, much more interested in doing something to
11 shape their health behavior. That's a measure
12 that we've seen that's most relevant, most
13 practicable, feasible I think to now.

14 I also had a thought on care
15 coordination when that's the time.

16 (Off microphone comment.)

17 CO-CHAIR SAVAGE: So to pick up on
18 Tess's comment yesterday about a longitudinal
19 care plan, so the impact would be high for the
20 percentage of people who have a longitudinal care
21 plan available. I would say that that's

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1 available not only to the providers, but to
2 patients and family caregivers.

3 CO-CHAIR KAUSHAL: So that's an
4 interesting one because it starts -- it crosses
5 to the subdomains. So available for both
6 patients and clinicians, and do you want to
7 tweak, Mark, a little bit the bullet about --
8 great. Okay, Steven.

9 MEMBER WALDREN: So on productivity,
10 I first thought about the notion of the amount
11 time spent by users to find electronically
12 exchanged data. You could generalize that to
13 talk about the burden required. So burden could
14 be the time amount, it could be the cognitive
15 requirement to do that. Industrial engineering
16 has a whole determination of what burden really
17 is to an end user.

18 CO-CHAIR KAUSHAL: How would you
19 phrase it?

20 MEMBER WALDREN: So I mean how to
21 phrase it into a real measure concept I struggle

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1 with. But it's this notion of the level of
2 burden on the end user to access and use exchange
3 health data.

4 So I mean if you want to create it as
5 a measure of time, you could say what percentage
6 of your time it spent looking for that
7 information. So if you think of your direct
8 patient care number, and then of that how many
9 minutes are used up just trying to search for
10 that?

11 CO-CHAIR KAUSHAL: And would impact
12 on -- in the ambulatory setting on our views, for
13 example, be too far from the intervention of
14 interoperability to measure? Jason, I'm looking
15 at you a little bit to --

16 MEMBER WALDREN: Well, I guess I mean

17 CO-CHAIR KAUSHAL: Go ahead, Steve.

18 MEMBER WALDREN: I'm fine with that,
19 but I guess too I think about the future moving
20 away from free for service in the ambulatory
21 space. So I mean trying to that would be a little

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1 bit more challenging.

2 CO-CHAIR KAUSHAL: Right, okay. So
3 then how about we phrase this as what percentage
4 of your time is spent -- what percentage of a
5 provider's time, percentage of provider's time
6 spent accessing and viewing electronically
7 exchanged information?

8 MEMBER WALDREN: I wouldn't add
9 viewing. But I would say --

10 CO-CHAIR KAUSHAL: Accessing.

11 MEMBER WALDREN: Accessing of -- I
12 mean access is probably a good general --

13 CO-CHAIR KAUSHAL: So access,
14 searching for.

15 MEMBER WALDREN: Yeah, searching for
16 everything gives us, you know, that it wasn't
17 available, yeah.

18 CO-CHAIR KAUSHAL: Electronically
19 exchanged information.

20 DR. BURSTIN: Just a quick question
21 on that. It seems like in some ways, just as a

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1 clinician, it's the opposite to me that would be
2 interoperability sensitive. It's the amount of
3 time I don't spend hunting and pecking to find
4 anything I need to take care of a patient. I
5 don't know if there's a way to frame --

6 I mean I don't want to frame it too
7 negatively, but the impact is can you see a
8 reduction, the amount spent searching for data
9 that one would ideally have available? How often
10 do you spend looking for an old EKG? How often
11 do you spend looking for an old chest X-ray
12 report?

13 MEMBER WALDREN: Yeah, and I see those
14 as both. I think both. One is the fact that the
15 data was available, so you were able to find it
16 and give it and access it and move it forward, as
17 opposed to going out and asking external.

18 I guess what I was also thinking is
19 the fact that going to that availability, host
20 availability, usability thing is that it's in
21 there, but now I've got to go search it out.

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1 Maybe that's more of a usability measure and
2 maybe we should use yours as the --

3 CO-CHAIR KAUSHAL: So Helen.

4 DR. BURSTIN: I mean it's
5 complicated, but something like the percent of
6 provider time spent searching for information
7 that could have been available electronically,
8 and you can define those. I mean you could even
9 be fairly specific and talk about things like
10 lab tests, you know, laboratory reports,
11 radiology, EKGs, the kind of things that we're
12 quite dependent on in practice that are just
13 really hard to get otherwise.

14 MEMBER WALDREN: Yeah, readily
15 available.

16 DR. BURSTIN: Readily available,
17 right, something like that.

18 MEMBER O'MALLEY: Let me make just a
19 comment on that, to extend it across the
20 continuum. Nursing homes, for example, spend an
21 inordinate amount of time finding the

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1 immunizations. It takes a nurse an hour to get
2 that information and it should be in front of
3 them. Just a --

4 DR. BURSTIN: For information that
5 could have been, that could have been available
6 electronically, and we can list out. So for
7 example laboratory, radiology, immunizations as
8 some of the starter items. But it would be -- I
9 mean as you think about back to the RVU
10 productivity question, if you didn't spend that
11 much time searching for some of those other
12 things, you could be a whole lot more productive.

13 CO-CHAIR KAUSHAL: I should just not
14 turn it off. We now have some patient safety
15 measures, some productivity measures, some around
16 care coordination, some around patient caregiver
17 engagement. It is fascinating to me that we
18 haven't touched the big bucket of quality yet,
19 and before we go around, I'm going to make a
20 suggestion that might help us streamline this,
21 which is we have a quality guru here, and so could

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1 you, Helen, get us started on the quality side
2 with a measure concept or two?

3 DR. BURSTIN: You know, I think in
4 some ways I'd I prefer to hear some of what's
5 happening with people's ideas in their own
6 setting. Part of the next exercise, if I'm
7 correct, is that we'll then look at the measures
8 we already pulled, the quality measures that we
9 think have some high applicability, and then we
10 don't have to redo them, because that's just a
11 massive exercise.

12 Let's just save that for there, but
13 I'd love to hear of their other concepts that
14 haven't been captured here and we should be bring
15 forward.

16 CO-CHAIR SAVAGE: Can I have Hans
17 next?

18 MEMBER HIRSCHORN: Just to assemble
19 that, on bullet No. 3 it says reduction of --
20 duplication and reduction of labs and -- and then
21 you're missing a word, imaging, if it were to

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1 end. So there's a little correction. But
2 there's one other, you know, thing coming from my
3 world. One of the things -- okay. The word
4 "and" is now redundant, okay. You have an extra
5 "and" there. That's okay.

