

The Greater Plains Collaborative (GPC) and PCORnet®

April 22, 2026

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Greater Prairie Chicken

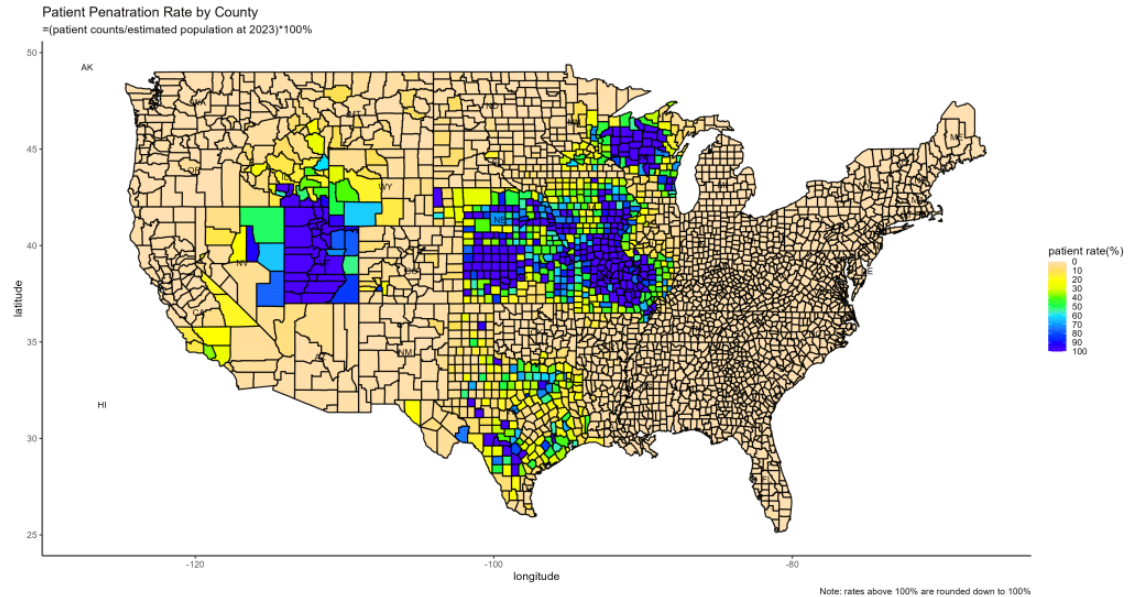
Outline

- Background on PCORnet and GPC
- Some history of the GPC
- GPC Priorities going forward
- How to engage with us



GPC and PCORnet Description

- Background on PCORnet and GPC
- Unique capabilities of the GPC
- GPC Priorities going forward
- How to engage with us



PCORnet Beginnings - JAMIA July 2014

Editorial

PCORnet: turning a dream into reality

Francis S Collins,¹ Kathy L Hudson,¹ Josephine P Briggs,²
Michael S Lauer³

on

Launching PCORnet, a national patient-centered clinical research network

Rachael L Fleurence,¹ Lesley H Curtis,^{2,3} Robert M Califf,^{4,5} Richard Platt,^{6,7}
Joe V Selby,¹ Jeffrey S Brown^{6,7}

Brief communication

The Greater Plains Collaborative: a PCORnet Clinical Research Data Network

Lemuel R Waitman,¹ Lauren S Aaronson,² Prakash M Nadkarni,³ Daniel W Connolly,¹
James R Campbell⁴

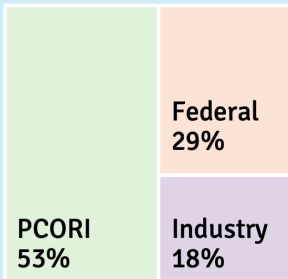
PCORnet®: A Vetted National Resource

10
Years of
Patient-
Centered
Research

50+
PCORnet®
Studies

Received Over
\$500 Million in
Funding

Funded by



75+
PCORnet®
Network Partners

8 PCORnet® Clinical
Research Networks
across the U.S.

145+
Publications

About
PCORnet®
Studies

400+
Publications

Supported by
PCORnet
Resources

47+
Million
People

PCORnet represents data
from everyday healthcare
encounters with more than
47 million people annually
across the U.S.

50
States

PCORnet is
linked to
patients in
every state in
the U.S.

