

ChORUS Bridge2AI Standards Office Hours-20240226_175429-Meeting Recording

September 26, 2024, 4:55PM

5m 2s

Talaguna, Palina 1:04 Hello everyone

Goodrich, Heidi E. 1:08 Hello

Alvarez, Maria 2:11 Tell me now

Sorry about that. We're running a little over on the last meeting. Looks like everybody on the call has been here before so, Palina, would you like to start take things off?

Talaguna, Palina 2:11 Yeah, thank you, Mark, Tim.

Let's start. So good day.

We're going to introduce the Seven operating protocol for cataloging unmap terms, and collecting and unifying these diverse data is challenging because it includes various types. And our research consortium relies data from 15 different research machine learning and artificial intelligence. As you know, and collecting and unifying these diverse data is challenging because it includes various types. Like structured information like structured HR, images and workflows.

To manage this complexity, we use the distributed ledger blockchain technology common data model CDM CDM and this model helps standardize our data sets, making integration and analysis more straightforward. We're also aimed to develop specific concepts within the CDMOP to handle multistakeholder effectively, and these diverse data sets.

These mappings were validated by 14 clinical experts and they assist in this mapping. Leading to the unmap terms and our standard operating protocol that we will share today addresses these issues by providing a clear process for identifying and cataloging decent MapReflex.

So we will offer guidance for documenting them and ensuring they are included in the future work and analysis. Despite the fact that this SOP is currently marked as pending or awaiting approval, it has already undergone review during which changes and improvements were made and if you suggestions and comments after today's meeting, THESE will be approved Friday.

So for more details and show you the page with SOP and also show the page with. This current place of this SOP.

The end of the link. In the chat and now I need to share my screen.

OK, for you should be able to see my screen and. My background is already.

It's a centrally managed and multi-source terms within the chorus bridge to a project and this SOP provides detailed steps for integrating existing mappings, identifying unmap terms and documenting them for further action. This is not applicable to all project team members involved in data mapping and mapping creation and new procedures.

And particular attention we need to pay to this unmap terms. That's vocabulary schema that all tables. Presented in our unmap CDM instance, the next sub step is to confirm that all required standard vocabularies have been had been downloaded from Ontology Alliance installed and they are from the latest official Ontology vocabulary release.

The second sub step in the first subsection is import mappings into the vocabulary tables. In this case you need first access the mappings called bridge 2 AI ontology available in the chorus mapping stage.

Ontology CDM files. Just to show you. This place. Chorus mapping stage ontology and there are CSV files with all delta tables for each unmap CDM table.

Let's come back to this place. So if you don't have access to these directory, please request a form from hosting. And there is a mail address.

After this step, if access is granted, lower the mappings from chorus mapping stage into the corresponding tables within the CDMOP CDM vocabulary schema. So we populate concept ancestor using concept ancestor delta. We also populate concept class table using concept class delta. We also populate concept table using concept DCL. Concept relationship using concept relationship delta.

Concept synonym using concept synonym delta. Source terms to concept map table using source to concept map. Just source to concept map vocabulary table using vocabulary delta. We also offer mapping metadata table with DCL and possibility to populate this table with well information related to it. Precision mapping, origin and format. And now we can go to the second step.

Second step is to prepare concepts for mapping. In this place will compile a set of source terms requiring mapping. We need to prioritize these terms, usually based on their frequency, and also if they're important clinical relevance. So first we categorize terms, based on their respective domain within the CDMOP CDM and these domains can be the most frequent measurement, observation, measurement values, condition, procedure, drug and device.

Step 3 is to develop matching algorithm. User usually we use join query and we can implement the following matching techniques. First one is a case normalization, so we ignore letter upper case and use one of them. Then prefix remove some prefixes acronym without importance.

Sort of clinical terms can be present in the source data, and they also can be trimmed. Then terms splitting. In some cases it's relevant to split the source terms to retrieve more relevant resource description. And also removing redundant information.

Also, there is an option such as a full name mention. Concept synonym terms matching using the concept synonym table. And another option for matching techniques is removal of digit spaces and special characters that can prevent the matching of these terms.

Also, fuzzy matching is applicable, such as Levenshtein distance or Jaccard distance and also bag of words comparison that was demonstrated by Jaccard previously. So there we also consider combining multiple matching techniques to optimize accuracy.