6 Okay. There's also, and I pointed out
7 that aside from and people, you know, doctors
8 tend to think of "okay, well radiology, what is
9 it?" You know, there's images and there's
10 reports and there's images. But there's also
11 something that's not really the same thing, and
12 that's how much radiation has the patient
13 received, to know regardless of, you know,
14 because they may get the exam.

15 So they don't start telling in their
16 mind how many millisieverts that is and, you
17 know, how much that means for the patient. So
18 simply knowing, you know, before I give this
19 patient yet another dose of radiation, how much
20 have they had, you know. That's not the same
21 thing as having their imaging record. It's --

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1 it is related.

2 CO-CHAIR KAUSHAL: Yeah. So the
3 concept of radiation exposure?

4 MEMBER HIRSCHORN: Yeah, radiation,
5 radiation exposure.

6 CO-CHAIR KAUSHAL: Cumulative
7 radiation exposure.

8 MEMBER HIRSCHORN: Cumulative
9 radiation exposure, which would take into account
10 radiation therapy as well. I mean it's not even
11 purely an imaging thing. But you know, simply
12 have -- and a doctor may know of every CAT scan
13 the patients have.

14 But they have no idea if that's too
15 much radiation or not, or how much too much
16 radiation is or, you know, how much radiation
17 that even is, and that's a -- it's a separate
18 thing unto itself.

19 CO-CHAIR KAUSHAL: So Vanessa, maybe
20 what we do is just start rapidly listing some
21 additional domains. If you want to go on to

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1 another slide, I think that that's fine,
2 additional concepts I meant, and this one is
3 cumulative radiation exposure.

4 MEMBER HIRSCHORN: Yeah.

5 CO-CHAIR KAUSHAL: You can go ahead.

6 MEMBER HIRSCHORN: How much radiation
7 are we giving patients? First do no harm.

8 MEMBER FRISSE: Simple point. I
9 thought the idea of how many patients actually
10 picked up their medication was creative. I don't
11 know how you do it, you know. Filling, yes;
12 picking up, a little bit more difficult I
13 believe, but it's kind of an engaging idea.

14 (Simultaneous speaking.)

15 MEMBER FRISSE: That's right. So
16 that gets a patient up to say -- the fill is easy,
17 but there's some areas, particularly inner city
18 areas, where half of them aren't picked up. So
19 it's just creative. So there's a difference
20 between fill and pick up is all I'm saying.

21 CO-CHAIR SAVAGE: Vaishali.

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1 (Pause.)

2 CO-CHAIR KAUSHAL: There are several
3 concepts here. Right there is the prescribing.
4 There's the dispensing, there's the actual pickup
5 and then there's the compliance administration.
6 So is there a -- and all of those actually feel
7 to me, in various ways, sensitive to
8 interoperability in various aspects.

9 So could we do one around medication
10 use and include all four of these steps, as an
11 area to think about for measure development?

12 MEMBER FRISSE: Well, I defer to
13 others. I mean the first two are kind of
14 straightforward, I think. The Rx fill message
15 and how much that's used, I don't know if that's
16 -- I'd have to leave that to real doctors in the
17 room. I'm not one anymore. In terms of the
18 actually picked up though, I simply -- other than
19 asking patients, that would take you more over
20 the wire to the adherence story, you know.

21 So you can't adhere if you don't fill,

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1 you know. So I'm just saying that crosses the
2 line from what we've got through the traditional
3 messaging, to the best of my knowledge.

4 CO-CHAIR KAUSHAL: But I think it
5 starts to incorporate this concept of patient-
6 centered communication.

7 MEMBER FRISSE: Which is what is kind
8 of cool.

9 DR. BURSTIN: And it's actually
10 interesting, because the available measures
11 around that use completely claims data. So this
12 is actually sort of a different take on it using
13 electronic health data, as opposed to just the
14 claims data from the pharmacies.

15 MEMBER FRISSE: But then I'm below the
16 radar screen for generics a little bit. There's
17 some glitches with that too, but it's a good
18 thought. Good thought, yeah.

19 CO-CHAIR KAUSHAL: Yeah. So Vanessa,
20 maybe we rephrase this as medication use colon,
21 ordering or prescribing, I guess. Prescribing,

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1 dispensing, filling and compliance or adherence
2 I guess is the better word, adherence. And Jason
3 and Poonam, if you want to explore some of those
4 concepts, we can do that. So okay, next.

5 DR. PATEL: If you don't mind
6 scrolling just back to the other slide, the
7 original slide on this after you're doing typing?
8 I think with regards to the patient engagement
9 piece, I was envisioning the use. I think
10 patients, there's a patient viewing their data or
11 frequency of use in here, is that right,
12 somewhere down here somewhere.

13 CO-CHAIR SAVAGE: Third up, maybe
14 they're trying to tweak.

15 DR. PATEL: Right, frequency and
16 impact of patients accessing use of their health
17 information, their provider's EHR. So I would
18 see the use of this in the usage bucket. So we
19 had a measure in there about viewing data, and
20 you know, Mark we've worked on these measures.
21 So like you know, a patient is given access to

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1 their data. Then you look at whether they
2 actually logged in and viewed their data, and
3 then what did they subsequently do with that and
4 what impact it had. So did it have an impact on
5 any sort of shared decision-making, for example,
6 with their provider? Did it have an impact on,
7 you know, how they managed their own health care
8 differently, you know, or monitored their health.

9 So I feel like there are other impacts
10 besides, beyond just viewing the data that really
11 measure impact as opposed to usage. So maybe
12 patient activation, shared decision-making.
13 Those might be examples of things that I would
14 say are on the impact side of actually using the
15 data. So I don't know what you think of that.

16 CO-CHAIR SAVAGE: So I had -- we tweak
17 it as everyone wants. I put use there because
18 it's a broader term. It incorporates the
19 examples that you've listed, and I listed use in
20 addition to access in order to capture the impact
21 piece and not just have it be in the use domain.

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1 That was my thinking at least.

2 So we could -- you could say use paren
3 and then some of the examples that you were just
4 articulating as examples of use that have impact.
5 So what are the examples that you mentioned?

6 DR. PATEL: Shared decision-making
7 would be one. Another one might be -- well,
8 medication adherence could be one, you know.
9 They look at their medications online. They look
10 at, you know, monitoring, being able to monitor,
11 manage their health. Patient activation could
12 be another piece that one could look at too, I
13 mean potentially.

