PCORnet CDM Forum

Monday, March 14, 2016, 12:30 – 1:30 PM Eastern time

Hosted by Mike Hogarth, MD, FACP, FACMI, and Daniella Meeker, PhD

Facilitated by Shelley Rusincovitch and Michelle Smerek
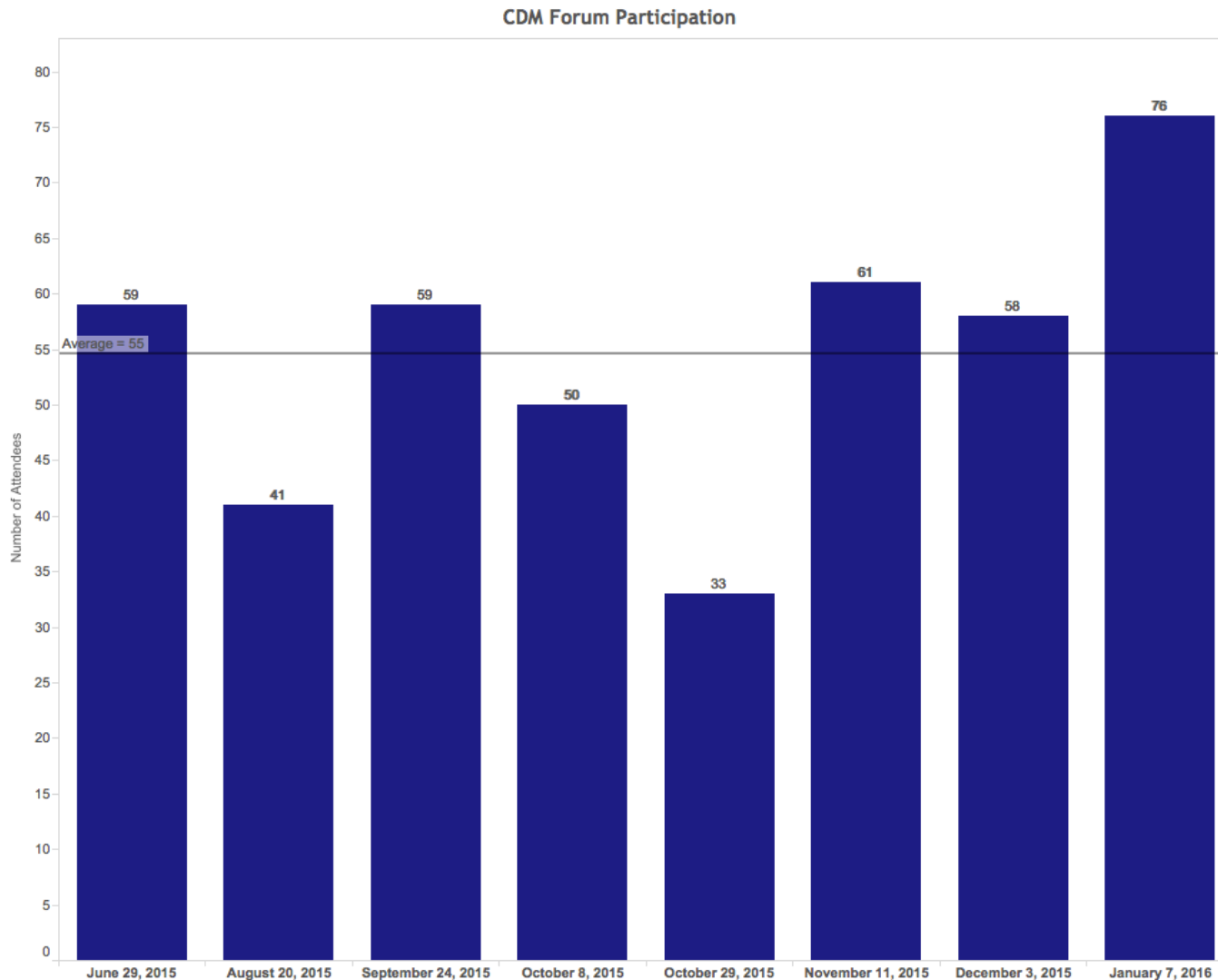

