

PCORnet CDM Implementation Forum

Thursday, January 7, 2016, 1-2 PM Eastern time

Hosted by Keith Marsolo, PhD

Facilitated by Shelley Rusincovitch and Michelle Smerek



pcornet

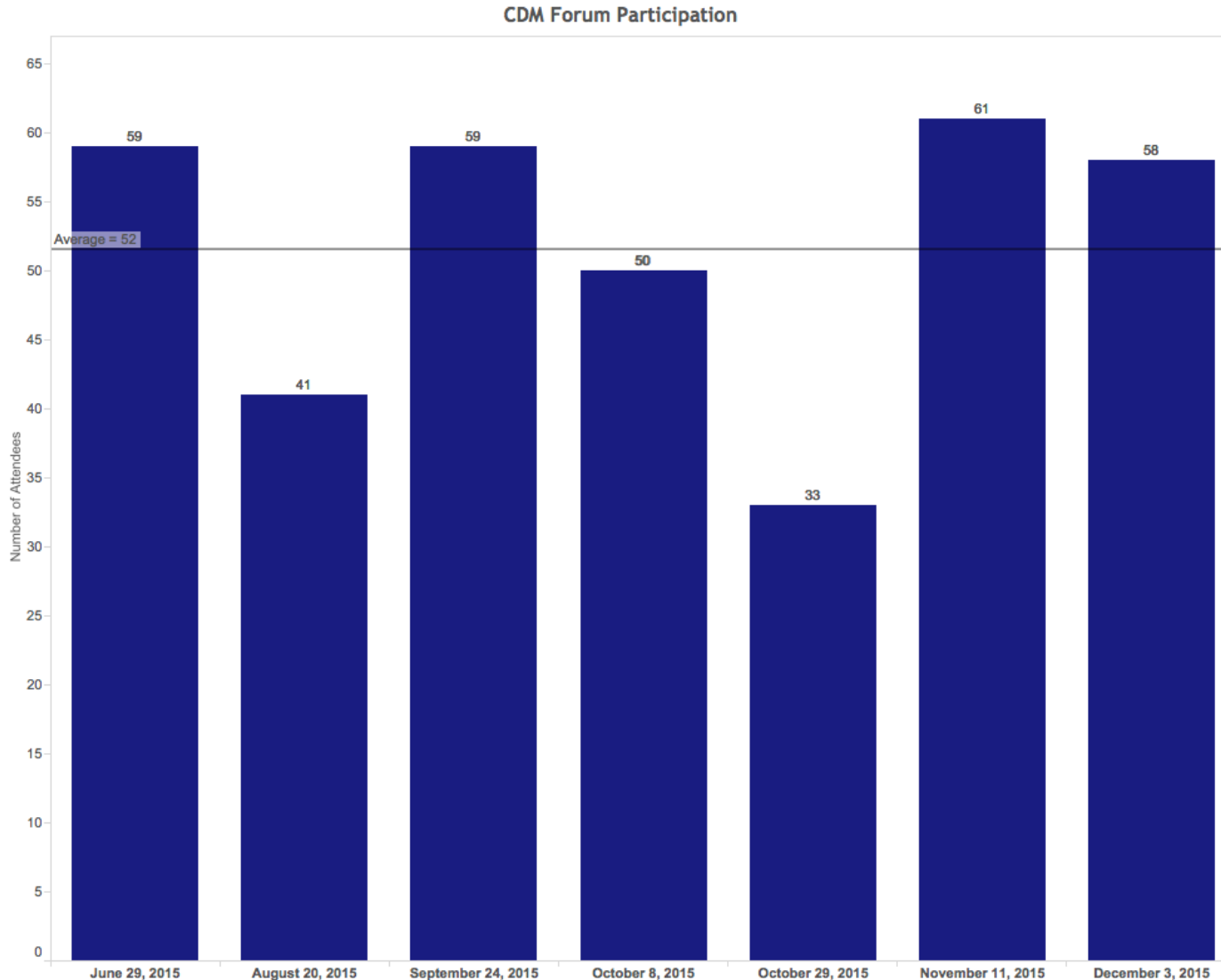
The National Patient-Centered Clinical Research Network

Agenda

- Welcome and announcements
- Index of active CDM forum issues
- Interest group updates
- Data quality considerations for implementation
- GitHub and iMeetCentral

Announcements

CDM Implementation Forum Attendance Metrics for 2015



- CDM Forum began this past summer as an outgrowth of the CDM Working Group, integral to the success of the v2.0 and v3.0 releases
- Attendance has shown considerable engagement, with an average of 52 participants per session.