14 CO-CHAIR SAVAGE: One other would be
15 changing their health behaviors.

16 DR. PATEL: Yeah. Changing of health
17 behaviors would be a big one for us to look at,
18 and that's something that we're planning to do,
19 you know, with the HINS data so --

20 MEMBER SWENSON: Can I comment on that
21 one, because that's the topic where my comment

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1 was, is well, it was on that patient engagement
2 one. I guess none -- those are all great things,
3 great ideas for patient engagement if this were
4 a work group on patient engagement.
5 None of those require interoperability, right?
6 Getting, allowing the patient to see the
7 information that's in, you know, my provider's
8 EHR, I just log into a web portal provided by my
9 provider's EHR and I can then manage my own
10 medications and I can change my behavior. I mean
11 none of that required interoperability.

12 CO-CHAIR KAUSHAL: That reminds me
13 actually. So the other measure that I was
14 thinking that maybe gets more at what you're
15 talking about is reducing gaps in information
16 exchange experienced by the individual, so
17 they're no longer -- and this is a measure that
18 we've -- at ONC we've done a national survey of
19 consumers for a number of years.

20 And we've developed a number of
21 measures that look at, you know, how, you know,

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1 did you have to bring a copy of your medical
2 record because, you know, your doctor didn't have
3 it. The doctor that you were planning to see or
4 a lab test result. Do you have to do a lab test
5 result again? Did you have to, you know, all
6 these things that a patient might experience
7 because information was not exchanged between
8 their providers?

9 And so that might be an impact for us
10 to look at, is just reductions in gaps in
11 information exchange experienced by providers.
12 That's in some ways similar to the searching for
13 information by -- on the provider side because,
14 you know, the time spent searching for
15 information should be the time spent just carting
16 your information from doctor to doctor or, you
17 know, having to do a test again because the doctor
18 didn't get the test results.

19 So you know, just reducing the burden
20 of the gaps in information exchange on an
21 individual.

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1 CO-CHAIR SAVAGE: So Alan, I would ask
2 how you're defining interoperability, because the
3 patient is actually -- the communication with the
4 doctor's EHR is an example of interoperability in
5 my mind.

6 MEMBER SWENSON: I mean if it's a
7 patient portal provided by the provider's EHR,
8 that's no different than two doctors accessing
9 the same EHR, having access to the same
10 information. That's not interoperability.
11 They're just using the same EHR.

12 If the patient is now using the web
13 portal of that EHR, that's not interoperability.
14 That's just a product of the vendor.

15 MR. GOLDWATER: Just to very quickly,
16 because I can see this sort of getting convoluted
17 and then getting into an even longer discussion
18 about this. So I mean interoperability certainly
19 is, for the process of which information goes
20 from an EHR to a portal or some other device in
21 which a patient views. I mean that is something

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1 to -- I mean actually look at as a measure of
2 interoperability.

3 I think looking at patient activation
4 or change of health behaviors, I'm sort of with
5 Alan on this. I'm not sure how that's a measure
6 of interoperability. That's a measure of other
7 factors of which interoperability is perhaps one
8 part of it. But asking the patient to change
9 their dietary behaviors or exercise more, I'm not
10 sure that interoperability is going to
11 necessarily lead to that.

12 CO-CHAIR KAUSHAL: So could I make a
13 suggestion of how we could phrase this?
14 "Frequency and impact of patient's electronic
15 access to and use of their health information,"
16 and take out "in the provider's EHR." And then
17 we haven't completely addressed your question,
18 Alan, about how it's happening and how we're
19 defining it. But at least we're getting closer
20 to, you know, not having a patient sitting next
21 to a physician and looking at their information

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1 and having it count, for example.

2 MEMBER SWENSON: Right. I just
3 think, you know, a lot of Vaishali's examples of,
4 you know, patient experience by reducing labs, by
5 doing these other things, making things better
6 for the patient, like that is -- there is a direct
7 impact from interoperability on that. But just
8 saying the patient has access to their medical
9 record does not require interoperability.

10 I mean the patient may use
11 interoperability for certain things. If the
12 patient uses some third party portal that then
13 pulls information from the EHR, then there's
14 interoperability in use. But if I'm just
15 accessing information made available to me by my
16 provider, that's not interoperability.

17 CO-CHAIR SAVAGE: Tess.

18 MEMBER SETTERGREN: Thank you. A
19 couple of things. So we're going to take the
20 patients who pick up their medication refill from
21 the pharmacy off, right, because we're going to

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1 cover that in that very last bullet point that we
2 added for medication use? Because honestly, I
3 mean I'm not sure if we're -- what kind of impact
4 we're looking for, but picking up their med
5 refill doesn't necessarily mean they're going to
6 take it. It just means they picked it up once.

7 Also, sort of to Alan's point, if
8 we're going to say that patient -- if we're going
9 to talk about patient's electronic access to a
10 use of, we really have to add verbiage that
11 indicates that some information exchange actually
12 took place there, because you know, I mean with
13 certain EHRs, they have most of their data. It
14 doesn't depend on EHR access, you know.

15 We have them -- we have provided
16 patients access to most of their data, and it
17 requires no interoperability whatsoever.

18 (Off microphone comment.)

19 MEMBER SETTERGREN: The one Alan just
20 talked about. The two above that, the patient
21 identified errors --

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1 (Off microphone comment.)

2 CO-CHAIR KAUSHAL: So we need to
3 resolve this, because both of you, I think, are
4 bringing up similar points. John.

5 MEMBER BLAIR: Yeah. So I'm
6 listening to Alan, and this goes back to one of
7 the first comments I made yesterday, as to who
8 you are as a provider or whatever. If you're in
9 a large, integrated delivery network, a lot of
10 that information is there. If you're a small
11 provider in a community, you do need that
12 connectivity and interoperability. This is a
13 perfect example, because you're talking about a
14 PHR that's actually part of that system.

15 You're off that database or that
16 system, so it's not interoperable. Whereas if
17 you're on a PHR that is not part of that system,
18 it has to have all those connections and
19 therefore be interoperable. So it really depends
20 on who you are, where you're coming from as to
21 the interoperability or your need for

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1 interoperability.

2 The example you gave is exactly the
3 same thing I was talking about, with a doctor in
4 part of a large system or a small office. Same
5 exact principle applies.

6 CO-CHAIR KAUSHAL: So can I push on
7 this a little bit? From a clinical perspective,
8 having a patient use a portal, even if it's, you
9 know, let's say a health system has EPIC.
10 They're using EPIC's patient portal. I
11 understand there's not exchange of information,
12 but there is another user of that information.

13 MEMBER BLAIR: That's the same as two
14 doctors on the same EHR, exactly what Alan was
15 saying.

16 PARTICIPANT: Right.

17 CO-CHAIR KAUSHAL: So okay. So at
18 least for --

19 (Simultaneous speaking.)