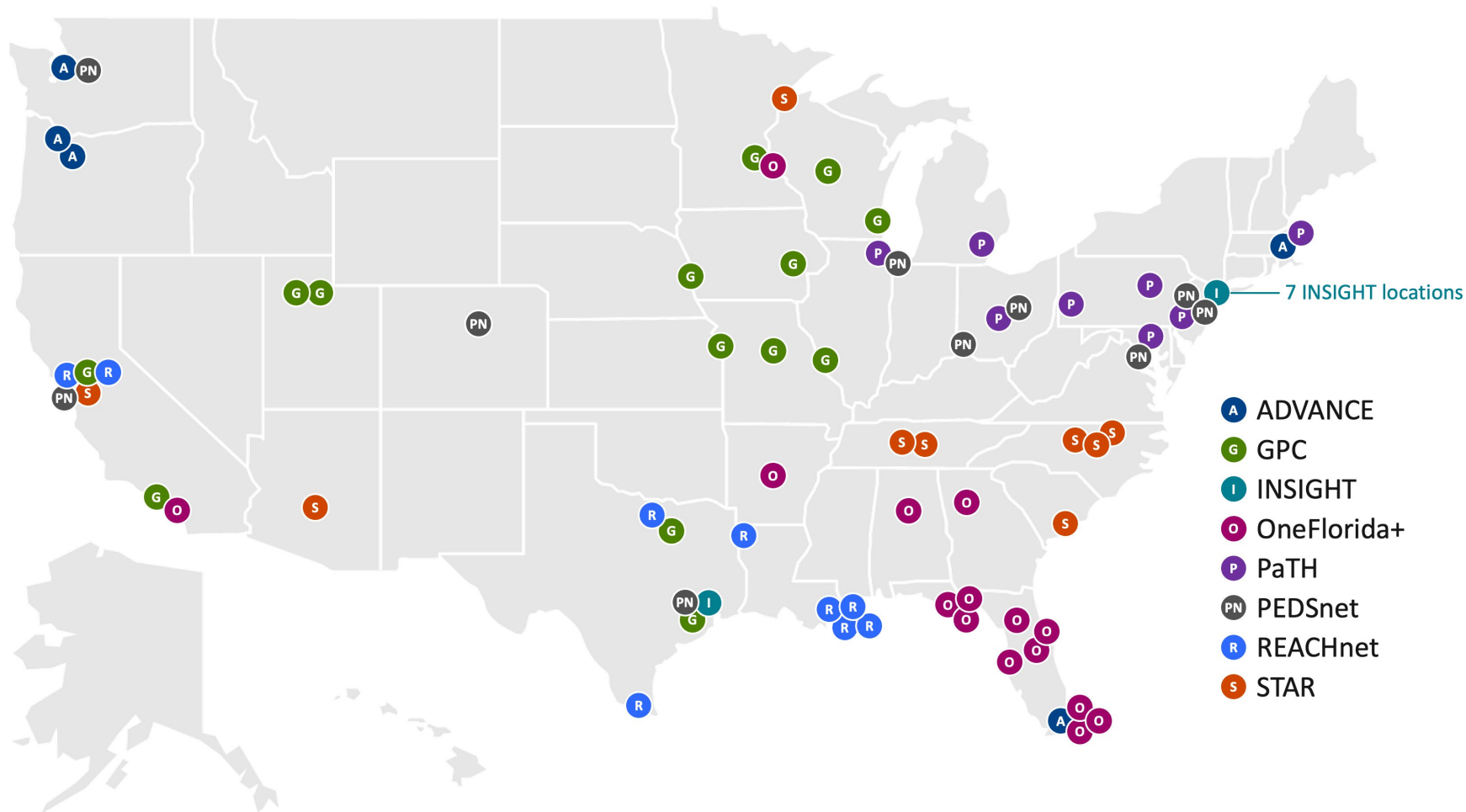
Data as of
January 2025

PCORnet® Studies
have already answered
major patient-centered
clinical comparative
effectiveness research
questions on **heart
disease, metabolic and
renal disorders,
obesity**, and more,
leading to meaningful
improvements in patient
care.

Research that leverages
this network is tapping
into a **proven engine for
discovery**.

PCORnet® Clinical Research Network Locations

The PCORnet infrastructure offers access to real-world data through partnerships with Clinical Research Networks (CRNs)

