Building primary care research infrastructure: Reflections and achievements of AHRQ Research Centers in Practice-Based Research and Learning (P30 awards)

Panel Presentation: Infrastructure/Network Operations
PBRN Annual Meeting
June 2018
Bethesda, MD
Objectives

- P30 Center Grant introductions and sharing of key insights about how their P30 accelerated primary care research
- Preliminary findings from a program evaluation study
- Facilitated discussion to address:
  - Components of the P30 worth replicating
  - Whether and how research and training activities, as well as collaborations and partnerships, are being sustained
  - Lessons learned in building a national primary care research infrastructure and partnering with other PBRNs
  - Suggestions on how to further facilitate the collaborative work of PBRNs at the national level
AHRQ Centers for Primary Care Practice Based Research and Learning (2012)

https://pbrn.ahrq.gov/pbrn-profiles/p30-centers

- Bring together multiple PBRNs to leverage common resources and stimulate innovation with the ultimate goal of improving the delivery and organization of primary care
- Nurture partnerships and foster trans-network collaboration
- Conduct research and develop methods
- Develop a robust and productive research and dissemination infrastructure

More information on resources and trans-P30 collaborations - the P30 Centers Overview Profile (PDF – 1.24 MB).
## AHRQ P30s

<table>
<thead>
<tr>
<th>Network</th>
<th>Principal Investigator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CoCoNet2</td>
<td>(Nagykaldi)</td>
<td>Coordinated Coalition of Primary Care Research Networks</td>
</tr>
<tr>
<td>COIN</td>
<td>(Werner)</td>
<td>Collaborative Ohio Inquiry Network</td>
</tr>
<tr>
<td>C-PRL</td>
<td>(Fiks)</td>
<td>National Center for Pediatric Practice-Based Research and Learning</td>
</tr>
<tr>
<td>Meta-LARC</td>
<td>(Fagnan)</td>
<td>Meta-network Learning and Research Center</td>
</tr>
<tr>
<td>MOSAIC</td>
<td>(Kimminau)</td>
<td>Meaningful Outcomes Science And Innovation Center</td>
</tr>
<tr>
<td>N²</td>
<td>(Tobin)</td>
<td>Building a Network of Safety Net PBRNs</td>
</tr>
<tr>
<td>PPRNet</td>
<td>(Ornstein)</td>
<td>Primary (Care) Practice Research Network</td>
</tr>
<tr>
<td>PRIME Net</td>
<td>(Neale)</td>
<td>Primary Care Multi Ethnic Network</td>
</tr>
</tbody>
</table>
Panel Presenters

• Zsolt Nagykaldi, PhD - CoCoNet2
• Margaret Wright, PhD – C-PRL
• Kim Kimminau, PhD - MOSIAC
• Jonathan Tobin, PhD - N2
• Lyle J. Fagnan, MD - Meta-LARC

• Rebecca Roper, MS, MPH – AHRQ PBRN Initiative
• Paula Darby Lipman, PhD - CoCoNet2
<table>
<thead>
<tr>
<th>Participating P30s</th>
<th>Center Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>CoCoNet2 (Nagykaldi)</td>
<td>Establish a formal coalition, develop common operating procedures, data collection methods and variables, and communication strategies.</td>
</tr>
<tr>
<td>C-PRL (Fiks)</td>
<td>Link pediatric PROS and PeRC; enhance working relationships between PROS/AAP and PeRC/CHOP; and leverage dissemination and implementation capacities to improve delivery of pediatric primary care.</td>
</tr>
<tr>
<td>Meta-LARC (Fagnan)</td>
<td>Foster research collaboration to improve quality, effectiveness and safety of primary care; accelerate research through high functioning infrastructure; promote continuous learning and sharing to accelerate dissemination of knowledge and bi-directional communication.</td>
</tr>
<tr>
<td>MOSAIC (Kimminau)</td>
<td>Center focuses on science and innovation and interrelationships essential for conducting comparative effectiveness, health services and practice-based research in a holistic way.</td>
</tr>
<tr>
<td>N² (Tobin)</td>
<td>Develop scalable infrastructure for shared research; conduct and disseminate research; adopt elements of five Evidence Based Practices and Best Practices; facilitate and accelerate dissemination and implementation of clinical research findings.</td>
</tr>
</tbody>
</table>
P30 Program Evaluation Study

- Led by CoCoNet 2 (Nagykaldi and Lipman)
- Several phases from June 2017 through January 2018
- Methods: Document review phase followed by semi-structured key informant interviews with two P30 leadership members in each center
- Dissemination: Today’s panel presentation; final report to AHRQ
Study Objectives

- **Context and infrastructure:** What were the P30 center goals and how did they align with the goals AHRQ established for the P30 Centers of Excellence?