20 MEMBER BLAIR: It all gets into a
21 database and whether they're connected to

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1 different databases.

2 CO-CHAIR KAUSHAL: I understand --

3 MEMBER SWENSON: I think that for the
4 measure there needs to be something that requires
5 interoperability in the denominator. So we can
6 say a patient has access to it where it occurred
7 in multiple places and they're able to aggregate
8 it into some place.

9 It's something. There has to be some
10 measure of the denominator requires
11 interoperability to have happened. Just having
12 access to my information doesn't itself require
13 interoperability.

14 CO-CHAIR KAUSHAL: So Alan, here's my
15 question for you, and then I have a follow-up
16 question. So my first question for you is this:
17 is patient's use of a portal that is part of an
18 EHR, is patient use of a portal an important
19 measure of information use? Leave aside the
20 interoperability piece, but is it an important
21 measure of information use?

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1 MEMBER SWENSON: Yeah, I mean
2 critical.

3 CO-CHAIR KAUSHAL: And so your
4 concern is that it's not electronically exchanged
5 information because the database itself is
6 static?

7 MEMBER SWENSON: Right. I mean there
8 are a lot of important critical things in health
9 care that we could be measuring, but we're
10 focused on interoperability. Like patient
11 engagement is one of the most important probably
12 in health care, but if it isn't measuring
13 interoperable exchange, then it doesn't have a
14 place in this document, in this work group
15 because I mean that's a separate thing.

16 Like patient engagement is important
17 and there needs to be focus on it, but that
18 doesn't mean that it's stuck in here if it doesn't
19 involve interoperability.

20 CO-CHAIR KAUSHAL: So let's say, just
21 completely hypothetical. You have a provider

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1 with an EHR, and there is an opportunity to give
2 another provider access to that same EHR. That
3 would not qualify as interoperability, even
4 though it's another user, because you're not
5 shifting information?

6 MEMBER SWENSON: Right, because
7 nothing was electronically exchanged between the
8 two providers because they're accessing the same
9 EHR.

10 CO-CHAIR KAUSHAL: Does anyone -- we
11 have three people with strong consensus. Does
12 anyone disagree with this?

13 MEMBER BUCKNER: I disagree. I mean,
14 you know, yeah. So electronic moves somewhere
15 else. But at the end of the day, you're not
16 measuring electrons moving, right? You're
17 measuring who can access information that can
18 make changes to health care. So yes, data was
19 sent from here to here one time.

20 You could measure the
21 interoperability for the patient, potentially for

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1 a health plan that looks at that data,
2 potentially for a physician who look at that
3 data, all that counts. So the audience, I think,
4 is a relevant factor, even if it's from the same
5 repository.

6 MEMBER BLAIR: But you didn't move the
7 data in Alan's situation. That is a -- that's a
8 patient looking right in that database, that same
9 one that the doctor's on, just a different part
10 of it.

11 MEMBER BUCKNER: So who gets -- who
12 gets -- is it the first person who looks at it
13 that counts for interoperability, because it got
14 moved there in the first place, right?

15 Or it was entered natively. Are we
16 making a distinction?

17 MEMBER BLAIR: Yeah I do, and that's
18 why I said it yesterday, that a small doc on an
19 EHR that's connected to 20 different things to
20 get that information, that is interoperability.
21 A doc in a large organization has all of the data

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1 already there, that is not interoperability.
2 Same exact situation here.

3 CO-CHAIR KAUSHAL: You've heard that
4 there is discussion on this point, and I think
5 we're going to put a pin in it because it's 2:15
6 and move on to the remaining tents. Bruce wants
7 to say something on this topic though.

8 MEMBER SIGSBEE: I really do, because
9 I think that there's a big distinction between
10 just getting it to the database and something
11 like my chart, which is the patient portal for
12 EPIC, is that is a highly selective amount of
13 information that is narrowed down by the
14 physician often and then sent to the patient's
15 availability.

16 So I think it's a semantic distinction
17 that at least in that circumstance that really is
18 important transfer of information to that
19 patient's computer or device, and has the ability
20 to impact it. That's something at least in a
21 more generous form of interoperability is

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1 something that we should look at, and I think
2 it's a really important aspect of transferring
3 information.

4 It's not just giving the patient
5 access to whatever is there on the medical
6 record. I can tell you from our personal
7 experience it's a pretty small subset of what's
8 there, and my physician on the other side directs
9 what actually gets put into that portal. So
10 there is a narrowing down, editing and transfer
11 of that information.

12 CO-CHAIR KAUSHAL: Yeah, Bruce. I
13 happen to agree. I think there's a curation of
14 it and I think there's a timing of it, and I think
15 it's an entirely different user, and I hear your
16 perspectives too, right. So that's why I'm going
17 to suggest if we can --

18 MEMBER BLAIR: I've got to have one
19 more.

20 CO-CHAIR KAUSHAL: Go ahead, John.

21 MEMBER BLAIR: Okay. So I agree that

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1 this is what you want and this is what we would
2 like it all to be. But I do, I'm sticking with
3 Alan in this. It's not interoperability there,
4 and even when there's providers, some have
5 segmented parts of that database they can look
6 at. There's rolled base, whether it's a patient
7 or a doctor or an ancillary staff.

8 It's all -- no one has access to
9 everything on that database. So the fact that
10 your access is restricted doesn't change it in
11 terms of being interoperable. I think that it's
12 just -- these are different ways technically to
13 get at what we'd like everybody to have. So you
14 need to have interoperability to get at this
15 other ideal.

16 DR. PATEL: To get us around this
17 point, can I jump --

18 CO-CHAIR KAUSHAL: I was hoping to put
19 a pin on it and run through our tents, unless --

20 DR. PATEL: I have my tent up but
21 anyway.

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1 CO-CHAIR KAUSHAL: Go ahead,
2 Vaishali. That's your tent. Hans has a
3 suggestion here.

4 DR. PATEL: So I mean we might want
5 to, as you said, put a pin on this and move on.
6 But one thing that I'll say is, you know, what we
7 could do is just get one measure that's kind of
8 would be agnostic to this, would be just looking
9 at reductions in gaps in information exchange
10 experienced by individuals.

11 Now this could be reduced because they
12 have -- now they have access to their own health
13 information through a portal. It could be
14 reduced because providers have now, you know, are
15 greater interoperability.

16 But that would be one way to kind of
17 measure the impact of interoperability on
18 individuals. That's agnostic to this definition
19 of what interoperability is, you know, like in
20 terms of access or not, you know, so it's just a
21 suggestion.