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The National Patient-Centered Clinical Research Network

Agenda

- Welcome, announcements, and introductions

- Mortality data discussion

- Interest group updates

- GitHub updates and issue tracker review *(we might not get to this)*

- Wrap up

Announcements

Current CDM Forum attendance metrics

CDM Forum Participation

- 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 55 participants per session.

Next data characterization office hours

Why it may be of interest to this group:

- Offers an opportunity for in-depth discussion with the team about your questions

March 16 @ 2pm ET

1-650-479-3207 Call-in toll number (US/Canada)

Access code: 731 110 417

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Research Using a DRN Forum on March 28

Why it may be of interest to this group:

- This is a new forum with focus on Distributed Research Network (DRN) research methods. The topic for March 28 is: **distributed querying in PCORnet**

DRN OC Forum: Research Using a DRN

When: Monday, March 28th, 11am - 12pm Eastern

Join WebEx:
https://dukemed.webex.com/dukemed/j.php?MTID=mfd8a3e8b54ca0e03decce838597a73f4

Audio Only: 1-855-244-8681 / Access code: 733 325 743

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AMIA Joint Summits, March 21-24, 2016: PCORnet-related sessions

Wednesday, March 23

- II07, 8:30 AM–10:00 AM, Cyril Magnin III: Leveraging Participant-generated and Environmental Data (Why and How this Matters) (Richard Gershon, Jon Puro, Ida Sim)

- S28, 10:52 AM–11:14 AM, Cyril Magnin I: "Assessment of Factors and Approaches to Mapping Laboratory Results in PCORnet" (Michelle Smerek, Elisa Priest, Samuel Rosenbloom, Jon Puro, Pedro Rivera, Shelley Rusincovitch, Rahul Jain, Keith Marsolo)

- S27, 11:36 AM–11:58 AM, Market Street: "Issues in the Capture of Patient Reported Outcomes in a Heterogeneous Research Network" (James McClay, James Campbell, Ashok Mudgapalli, Russ Waitman)

- II09, 1:30 PM–3:00 PM, Cyril Magnin III: "I2b2: Challenges and Solutions to integrate FHIR and PCORI CDM" (Kavishwar Wagholikar, Shawn Murphy, Jeffrey Klann, Joshua Mandel)

- Poster Session 2, 5:00 PM–6:00 PM, Cyril Magnin Foyer: "Multi-site Data Completeness Analysis: Application to Laboratory Results in a Large Distributed Research Network" (Jeff Klann, Vijay Raghavan, Douglas Macfadden, Sarah Weiler, Kenneth Mandl, Shawn Murphy)

- **PCORnet reception in the Parc 55 hotel lounge: all are welcome to join us!**

Thursday, March 24

- S36, 10:52 AM–11:14 AM, Market Street: "Iterative Design and Modeling for the PCORnet Common Data Model v3.0" (Shelley Rusincovitch, Jeffrey Brown, Keith Marsolo, Jenny Ibarra, Abel Kho, Daniella Meeker, Lesley Curtis)

- S36, 11:36 AM–11:58 AM, Market Street: "Design and Architecture of a Distributed Network Pragmatic Clinical Trial: The PCORnet ADAPTABLE Study" (Lesley Curtis, Shelley Rusincovitch, Jenny Ibarra, Bradley Hammill, Laura Qualls, Debra Harris, W. Schuyler Jones, Russell Rothman, Matthew Roe, Adrian Hernandez)

