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Our national clinical research system is wellintentioned but needs improvement

We are not generating the evidence we need to support the healthcare decisions that patients and their doctors have to make every day.

- High percentage of decisions are not supported by evidence
- Health outcomes and disparities are not improving
- Current clinical research system faces several problems:







Doesn't answer questions that matter most to people



PCORnet: the National Patient-Centered Clinical Research Network



PCORnet is a large, highly representative, national patient-centered clinical research network.

Our <u>vision</u> is to support a learning U.S. healthcare system and to enable large-scale clinical research conducted with enhanced quality and efficiency.

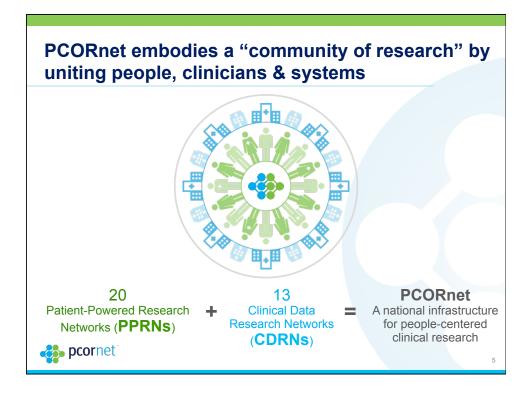
Our <u>mission</u> is to enable faster, more trustworthy clinical research that <u>helps</u> people make informed health decisions.

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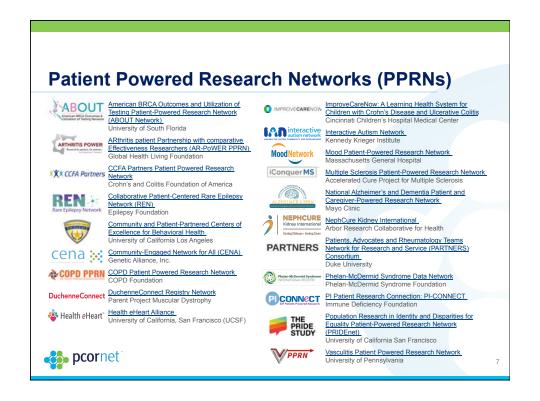
With PCORnet, we have developed a nationwide functional research network that...

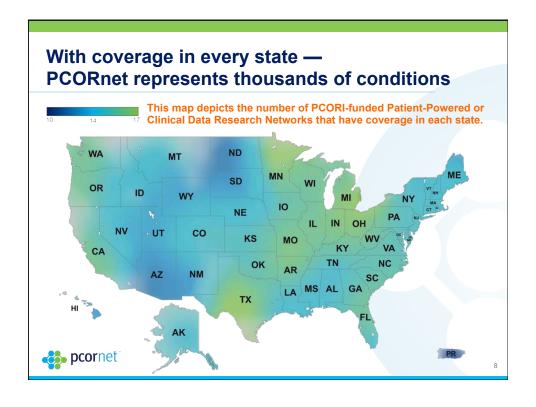
- Creates infrastructure, tools, and policies to support rapid, efficient clinical research
- Utilizes multiple electronic health records, insurance claims data, data reported directly by people, and other data sources
- ☼ Engages people, clinicians, and health system leaders throughout