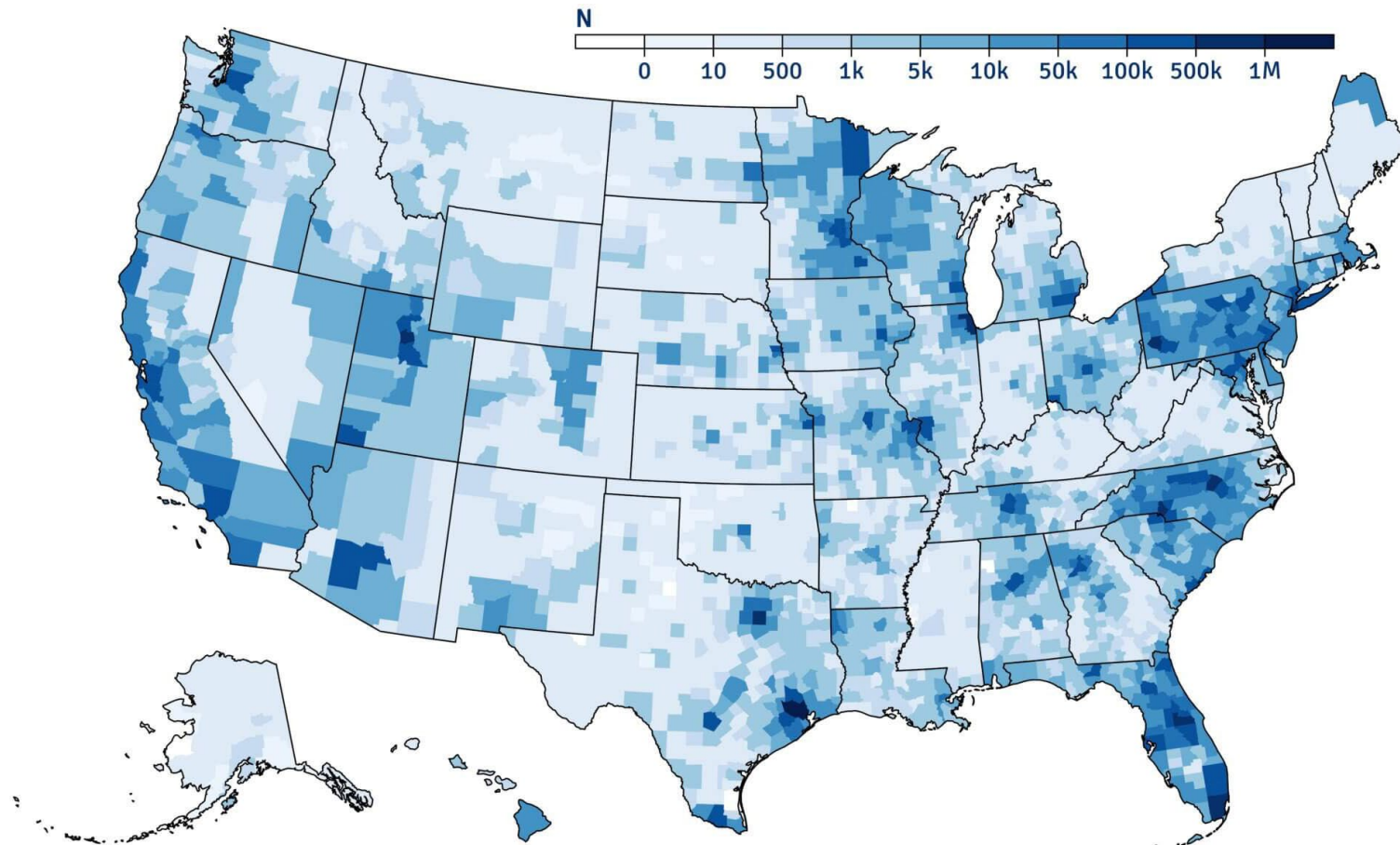


What are Clinical Research Networks?

PCORnet® CRNs are groups of healthcare institutions across the U.S., from large academic health centers to local community clinics, united by a commitment to speed patient-centered research via PCORnet.

Scope of PCORnet-Accessible Data

PCORnet represents data from **everyday health care encounters with more than 47 million people** annually across the U.S.



Involve everyone –
We're all patients!

**The data density map illustrates single addresses that are associated with individual PCORnet® Network Partner encounters.*

The PCORnet® Common Data Model

For data to be useful, it has to be standardized across systems. Frequent data curation and a single language enabled by the PCORnet® Common Data Model (CDM) deliver fast insights.

Ready for Research

Demographics	Diagnoses	Procedures	Immunizations	Tumor Registry	Biosamples
Vital Signs	Labs	Clinical Observations	Social Determinants of Health	Patient-Generated Data	Genomic Results
Medication Orders & Administrations			Patient-Reported Outcomes	Natural Language Processing Derived Concepts	

Data from PCORnet® Clinical Research Networks available in the PCORnet® CDM and ready for use in research

Available, But Still Evolving

Data available at some PCORnet® Clinical Research Networks, may or may not be in the PCORnet® CDM and require additional work for use in research