- S39, 1:30 PM–3:00 PM, Cyril Magnin II: "Completing the Learning Health Care System Cycle: Developing and Testing eCQM in pSCANNER, a PCORNet Research Network" (Lisa Schilling, Erin Holve, Jason Goldwater, Philip Payne, Daniella Meeker)
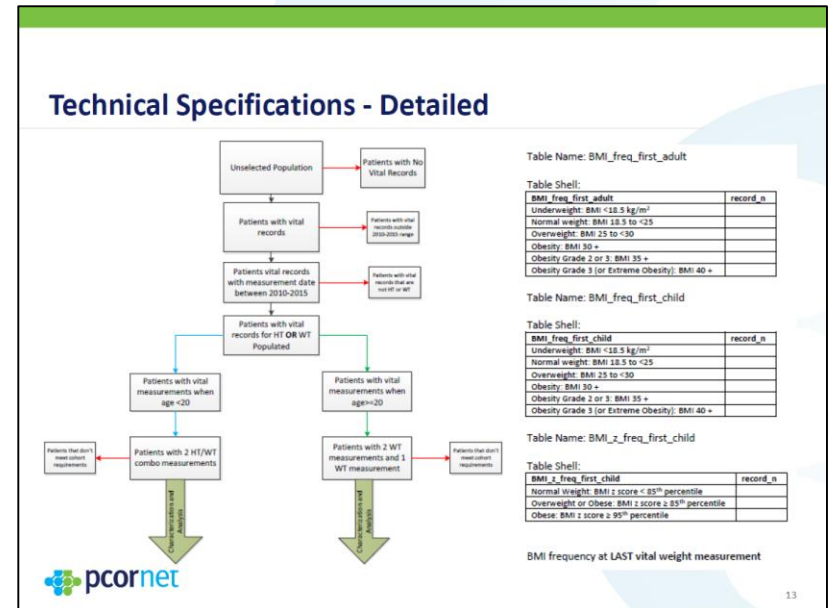
Recap: PCORnet Weight Cohort development from March 7

Why it may be of interest to this group:

- Detailed overview of Weight Cohorts, including study objectives, specifications, infrastructure, and beta-testing

March 7 DRN OC Forum recording, slides, and summary:
https://pcornet.imeetcentral.com/p/ZgAAAAAcK3r

Mortality Data Discussion

Mike Hogarth, MD, FACP, FACMI
Professor, Department of Internal Medicine, and
Professor, Department of Pathology and Laboratory
Medicine
Chair, Health informatics Masters Program
Principal Investigator, CA-EDRS
CMIO, Athena Breast Health Network

"we take care of people, not records"
— Dr. Weed (Emory Grand Rounds, 1971)

http://www.hogarth.org
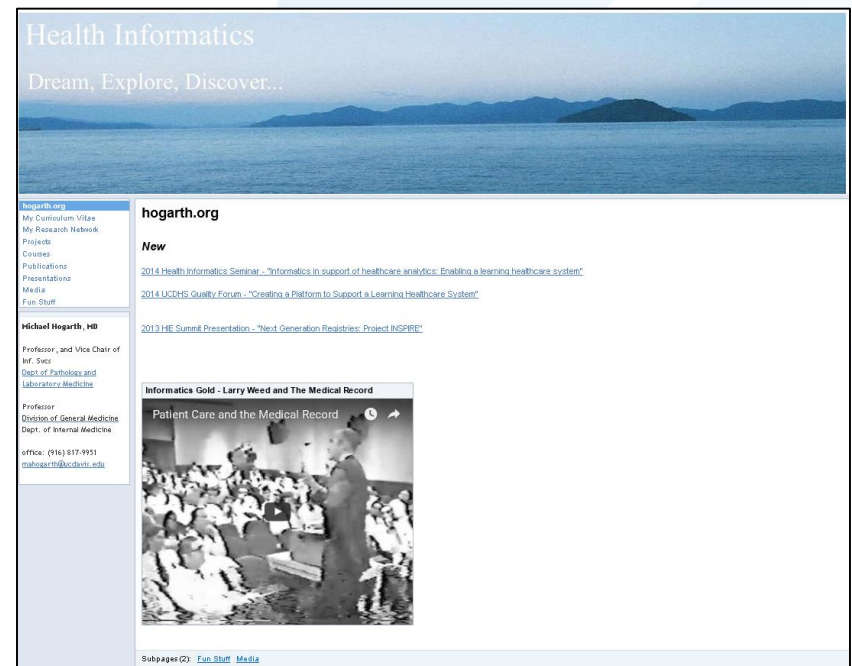
CDM Forum Interest Groups

