

PCORnet[®] Resources Help Answer Key Challenges in Cardiovascular Research

PCORnet[®] is intended to improve the nation's capacity to efficiently conduct patient-centered health research, particularly comparative clinical effectiveness research (CER), by providing a large, highly representative network of health data, research expertise, and patient insights. PCORnet has been developed with funding from the Patient-Centered Outcomes Research Institute[®] (PCORI[®]).

Cardiovascular (CV) researchers are faced with numerous challenges:

- Fragmentation in healthcare organizations
- Limited data access to selected small patient populations
- Lack of standardized, research-ready data

The result?

- Mismatch between controlled trials and real-world settings
- Heterogeneity in treatment responses
- Missed opportunities to improve patients' lives



PCORNET INFRASTRUCTURE IS HELPING RESEARCHERS SOLVE THESE CHALLENGES

ADAPTABLE

The ADAPTABLE study team wanted to understand which aspirin dose offered the right balance of effectiveness and minimal risk of bleeding.



The Aspirin Study

- **Using PCORnet, the ADAPTABLE team could:**
 - Engage 15,000 patients living with heart disease from 40 sites in 38 months
 - Build a pragmatic study model where research participants actively drove engagement
- **Patient-Centered Results:**
 - Published a [design paper](#) on how the pragmatic design helped to alleviate the burden on patients and site staff
 - Published results May 2021 in the [New England Journal of Medicine](#)
 - Named by the [Clinical Research Forum](#) as a Top 10 Clinical Research Achievement for 2022

PREVENTABLE

The PREVENTABLE study team is exploring whether a statin can help prevent dementia and CV-related deaths in adults aged 75+ without increasing risks of adverse health outcomes.



PREVENTABLE

- **Using PCORnet, the PREVENTABLE team could:**

- Follow 20,000 adults age 75+ with no history of CV, disability, or dementia for five years
- Capture three complementary sources of data (Medicare, EHR, and survey)

- **Patient-Centered Results:**

- Enrolled the largest trial in people aged 75+ to date
- Established a pragmatic design with only one protocol amendment needed in response to COVID-19
- Results expected in 2026

BP CONTROL LAB

The BP Control Laboratory study team wanted to understand how well clinics and patients are controlling blood pressure (BP) and if new technologies could improve this aim.

- **Using PCORnet, the BP Control Lab team could:**

- Develop a reusable platform for efficient CV surveillance and comparative effectiveness research
- Establish connections across major health systems and directly engage patients
- Leverage a shared Common Data Model to standardize electronic health record codes

- **Patient-Centered Results:**

- Published a manuscript in March 2020 detailing development of the novel platform in [Circulation: Cardiovascular Quality and Outcomes](#)
- Published results October 2022 in [JAMA Internal Medicine](#)

“The robust infrastructure of PCORnet, and particularly the Common Data Model that unites millions of disparate data points so they are usable and meaningful for research, is giving us a significant head start in our search for answers.”



Mark Pletcher

Co-principal Investigator
for BP Control Laboratory

[Read more](#)

POWER YOUR NEXT CV STUDY WITH PCORNET

PCORnet is open to collaboration requests from researchers, patient groups, industry, agencies and others.

Are you ready to find out how PCORnet can support your next research effort? Contact the [PCORnet® Front Door](#) to start the conversation.



PCORnet® is a national resource, funded by PCORI, where high quality health data, patient partnership, and research expertise deliver fast, trustworthy answers that advance health outcomes. The Network supports both observational and interventional research.



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The National Patient-Centered
Clinical Research Network

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