- **Structure and function:** Who participated in the P30 Centers and how were they organized and operated?

- **Activities, outputs and impact:** What were the specific activities engaged in and what did they contribute to the field?

- **Recommendations:** What were the “lessons learned” regarding building research infrastructure for primary care research?
Session Structure

- Showcasing the P30s (5 minutes each)
  - P30 demographics, location, membership, structure
  - Topics of focus or project aims
  - What makes your P30 distinct
  - Snapshot of what you have achieved and what you could not achieve

- Evaluation highlights

- Facilitated discussion
Coordinated Coalition of Primary Care Research Networks (CoCoNet2)

Zsolt Nagykaldi, PhD
Director, CoCoNet
CoCoNet2 - Demographics

- 6 regional PBRNs and a coordinating center: OKPRN (Oklahoma); UNYNET (New York); WREN (Wisconsin); LANet (California); OCHRN (Oklahoma); MAFPRN (Minnesota); Westat (DC)
- CoCoNet networks incorporated over 400 primary care practices (33% rural; 50% private; 45% non-white patients) in 4 states located in 4 different regions of the country
- Governance by a Board of Directors representing all networks and the coordinating center
- Individual PBRN members were engaged through the network directors on the BOD
CoCoNet2 - Aims

- **Aim #1.** Establish the **administrative infrastructure** that will allow CoCoNet2 to carry out its mission effectively and efficiently (Administrative Core)
  - Identify and distribute operational administrative Core tasks
  - Develop PBRN research common operating procedures
  - Develop common communication strategies

- **Aim #2.** Formalize the processes to **prioritize research and development opportunities** are considered, refined, prioritized, and undertaken (Research Core)
  - Centralize data management
  - Develop common variables and data collection methods
  - Share innovative research methods and expertise
  - Develop researchers/collaborators

- **Aim #3.** Create the culture, processes, and communication channels needed to **enhance regional learning communities** (Translational Capacity).
  - Enhance multi-directional communication modalities
  - Communicate research results – webinars, listserv, newsletters
  - Spread the Clin-IQ process from OKPRN to other networks
  - Develop the capacity to identify, describe, and spread “best local practices”
  - Provide ongoing training for current practice facilitators (PFs, also known as PEAs) and basic training for future PFs
  - Establish methods for assessing the impact of CoCoNet2 projects on practice
CoCoNet2 – Distinctive Features

- All, but one network has collaborated with OKPRN and/or with each other in the past
- All networks had experience training and working with practice facilitators (both research and QI projects)
- Streamlining all activities via a coordinating center (Westat) providing logistics, allowing PBRNs to focus on the content of their P30 mission
- Able to continue after P30 funding ended in the form of an R13 conference grant for the International Conference on Practice Facilitation (ICPF)
- Several collaborative initiatives with other P30s
CoCoNet2 – Main Achievements

- Participating in the development of **PBRN Research Good Practices** (PRGPs), a national project led by Dr. Victoria Neale (PI) and a large team
- Establishing and **educating members** about research/admin tools and databases (e.g., SmartSheet, REDCap, clinical registries)
- Sharing **primary care and PBRN best practices** and disseminating knowledge and innovations in PBRNs (e.g., listservs, online media, ECHO-based resources)
- Supporting the development and improvement of **practice facilitation** programs nationally and creating the International Conference on Practice Facilitation (training curriculum development, program support)
- Spreading the **Clin-IQ** (“alternative FPIN”) program nationally
- Participating in large national research projects, including EvidenceNOW
- Conducting a **P30 Centers Review** and participating in inter-P30 initiatives
CoCoNet2 – Challenges

