

The REACHnet Coordinating Center partners with study teams to develop and execute data engineering for all stages of the research process. The REACHnet Data Core supports the design and coordination of data activities across multiple health systems and data sources. These services enable researchers to obtain standardized electronic health record (EHR), health plan claims, registry, and patient-reported outcome data aligned with their study objectives. We determine the tailored scope and budget in consultation with the study team regarding their needs and preferences for Data Core support.

What we offer:



Recruitment workflows and support

- Translate clinical and operational concepts into standardized data structures (e.g., common data models) to support multi-site research.
- Develop and document computable phenotypes, including cohort definitions, inclusion/exclusion criteria, code lists, and efficient query logic.
- Provide protocol examples and implementation guidance for study-specific chart reviews to assess positive and negative predictive values of phenotypes, when appropriate and feasible.
- Establish workflow for generating eligibility lists to support electronic or clinic-based participant screening and recruitment.
- Build or advise on systems for electronic outreach, e-consent, randomization, and collection of baseline patient reported outcomes (PROs).



Data engineering and design

- Assess data availability and fit-for-purpose data quality across participating sites.
- Apply and/or advise on data quality checks, standards, and documentation to support reproducible analyses.
- Design data linkage plans for integrating study data from various sources. Examples include integration of data from EHRs, health plans, research registries, and PROs.
- Inform data transfer protocols that adhere to HIPAA guidelines and optimize efficiency.
- Anticipate common query and analysis pitfalls and align definitions early to ensure efficient workflows.
- Standardize de novo data elements added to the Common Data Model, as feasible with partners and governance.
- Convene and facilitate cross-functional working sessions to translate clinical questions into executable queries.



Collaboration, project enablement and data operations

- Guide data science decision-making with coordination across all partners involved in multi-institutional projects (PIs, patients, project managers, biostatisticians, clinicians, researchers, informaticists, the Coordinating Center for PCORnet® and PCORnet® Clinical Research Networks).
- Build and enforce practical timelines for data milestones (specifications, testing, revisions, delivery) that adhere to larger study plans, ensuring analysis-ready data are delivered when needed.
- Coordinate with data partners on query execution, data curation priorities, and issue resolution throughout the project lifecycle.
- Support governance-aligned logistics (e.g., communication, tracking, documentation) and data sharing requirements (e.g., DUAs, BAAs) for multi-site studies.



Common deliverables (tailored to your study)

- Cohort/phenotype specifications and query packages (inclusion/exclusion criteria, logic, code lists, assumptions, and change log)
- Grant and proposal support artifacts such as:
 - Data feasibility language
 - Cohort tables containing sample size estimates
 - Methods text describing data sources and harmonization approach
- Data discovery summaries (availability, completeness, and feasibility across sites/partners)
- Query support from draft to final execution (testing cycles, clarifications, and documentation)
- Data quality findings and recommended remediation options (prioritized by impact)
- Partner working sessions and decision logs to keep teams aligned
- Project tracking for multi-site timelines and dependencies (as appropriate)

For more information, contact info@reachnet.org.



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