

New PBRNs in Oklahoma: Pediatrics and Pharmacy.

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Madrid III ~ 10:25am - 11:10am

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Objectives

- Describe the following based on interviews with OKPRN clinicians and potential members of an Oklahoma pharmacist PBRN: 1) PBRN participation benefits and challenges, 2) areas for practice-based research collaboration, and 3) advice for establishing an Oklah

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OKPRN Participation and a New Pharmacy PBRN: Perceptions, Opportunities, and Challenges



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Overview

- Understand OKPRN clinicians' experiences and perceptions
 - PBRN participation benefits and challenges
 - Advice for establishing a pharmacist PBRN
 - Aspects of their practices that might benefit from collaborating with pharmacists who are part of a PBRN

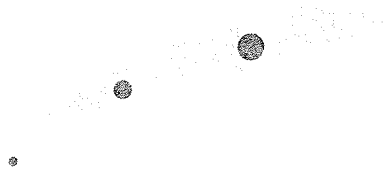
Background

- PBRNs
 - Devoted principally to the primary care of patients
 - Affiliated in their mission to investigate questions related to community-based practice and to improve the quality of primary care
 - » <http://www.ahrq.gov/research/pbrn/pbrnfact.htm>
 - Laboratories of primary care research
 - » Lindbloom EJ, Ewigman BG, Hickner JM. Med Care 2004;42(4 Suppl):11145-9.
 - Collaborative learning communities
 - » Mold JW, Petersen KA. Ann Fam Med. 2005;3(1 Suppl):S12-S20.

Brief History of Primary Care PBRNs

- 1970s - First regional family medicine PBRNs
- 1980s - Expanded across the continent: ASPN and PROS
- Establishment of regional primary care networks
- 1990s - Growth, maturation, and recognition of national and regional networks
- Diversity of funding sources
- 2000s - AHRQ funding and resources
- Pharmacist PBRNs

Growth in Number of PBRNs



*Niebauer L, Nutting PA. J Fam Pract. 1994;38:425-6.
†AHRQ PBRN Resource Center

History of Pharmacy PBRNs

- 2007 - American Association of Colleges of Pharmacy-AHRQ Conference on *Embracing the PBRN Model to Improve Medication Use*
- National Interdisciplinary Primary Care PBRN (NIPC-PBRN)
- 2008 - *Journal of the American Pharmacists Association (JAPhA)* special themed issue on PBRNs
- Minnesota Pharmacy PBRN (MPPBRN)

History of Pharmacy PBRNs

2009 - American College of Clinical Pharmacy PBRN (ACCP PBRN)

2010 - APhA Foundation White Paper, *Establishing Pharmacist PBRNs*
- Medication Safety Network of Indiana (Rx-SafeNet)

2011 - University of Tennessee Pharmacist PBRN (UT Pharm Net)

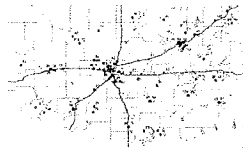
Rationale

- PBRN success requires a cadre of engaged clinicians participating in research projects
- Limited knowledge using qualitative methods to describe clinician participation in PBRNs
 - Bakken S, Lantigua RA, Busacca LV et al. *J Am Board Fam Med.* 2009;22:436-45.
 - Fagnan LJ, Handley MA, Rollins N, Mold J. *J Am Board Fam Med.* 2010;23:442-51
 - Yawn BP, Pace W, Dietrich A et al. *J Am Board Fam Med.* 2010;23:455-64.
- Less is known about collaboration between physicians and pharmacists in PBRNs

OKPRN

- Founded in 1994
- 235 primary care clinicians in 145 practices
- Mission
- Practice-based research projects and innovation

- Provider locations



<http://www.okprn.org/> Communication with Zsolt Nagyka'di, PhD

Oklahoma Pharmacist Research Network

- OPhRN
- Mission
- Partners
 - OU College of Pharmacy
 - Oklahoma Pharmacists Association (OPhA)
 - Pharmacy Providers of Oklahoma (PPOK)

Project Objectives

- Describe perceptions of PBRN participation benefits and challenges,
- Summarize advice for establishing an OK pharmacist PBRN, and
- List beneficial areas for practice-based research collaboration...
...expressed by a group of OKPRN physicians.