- Identifying a complete common dataset across all member PBRNs that can be collected systematically
- Keeping members engaged for 5+ years without dedicated funding for P30 research
- PI change and network director changes (these have been successfully addressed)
- Successful grant applications that included all member networks
- Loss of key AHRQ resources (e.g., PBRN Resource Center)
National Center for Pediatric Practice-Based Research and Learning (C-PRL)

Margaret Wright, PhD
Senior Research Associate

AHRQ P30 HS21645-01
2012-2018

American Academy of Pediatrics
Dedicated to the health of all children
AIMS

• Link 2 pediatric PBRNs: PROS & PeRC
• Enhance established & create new working relationships between PROS/AAP & PeRC/CHOP
• Leverage the dissemination & implementation capacities of PROS & PeRC & their parent organizations to improve delivery of pediatric primary care
ACCOMPLISHMENTS

• Develop, maintain, & augment CER² EHR supernetwork for secondary data analyses
  – Clinical data for > 1.5 million children
• Meaningful Use study
• Multiple R01-funded studies
  – Antibiotic prescribing
  – Overweight & obesity treatment
  – Influenza and HPV vaccination
  – Pharmacoepidemiology
ACCOMPLISHMENTS

• 15 publications on topics including:
  – Health Information Technology (HIT)
  – EHR research methods
  – Pediatric hypertension, asthma, ADHD
  – Pediatric medication prescribing and use
Meta-network Learning And Research Center (Meta-LARC)

Lyle J. Fagnan, MD
Director, ORPRN
Meta-network Learning And Research Center (Meta-LARC)
## Meta-LARC Table 1

<table>
<thead>
<tr>
<th>Network &amp; Headquarters</th>
<th>Institutional Affiliations</th>
<th>Principal Investigator</th>
<th>Active Practices (#)</th>
<th>Total # of Clinicians</th>
<th>% Family Medicine</th>
<th># of Patients</th>
<th>% Non-Hispanic or Latino</th>
<th>% Hispanic or Latino</th>
<th>% of patients 65 years and older (#)</th>
<th>% of patients 18 years and younger (#)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IRENE</strong> Iowa City, IA</td>
<td>University of Iowa College of Medicine</td>
<td>Barcey Levy, MD, PhD</td>
<td>179</td>
<td>283</td>
<td>99</td>
<td>900,000</td>
<td>94.3</td>
<td>5.7</td>
<td>16.4 (147,600)</td>
<td>23.3 (209,700)</td>
</tr>
<tr>
<td><strong>ORPRN</strong> Portland, OR</td>
<td>Oregon Health &amp; Science University</td>
<td>LJ Fagnan, MD</td>
<td>100</td>
<td>490</td>
<td>94</td>
<td>467,610</td>
<td>93</td>
<td>7</td>
<td>25*** (114,614)</td>
<td>10**** (44,588)</td>
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<tr>
<td><strong>PCRC</strong> Durham, NC</td>
<td>DUKE University Medical Center</td>
<td>Rowena Dolor, MD, MHS</td>
<td>49</td>
<td>331</td>
<td>49</td>
<td>455,597</td>
<td>90</td>
<td>5</td>
<td>21 (95,700)</td>
<td>26 (118,500)</td>
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<tr>
<td><strong>QPBRN</strong> Quebec City, Quebec</td>
<td>University of Laval Medical School</td>
<td>France Légaré, MD, PhD</td>
<td>12</td>
<td>216</td>
<td>100</td>
<td>106,285</td>
<td>X</td>
<td>X</td>
<td>17.5** (18,600)</td>
<td>17.5** (18,600)</td>
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<tr>
<td><strong>SNOCAP</strong> Denver, CO</td>
<td>University of Colorado School of Medicine</td>
<td>Donald Nease, MD</td>
<td>155</td>
<td>800</td>
<td>75</td>
<td>400,500</td>
<td>75</td>
<td>25</td>
<td>20 (80,100)</td>
<td>20 (80,100)</td>
</tr>
<tr>
<td><strong>UTOPIAN</strong> Ontario</td>
<td>University of Toronto</td>
<td>Michelle Greiver, MD, MSc</td>
<td>400</td>
<td>1500</td>
<td>100</td>
<td>1,000,000</td>
<td>X</td>
<td>X</td>
<td>22 (220,000)</td>
<td>14* (140,000)</td>
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<tr>
<td><strong>WREN</strong> Madison, WI</td>
<td>University of Wisconsin School of Medicine</td>
<td>David Hahn, MD, MS</td>
<td>80</td>
<td>200</td>
<td>95</td>
<td>400,000</td>
<td>93</td>
<td>7</td>
<td>15.2 (60,800)</td>
<td>28.6 (114,400)</td>
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<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td>975</td>
<td>3820</td>
<td>3,729,992</td>
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<td>737,414</td>
<td>725,888</td>
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</tbody>
</table>