A Shared Vocabulary To Create Shared Meaning

Network Modes of Operation

Federated/de-centralized

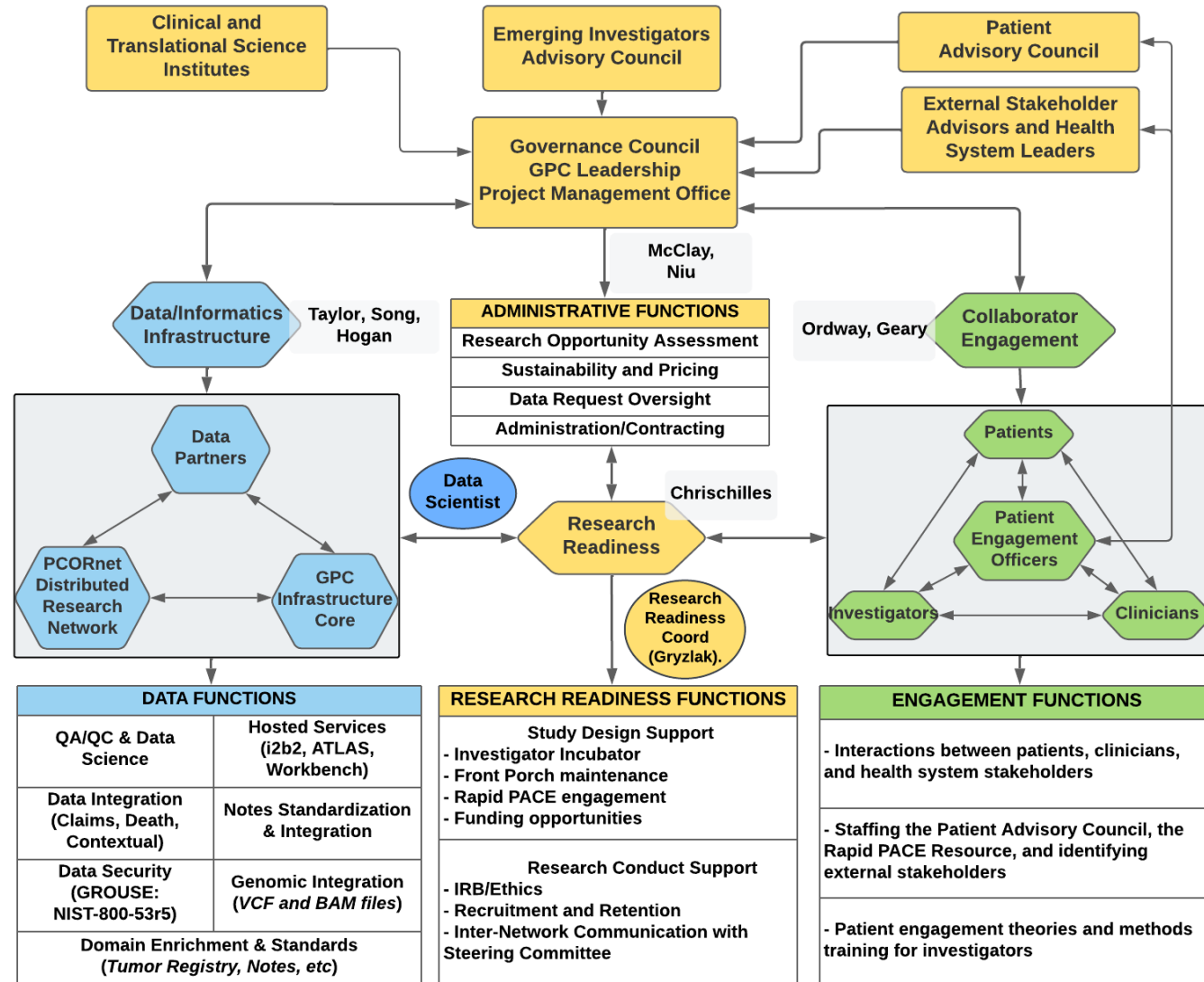
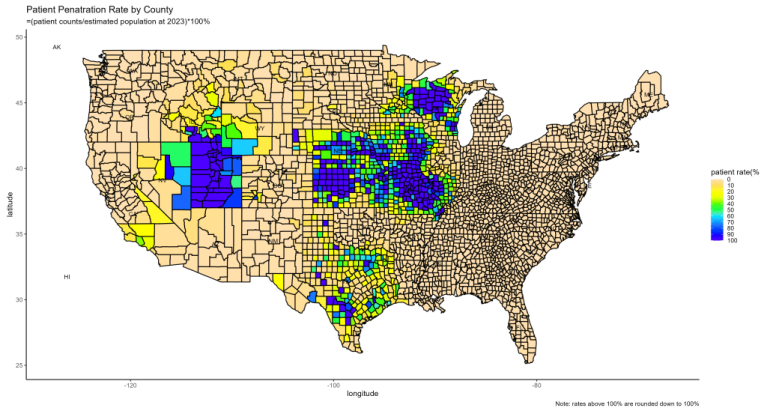
- GPC
- OneFlorida+
- PaTH
- REACHnet
- STAR

Centralized

- ADVANCE
- INSIGHT
- PEDSnet

Each network has its own governance structure and unique capabilities.