And after this we perform mapping and validation. So finally we execute the join query to identify conceptual mappings between our source terms and target terms. This we usually validate the generated mappings for accuracy and completeness, and then create a delta table containing source descriptions that remain unmapped.

This may occur either in a single unmap mapping or using a join for mapping. This information can be covered as a separate SOP or additional guidelines. I mean that it's important to verify your mapping using manual mapping and check tool, but it's not obligatory. I mean that if there is, if there is, it's a very difficult to perform this, it means that you can skip these steps and only perform joining techniques to define the unmapped terms and we go to the Step 5.

So it's documenting and sharing unmapped terms. Now we can start the delta table from map source terms, ensuring all relevant metadata is captured and organized for clarity and ease of reference. What I mean by metadata?

So here all, we need a field indicating the origin of the term. It can be source table name if it's proprietary. For instance it can be replaced by some identifier like flow sheets or procedures or conditions. So simply of the source data. Then the field shows the number of times the source terms appears in the source data. So it's a frequency of occurrence of term in the source data set.

Usually it's numeric. The next field is a source code. To unique source code associated with the source term or concept. It can be numeric can be alphanumeric. Value can be just.

The same as a source description. It also can happen, but anyway we need this field. The next field is source description. It's a textual natural description of all corresponding to the source code. Then we have optional fields that are applicable for particular domains. For instance marks, source value and marks source unit.

So marks source value. It's the most frequently absorbed value for a specific source term across the data set, and it's relevant for observation and measurement domains. And it means that. Particular value can help to map unmap terms and better understand its semantics.

The same like Mark source unit field is the source measurement associated with the most frequently observed value and also it's applicable to measurement domain. This means that for conditions or procedures we do not use mark source value or Mark source unit and comments. The field captures notes or any other text relevant for an unmap mapping or challenges encountered or who did the attempt for to do this mapping.

So any kind of information can be stored here and it's important to note that for observation and measurement, usually we need to indicate units separately. And they can be extracted from a separate table. This can be embedded within the source description and they should be extracted from the source description. Then we map these units to standard units in the Anatomic vocabulary, if unit cannot be marked with document.

In the delta table with appropriate source code. In the case source code and source description will be described in the unit. And another important point we need to recognize the measurement value also can be a concept. It, for instance, qualitative results like positive or negative. They can be mapped separately to standard CDM concepts.

So we recommend mapping to map these values and also document any unmapped values in the delta table. Created separately for values mapping and for the last step now we distribute the delta table to the standard team using a preferred method. I can e-mail, so I kindly ask Marty to help with this.

So I can directly to Marty Alvarez or use GitHub. I'm possible to update the file with unmapped terms to the specific unmap terms. Folder in Chorus mapping stage repository I will show you. So here is unmapped folder. And example of table with fields to be populated.

And coming back to the end of this SOP. So name and description. We also ask you to apply specific formatting as shown here. Through the upper camel case. Through the camel case we have unmap category which specifies the semantic category of unmapped terms. It can be flowchart terms or flowchart values or conditions or procedures.

Then we have in the extension and flow sheet table. A flag format. And also important to mention that we would ask you to choose the method for sharing the delta table of a maps or storms that adheres to your organization data policy and addresses the proprietary concerns.

So ensure that the selected approach complies with your security protocols and everything should be OK. According to additional considerations, they are very good. So regularly review and update the mapping algorithm to improve matching accuracy. If the map and algorithm is good, it means that you can reuse it again and again and consume it according to each mapping and also establish clear guidelines for handling ambiguous or multiple matches or any other kind of flag that you applied for selecting the best mapping.

So that's it. According to this SOP if you have any questions, please let me know. I would be happy to answer.

Williams, Andrew E. 2:14 Thank you so much, Palina.

Just want to compliment a couple things you said. One thing that I'm an automatable task, you can take that burden off you. As Palina said, it's possible if you have the resources and the interest to try and do some manual mapping to do things that extend what can be done automatically using the techniques that you covered, but we're really not expecting that.

Not only because as you know, it's a little time consuming because the expertise to really a bit hard and I don't. Not necessarily realistic as to why it's hard to learn to. Cut on a notebook for a little bit, or maybe be usefully didactic.

That's it. Not a question? It'll be usefully didactic.

Why is this hard to do? You might think a natural smart person would think. The name for a concept description.

It's going to kind of tell you what that is, and that's only really very partly true. This whole thing of working concepts that are standardized. Means that the meaning isn't inherent in that description.