*Age 16 years and younger; **Province statistics, age 60 years and older and 17 years and younger; *** Age 60 years and older; **** Age 17 years and younger
Meta-LARC: Specific Aims

• Aim 1: Foster the capabilities of six PBRNs and 533 primary care practices through a robust collaboration designed to conduct research to improve the quality, effectiveness and safety of primary care.

• Aim 2: Accelerate the conduct of PBRN research through a well designed, high functioning common infrastructure that enables the efficient conduct of research.

• Aim 3: Promote continuous learning and sharing across Meta-LARC networks and practices to accelerate the dissemination of knowledge and bi-directional communication.

RFA: Research Centers in Primary Care Practice Based Research and Learning (P30) 28 November 2011
<table>
<thead>
<tr>
<th>Communication</th>
<th>Effective Shared Leadership</th>
<th>Accelerated Processes</th>
<th>Resources</th>
<th>Measuring and Building Success</th>
<th>Collaboration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nimble, Effective Communication</td>
<td>Governance</td>
<td>Accelerated Processes</td>
<td>PIs to Write Grants (Fundable)</td>
<td>Measures of our Own Success</td>
<td>Close Collaboration</td>
</tr>
<tr>
<td>Communication Tools</td>
<td>Share Leadership Based on Network Strengths</td>
<td>Rapid Decision Making</td>
<td>Funding</td>
<td>Enhanced Research Productivity</td>
<td>Shared Goals</td>
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<tr>
<td>Efficient and Sustained Communication</td>
<td>Flexibility and Openness</td>
<td>Everyone Contributes!</td>
<td>Capacity Building</td>
<td>Shared Learned and Best Practices</td>
<td></td>
</tr>
<tr>
<td>Face-to-Face Exchanges</td>
<td></td>
<td>Resources and People and $$</td>
<td>Early Successful Projects</td>
<td>Common Goals/Vision</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Adequate Resources</td>
<td></td>
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</tr>
</tbody>
</table>
Meta-LARC Production

Cumulative Meta-LARC Activities

- Publications (6)
- Webinars, presentations, posters, workshops (22)
- PBRM fellows (16)
- Funded grants (3)
- Grants submitted (8)
Meaningful Outcomes and Science to Advance Innovation Center of Excellence

(MOSAIC)
Participating Networks

1. AAFP National Research Network
2. American College of Physicians Network (ACPNet)
3. DARTNet Institute
4. Collaborative Care Research Network (CCRN)
5. Connecticut Center for Primary Care (CCPC)
6. The Dental PBRN (DPBRN)
7. Electronic National Quality Improvement & Research Network (eQUIRENet)
8. Free Clinic Research & Educational Engagement Network (FreeNet),
9. New York City Research Improvement and Networking Group (NYC RING)
11. Residency Research Network of Texas (RRNeT)
12. Scalable Architecture for Federated Therapeutic Inquiries Network (SAFTINet)
13. South Texas Ambulatory Research Network (STARNet)
14. Upstate New York Practice Based Research Network (UNYNET)
15. WWAMI Region Practice and Research Network (WPRN)
Aims

- **Explore novel methods** of utilizing and expanding electronic data (point of-care data, patient reported outcomes and claims data)

- Improve a developing **learning community** to disseminate study findings, find and share best practices, and identify questions that require further exploration

- Establish **processes for non-DARTNet Collaborative clinicians and practices to engage** in the learning activities of the DARTNet Collaborative that do not require patient-level data sharing
Aims of the Center of Excellence

4. Promote new research with rapid cycle funding opportunities only available to the eight AHRQ designated Centers of Excellence.