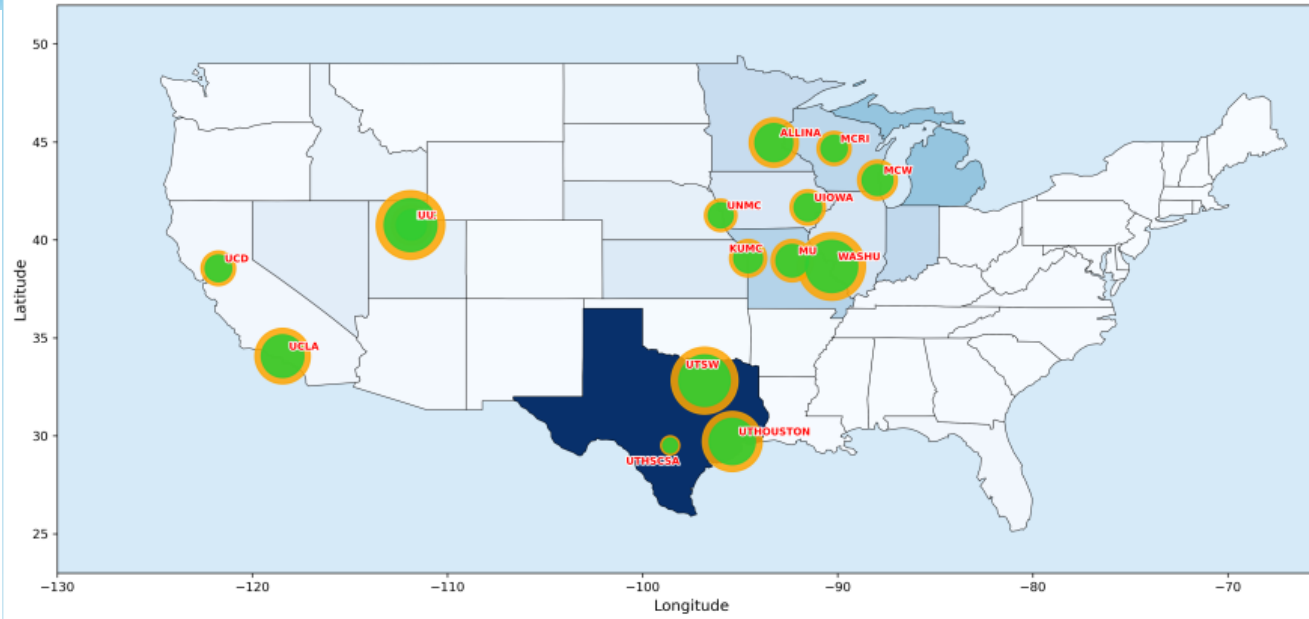
GPC Governance and Structure



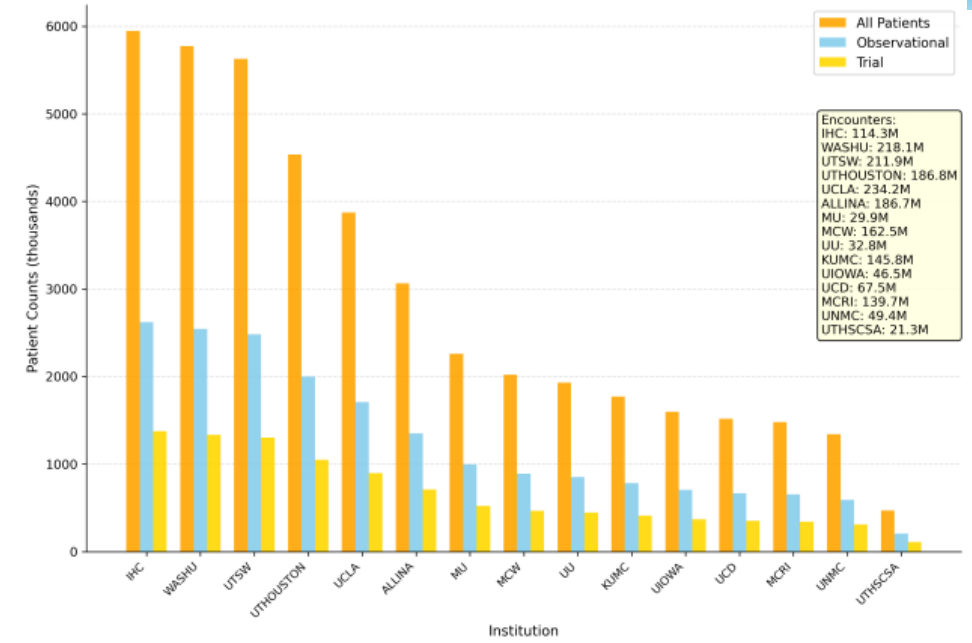
Greater Plains Collaborative (GPC) Network

Patient Data Coverage & Clinical Research Capacity

GPC Network Geographic Distribution
Medicare/Medicaid Population Size by State



Patient Counts by Institution and Type



NETWORK OVERVIEW

43,204,113
Total Patients

19,047,748
Observational Pool

9,987,955
Clinical Trial Pool

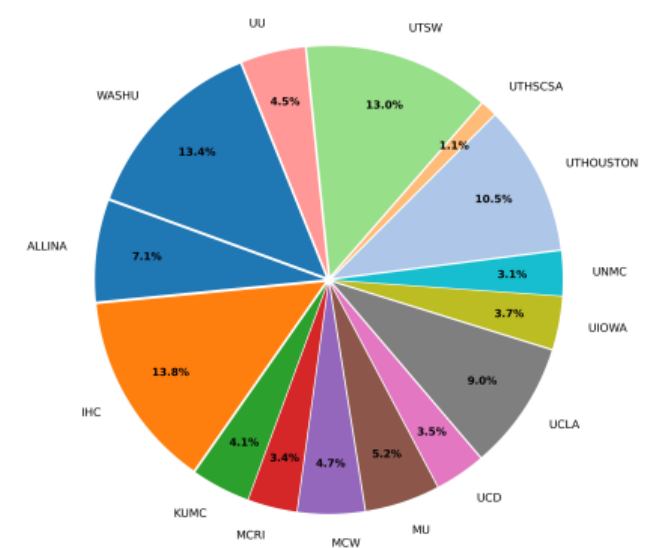
15
Institutions

9
States

2010-2026
Coverage

Data Domains: Demographics · Vitals · Labs · Medications · Procedures · Diagnoses

Distribution of Total Patients Across Network



GPC Reusable Observable Unified Study Environment (GROUSE)