February: CDM Forum Interest Group Meetings

- Assessment and lessons learned:
  - Valuable compliment to the larger CDM Forum
  - Meeting time was important
  - The smaller groups allowed more agile discussion

- Current groups:
  - Tobacco data elements
  - CONDITION terminologies
  - Lab mappings
  - Med mappings
  - ENCOUNTER typology

- Content posted on iMeetCentral:
  https://pcornet.imeetcentral.com/p/ZgAAAAAPgOl

- If you haven't signed up yet, but would like to be included in a particular session, we'd welcome your involvement! Please e-mail Michael Park (michael.park@duke.edu) to request being added.

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GitHub and Issue Tracker Review

Some content repeated from DRN OC Forum on March 7, 2016

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What is GitHub?

- Web-based repositories for storing software program code
- Largest platform of its kind with >12 million people, >31 million projects (https://github.com/about)
- Often used for open-source projects
- Used by initiatives such as:
  - openFDA: https://github.com/FDA/openfda
  - precisionFDA: https://github.com/FDA/precisionFDA
  - OHDSI: https://github.com/OHDSI
- Used by several PCORnet-related groups, including:
  - LHSNet: https://github.com/LHSNet
  - SCILHS: https://github.com/SCILHS
  - PEDSnet: https://github.com/PEDSnet

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Poll results from CDM Forum on November 11, 2015

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.)

A. Yes		63% / 31
B. No	0% / 0	
C. Not sure	6% / 3	
No answer	31% / 15	
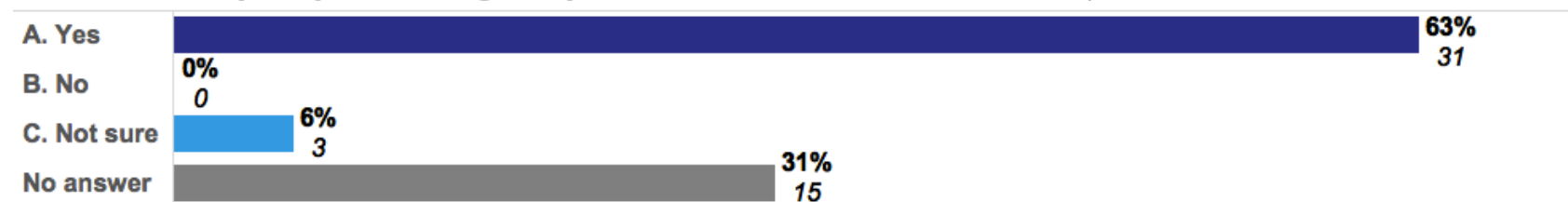
2. Would you (or your team) potentially have interest in SHARING PCORnet-related code from your team with others? ("Code" might include, but is not limited to, database scripts, processing scripts, client-based utilities, etc.)