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1 CO-CHAIR SAVAGE: Can you repeat
2 that? Reductions in --

3 DR. PATEL: Reductions in gaps and
4 information exchange experienced by individuals,
5 and you know, and examples would be, you know,
6 not having to bring your chart everywhere because
7 it's been exchanged, not have to do another test
8 result because the test result is already there.

9 Or because they have their own access
10 to their data and they can just show the doctor,
11 the next doctor that they go to, even if they
12 haven't -- even if the doctor hasn't received it
13 from another doctor, they can just show because
14 it's a consumer-mediated exchange. Because they
15 have access to their own data, they can share
16 that data with their own provider.

17 CO-CHAIR SAVAGE: Thanks. Terry.

18 MEMBER O'MALLEY: Okay. I knew I was
19 going to have to use a shotgun to shoot this one
20 down; a pen's not going to do it. So this is
21 about care -- so if we go back to care plan, which

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1 I think is one of the really absolutely critical
2 beneficiaries of interoperability, and it's sort
3 of the mother of all use cases.

4 But I think we may want to tweak this
5 one a little bit and say when I think about care
6 plans that are wrestling interoperability, it's
7 really individuals who have team members in more
8 than one information system. So in order to have
9 a coordinated care plan, you need to have
10 communication. It's interoperability at the
11 basic part.

12 And then the -- then there are
13 subsegments to that. So anyone who's got team
14 members in two different systems, they need to
15 communicate in order to have coordinated care,
16 right? That's sort of the basics. It doesn't
17 matter if they're my folks who are 90 years old
18 and 15 medical problems, or a kid with a complex
19 chemotherapy regimen across platforms.

20 And then I think what you need in care
21 plan, it's really some very discrete pieces, and

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1 we can build on what those pieces might be. It's
2 really, when you think about what's in a care
3 plan, it's really an index of problems that are
4 being managed. So it's sort of a comprehensive
5 list of we call them health concerns.

6 It is a list of team members who are
7 addressing those health concerns. This is a
8 cross-walk between the health concern and the
9 team member, and it's the interventions of those
10 team members who are applying that are a cross-
11 walk to the problems.

12 Then you get the outcomes, and you
13 just hit this series of cross-walks. But if you
14 were to exchange a care plan and you say what do
15 I want to exchange interoperability? It would
16 be who's on the team, what are the problems, what
17 are the responsibilities, what are the outcomes?

18 And then you pass that on to your
19 provider team. You will begin getting feedback,
20 and then you put all that in motion because now
21 you've done it once. Now it gets reconciled,

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1 reconfirmed, readjusted and it's this constant
2 moving piece. It's very complex. This is more
3 than -- this is intraoperability on steroids.

4 CO-CHAIR KAUSHAL: So how -- it seems
5 to me it's our second to last bullet here that is
6 getting at a little bit the longitudinal care
7 plan, and the bullet above it. Frankly, it could
8 be even embedded into there. How would you
9 change the phrasing of the second to last bullet?

10 MEMBER O'MALLEY: Yeah. I'd probably
11 change, first of all the -- sort of the
12 denominator. Who are we going to count, and I
13 think it's people whose care is shared by two or
14 more platforms. So that would be the one piece.
15 Then I think it sort of explodes from there. The
16 second one would be --

17 CO-CHAIR KAUSHAL: So I'm sorry.
18 Would it work if we said percentage where
19 patients and clinicians have access and use of an
20 electronically exchanged -- no, of a longitudinal
21 care plan based on electronically exchanged data?

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1 MEMBER O'MALLEY: Well, the problem
2 with complex care plans is that they rely on
3 people who are not on electronic platforms. So
4 the social determinants, you know, are not going
5 to come across electronically unless someone
6 punches them into the system.

7 CO-CHAIR KAUSHAL: So is it where
8 patients and clinicians -- where multiple,
9 patients and multiple clinicians have electronic
10 access and use of a longitudinal?

11 MEMBER O'MALLEY: Yeah. It kind of
12 gets back to what information, you know. Is a
13 PDF good enough, rather than an electronic
14 structure of data. For care plans, the way they
15 are in the universe of their evolution, is there
16 -- they're going to be -- they're going to be
17 largely paper based. But that doesn't decrease
18 their value or the need for interoperability. It
19 just is not electronic interoperability.

20 CO-CHAIR KAUSHAL: Okay. So Poonam
21 and Jason, this is another topic that we're not

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1 going to get through today. Okay. Keep going.

2 Yes.

3 CO-CHAIR SAVAGE: Terry. Hans
4 actually.

5 MEMBER BUITENDIJK: Can you go to the
6 next slide? The last bullet on the next slide
7 that Vaishali had, I want to make sure is that a
8 thought and a suggestion that was made at the
9 start of the discussion about impact is making
10 its way into that as well.

11 I like the direction that this is
12 heading to be a little bit more general by
13 individuals, but the "i.e." makes it very
14 specific. One of the things that was discussed
15 at the start of the impact discussion was for the
16 patient experience, that as they go from one
17 provider to the next that their experience of
18 having to re-provide the same data as part of
19 their registration, that we can improve on that
20 as well.

21 So that's not a provider experience.

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1 They've still got the same data, but the patient
2 doesn't have to spend as much time in the waiting
3 room to fill out forms again. So I think that
4 should be added as well from a patient
5 experience, so that it expresses that perspective
6 specifically. And then the last comment is --

7 CO-CHAIR SAVAGE: Hans, just to --
8 does the phrase "experienced by individuals"
9 capture that or is it --

10 MEMBER BUITENDIJK: I.e. makes it
11 very specific. So it should be e.g., and then
12 since we're listing sharing of data with provider
13 and the conversation that we've had lists only
14 provider experiences, I would list an individual
15 experience as well over a patient experience as
16 well, to say that -- I'm not sure whether that's
17 the right word -- but reprovision of registration
18 data by the patient, because we as patients have
19 to repeat ourselves too many times giving the
20 same information.

21 Now if there was interoperability, it

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1 would already be there. I can just validate it,
2 make some changes and be done. So that's the
3 comment there, to make sure that's included. The
4 other one is just a general comment, is that I
5 hope we're not going to get to interoperability
6 equals HIT.

7 But certainly in the way that we are
8 at times discussing it, that's what it becomes.
9 So just a general awareness and caution. It just
10 makes the ocean a little bit bigger than what we
11 already have to boil.