- De-identified data resource, created by merging CMS claims with CDM data, enriched with SSADMF, tumor registries, geocoding and SDoH information, from all 14 GPC sites
- Two options to use GROUSE data:
 - Option 1: site CDM data only
 - Option 2: site CDM data + CMS claim
- GROUSE Subsidy available for junior investigators with limited funding



GPC I2B2 Feasibility Queries

i2b2 Query & Analysis Tool

Terms

- + ☐ ACT COVID-19 - 32,988,575
- + ☐ ACT Demographics - 41,668,271
- + ☐ ACT Diagnoses ICD-9-CM - 15,887,719
- + ☐ ACT Diagnoses ICD-10-CM - 28,083,233
- + ☐ ACT Diagnoses ICD10-ICD9 - 33,808,134
- + ☐ ACT Laboratory Tests - 16,663,827
- + ☐ ACT Laboratory Tests (Provisional) - 18,110,347
- + ☐ ACT Medications Alphabetical - 22,396,345

Term Info Workplace

- To view term info:
- Click on a term, or
 - Hover over a term in the Find Patients panel, and click the info icon

Previous Queries

- + @14:0:4 [4-1-2026] [jcmwfn@umsystem.edu]
- N17 Acute Kidney Failure (2010AB-2022AB)@17:54:59
 - ⌚ Results of N17 Acute Kidney Failure (2010AB-2022A
 - (N) Number of patients is 590160 - FINISHED
 - (N) GPC Site breakdown - FINISHED
 - (N) Vital Status patient breakdown - FINISHED

Find Patients

Tools

Find Patients ☒ with ☐ without ☐ when

☐ N17 Acute Kidney Failure (2010AB-2022AB) [≥ 01/01/2020]

or drag additional concepts

Set date range and/or occurrence for this entire panel

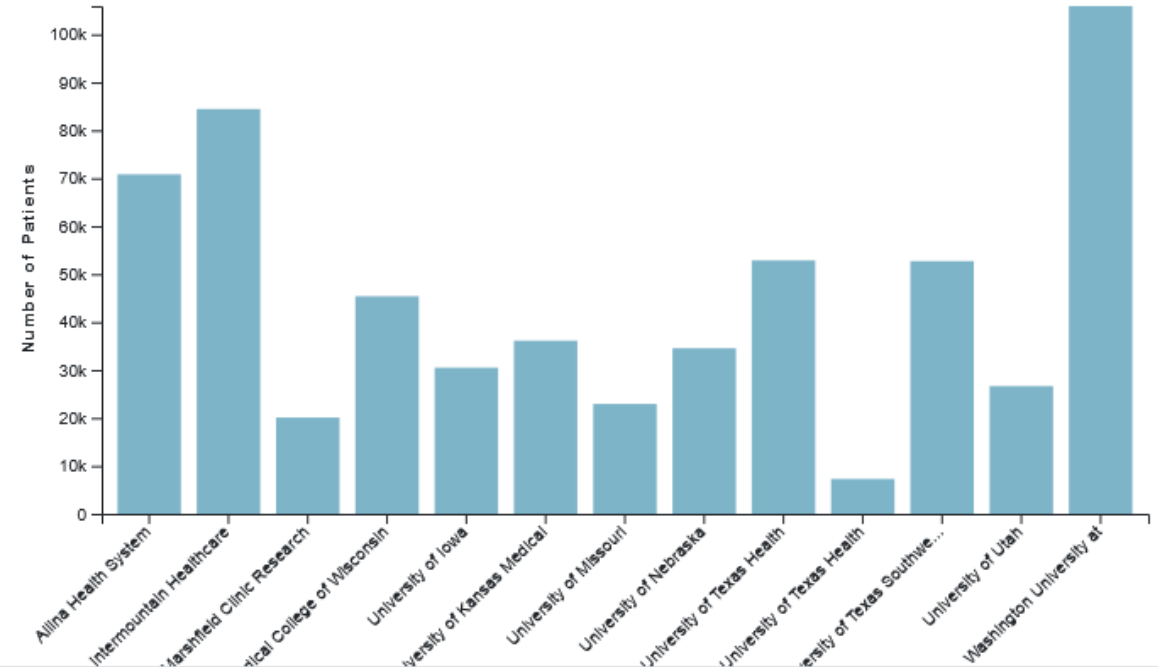
Name: N17 Acute Kidney Failure (2010AB-2022AB)@17:54:59