✓ Advance practice-based research and **grow practice-based learning**

✓ **Accelerate** the generation of new knowledge to improve quality, patient safety and effectiveness of care
N²-PBRN: Building a Network of Safety Net PBRNs

JONATHAN N. TOBIN, PHD
CLINICAL DIRECTORS NETWORK, INC. (CDN)

Funded by AHRQ Grant: P50HS021667
CDN N²—PBRN: Building a Network of Safety Net PBRNs

CDN is a Practice-Based Research Network (PBRN) that works with Federally Qualified Health Centers (FQHCs) and other primary health care safety-net practices.

CDN has built a scalable research infrastructure to serve the needs of the clinicians who practice in the health care safety-net by building on existing infrastructure, creating new relationships, providing external practice facilitators (onsite, online), and dissemination channels.

CDN is an AHRQ designated Center of Excellence for Practice-based Research and Learning.

www.CDNetwork.org

Funded by AHRQ Grant U54HS022167
Ph: Jonathan M. Tobin, PhD (CDN)
Project Aims:

• To develop a scalable infrastructure for shared research conduct and dissemination within a consortium of well-established practice-based research networks (PBRNs) modeled after elements of five evidence-based practices and best practices (EBP-BPs)

• To facilitate and accelerate dissemination and implementation of clinical research findings through early and ongoing clinician engagement and buy-in by engaging clinicians with respect to:
  a) Relevance of the research questions to primary care patient populations (concept and meaningfulness)
  b) Design of the study to follow established workflow routines in clinical practice, analysis, feedback and utilization
  c) Engagement of practicing clinician-investigators as the best educators as well as the best advocates of new knowledge dissemination and implementation that they were responsible for producing
Accomplishments:

- Total of 93 N²-PBRN webcasts have been conducted and marketed to member clinicians across all N²-PBRNs (9/2012-3/2018)
- Webcasts reached a wide online audience and focused on system-based practices and clinical research methodology and evidence-based research findings

- 10,310 live audience participants
- 2,739 library participants
- Total of 13,049 participants
- 82 CME credits awarded to participants from 50 US states and territories, including Puerto Rico and the US Virgin Islands
N²-PBRN Webcast Summary

<table>
<thead>
<tr>
<th>Live Viewers</th>
<th>Enduring Viewers</th>
<th>Total Viewers</th>
<th>Credit(s)</th>
<th>% Rated Good to Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>10,998</td>
<td>2,860</td>
<td>13,858</td>
<td>89</td>
</tr>
<tr>
<td>Average</td>
<td>113</td>
<td>30</td>
<td>143</td>
<td>1.11</td>
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</table>

- Since project inception between September 2012 and June 2018, a total of 98 N²-PBRN webcasts have been conducted and marketed to member clinicians across all N²-PBRNs.
- In total, the webcasts have reached 10,998 live audience participants and 2,860 library participants, for a total of 13,858 participants.
- CDN awarded 89 CME credits to participants from 50 US states and territories, including Puerto Rico and the US Virgin Islands.
# Funded Projects and PBRN Partners:

<table>
<thead>
<tr>
<th>Funder</th>
<th>Project</th>
<th>PBRN Partners</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHRQ</td>
<td>Guide to Improving Patient Safety in Primary Care Settings by Engaging Patients and Families</td>
<td>ACTION III</td>
</tr>
<tr>
<td>AHRQ</td>
<td>Certificate Program in Practice-Based Research Methods (cPBRM)</td>
<td>All P3Os</td>
</tr>
<tr>
<td>CDC</td>
<td>Capacity Building Assistance for High Impact HIV Prevention</td>
<td>NYCRING</td>
</tr>
<tr>
<td>FDA</td>
<td>Extended-Release/Long Acting (ER/LA) Opioid Post-Marketing Requirement Studies: Observational Study 1A</td>
<td>NYCRING, OneFlorida</td>
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<tr>
<td>FDA</td>
<td>Extended Release (ER)/Long Acting (LA) Opioid Analgesics Risk Evaluation and Mitigation Strategy (PREMS): Patient Survey</td>
<td>NYCRING, OneFlorida, AllianceChicago</td>
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<tr>
<td>NCATS/NY Academy of Sciences</td>
<td>Obesity and Adolescent Pregnancy: Building a De-Identified Electronic Health Record Clinical Database to Examine the Biological and Social Determinants of Nutritional Status, Pregnancy and Birth Outcomes</td>
<td>NYCRING, NYC-CDRN</td>
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<tr>
<td>NCATS</td>
<td>Metabolic Outcomes After Sleeve Gastrectomy for Obesity and Diabetes</td>
<td>PCORI.net, NYC-CDRN</td>
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<td>NHLBI</td>
<td>Blood Pressure-Visit Intensification for Successful Improvement of Treatment (BP-VISIT)</td>
<td>DartNet</td>
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<td>PCORI</td>
<td>Enhancing Community Health Center PCOR Engagement (EnCoRE)</td>
<td>AAPCHO, ACCESS, AllianceChicago, CHARN, CHERS, FENWAY, NYCRING, OCHIN</td>
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<tr>
<td>PCORI</td>
<td>Collaborations for Health and Empowered Community-based Scientists (CHECS)</td>
<td>AllianceChicago</td>
</tr>
<tr>
<td>PCORI</td>
<td>Patient-Centered OER Study of Home-based Interventions to Prevent CA-MRSA Infection Recurrence</td>
<td>NYC-CDRN, SERCN</td>
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<tr>
<td>PCORI</td>
<td>New York City Clinical Data Research Network</td>
<td>NYCRING, NYC-CDRN</td>
</tr>
<tr>
<td>PCORI</td>
<td>Chicago Area Patient Centered Outcomes Research Network</td>
<td>AllianceChicago, CAPhiCORN</td>
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<tr>
<td>PCORI</td>
<td>Collaborative Care to Reduce Depression and Increase Cancer Screening among Low-Income Urban Women</td>
<td>NYCRING</td>
</tr>
</tbody>
</table>
Conclusions:

- N²-PBRN has adopted elements of five evidence-based practices and best practices (EBPBPs) that have been demonstrated to be effective at transforming clinical research into a more clinician-engaged, cost-effective, accelerated translational research model.

- The success of the scalable infrastructure for shared research conduct, dissemination and implementation has allowed the N²-PBRN to develop clinician-engaged research that has produced with significant and lasting clinical and public health impact.
Jonathan N. Tobin, PhD, FAHA, FACE

President/CEO
Clinical Directors Network, Inc. (CDN)
New York NY

Co-Director, Community Engaged Research
The Rockefeller University Center for Clinical and Translational Science
New York NY

Professor, Department of Epidemiology & Population Health
Albert Einstein College of Medicine/Montefiore Medical Center
Bronx NY

TEL (212) 382-0699 ext 234
JNTobin@CDNetwork.org
www.CDNetwork.org
Results: Setting the Stage

- Distinction and Diversity
  - Activities and Outputs
  - Initiatives
- Insights and Observations
- Component Replication: What Worked
- Sustainability
- Lessons Learned
### Results: Distinction and Diversity

<table>
<thead>
<tr>
<th>Multiple regions/countries</th>
<th>Methods development</th>
</tr>
</thead>
<tbody>
<tr>
<td>One region/state</td>
<td>Distance learning</td>
</tr>
<tr>
<td>National</td>
<td>Training/mentoring future PBRN researchers</td>
</tr>
<tr>
<td>Pediatric</td>
<td>Use of EHRs data in research</td>
</tr>
<tr>
<td>General population</td>
<td>Data management skills</td>
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<tr>
<td>Centralized coordination</td>
<td>Patient and family engagement</td>
</tr>
<tr>
<td>Governance structure and functions</td>
<td>Clinician engagement</td>
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</table>
# Results: Activities and Outputs

<table>
<thead>
<tr>
<th>P30 Center</th>
<th>Training</th>
<th>Best Practices</th>
<th>Mentor-ship</th>
<th>Fellows/ Jr. Inv.</th>
<th>Proposals Submitted</th>
<th>Funded Research **</th>
<th>Pubs Produced ***</th>
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<td>CoCoNet2</td>
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<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>C-PRL</td>
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<tr>
<td>Meta-LARC *</td>
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<td>Yes</td>
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<td>Yes</td>
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<td>MOSAIC</td>
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<td>Yes</td>
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<td>PRIME Net</td>
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*awarded the one targeted project from AHRQ  
**may reflect individual PBRN funding (particularly for the prime network) in additional to P30 funding  
***may reflect PBRN publications
Results: Initiatives

- PBRN Methods Certificate Program
- PBRN Fellowship Program
- PBRN Research Best Practices
- Practice Facilitation Resources
- MOC Part IV Peer Support Collaborative
- Boot Camp

- Patient and Family Engagement
- International Networking
- Stepped Wedge Design
- AHRQ ACTION III
- EvidenceNOW
- Patient-Centered Research
- Building a Learning Community
Results: Insights and Observations

- “I think the most important accomplishment is building and sustaining the relationships between the PBRNs....each has strengths and weaknesses but there is a great deal of respect.”