Most of the meaning is in the relationships to other concepts. You know what something means by knowing it's parent of this thing is a child of this thing. It has two other attributes.

It has two other synonyms. It's not all wrapped up in the description. It has to be represented.

In systems that use formal description logic that allow the whole thing to be computable in a particular way that has specific rules associated with it so. It's both equivalent to have some transparent meaning. When you take into account all of the relationships and attributes and synonyms and so on, and you know its domain and you know the others you know things about it. Not all of that being encapsulated kind of in a description.

So that's why it's challenging for that reason. I understand those hierarchical relationships and in relationships other attributes that might be associated with things, you have to have. Best kind of thing in the space where these vocabularies are and how they're used and how they're generated to kind of give that for what things really mean. This specific task and the guidance that Palina has provided on, say, don't label that you see in your flow sheet structure to really have flow sheet things.

How about and why does it match this thing or not after she's deleted? It's a very useful, important thing and it's a very slightly misleading, it's like that's how you understand the meaning of all these concepts in a lot of ways. You don't right we need. This whole structure to really have flow sheet things. You see when you're trying to go about this task, if you decided to like that on locally, it's kind of you need both the content expertise, somebody who understands where these flow sheet data comes from and this party. Or else we'll talk about how ontologies work. Some of that description logic plays when you're actually trying to use it or algorithms.

How about what the domains mean? So on and so forth and you're of getting you know, some really really maps on that through this, if you don't have a library. And it's still a bit to take on. And that's, I just wanted to kind of amplify kind of why it's, you know what the.

What we mean, we say the sort of ontology specific expertise for doing this the right way. What kind of things that Palina and others are bringing to the table and that. It's it's, it's that stuff. And having been involved in it for a long time and seeing how it plays out, that really is required to do the job in the way that we want to, you know, make sure it gets done so that the algorithms work.

As they're supported, and people interpret the results and so on and forth. So that's I don't think we've ever covered that specific thing about how ontologies work and what definitions mean. Descriptions between it's a lot to do.

I'm not really trying to make sure you walk away from this table. Each finding like you understood exactly everything that because each work, and what we mean by axiom? What formal description?

Logic means what? You know how you know how you actually do that? That's that's the stuff that kind of, you know, it's it's a set of skills and so on that we don't expect people to have or to have the interest to really acquire a lot of. So I just. Wanted to address that that, additional thinking you're doing this and all of the work you're doing in reading and.

It's a little bit of a cautionary tale, though, about like making on a lot of mapping locally, but a right seem like it's more straightforward than it is. Probably does seem more straightforward than it is. So that's why we're trying to automate it and we're going to take all the things that you contribute from you and you work on them centrally and collect them and develop, you know something that combine.

Ontology expertise and clinical expertise and algorithms to try and. Take on this whole big table of things that haven't been mapped already and to develop good contributions to the unmap vocabulary that that handles all of that and make it standardizable and computable. So it's a little hard worded.

Hopefully that'll be useful context though. Anything to add to that Palina? About that.

What I was saying about why it's why it's so great to have a police on your team. Just mostly.

Talaguna, Palina 2:17 Oh, I have nothing to.

Williams, Andrew E. 2:18 Mostly that's what that was like. What?

You know, it's it's not as easy as it might seem, so. I think we had some other things on there. Are there other questions about this process and how it might play out at your site so.

I'm expecting I guess, not much in a way. Of approved modifications of this. So I think it was very carefully put together. I'm really into if there is some. We're certainly welcome to, but we're expecting it to be approved.

That's why it's been born, but there are other concerns about how you might actually use the SOP rather than modifying it. But like what you think of this process and how it's going to play out at your site as you try and do?

Baldwin, Rastan 2:19 Hey, Andrew and palina, I just had one question.



During the validation process, which is where we take the mappings provided and review it with what we have. I can notice anything that it seems like it needs attention. Do we also submit in the same format? Because I think I have something for the untagged and I'm sorry if I missed this, but we have questions about the things that are mapped, but we think that our values look different.

Taghwa, Paulina 23:33
Good question.



Rabalababan, Karati 23:40
And we want to bring to your attention. What do we do about that?



Taghwa, Paulina 23:45
Yeah, this is a great question. And this is a topic for separate.

Sophia, what do we do with a questionable mapping? But in fact, yes, you could share them with us as well in the same way, and it would be great.