12 CO-CHAIR KAUSHAL: Bob and -- Bob.
13 I'm sorry, Mark.

14 MEMBER ROSATI: So this might be moot
15 at this point, but you know, when we were talking
16 about patient portals, I just have to say that at
17 least in the post-acute setting, we couldn't
18 build a meaningful patient portal without
19 interoperability, because the data we need to be
20 able to deliver to, for example, patients and
21 home health requires the integration of not just

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1 what we're doing but what their medications are
2 from the pharmacy, you know, what the physician's
3 doing for them in terms of coordinating their
4 care and a host of others.

5 So I know there was a bit of a
6 discussion about whether or not the portal could
7 be used as a way to look at the impact. But I
8 think if it's fed by interoperable data, it
9 absolutely could be.

10 CO-CHAIR SAVAGE: Tess, you had your
11 card up at one point. Are you taking it down
12 now?

13 No, I said Tess. Okay, excellent.

14 So Bob.

15 MEMBER RUDIN: I just wanted to
16 propose a distinction that might help resolve
17 some of these disagreements, which is there's a
18 thing called, that you could call technical
19 interoperability between electronic systems,
20 where they have to work together, and then
21 there's what might be called process

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1 interoperability, where you have different types
2 of users that are doing different things.

3 Then you don't necessarily need a
4 technical aspect to it. It's kind of one level
5 up. That's I think why we're able to have these
6 disagreements. I'm not sure which one we want
7 to limit be in scope in this Committee because we
8 didn't specify it.

9 CO-CHAIR SAVAGE: John.

10 MEMBER BLAIR: So I definitely think
11 we want technical interoperability because that's
12 what we're trying to fix. The other is an
13 example I think of why we're getting confused
14 here. Probably 95 percent of the PHRs out there
15 you do need true interoperability for, but some
16 you don't. I think that's what's come up here.

17 The value for them, what you get out
18 of them is all the same. But in some of these
19 situations, you do not have connected systems, so
20 you have to have the interoperability to get
21 there.

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1 CO-CHAIR KAUSHAL: Terrific. So I
2 think we are done. In fact, it only took us an
3 extra two hours, but there you go. Yeah, no. I
4 think it was a really, really terrific
5 discussion, and I know that we haven't fully
6 explored this final set of issues. But I'm --
7 we're relying on Jason and Poonam and the team to
8 help us tease this out some more.

9 MR. GOLDWATER: I think -- so it was
10 a great discussion, certainly incredibly thought-
11 provoking and I think it touched on a number of
12 not only the issues that needed to be discussed,
13 but also again sort of underscores why this is
14 not the easiest topic in the world to be
15 discussing, which John Blair makes clear every
16 time he puts his tent card up.

17 So I think what we'll do next is
18 clearly we'll go back and we'll try to refine
19 your thoughts into some more, I think, basic,
20 broad measure concepts, and ones in which
21 measures could be developed from. You know, we

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1 were going to do another part of this exercise.
2 I'm not sure we're going to have time to do that.
3 What's that?

4 Yeah. I think what we'll do is I
5 think -- so that's what I was going to suggest,
6 is that here, I'll sort of take you through the
7 process of what we did. You do have the results
8 in front of you. We did create handouts. So we
9 would probably ask for you to go back and look at
10 those handouts, if you have comments to email
11 them to the Interoperability mailbox and we'll
12 take those into account.

13 I think what we will do is we'll go
14 ahead and continue to develop the report, at
15 least the first draft of it, and include the
16 measures accompanying, incorporating whatever
17 comments you all make between now and then. Then
18 as we have a discussion on the draft of the
19 report, then we can go over it in a little more
20 detail. So Hiral, I will leave that to you.
21 Don, don't put your card up.

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1 MS. DUDHWALA: Sure. So this is --
2 some of this is a recap from our previous web
3 meetings, just kind of to refresh your memory
4 about the existing measure review and the
5 methodology. Again, this was a part of the
6 project is to identify and determine
7 interoperability sensitive measures.

8 So you know, a methodology was
9 designed to review these existing measures,
10 looking at electronic measures from multiple
11 sources. They were selected for evaluation.

12 Next slide. So we did develop a
13 measure score card which many of you have seen
14 and used yourself. But you know, again this was
15 done before the in-person, so we were looking at
16 the following domains, looking at electronic
17 health information availability, electronic
18 health information usage, electronic health
19 information impact and rating each measure based
20 on those three domains.

21 Next slide. Okay, and these are just

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1 again like the clinical topic areas that the
2 existing measures fell in. Again, just a review
3 from previous web meetings. Next slide. So we
4 started out with again 243 electronic measures,
5 which we took from the AHRQ National Quality
6 Measures Clearinghouse database.

7 It started with the -- obviously, that
8 was a huge number of measures. So our NQF
9 clinical staff took the first tackle at these
10 measures using that measures scorecard that you
11 all are very familiar with and were able to narrow
12 it down to 68 measures.

13 There was a team of M.D. and RN
14 including myself, Helen and John, as well as
15 other clinical staff that work here at NQF. So
16 we were able to narrow that down to 68 measures,
17 which are the measures that we shared with the
18 Committee members. Those are the measures that
19 were reviewed by you.

20 Next slide. Kind of where we are
21 right now. So we divided the Committee into

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1 three groups, and each group reviewed 22 to 23
2 measures. Again using the same score card,
3 looking at usage, availability and impact.
4 Again, the lowest score possible would have been
5 a 3; the highest score possible would have been
6 a 9, making it the higher score would be more a
7 higher rating to identify interoperable-
8 sensitive measures.

9 Next slide. So we did a little bit
10 of a high level analysis after the Committee
11 members did return those score cards. So we did
12 have a good number of you complete that exercise.
13 Eighteen Committee members completed the measure
14 score card. You can see by group how many
15 members did review the measures in those groups,
16 so we got a very good number.

17 So what our team ended up doing with
18 those results was compiling it and looking at the
19 scores. We discussed internally and we looked
20 at the calculated median, some of the Committee
21 scores.

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1 Next slide. Okay. I'm looking at
2 those scores. Well, we saw for each measure
3 calculated median sum of Committee scores. So
4 where the Committee members had a median score of
5 3 for the measure, there were about five measures
6 of those 68. That's with the median of 3, so you
7 know a lower score.

8 You can see six measures with a median
9 sum of 4. About, if you look at the scores of 5
10 and 6, there were 35 measures that scored in that
11 category, and then 22 measures that scored a
12 median sum of 7, 8 or 9, so 7 and above.

13 Next slide. We also took a closer
14 look at those 22 measures that had the highest
15 median sum. So we did break it down based on
16 clinical topic areas, just for you to see, you
17 know, to identify what we found from the results.