Find Patients

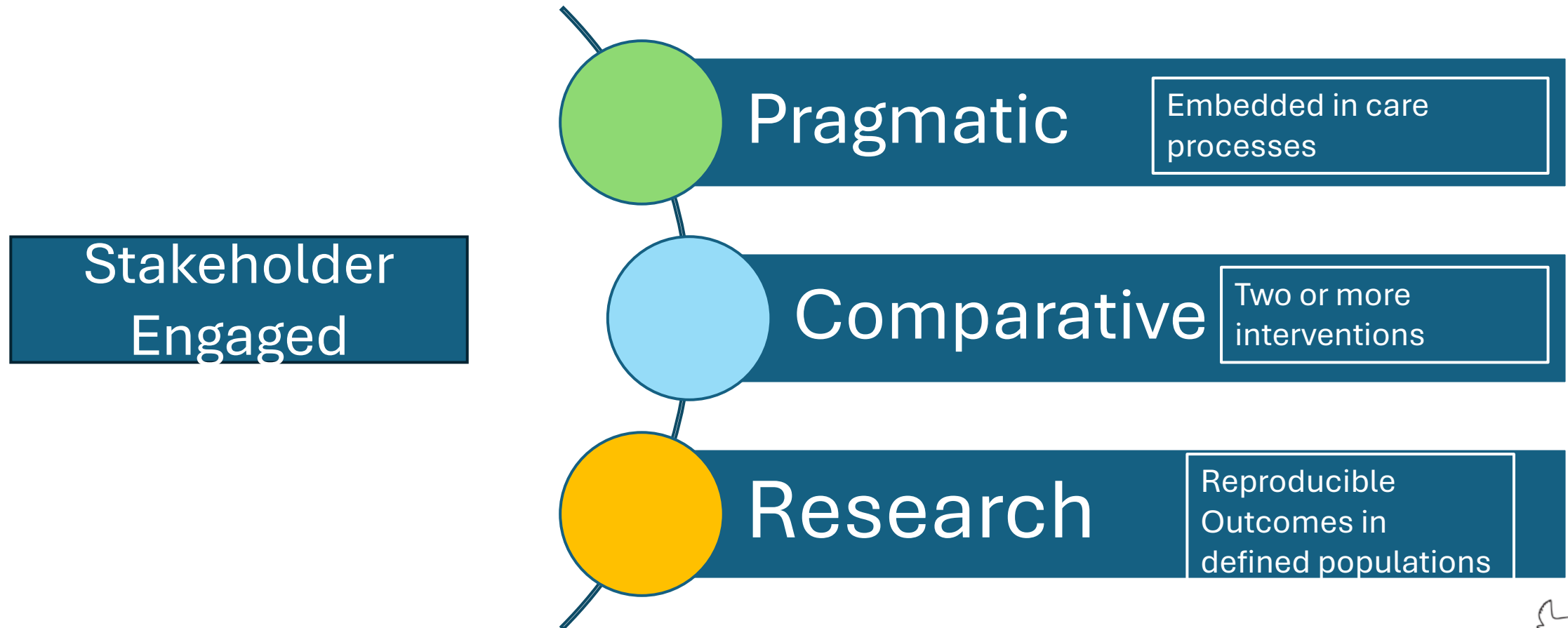
Clear All

Query Status

GPC Site breakdown



Designed for Engaged Pragmatic Comparative Effectiveness Research



GPC Path Forward for PCORnet Phase 4

- Focus on comprehensive collaboration and learning
- Expand relationships across stakeholders including health systems
- Enhance pathways for Patient Engagement in the research process
- Structured mentorship in patient-centered CER
- Increase Dissemination of Findings
- Develop the ability to support advanced AI system development

PCORnet and GPC Resources

Scenario	Resource
You want to understand how to engage with PCORnet	View: PCORnet® Playbook
You want to know what kinds of research PCORnet can support	View: Types of Research Enabled by PCORnet®
You want to use PCORnet to identify sites for your project You want to know if your study is feasible in the network (prep-to-research counts) You want to consult on stakeholder engagement in PCORnet	View: PCORnet® Clinical Research Network Site Profiles Contact: PCORnet Front Door
Your research interests fall into one of the following categories • Gene Therapy • Intellectual and Developmental Disabilities • Maternal Morbidity and Mortality • Mental and Behavioral Health • Metabolic and Endocrine Conditions • Pediatric Population • Sensory Health • Telehealth • Women’s Health	View: Population Insights Reports
You only want to work with GPC sites or their data	Contact: GPC Front Porch
You only want to work with the GPC centralized data repository – linked EHR and CMS claims data (aka ‘GROUSE’)	View: GROUSE Overview View: GROUSE GitHub Public Repo Contact: GPC Front Porch

You may want to loop in the GPC before / after your Front Door consultation – there may be nuances or other local context issues that we can advise on

Connect with GPC

- Visit:

<https://gpcnetwork.org/contact-us/>



Please fill the following information

Full Name:

Phone number:

Email address:

Institution/organization:

What do you hope GPC can help you with?



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[Research](#) ▾

[Events](#)

[Resources](#) ▾

Search here..



[CONTACT US](#)

GPC Request Forms

Distributed Data	Mechanism to submit request	Who is responsible for query development?	How are results accessed?	Timeline	IRB approval
Aggregate Query	DROC	Investigator in collaboration with the informatics/analyst at local site, GPC central or PCORnet query fulfillment center. Piloting at a site and validation is required.	REDCap or CSV	2-3 weeks without query optimization	Not required
De-identified	DROC/ROA	Same as above	REDCap	Same as above	Same as above
Limited < 150	DROC/ROA	Same as above	REDCap	Same as above	Required – needs to be uploaded in request forms
Limited >= 150	DROC/ROA	Same as above	REDCap or SFTP	Same as above	Required – needs to be uploaded in request forms
Access to GROUSE data for investigator to conduct analyses	DROC/ROA	Queries developed and confirmed with a GPC GROUSE expert	Within GROUSE environment	2 weeks upon DROC approval	Required – needs to be uploaded in request forms
GPC team conducts analyses on GROUSE	DROC/ROA	Queries developed and confirmed, results analyzed by a GPC GROUSE expert	Within GROUSE environment	2-3 weeks	Required – needs to be uploaded in request forms