The CDM Forums in Spring 2016

- January 7 CDM Forum, Keith Marsolo hosting
- February: Interest groups convene
- March CDM Forum: In process of scheduling
- April 19 CDM Forum, Abel Kho hosting

Please contribute feedback to data characterization report template

Feedback is due by January 18

Draft report template: <https://pcornet.imeetcentral.com/p/aQAAAAACII9q>

Submit feedback here: https://duke.qualtrics.com/jfe/form/SV_8vHFJ4U5hGVWcF7

Update from Laura Qualls on December 14:

The development of data characterization for PCORnet CDM v3.0 is well underway. Today, the DRN OC released the draft PCORnet Empirical Data Characterization Report Template. The Empirical Data Characterization Report includes key metrics from a DataMart's responses to the data characterization queries and evaluates the DataMart against 14 PCORnet data checks. If you would like to provide feedback on the survey, please do so by responding to the PCORnet Empirical Data Characterization Report Feedback Survey by January 18th. If you have any trouble accessing the survey please contact the DRN OC team at drnoc@pcornet.org. For up-to-date information about data characterization activities please visit the Data Characterization home page. (Original blog entry: <https://pcornet.imeetcentral.com/p/aQAAAAACIKgt>)

Dan Vreeman presents on January 27

Why it may be of interest to this group:

- Dan Vreeman directs the development of LOINC
 - As Associate Director for Terminology Services at the Regenstrief Center for Biomedical Informatics he directs the development of LOINC, an international standard for laboratory and clinical observations (<https://danielvreeman.com/about/>)
- Session will include 15 minutes for discussion; please feel free to bring any questions about LOINC implementation

PCORnet and LOINC, Daniel J. Vreeman, PT, DPT, MSc

Wednesday, January 27, 2016, 1:00 pm | ET | 1 hr

Join online:

<https://dukemed.webex.com/dukemed/j.php?MTID=m8cb53a7671cf0981f3bd56fec78f5c6d>

Join by phone: 1-855-244-8681

Meeting number: 317 092 485 / Meeting password: 1234

ADAPTABLE data strategy on January 29

Why it may be of interest to this group:

- Will include discussion of the patient portal development (MyTrus)

PCORnet ADAPTABLE data strategy discussion

Friday, January 29, 2016 from 10:00-11:00 AM Eastern

Hosted by Lesley Curtis, PhD, and Schuyler Jones, MD; facilitated by Ty Rorick, Shelley Rusincovitch, and Lisa Eskenazi

Online:

<https://dukemed.webex.com/dukemed/j.php?MTID=m809f67a2819c6eb0591fe1c857fc77c9>

Call-in: 1-855-244-8681 / Access code: 731 966 065

Recap: SAS implementation discussions on December 21 and January 4

Why it may be of interest to this group:

- Discussion of experiences from pilot data characterization, including SAS architecture/deployment and performance from the CDRNs running the pilots

December 21 recording, slides, and summary:

<https://pcornet.imeetcentral.com/p/ZgAAAAAAbDhS>

January 4 recording, slides, and summary:

<https://pcornet.imeetcentral.com/p/ZgAAAAAAbMd6>

CDM Forum Topic Index

Outstanding CDM Forum Issues (1 of 2)

Outstanding Issue	Responsible	Date	Actions Taken/Pending
Unclear how to handle auto-generated records (e.g. as in IMO) in CONDITION Table; Unclear whether IMO should be source	Interest Group	February	Established interest group (Michelle Smerek facilitating)
Data partners have requested guidance on Medication Mapping conventions	Interest Group	February	Established interest group (Michelle Smerek lead)
Data partners have requested guidance on Encounter Classifications	DRNOC and Data Partners	February	Some overlap with SBAR developed and presented at DRNOC-CDRN meeting on Oct 19; Dec 3 discussion
Data partners have requested guidance on death table constraints	DRNOC	Today	See GitHub
Data partners have requested guidance on conventions for representing Smoking and Tobacco History	DRNOC and Data Partners	February	Identified legacy data differences from newer MU-mandated structuring