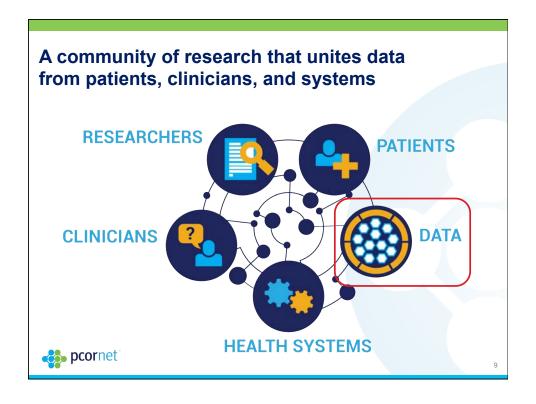


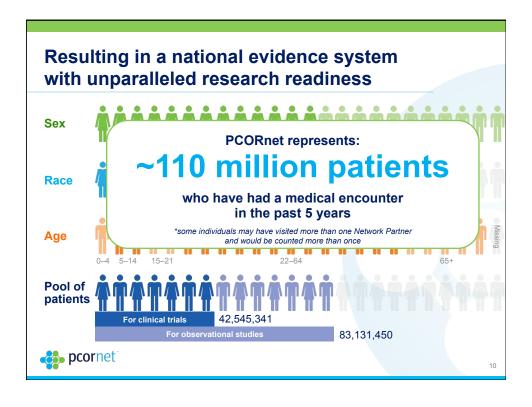


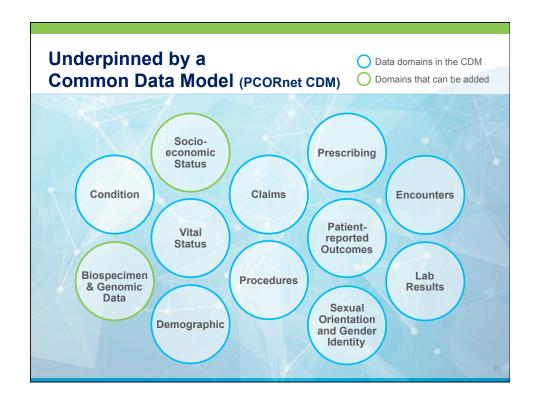


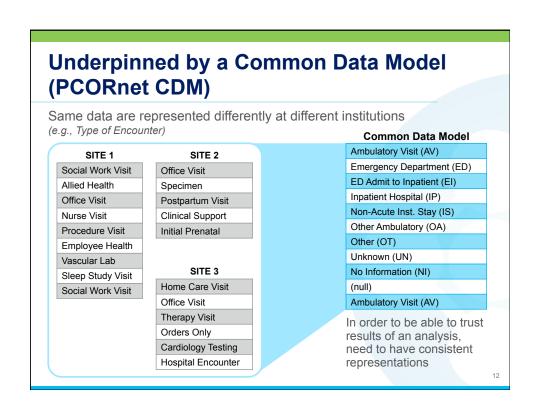












Demographics: Initial Results that included more than 40 million persons with a 2014 encounter

	PCORnet*	2010 US Census
Age		
0-20	27.6%	27.0%
21-44	28.1%	33.6%
45-64	26.6%	26.4%
65-74	10.1%	7.0%
75+	7.7%	6.0%
Sex		
Female	57.1%	50.8%
Male	42.9%	49.2%
Other/Missing	0.0%	
Race		
Black/African American	12.1%	12.6%
White	62.4%	72.4%
Other/Missing	25.6%	15.0%
Hispanic		
Yes	14.2%	16.3%
No	61.5%	83.7%
 Other/Missing	24.2%	
*Number of patients with given characteristic with an encounter in any care setting divided by the total number of patients with an encounter in any care setting (2014).		

Selected Condition: Counts of Patients

Condition	PCORnet*	
Diabetes	750,269	
Pulmonary Disease	2,837,803	
Any Malignancy	1,294,158	
MI	354,929	
Stroke	420,802	
Rheumatoid Arthritis	254,803	
Ulcerative Colitis	88,029	
Hypertension	5,902,641	
Renal Disease	1,018,729	
Influenza/ Pneumonia	869,306	



^{*}Number of patients with condition of interest in any care setting divided by the total number of patients with an encounter in any care setting (2014).

**Most estimates are based on adults only.

***Prevalence of CKD

We've tested our system's functionality in multiple research settings

14 PCORI-funded PCORnet demonstration studies are answering critical research questions while also testing the infrastructure and key functional aspects of PCORnet.