Rabalababan, Karati 23:59
I think not sorry of Eddie's looking at some of these mappings and we notice a couple of things together and I don't know if it's gonna be a huge number or not, but I just wanted to, you know, since that if there was a process for it.



Williams, Andrew E 23:55
So let's go ahead.

Taghwa, Paulina 23:55
What else I could just set up something with you guys and talk through it.



Williams, Andrew E 23:58
Set up a commoner right now.

The thing is, the question about a mapping versus can't map and how the same mechanism that Paulina just described can be used for both and will probably differentiate it later.

Paulina is saying that like for right now so that you can take the stuff you're finding with Eddie and do something with it.

Let's just use exactly the same mechanism that.

Aplicia described.

None the indicator is in the file.

Questionable, but questionable in the file.

Other thing that you're submitting and add use that as the indicator for the time being, but will come back with a hint what you do with questionable versus, then what you do with campaign and make that sort of a less kluge solution. That's not a terrible solution, but does that seem like it's going to work for the time being?

Rabalababan, Karati 23:58
Yes, I will. Thank you.



Williams, Andrew E 23:59
Efect.

Anything else related to this SCP?

Violent and offensive appraise for all that went into it.

but assessment.

Yes, I think so. I'm with you.

So we've got a great growing set.

We want to get that done.

We're right with you. When we know the size and complexity of your whole bridge to AI project needed some strategy for getting single source of truth about things.

Terms and other people started on building this one.

The strategy for doing that?

And then there's Marty and others have done that and since that time we've taken, various people have produced what you just saw.

So that's the sort of the definitive process for doing some part of your work.

And then there's something we've shown you before, but we want to show again that it's starting to be populated more.

We really want to kind of start to drive.

People more often to this as the place to go to get answers and Marty.

So.

Busy calendar.

Is on full view.

Ally, there we go.

Many, you want to take it there?



Alvarez, Marta 23:55
Sure, yeah.

So obviously there's been a lot of people working on this, and I think the originator of creating this was Jared.

And I have been helping to try to link some things to this page, but we wanted to just at least start to talk a little bit about what we're doing and maybe get some feedback and

Guidance from people about what might be useful moving forward, but the greater goal now is to get up into basically 2 sections.

The one on the left is for data generating sites and the one on the right side is for if you're working with data infrastructure in the cloud and then going back to left side, the data, the data generating sites, there's two ways to look at this.

There's CD through ODS, and then there's data source.

Currently there's ODS through ODS.

So it's linked sections and from the data source. Obviously I listed simply by source.

Currently, there's two final.

And some presentation and linked to the graphic.

And I can show a little bit of that.

And also adding the mapping.

Calculating of untagged terms sort as well. So that'll be 4.

And then there's some table that we created from. How to find an SCP on this page which will again all of this is a work in progress, but it'll show an example. I'm just gonna click on one of these so that you can see what.

It looks like currently.

Anything that has that looks like a link obviously links to the SCP page.

Example of the first SCP that was approved and linked, which is for clinical validation of mappings.

Sorry.

And then if you come over to the data source section.

That has some things mapped here.

So there's basically two ways to look for Seps currently.

That give a little bit of a good intro.



Williams, Andrew E 24:44
It does.

And if you were doing, you know, it was clear that there's a lot more than Seps here, right?

And as that section in the lower right shows, there's discussion, office hours, ways of monitoring progress that are also linked here.



Alvarez, Marta 24:50
Yeah, yeah, yeah.

Williams, Andrew E 24:55
So it's a very useful page for a number of different sites.

So maybe if you click on one of the same ones you showed before, you can see how you've done the great work of linking where the office hours are. You can see them.

Labelled and other kinds of resources.

Could have, at some time that we're dependent to some of the tasks that are involved in standardizing data elements here.

And so it's not only a page for Seps, but for some of the guidance that have been provided on office hours or some of the code that's there and so on.

And that's the only thing I could add.

It's a great, to elaborate stuff we've gone over before the CD through ODS were meant to.

Simplify the overall model of workflow.

From a data generating site's perspective, is getting the data, standardizing it, linking it, making you know the different modules of data, integrate with one another.

So it's a very, useful analysis to be done.

So how the ID structure look?

Procedures linked to the workflow that are required as a result of those procedures, for example, so the DMR data.

Is linked to the workflow data and so on.

That's what's covered there, the deidentification.

And quality assessment of data.

And then how to submit it and the kind of feedback that one might get for ODS or so that ODS is meant to be easy to integrate things like where aren't on my progress of doing this meant to be organized that?