Outstanding CDM Forum Issues (2 of 2)

Outstanding Issue	Responsible	Date	Actions Taken/Pending
Conventions for Datamart Structuring for EHR and Claims Sources need to be defined	DRNOC	February	SBAR developed and presented at DRNOC-CDRN meeting on Oct 19
<i>SAS implementation expectations need to be defined</i>	<i>DRNOC</i>	<i>Please see Dec 21 and Jan 4 meetings</i>	<i>Overlap with ADAPTABLE data strategy (session on Oct 30); prior discussion on Nov 11</i>
<i>Data partners are interested in sharing best practices for performance optimization</i>	<i>Forum-facilitated discussion</i>	<i>Please see Dec 21 and Jan 4 meetings</i>	<i>Comment: Best practices tend to be site-specific because different “fingerprints of data” are optimized differently</i>
Data partners have requested guidance on conventions for mapping LOINC to PCORnet common measures	Interest Group	February	Lab Interest group established; Dec 16 meeting
Data partners are interested in sharing best practices for local death data acquisition	Forum-facilitated discussion	Tentatively scheduled for March	This topic is unrelated to study-specific death data acquisition (such as use of NDI for ADAPTABLE)

CDM Forum Interest Groups

Interest Groups List

Active interest groups:

- **Lab Mappings:** Local lab result mappings and LOINC references
 - December 16 session
 - Lab polling results
- **Tobacco Data Elements**
 - December 1 session
- **Med Mappings:** Dispensing and prescribing data, including RxNorm practices, order of preference as brand vs generic
- **CONDITION Table:** Including IMO terminology
- **Encounter basis**

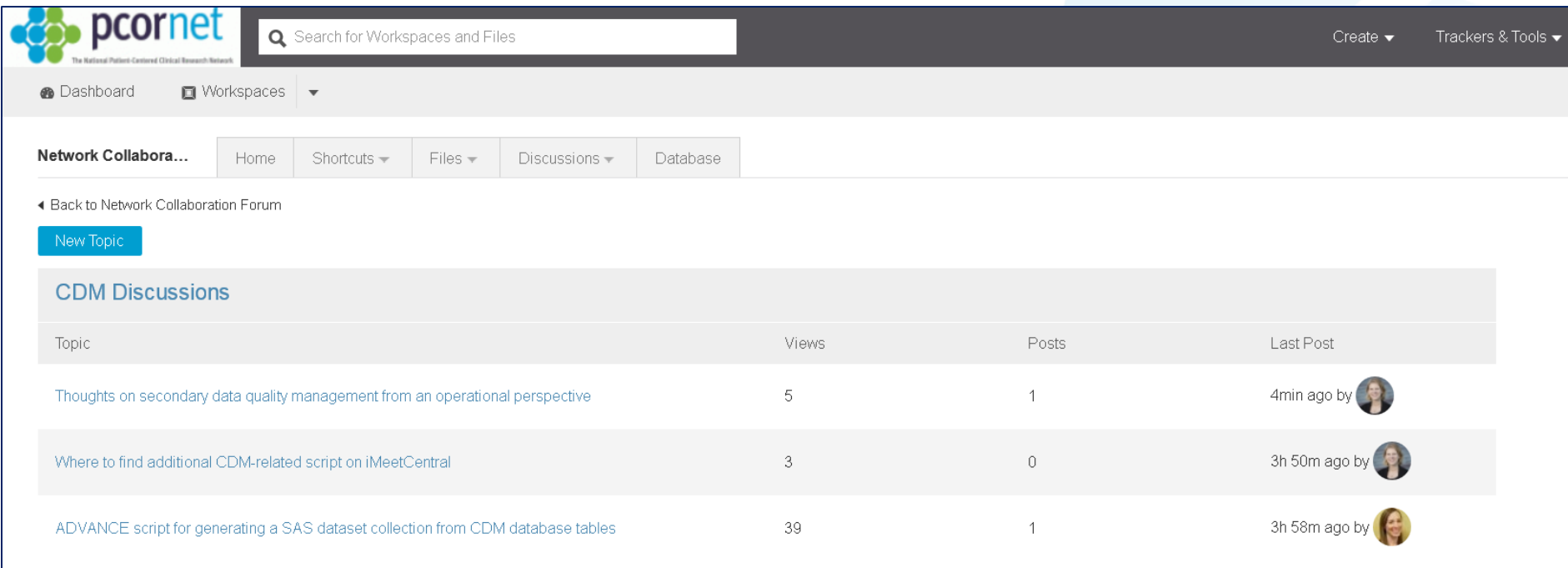
Data Quality Considerations in Implementation