A. Yes		57% / 28
B. No	0% / 0	
C. Not sure	12% / 6	
No answer	31% / 15	
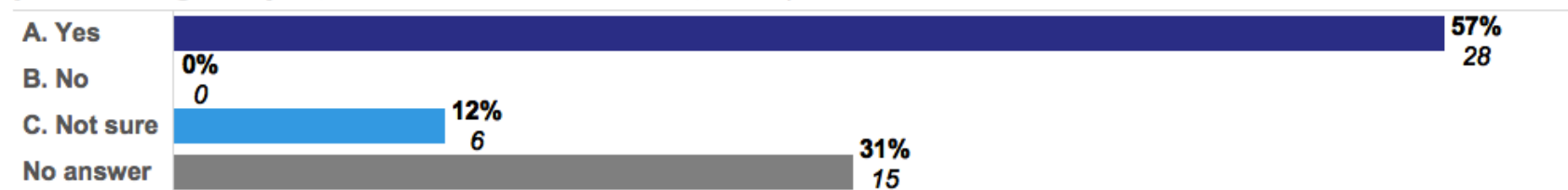
3. Do you (or your team) have experience with a code repository tool (like GitHub or BitBucket)?

A. Yes		45% / 22
B. No	22% / 11	
C. Not sure	2% / 1	
No answer	31% / 15	
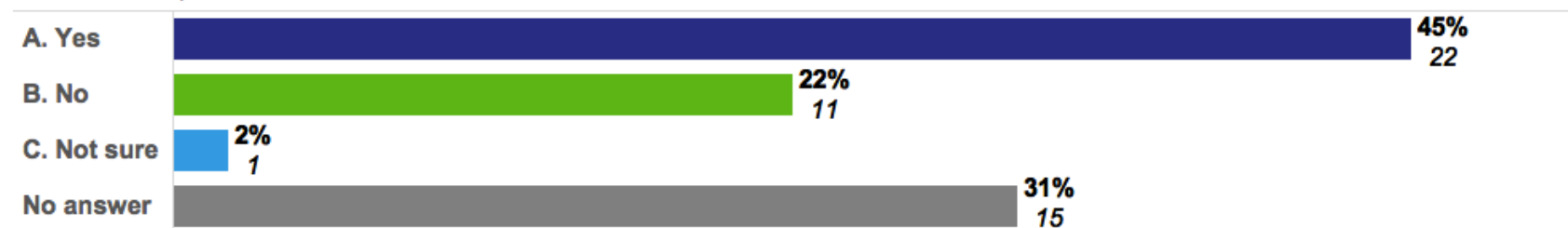
Summary of GitHub progression

3 phases of development and soft launches of GitHub repositories by the DRN OC:

(Planning stage: Discussion and assessment, primarily through the CDM Forum in fall 2015)