Why?

And then actually and probably less relevant to most folks is the call sheet.

A similar kind of call of activities associated with data, it's submitted to the cloud and being assessed and eventually approved or merged with the main data set. That's a general how that's organized. So the relevant materials all meant to be easy to understand and so.

Marty said.

We're going to improve this if it's too hard to understand or you don't find it.

Useful? It's really only good if it's useful to you.

So we're eager for your thoughts on.

That's the only thing I would add, but thank you Marty and everybody, Jared and Chester and Sierra and all the people who shared seps and delivered office hour staff for generating all that content and putting it here.

Again, I'm going to leave for the video appraise and gratitude job at some of your questions answered in one convenient location because of the hard work of Marty and Chester.

It's just it.

It's just that good.

I can't contain myself either.

Going to have to upload publicly for it, OK.

Dir, do we have in our agenda today Marty?

That's it.

We done? We gonna let those were the two topics we had?



Alvarez, Marta 23:54
Those are the last topics that we had.



Williams, Andrew E 23:57
I have other things to bring up because we had a really productive meeting with.

Yeah, I'm going to, on other ones that.

And a couple of things came up and I guess maybe we can have a little bit of a discussion about that we you know that we're involved in trying to get an initial bid at one of the things we know is required, which is being able to you

know provide CD for all of that data and so on.

And that's a current gap in the ODS, obviously we're gonna fill.

gonna be reporting to you on that. Other things, I'm not sure we do have yet, but I want to bring up. Specifically since you're a call, Eric, you know I opened that death data are in a little bit of a special category because death as an out

come to report and we know there are inherent limitations to capture of death and cause of death when it happens in hospital care and some.

Strategy for

Demarcating at the end, when the chronic data is finalized as to where we think sites have had access to out of hospital data where they have not probably good idea.

So I want to run that by you.

I advocate for that because I think it is to often an important outcome.

It's one that we want to pay special attention to and have metadata about so that people don't go in and say, oh, all these sites have the exact same kind of completeness and granularity with respect to their death data capture.

The other.

We might think where sites don't currently have access to it or not aren't sure where they do.

We're probably going to have some things inside Epic user work for where we at Tufts are aware that those data are stored.

So just because they're possible to do an epic doesn't mean it's being done at your own epic site or your own server site.

I think we want to share that so that you at least check know, again, I think it's.

Extremely important outcome and we want to make sure that it's a way that we might not underlie all the other kinds of data we get but really help understand both how to maximize access to it and

capture appropriate metadata about the sources to which we're confident in its completeness and so forth.

So Eric, you have thoughts on any of that?



Rosenbluh, Eric S, MD 40:37
For death data.

Why? How would we not capture it? In other words?

Or know it's sort of a negative question that.

So we can you know that the death data is in the electronic health record to some, I know Center very well. But in Epic and the challenge about there is that if you're looking at a patient from a year ago, they could have died after the discharge, right?

So we're asking about death during the discharge?

Would that be possible for that patient?

And that's where the data would come from.

Another source, it'd be to connect to discharge.

Any other thing about the hospital's admission or any you asking about follow up outcomes of if and when the patient died? Because then you're dealing with, I think a couple other sources public, you know, data sources as well as

Flags on the record, which you may not have the exact time for.



Williams, Andrew E 41:02
One, talking about things like National Death Index or state death registries that would supplement what you see in Epic, where that's captured.



Rosenbluh, Eric S, MD 41:45
Yeah, OK.



Williams, Andrew E 41:50
So I think it's very well worth whether or not they use the capability of Epic. To do that, I think you clearly see it at MGH.

It's not a given that all sites will do that and do it in the same way, I guess some special attention to it because of its importance as an outcome in the main thing it's.

Where we think we're getting.

Information about death and of cause of death. So it's not necessarily just the occurrence of death where you've got something in an in hospital record about it, but where the additional adjudication about cause of death might happen subsequent to that part of whatever's happening in the

hospital or state registry.

Where that information is, we've got a little bit more understanding about cause of death.

I think that the kind of thing we're making sure we're just paying extra special attention to both in terms of helping sites get that data.

And then being transparent about where we think it's come from coming from the end of the day, yeah.



Rosenbluh, Eric S, MD 42:40
Do you think we have to pay or each site for that information?



Williams, Andrew E 42:54
Don't know. I think I could say we get it from the Massachusetts Department of Vital Statistics tends to be at this point about six months out of date.

