PCORnet®: Progress Dashboard At a Glance

Effective July 31, 2021
Number of Investigators Seeking PCORnet Research Resources at Front Door?

- The PCORnet Front Door team interacts with a variety of investigators that are interested in leveraging PCORnet resources in their research.

- An intake team educates investigators, advises on research designs, and connects opportunities with investigators across the PCORnet Network.

Total Requests November 1, 2018 – July 31, 2021 = 407
Why do Investigators Visit the PCORnet Front Door?

- Investigators often require consultation and support to understand how to leverage PCORnet resources to enhance their research.

- In some instances, the PCORnet Front Door team supports proposal development, including how to properly budget for a project utilizing PCORnet Network partners and resources.
What is the Funding Outcome for PCORnet Front Door Investigator Requests?

- The PCORnet Front Door continues to follow up with Investigator Requestors to track funding outcomes.
- The research request cycle means learning about leveraging PCORnet, submitting a proposal, and learning of a funding decision from the potential funder.

Includes data from November 1, 2018 to July 31, 2021.
The Front Door receives requests for PCORnet Study Designation.

PCORnet Study Designation is designed to ensure that the PCORnet brand and mission are exemplified in current research projects that leverage the PCORnet infrastructure. Studies granted PCORnet designation approval commit to sharing study progress, metrics, lessons learned, best practices, and research findings with the Network.

Includes data from November 1, 2018 to July 31, 2021

Total approved requests November 1, 2018 – July 31, 2021 = 19
How does PCORnet Move from Raw Data to Fit-for-Purpose?

- PCORnet leverages a number of real-world data sources
- Underlying data must be suitable for research
- PCORnet utilizes a two-stage curation process
  - Foundational: Transform raw data into research-ready data
  - Study-specific: Ensure data are fit-for-purpose for a given study or analysis

Growth in foundational data quality checks over time. **Checks:** Rules such as “Values must conform to CDM specifications.” **Measures:** The number of CDM tables and/or fields affected by the checks. Includes data from PCORnet Data Curation team.
367 Publications about PCORnet

Publications and presentations about PCORnet infrastructure and research have increased over time


Includes data from PCORI, PCORnet, and PCRF as of Q3 2021 July 31, 2021.
Utilization of PCORnet resources

Projects that leverage PCORnet resources do so in a number of ways. Most rely on the PCORnet Common Data Model (CDM), and an increasing number of projects engage in more than one Clinical Research Network (CRN).

Includes funded projects only.
N=177
Who is Funding Research in PCORnet?

PCORI funds many research projects that use PCORnet infrastructure. Increasingly, other sponsors recognize the value of funding research that leverages PCORnet.

Includes funded projects only through July 31, 2021. N=177. Funded amount=$590,201,787.00
Dimensions of Data Quality in PCORnet

- **Conformance** — Data adhere to the format of the CDM
  - Fields do not contain values outside of the CDM specification

- **Completeness** — Values appear where we expect them
  - Diagnosis codes have an associated diagnosis type (e.g., ICD-9, ICD-10, SNOMED)

- **Plausibility** — Values that appear make sense
  - Less than 5% of records are associated with a future date

- **Persistence** — Patients / records do not disappear between refreshes
  - Less than a 5% decrease in the number of patients or records in a CDM table between refreshes

Growth in foundational data quality checks over time.

**Checks:** Rules such as “Values must conform to CDM specifications.”
**Measures:** The number of CDM tables and/or fields affected by the checks. Includes data from PCORnet Data Curation team.
Assessing Data Availability Through Data Curation

Standardization allows PCORnet to query all partners quickly and efficiently because the raw data have been converted to a common terminology.

Eligible DataMarts: PCORnet 2.0 DataMarts that include EHR data and populate the LAB_RESULT_CM table and were approved prior to August 8, 2021. Other Notes: Each column indicates the number of available laboratory results across the network, in billions. The line shows the median number of unique LOINC codes within a DataMart.
Improvements in Data Completeness

PCORnet data curation process is used to monitor whether partners are populating key concepts of interest. The completeness of certain lab tests has seen marked improvement over time.

Eligible DataMarts: PCORnet 2.0 DataMarts that include EHR data and populate the LAB_RESULT_CM table and were approved prior to August 8, 2021. Other notes: We selected 4 labs to monitor over time. These labs were chosen based on the needs of early PCORnet studies as well as input from the Collaborative Research Groups.
Thank you.

Work with PCORnet.
Visit us at www.pcornet.org to get the relationship started.