1. ADAPTABLE base phenotype (December 2015)
2. CDM Errata (January 2016)
3. Diagnostic Query and Data Characterization packages (March 2016)
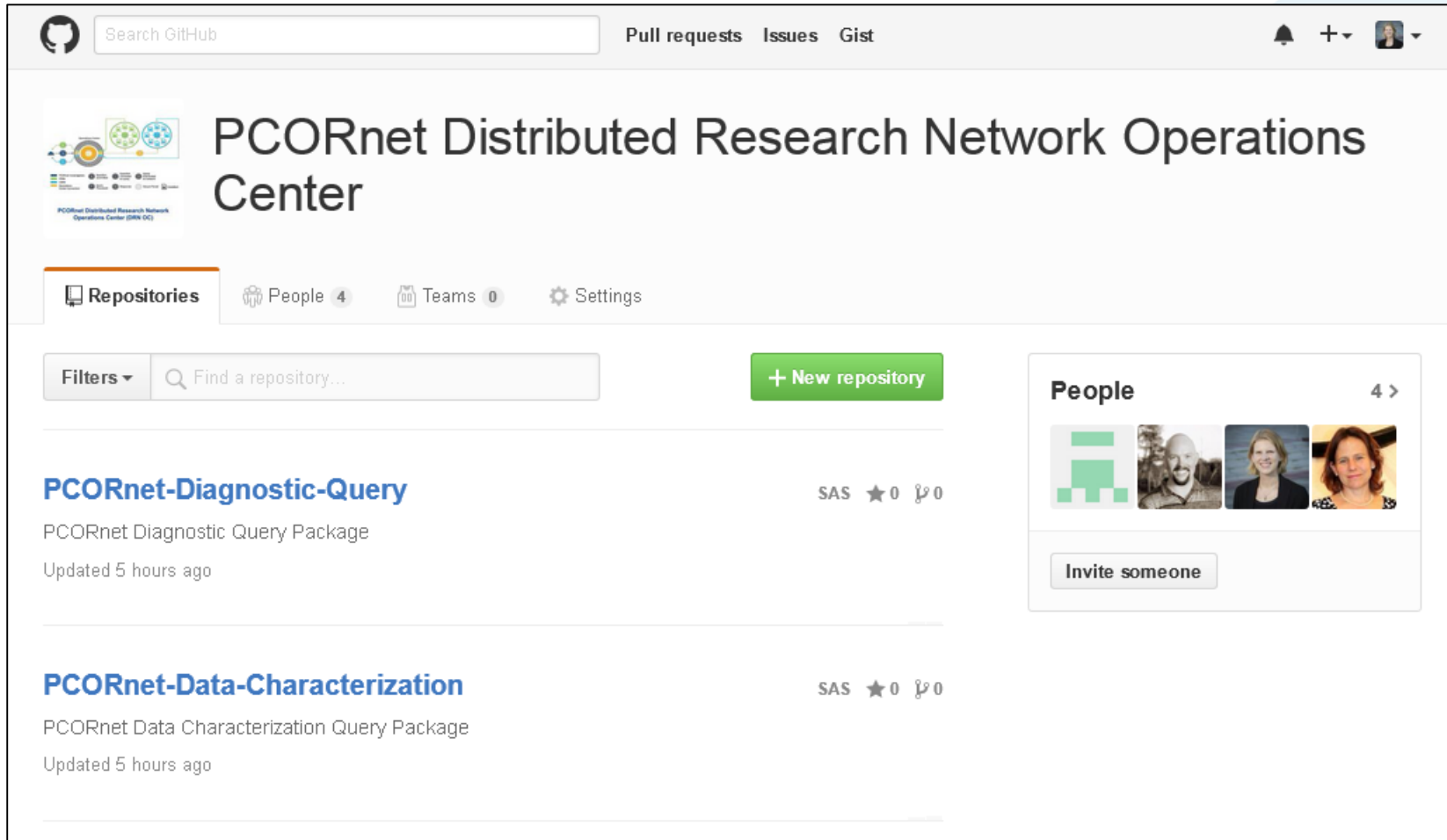
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Diagnostic Query and Data Characterization

- Code had already been posted to iMeetCentral in February:
  - Diagnostic Query Package v3.0.1.zip at
    https://pcornet.imeetcentral.com/p/aQAAAACnRdF
  - Data Characterization Query Package v3.00.zip at
    https://pcornet.imeetcentral.com/p/aQAAAACnbRR

Diagnostic Query and Data Characterization repositories now available on GitHub

https://github.com/PCORnet-DRN-OC

PCORnet Diagnostic Query Package

Version v3.0.1

Purpose

This code package evaluates a DataMart's conformance to the PCORnet Common Data Model (CDM) v3.0 SAS table structure, variable names, variable lengths, and data types.

The Diagnostic Query Package is a complement to the Data Characterization Query Package. The Diagnostic Query is run **first**, prior to Data Characterization.