They just say.

They opened up the release cycle for it during COVID because there was a need for more timely releases of data, they're slightly less confident about some of the results of adjudication because it's faster than it used to be.

But they give that for free.

It's easy to just ask them for it, and they'll give it to you.

Yeah, I don't know.

How that applies to all your sites in charge. So I think it's probably variable and but just in general paying extra attention to it I guess is one of the main things I'm floating here is something we probably want to do because of how important death is.

It's a nice game.

That makes sense to you.



Rosenbluh, Eric S, MD 43:47
Yeah, I do.



Winston

Maybe we should be doing a little survey of sites, whether they are aware of source, that they could use.

The national index you have to pay for them unless and.

That's paying the unique identifier of the patient, so we couldn't do that centrally, no.



Williams, Andrew E 44:10
You could use a private reviewing record linkage strategy like we do in some other context to do that in a way that is OK at least has been approved. But.



Rosenbluh, Eric S, MD 44:20
Sorry you could help.



Yeah, it would.

I would like, I was sort of thinking about within our meeting PV.

So that would be a nice like a new amendment to our.

To our ODS, I guess this would be anyway because it's a new source of data to.



Williams, Andrew E 44:40
Min. level.



Rosenbluh, Eric S, MD 44:45
You know to search.

Williams, Andrew E 44:50
Think it's not absolutely, categorically new in kind, as I think we had already planned to have some external publicly accessible data sets related to social terms of health and other kinds of things, be a part of what we're dealing with.

Rosenbluh, Eric S, MD 44:55
Think it's not absolutely, categorically new in kind, as I think we had already planned to have some external publicly accessible data sets related to social terms of health and other kinds of things, be a part of what we're dealing with.

Rosenfeld, Eric S, MD 01:52
It's worth it.

Williams, Andrew E 01:55
So it's not.

It isn't the case, I don't think that we never said anything about DRG.
Or healthcare generated data.

I think we talked about.
Publicly available data was without specifying and there's even we could we could look into it, I agree.
Bears scrutiny as far as what was approved and what IRB approval might require.

But that's not useful.
There are, I think, open source, patient privacy preserving record linkage approaches that don't necessarily cost money to implement that we could investigate, but mostly I guess I'm interested in not adding a huge undue burden for new things, but just making sure we don't pass by one of the main outcomes without giving appropriate attention.

It's when we're talking about acquisition and standardization of it, so
Come more to me so that I can bring to my attention points in relation to that about withdrawal of life sustaining therapy.
How it's captured and whether that's something we want to have here.

So I guess it relates to the cause of death information.
I don't know, Mark, I mentioned your work and
My privilege of being a collaborator in some sense way with it.
But Mark, I don't know if you have additional thoughts on or that.

Have it to do.
Wainwright, Mark 01:25
Yeah.

Andrews, just put it in the chat now.
Fresno, it's not.

It's an issue likely well aware of for a long time, Eric distinguishing between what's withdrawal of care and what's actually despite escalation of medical care. Even that would be an advance, I think, for this field to fix.

Rosenfeld, Eric S, MD 01:54
So.

The way I've typically seen this done is by looking at so-called early limitation and withdrawal of limiting therapy.
And different people define that differently, in the first, you know, for example or 72 hours, but

And part of the reason I think is because in essence, about, you know, every patient eventually in The White data in the hospital has withdrawal of care.
You know, whether it's that the code is called or you know well, some people might be found, but you understand it.

So sometimes setting a time limit gives some information about us to whether that was the cause.
The other way we could look at it is to develop some type of therapeutic intensity level measure. And if you look at like track TB for neuro, they're the therapeutic intensity level is pretty hard to.

Compute.
Because it has a lot of things about for the intent of X.

In other words, not just that you're getting sedation, but it was in sedation for the intent to do something and
Onset of onset, it's different.
Difficult to often relate in the intuitively, but I don't know some of those things are would be of interest and Andrew or others. If you think there's a way to compute some measure, it won't be necessarily always the same for each disease condition. But if there is one.

Why.
To understand, you know that that would be of interest for
Some types of life support therapy, you know, of course in intensive until it's withdrawn.

But.
Yeah, so I'm not sure how to get around that, that aspect of it, but
But I do agree.

Williams, Andrew E 01:54
Might do something relatively efficiently, Co ahead.