- Interventional studies
- Observational studies
- Patient-powered research network (PPRN) studies
- Health systems studies

Learn more about PCORnet Demonstration Studies





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We've also amplified our research power with cross-network collaboration

Collaborative Research Groups:

Catalyzing Multi-Network Research



Autoimmune and Systemic Inflammatory Syndromes

Behavioral Health

Cancer

Cardiovascular Health

Diabetes and Obesity

Health Disparities

Health Systems, Health Policy, and Public Health

Hospital Medicine

Kidney Health

Pediatrics

Pulmonary



Current PCORnet CRGs: Administrative Prime Participating Networks Autoimmune and Systemic Inflammatory Syndromes AR-PoWER PPRN Vasculitis CPPRN Behavioral Health NYC CDRN GPC CDRN ABOUT, PORTAL Cancer Health eHeart Alliance PPRN Cardiovascular Health LHSnet, OneFlorida Mid-South CDRN Diabetes and Obesity OneFlorida Health Disparities ADVANCE CDRN PRIDEnet Health Systems, Health Policy and Public Health NYC CDRN OneFlorida pSCANNER CDRN Mid-South, CAPriCORN Hospital Medicine LHSnet, pSCANNER, Mid-Kidney Health NephCure PPRN PEDSnet CDRN Pediatrics OneFlorida COPD PPRN PaTH 🐝 pcornet

You can use PCORnet for many kinds of research



Pre-research

- Feasibility queries
- Engagement
- Match-making



Observational studies

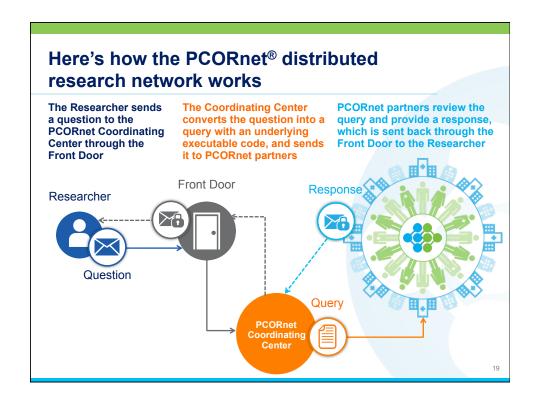
- Cross-sectional
- Epidemiology
- Health services
- Comparative effectiveness or safety

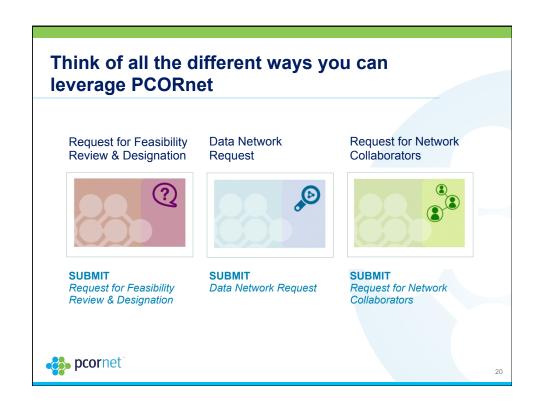


Interventional studies

- Clinical trials
- Pragmatic randomized clinical trials
 - e-Identification
 - e-Consent
 - e-Randomization
 - e-Follow-up
- Cluster randomization







A Front Door is OPEN... take your research to the next level



- Through PCORnet Front Door, we invite PCORnet researchers and other investigators, patient groups, healthcare organizations, clinicians or clinician groups, government and industry scientists, and sponsors to collaborate on important patient-centered clinical research studies.
- For general questions, contact us at frontdoor@pcornet.org

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More information on PCORnet®

Website: www.pcornet.org

PCORnet Commons: http://pcornetcommons.org/

Twitter: oPCORnetwork

YouTube: PCORI YouTube Playlist

Vimeo: <u>PCORI Vimeo Playlist</u>

PCORnet communications contact: Jennifer.Cook@duke.edu



PCORnet® and PCORI

About PCORnet

PCORnet, the National Patient-Centered Clinical Research Network, is an innovative initiative of the Patient-Centered Outcomes Research Institute (PCORI). The goal of PCORnet is to improve the nation's capacity to conduct clinical research by creating a large, highly representative network that directly involves patients in the development and execution of research. More information is available at www.pcornet.org.

About PCORI

The Patient-Centered Outcomes Research Institute (PCORI) is an independent, nonprofit organization authorized by Congress in 2010. Its mission is to fund research that will provide patients, their caregivers, and clinicians with the evidence-based information needed to make better-informed healthcare decisions. PCORI is committed to continually seeking input from a broad range of stakeholders to guide its work. More information is available at www.pcori.org.



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Questions or Comments?

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