Quick Links

[Front Porch Resource Guide](#)

[GPC Query and Data Request form](#)

[GPC Research Opportunity Assessment](#)

[GPC Manuscript Authorship and Acknowledgement Guidelines](#)

[GREATER PLAINS COLLABORATIVE PRICING BREAKDOWN](#)

[GPC RAPID PACE DOCUMENT](#)

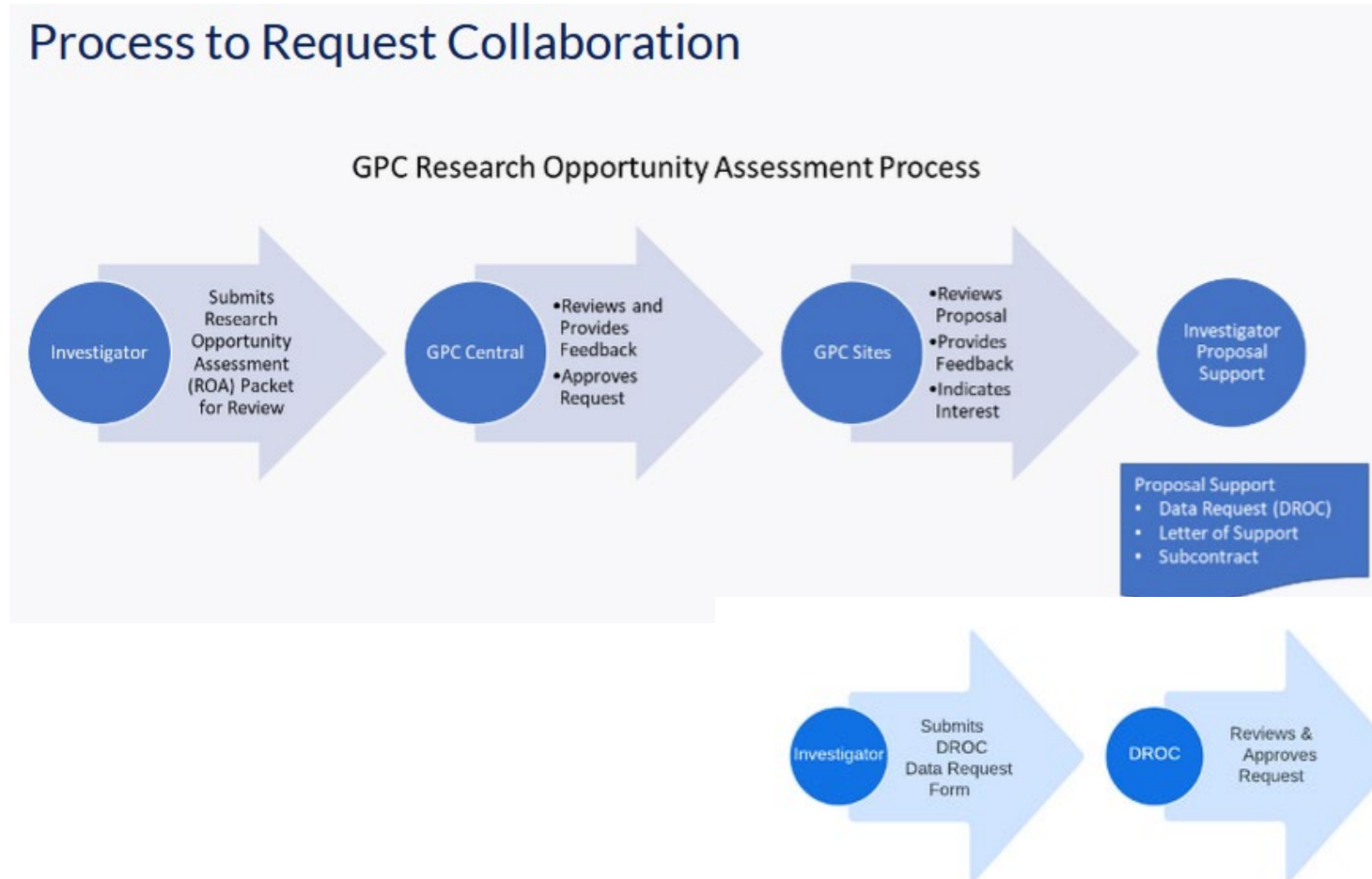
[Rapid PACE Intake Form-Investigators/ Researchers](#)

[GPC Github Wiki](#)

Collaborating with the GPC sites

- GPC Research Resources

Process to Request Collaboration



In summary

- PCORnet® and The Greater Plains Collaborative are mature programs
- Ready to focus on people-driven, pragmatic comparative effectiveness research
- With a suite of advanced research tools
- And a dedicated workforce
- Thank you

Greater Prairie Chicken

Connect with the GPC at
<https://gpcnetwork.org/>