What do you think?

 Discussion thread at:
<https://pcornet.imeetcentral.com/p/ZgAAAAAAPgOI>

 We'll plan to discuss responses during the CDM Forum in March



The screenshot shows the PCORnet Network Collaboration Forum interface. At the top, there is a search bar with the text "Search for Workspaces and Files" and a "Create" button. Below the search bar, there are navigation tabs: "Dashboard", "Workspaces", and "Network Collabora...". The "Network Collabora..." tab is selected, and it has sub-tabs: "Home", "Shortcuts", "Files", "Discussions", and "Database". The "Discussions" sub-tab is selected, and it shows a "Back to Network Collaboration Forum" link and a "New Topic" button. Below the "New Topic" button, there is a section titled "CDM Discussions" which contains a table of discussion topics.

Topic	Views	Posts	Last Post
Thoughts on secondary data quality management from an operational perspective	5	1	4min ago by 
Where to find additional CDM-related script on iMeetCentral	3	0	3h 50m ago by 
ADVANCE script for generating a SAS dataset collection from CDM database tables	39	1	3h 58m ago by 

7 Challenges

1. Extracting EHR data rarely starts with a blank slate. The process can heavily dependent on who extracts the data.
2. To extract EHR data, it's rare to go to the actual EHR.
3. Data for a given domain may be spread out in many tables and even across databases.
4. Many secondary data analysts and programmers may not have direct insight into how a data point was created.
5. Decisions about which data to extract are often not recognized as decision points by technical teams.
6. Patient and encounter "drift" over time can take everyone off guard.
7. The landscape of enterprise-level data architecture is changing.

3 Potential Ways to Address

1. End-to-end QA processes.
2. Root cause analysis skills are important.
3. Documentation about why decisions are made is very helpful.

GitHub and iMeetCentral

ADVANCE script for generating SAS dataset collections: <https://pcornet.imeetcentral.com/p/aQAAAAACI4vI>



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Search for Workspaces and Files

Dashboard Workspaces

Network Collabora... Home Shortcuts Files Discussions Database

Back to CDM Discussions

Topic: ADVANCE script for generating a SAS dataset collection from CDM database tables Posted Jan 5

Tags: [add tags](#)

 The ADVANCE CDRN has generously shared their script, with many thanks! -SAR

Purpose: This script creates SAS data files from SQL Server tables for the PCORnet CDM v. 3.0.
Contact information: [Pedro Rivera \(riverap@ochin.org\)](mailto:riverap@ochin.org), [Jon Puro \(puroj@ochin.org\)](mailto:puroj@ochin.org)

[Create_CDM_SAS_tables.sas](#)

The context of this script was discussed during the January 4, 2016 PCORnet DRN OC-CDRN meeting: <https://pcornet.imeetcentral.com/p/ZgAAAAAbMd6>

1 reply

 Shelley Rusincovitch
Laura Qualls points out that it's good to keep in mind how different RDBMS platforms will treat dates differently. She commented that this script uses an INPUT statement whereas other source systems (like Oracle) that store dates as DATE-TIME will need to use a DATEPART statement. Example code for the latter scenario is illustrated in the Querying document that we put together (<https://pcornet.imeetcentral.com/p/aQAAAAACIhRv>).