Rosenfeld, Eric S, MD 01:55
No, no, I do agree. I think the minimum that it came up in the gap analysis chart where we were creating these or annotating or whatever we wanna call it that chart of looking at data elements we were missing was orders you know for limitation and withdrawal type therapy.

But Mark, I sort of feel like you're wanting to go a little further, which is sort of looking at the intent of what people are trying to do.

Wainwright, Mark 01:21
Ideally, but I agree, I'm well aware of the limitations trying to abstract across from the electronic medical record. I think that would be likely to fail and not worth the effort.

Rosenfeld, Eric S, MD 01:25
Yeah.

Williams, Andrew E 01:25
I guess you know in the cancer domain their intent is described for palliative care as opposed to therapeutic.

Intention, I think that other codes for it that are distinct because it's a part of a formal plan that, you know, got a distinct class of therapeutic intent associated with specific codes that can be attached to orders and I think
I probably don't think the case in medical care, but I think
Investigating to make sure that that's not one thing we could do, I think also if we're defining targets for the NLP would be interested in exploring that. Again, it seems like it's an important thing that's of interest to researchers and perhaps of interest to people doing algorithm develop.

We had some confidence that we could through notes and some combination of a measure of intensity or the kinds of therapies that are being developed, if they seem mostly
Inherent in some prior and don't involve you know some kind of class of things that are

I don't want to put the words to it, but you all know the best better than me. Whatever it is, that one might check kinds of therapeutic interventions.
And not understanding their intent one that we could investigate that relatively easily without committing to saying we're going to do this and do it well enough to be, you know, confident in it and ask everything to implement it. So some initial investigation seems or least within scope, so

I don't know. That's my
initial thought.

Rosenfeld, Eric S, MD 01:11
So it's just in terms of the orders aspect though?

Is that a procedure in the orders leg?
In other words, if someone writes an order for DNR/DNI.

Does it get entered as a procedure or is it an observation of the patient's wishes?
What's it?

Williams, Andrew E 01:17
Good question.

Like and how do you know, I wouldn't want to answer the top of my head on that.
I would assume it is a procedure, but I could be wrong, so I think that's a thing to be clear about.
I don't know Polina or Fred or others know the answer to that more definitively than I do.

Talpinova, Polina 01:09
There is.

Note domain clinical observation concept class the addresser quote.

Williams, Andrew E 01:10
Concept class does not necessitate as a kind of note that.

Talpinova, Polina 01:12
It is not a note, yeah, kind of note.

Williams, Andrew E 01:15
A kind of note.

It could be just without even seeing what's in the note, just some indication that a note that follows into that class has
been created during a particular
Time in the way to that the goal?

I...
I guess I haven't seen that before, so that's interesting.

Talpinova, Polina 01:17
And also there is observation with clinical find.

Notes with supporting documentation.
From later than the way.

Williams, Andrew E 01:16
Well, that might be low hanging fruit to just investigate whether, let's say, as a couple of show we can see
And systematically relate the creation of those notes with a particular point in time where they happen.
That's at least an initial indicator.
Might be complicated if we see that being widely implemented, so it's great.

Rosenfeld, Eric S, MD 01:10
And death is, is that in a person table or is it
in a full it's a death table.

Williams, Andrew E 01:14
In our table.
The death table.

Rosenfeld, Eric S, MD 01:13
OK.

I don't want that table.

Williams, Andrew E 01:12
Yeah, try and avoid that one.

Right, that was my goal. I think we have some to do following those discussions, but to reiterate, I think we were gonna share in at least the epic user web, perhaps some additional investigation of what we did when we were Center App to get that data.
About death and cause of death in hospital. Center. And come back and say where it's been shared in epic or web or where it's been shared elsewhere for the Center. Just for places for people to look and find that death data.
And probably some other analysis of what it looks like to work there.
DIED 10 notes are created and use of use we just likely explore them and the the points in a visit where they're created and come back with that and not necessarily commit to doing anything with it, but just to an extent.

OK.
So that's really useful. Great.

Alright, sorry Mary we're in it.
Mary we're trying to give you all some free time and I failed for work-intentioned plan.

I'm sorry, but that was useful and thanks again, Polina and Mary for presenting.
Thank it.
5 minutes.
Back see you all next week.

Haq/Haqq, Jawad 01:10
I think so. See you.

Talpinova, Polina 01:15
Thank you everyone Goodbye.

Alvarez, Maria suggested transcription