PCORnet data partners run code packages distributed through PopMedNet

It's crucially important for data partners to follow the process of running the exact code module distributed to your DataMart by the Operations Center (via PopMedNet). This process ensures that end-to-end provenance is preserved. Complete instructions on how to run this code are provided to PCORnet DataMarts when the query is distributed to a given DataMart.
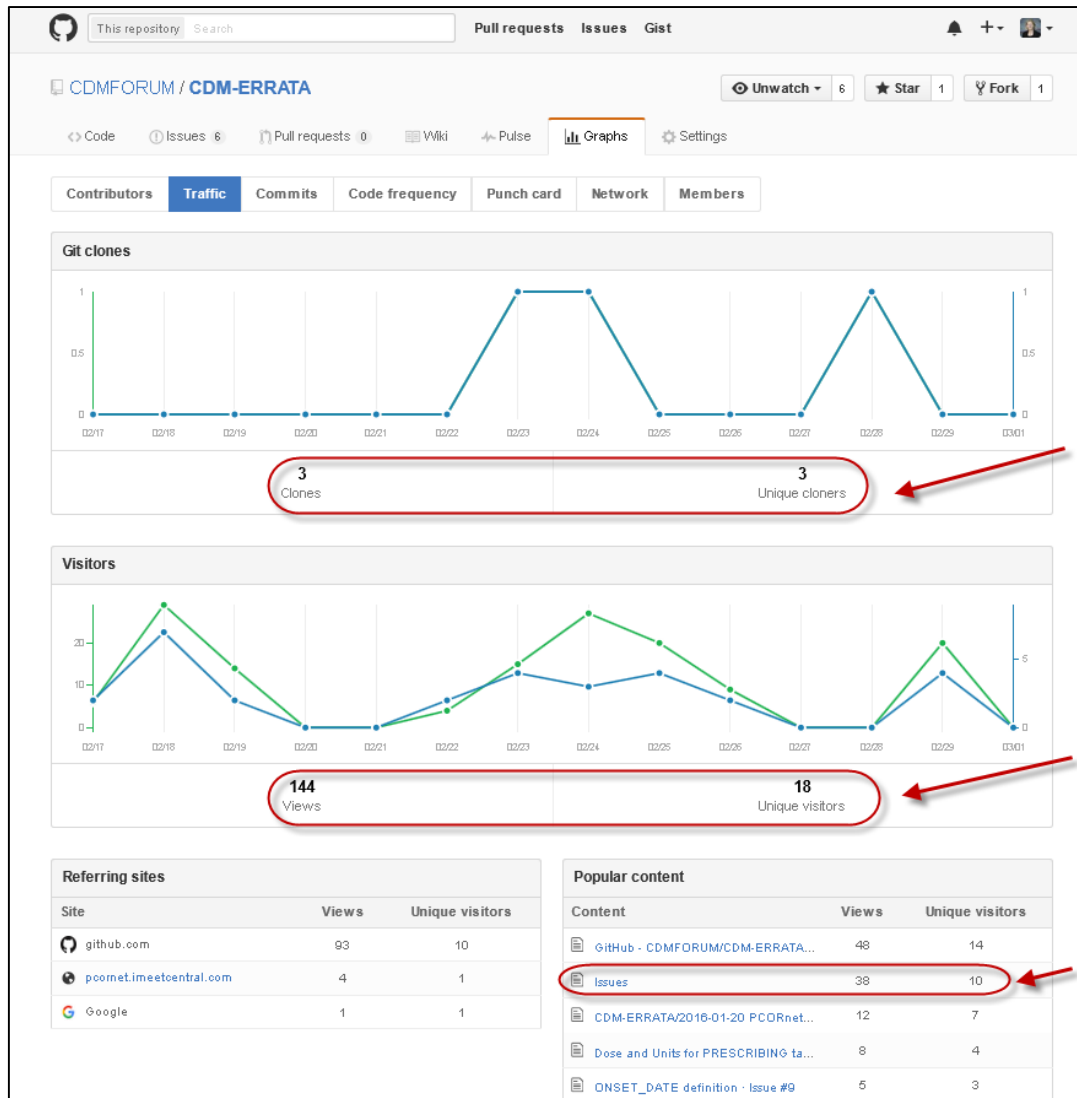
This GitHub repository is a copy for reference

PCORnet's Distributed Research Network Operations Center (DRN OC) is responsible for distribution of the production code package to data partners, which happens within PopMedNet.