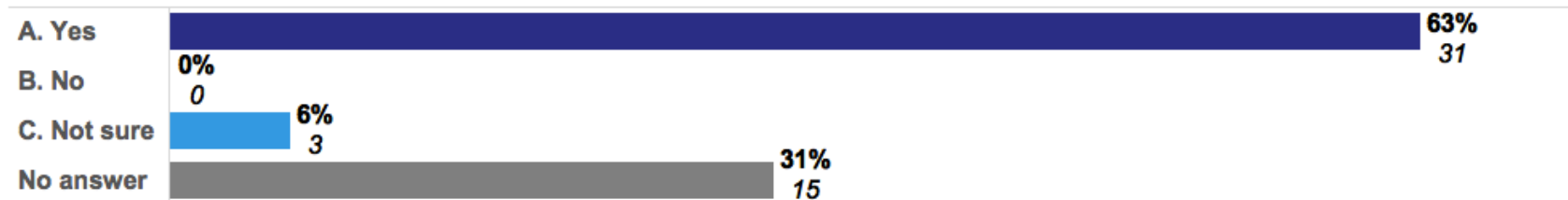
6 hours ago · [Edit](#) · [Delete](#)

 Write a comment...

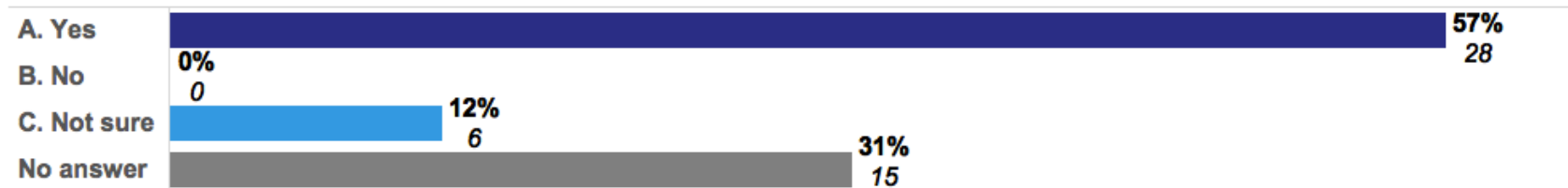


Poll results from CDM Implementation Forum on November 11, 2015 (Code Sharing/Repository)

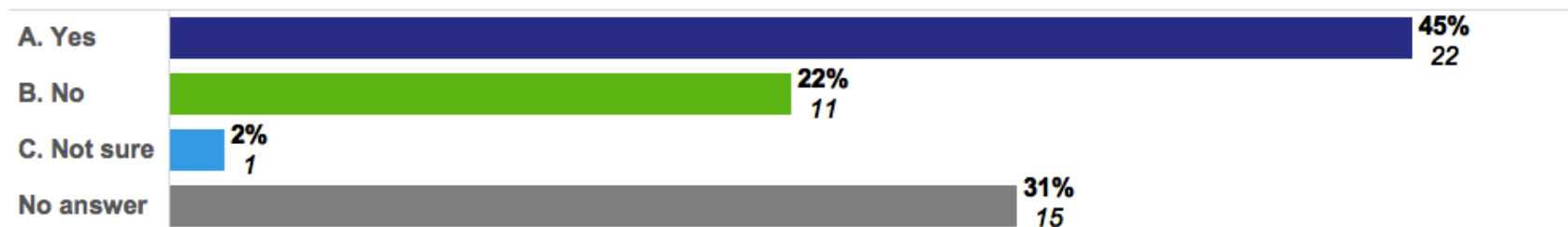
1. Would you (or your team) potentially have interest in USING or IMPROVING UPON PCORnet-related code shared by others? ("Code" might include, but is not limited to, database scripts, processing scripts, client-based utilities, etc.)



2. Would you (or your team) potentially have interest in SHARING PCORnet-related code from your team with others? ("Code" might include, but is not limited to, database scripts, processing scripts, client-based utilities, etc.)



3. Do you (or your team) have experience with a code repository tool (like GitHub or BitBucket)?



Walk through ADAPTABLE phenotype on GitHub:

<https://github.com/ADAPTABLETRIAL/PHENOTYPE>

Brand-new CDM Forum:

<https://github.com/CDMFORUM>