18 So you can see the various clinical
19 topic areas and the number of measures, from
20 those that scored the highest, and you can see
21 some of the topics that we did talk about in the

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1 last couple of days, looking at patient safety,
2 care transition. So you can just take a look at
3 that. Next slide.

4 MEMBER BUCKNER: Can I just ask a
5 question? Any thought on why --

6 CO-CHAIR KAUSHAL: Mic please.

7 MEMBER BUCKNER: Any thought on why
8 oncology blew everybody out of the water? It was
9 statistically significant.

10 MS. DUDHWALA: I don't know. I guess
11 that the Committee members who were looking at
12 some of these measures, if they wanted to share
13 their perspective.

14 CO-CHAIR SAVAGE: Were there more
15 oncology measures than in other areas? I don't
16 know.

17 DR. BURSTIN: I think some of it gets
18 at -- actually it looks like screening was under
19 oncology as well. I think things like
20 colonoscopy, sigmoidoscopy are going to be so
21 interdependent, so dependent on having that data

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1 available. Even some of the oncology measures
2 require you to have data on the actual tumor
3 markers and pathology.

4 So I think some of it is the
5 information availability. It's not -- the
6 screening are separate, but I think some of it is
7 the information you need.

8 MS. DUDHWALA: Okay. Next slide.
9 Okay. So what we were able to compile for all
10 of you today, we did pull up a list of all 68
11 measures that were scored by you. So you'll see
12 the measure name, you'll see your comments, which
13 were very helpful as well and the median score.
14 So there is that one packet with the 68 measures
15 reviewed by all the Committee members, and then
16 we did make another packet for you to take a
17 closer look to the ones that did actually score
18 higher.

19 So the 22 measures with a median score
20 of 7 and above. So you have those two to take a
21 look at and give you a better idea what your

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1 scores showed.

2 So next slide. So I don't know that
3 we're going to really have any discussion, but
4 you know again the next steps is really looking
5 at those measures and I guess giving us feedback
6 on your thoughts and next steps that you would
7 recommend for our team, any other additional
8 recommendations to assist with identifying those
9 set of existing measures that could be used for
10 the framework.

11 MR. GOLDWATER: I have more -- if you
12 go through the 68 measures overall, and you see
13 measures that scored low and you have questions,
14 where you think maybe those are sensitive to
15 interoperability and were not scored correctly,
16 by all means bring this up. Yes Terry.

17 MEMBER O'MALLEY: Just a question.
18 Would you be able to cross-walk those to our
19 framework? So sort of which ones might fit under
20 what --

21 MR. GOLDWATER: Yes, yeah. That's

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1 the plan.

2 CO-CHAIR SAVAGE: Hans.

3 MEMBER BUITENDIJK: Just a general
4 observation, that from a challenge perspective
5 with these measures, a lot of them, looking at
6 them, interoperability is not the only factor
7 that influences whether the measure goes up or
8 down. I think today during the -- today and
9 yesterday during the framework discussion,
10 particularly when we're not talking about impact,
11 there is much more clarity around things that are
12 and measures that are directly attributable to
13 interoperability.

14 The moment we go into impact, we saw
15 the challenges that we had on how to do that. So
16 the question that I have is that how do we intend
17 to progress with these, because it seems that
18 without asking the stakeholder involved with that
19 measure whether the data actually came from an
20 interoperable electronically exchanged data, we
21 cannot use those measures as they are. They

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1 would have to be adjusted to filter out
2 everything that did not attribute to that one.

3 I'm curious whether how realistic that
4 is and what the thoughts are on that approach,
5 because we cannot look at any of those measures
6 I think. There's very few, a handful where you
7 might be.

8 But otherwise, if the measure
9 improves, was it really interoperability that
10 improved it? Or was there something else going
11 on? I mean most of them there's something else
12 going on, most likely. So how are we going to
13 deal with that?

14 Quality outcomes, these kind of
15 measures in the spreadsheets are very, very
16 sensitive to that and from at least the ones that
17 I've looked at. So it's just a question and a
18 concern on how do we progress with that.

19 CO-CHAIR SAVAGE: Alan.

20 MEMBER SWENSON: Yeah. I guess I
21 just have a question along similar lines to both

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1 of what was just said. But a lot of these
2 measures, as written, do not require
3 interoperability necessarily. They require
4 interoperability if you assume that the
5 information it's talking about is outside data
6 and then you're using it for the measure, which
7 may not necessarily be the case.

8 So I guess my question is what is the
9 purpose of these measures, and are we intending
10 to rewrite these to be part of what we're
11 publishing here, and a lot of these are, also to
12 Terry's comment about the framework here, a lot
13 of these are about impact. Like there's very
14 little in here about exchange of data, about
15 usability of data.

16 Some of it is use of data, but most
17 of it's the impact of information. So where are
18 the rest of those going to come from?

19 MR. GOLDWATER: Before I get to Mark,
20 these are all directly related to the impact
21 domain. They're not supposed to cover the

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1 others. These are all related to the impact. Go
2 ahead.

3 MEMBER FRISSE: I've been reflecting
4 on that, because that's the central conflict
5 that's been going on for two days. The first of
6 the three charges was to understand
7 interoperability and the determinants around
8 that. The third one was to look at the metrics
9 that could be improved with more interoperable
10 systems. Then the one in the middle was identify
11 and prioritize measurement concepts within the
12 framework that could be leveraged for a future
13 measure development.

14 So a lot of people said okay for the
15 first one, doing more to measure interoperability
16 itself. I've always been looking at the third
17 one. What are the quality metrics that if we go
18 across care transitions into the home, new
19 technologies and all that, we can really
20 strengthen the metrics we have?

21 So I agree with you. There's only

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1 care coordination, transitions in care and I have
2 one other on this list that I saw, almost
3 essential for interoperability. I would argue
4 that almost -- someone, somewhere has almost all
5 the metrics for the rest that they can report.
6 So if one person's enough to have the metrics,
7 then you don't need interoperability. If
8 everybody's got to have the metrics, well then
9 you do. But I would argue these don't.

10 So part of this is a fundamental
11 issue, again that there's a tension between us
12 trying to measure interoperability and all the
13 things that are important to get to where we want
14 to be, and my concern which exists. There's all
15 this obvious stuff laying in front of me with the
16 new machines, VNAs, all this other stuff, data
17 stuff, where we can do stuff right now and hit a
18 home run.

19 So that's my bias, of course, as you
20 can tell. But there's a central conflict here,
21 and we have to put both of them on the table and

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1 have to reconcile that. That's my belief.