Waves of data partner querying may result in more than one code package being active at any given time. Beta testing is also an important ongoing activity.

Therefore, **this repository is not the production version of the code package**, but instead serves as a copy for reference and knowledge sharing.

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CDM Errata was first introduced on the January 7, 2016 CDM Forum

Overall: A high level of activity reflected even within current "soft launch" phase

"Clones" are an important activity in GitHub

2-week view: 144 views and 18 unique visitors

Particular traffic around the issue tracker; likely reflects CDM Forum Interest Group activity

https://github.com/CDMFORUM/CDM-ERRATA/graphs/traffic

GitHub "watches" allow automated notification of new activity

The "README" is the place to start for any repository, and provides an important overview

https://github.com/CDMFORUM/CDM-ERRATA

Using the GitHub issue tracker functionality

- These areas are often brought to our attention by data partners, with many thanks
    - Multiple mechanisms include the CDM forum, CDM forum interest groups, data characterization office hours, and site liaison activity
- For the Common Data Model, a separation between errata (errors and typos in the current specification) and non-errata (guidance and potential enhancements)

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Issue Tracker review (live)

CDM errata issue tracker:
https://github.com/CDMFORUM/CDM-ERRATA/issues

CDM guidance issue tracker:
https://github.com/CDMFORUM/CDM-GUIDANCE/issues

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Future thoughts

- Many different PCORnet-related resources exist
  - Already a number of repositories, and expected to grow
  - Different organizations represented, and many desire to brand and manage their own resources
  - A challenge will be connecting and indexing this "web of resources"
- We look forward to the Data Committee's strategic assessment and recommendations
- Your suggestions and thoughts are appreciated!

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Wrap up

Next CDM Forum: April 19, 2016

WHEN: Tuesday, April 19th, 1PM-2PM Eastern

WHO: All interested.

This session will be hosted by Abel Kho, MD, and facilitated by Shelley Rusincovitch and Michelle Smerek.

ONLINE:
https://dukemed.webex.com/dukemed/j.php?MTID=m3df6c82094b91737cd1c992071203049

Please join the WebEx first to link your WebEx ID with your Audio connection. (Audio available via computer or phone.)

PHONE: 1-855-244-8681 / Access code: 739 095 937

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These slides will also be posted on GitHub:

https://github.com/CDMFORUM/CDM-GUIDANCE/wiki

Summary of links

iMeetCentral resources:

- 🌐 PCORnet main blog (includes weekly announcements): https://pcornet.imeetcentral.com/pcornetmain/blog/

- 🌐 DRN OC home: https://pcornet.imeetcentral.com/p/aQAAAAAB6T9b
    - ▪ Data Characterization home: https://pcornet.imeetcentral.com/p/aQAAAAACjjsH
    - ▪ Query Fulfillment home: https://pcornet.imeetcentral.com/p/aQAAAAAClFkW
    - ▪ DRN OC blog: https://pcornet.imeetcentral.com/drnoc-workgroups/blog/

- 🌐 Collaborative threads on iMeetCentral: https://pcornet.imeetcentral.com/p/ZgAAAAAPgOl

GitHub:

- 🌐 ADAPTABLE base phenotype : https://github.com/ADAPTABLETRIAL/PHENOTYPE

- 🌐 CDM errata issue tracker: https://github.com/CDMFORUM/CDM-ERRATA/issues

- 🌐 CDM guidance issue tracker: https://github.com/CDMFORUM/CDM-GUIDANCE/issues

- 🌐 PCORnet diagnostic query package: https://github.com/PCORnet-DRN-OC/PCORnet-Diagnostic-Query

- 🌐 PCORnet data characterization query package: https://github.com/PCORnet-DRN-OC/PCORnet-Data-Characterization

- 🌐 PCORnet Data Committee on GitHub: https://github.com/PCORnet/DataCommittee

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