- “It’s been a really great opportunity to bring together PBRNs that were working in silos...to engage in collaborative learning, networking, sharing of strategies and providing a venue for continuous communication.”

- “Patient engagement was tough. We tried different models to link patients and clinicians...the effort definitely helped advance ideas.”
Results: Component Replication – What Worked

- “...building the infrastructure allowed multiple grants to move ahead and be funded.”
- “The P30 funding itself has kept people together, coming to meetings, and talking...allowing the group process to move forward.”
- “You need to use technology and data extraction and informatics approaches to really facilitate large-scale work.”
- “It’s okay to have monthly phone calls but you also have to have the ability to meet in person at least once a year....”
Results: Sustainability

- “Enthusiasm and personal zeal of directors will keep us together.”
- “...seemingly getting harder to get primary care to participate in PBRN research...because of all the mandates and pressure that is building.”
- “Now collaborating more with health systems instead of just with individual practices, as more practices become part of health systems.”
- “AHRQ was interested in more rapidly executing projects as well as building more of a learning capacity across multiple PBRNs...so larger scale projects could be conducted quickly using the most and appropriate methodologies for PBRNs.”
Results: Lessons Learned

- **Partnerships:** “...we can develop and expand meta-networks and expand learning and take the work of PBRNs to the national level.”

- **Collaborations:** “…have strengthened…as part of the [initiatives], and the work of Rebecca Roper building a community among P30 scientists and having us work together…”

- **Future:** “I don’t think it’s ever been more important than now to drive healthcare reform through the lens of pragmatic healthcare research.”
PBRN Research is a Team Sport
DISCUSS: How has the PBRN P30 experience enhanced your ….?

- **Branding/Name recognition**
- **Funding**
- **Workforce**
  1. Recruitment
  2. Retention
  3. Diversity
  4. Training
- **Partnerships**
  1. Across socio-ecological levels, e.g., community engagement
  2. Quality Improvement Organizations
  3. FQHCs
  4. Consortiums/Registries
DISCUSS: How has the PBRN P30 experience enhanced your ....?

- **RESEARCH METHODS**
- **Research Administration**
  1. Enhanced responsiveness
  2. Workflow
  3. Co-PIs
  4. Single IRB
  5. Clinical trials reporting
  6. Public data sets
- **Research Topics**
  1. Social determinants of health
  2. Health disparities
  3. PI-initiated
  4. Public health impact
  5. Stage of implementation research?
DISCUSS: How has the PBRN P30 experience enhanced your ....?

- **Research projects to identify sustainable, adaptable solutions**

- **Dissemination strategies**
  1. Training
  2. Technical support
  3. Professional accreditation
  4. Peer-review literature
  5. Grey literature
  6. Social Media
DISCUSS: Challenges and gaps to address next time

- Branding
- Funding
- Workforce
- Partnerships
- Research Methods
- Research Administration
- Research Topics
- Dissemination Strategies
- How does one demonstrate impact/value?
- Other priorities?
Conclusions

- PBRNs formed meta-networks that came together to:
  - Find new solutions and methods
  - Work with other P30s
  - Focus on activities such as capacity development, education and training, and developing and disseminating products and best practices
Conclusions

• Collaborations within and between P30s contributed to the launch of several successful initiatives, including:
  - PBRN Certificate Program, PBRN Best Practices, several training programs, an international conference on practice facilitation, and the PBRN Fellowship Program

• PBRNs are better equipped to:
  - Pursue a range of funding options (e.g., PCORI, AHRQ, NIH) individually and in combination
  - Advance primary care research using appropriate methods and designs
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  - Noreen Syed, MD, Data Manager, OUHSC
- P30 directors and project teams
- Participating PBRNs and primary care practices