2 CO-CHAIR SAVAGE: Vaishali.

3 DR. PATEL: Sorry. To Alan's
4 question related to like the other measures,
5 where are the other measures. I mean that might
6 be something that, you know, we could talk about.
7 Like are there existing measures that map to the
8 measure concepts in the other domains? Like
9 meaningful use measures, MACRA, MIPS, I don't
10 know.

11 Anyway, but we can look. We also have
12 surveys that we do that could be tweaked to --
13 for example, with the user perceptions on the
14 usability piece that we could include. So in
15 thinking through I think next steps, that might
16 be something for us to consider in the
17 implementation of the framework.

18 CO-CHAIR SAVAGE: Helen.

19 DR. BURSTIN: You know, Alan raises a
20 really interesting point that I think we need to
21 spend a bit more time thinking through. We did

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1 these up front initially. The idea would be that
2 these outcomes would somehow be -- and processes
3 would be related to the availability of
4 interoperable information. There would be an
5 impact statement.

6 I actually think some of what we've
7 actually been talking about, some of these
8 measures now, if you really look at it, it's
9 actually about the availability of structured
10 data. So some of the results may change, not
11 because interoperability is having an impact, but
12 because it's creating a better measure.

13 So I do think there's a little bit of
14 teasing out to do here, and the classic example
15 is, you know, for years and years and years there
16 were measures of BMI, the body mass index, with
17 terrible rates of performance. 15, 20 percent
18 in charts. It magically becomes something that's
19 part of meaningful use. It's part of every issue
20 in America.

21 It's upwards of 98 percent I'm told.

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1 It's just an automatic thing you've got hyped on
2 once weight's done. It's always in there. It's
3 not as if we've had a bigger impact on BMI. We're
4 just able to measure it better. So some of this
5 naming we go back through this less, I think
6 Vaishali is right, and think about whether some
7 of these are not so much that interoperability
8 affects the outcome, demonstrates improvement,
9 but in fact demonstrates we're able to measure it
10 better. It's a really interesting idea. It
11 hurts my head at 20 to 3:00. But I really like
12 it.

13 CO-CHAIR SAVAGE: Have we given you
14 guys what you need for now? Is it time for public
15 comment?

16 MR. GOLDWATER: Well, I think we have
17 everything we need, and I would just -- I was
18 going to echo exactly what Helen said, that the
19 object here is not does interoperability lead to
20 a better outcome, because you're right Hans.

21 That's, that would be very, you know,

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1 somewhat difficult to be objectively assessing.
2 But it's does interoperability lead to a better
3 measure? Does it lead to a more comprehensive
4 measure. What's that?

5 DR. BURSTIN: There are probably
6 measures like readmissions, where actually having
7 the information has an impact on the outcome. I
8 think some of these we're just getting better
9 data.

10 MEMBER BUITENDIJK: Yeah, and I think
11 we need to keep that distinction, you said when
12 do I get just a better measure, that it's more
13 reflective of what's actually going on, which is
14 a good thing, and do I get improvement in a
15 measure because now I'm sharing data and as a
16 result I get a better outcome?

17 I certainly have a bias when I was
18 reading this more on the latter part, and see
19 it's that can you -- can you correlate increases,
20 improvements in interoperability that I can see
21 improvements in these measures. Very little of

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1 those out there. Not to say that they cannot
2 contribute, but very little that I can do without
3 doing any additional documentation from the
4 clinician or anybody else to say was this really
5 the result of interoperability or not.

6 And more that we have to ask for that
7 information. We're already overloading
8 clinicians with documentation. We don't want to
9 impose more documentation requirements just to
10 better get -- to get some measures out. So
11 that's the reason why.

12 DR. BURSTIN: Yeah, and some of them
13 may be very reflective of availability and use
14 and all the things we talked about. So some of
15 them may still be interoperability sensitive, but
16 not just on impact. So I think that's a way to
17 frame it. It's also interesting. There may be
18 a way to take a couple of these examples from the
19 report and almost use them as case examples,
20 where you really begin to tease out the
21 attributable effect.

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1 That might be improved performance
2 based on availability of data versus improved
3 performance based on the fact that data is
4 flowing and care is getting better. I mean we
5 can just pull out a couple of disparate examples
6 because I think they really -- it's a really
7 interesting idea.

8 MS. BAL: Operator, could we open up
9 for public comment please?

10 OPERATOR: At this time, if you'd like
11 to make a public comment, please press star then
12 the number one on your telephone keypad. Again,
13 that's star 1 to make a public comment.

14 (No response.)

15 OPERATOR: And we have no public
16 comments at this time.

17 CO-CHAIR SAVAGE: So Vanessa, you
18 want to walk us through the next steps?

19 MS. MOY: Sure. So for the Next
20 Steps, thank you all for your feedback and just
21 taking the time just to be here for this

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1 conference. We really appreciate it. So the
2 next step is that we have a webinar number five,
3 which is follow up on this in-person meeting,
4 which will be held on April 5th, 2017.

5 And then after that, we'll also have
6 another webinar on April 20th, which would be the
7 feedback on the proposed draft framework which we
8 discussed today about the domains and subdomains,
9 and we'll be drafting that up. I'll hand it to
10 Poonam to talk a little bit more.

11 MS. BAL: Just so -- a little
12 clarification. We talked about a lot of things
13 today. I know there were some topics that people
14 felt we had to leave a little early. We've been
15 keeping notes and basically the next goal is to
16 start taking everything that we've learned today
17 and build it up and basically make it a little
18 more concise.

19 So as we did this morning, take your
20 feedback, make it a little more organized and be
21 able to get additional feedback. And as you

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1 mentioned, during our measure concept discussion,
2 some were not measure concepts. Some were more
3 high level ideas, and we will definitely need to
4 meet as a team to determine what's the best next
5 steps.

6 But we'll be reaching out. So look
7 forward to many emails from us about, you know,
8 what are next steps and how we want to be as
9 concise as possible using your time. We do have
10 a couple of webinars before this framework will
11 be going out for public comment.

12 We want to make sure we're using that
13 time wisely. So we'll keep you updated and email
14 you and let you know if there's any other things
15 that we need. Any questions? Okay.

16 MR. GOLDWATER: Thank you all very
17 much.

18 MS. BAL: Thank you.

19 CO-CHAIR SAVAGE: Thank you so much.
20 You have -- both to the people who are here and
21 the people who are not here, it's an amazing team.

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1 Thank you.

2 (Whereupon, the above-entitled matter
3 went off the record at 2:47 p.m.)

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