Methods

- Design
 - Qualitative approach
 - Semi-structured interviews
- Participants
 - Convenience sample of 15 OKPRN physicians
 - Responded to listserv invitation by Dr. Mold
 - Contact information forwarded to investigators
 - Payment for participation
 - Study was approved by OU Health Sciences Center IRB

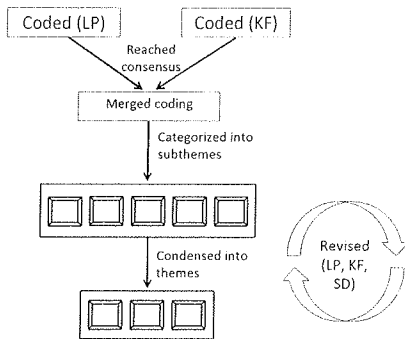
Methods

- Interviews
 - Informed consent obtained prior to interview
 - Telephone or face-to-face interview (LP)
 - Interview guide
 - Audio-taped, transcribed, verified
- Interview coding and analysis
 - NVivo8™
 - Coding and analysis process

Examples of Interview Questions

- Why did you decide to join OKPRN?
- What did you think were the biggest benefits to joining OKPRN?
- What challenges have you come across as a participant in OKPRN, and how have you dealt with them?
- What advice do you have for us in establishing a pharmacist network?
- What aspects of your practice might benefit from collaborating with pharmacists who are part of a network?

Data Coding and Analysis



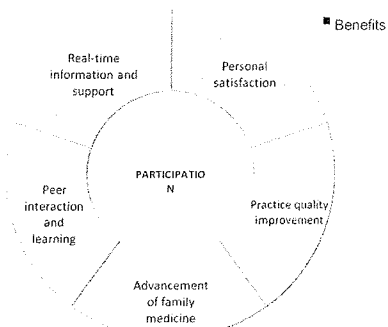
Results

- Participant demographics
- Participation in OKPRN
- Advice for a pharmacist PBRN
- Potential collaborative areas with a pharmacist network

Participant Demographics

Gender	Male = 13, Female = 2
Age	33 – 71 (median = 51)
Race/Ethnicity	White = 11, Asian = 2, Hispanic = 1, Native American = 1
Years in Practice	4 – 42 (median = 15)
Practice Type	Group (non-academic) = 7, Group (academic) = 4, Independent = 3, Indian Health Service = 1
Practice Location	Central = 11, NE = 3, SW = 1
Practice Setting	Suburban = 7, Urban = 5, Rural = 3
Years in OKPRN	2 – 16 (median = 11)

Participation in OKPRN



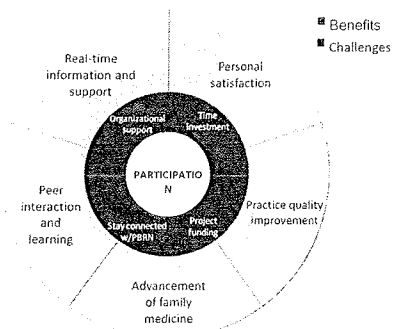
Participation Themes

- Personal satisfaction
 - Excited about research involvement
 - Invigorated by learning
 - Assured as a health care provider
- Improvement in practice quality
 - Keep skills up-to-date
 - Receive feedback on practice parameters
 - Utilize patient education and management resources
 - See patients experience benefits
- Advancement of family medicine
 - Participate in research
 - Generate power in numbers
 - Lend credence to specialty

Participation Themes

- Peer interaction and learning
 - Work with like-minded people
 - Learn from clinicians from different backgrounds
 - Alleviate rural isolation
 - Attend annual conferences
- Real-time information and support
 - Access user-friendly listserv for timely feedback and updates
 - Implement technology resources
 - Disseminate information

Participation in OKPRN



Challenges to Participation

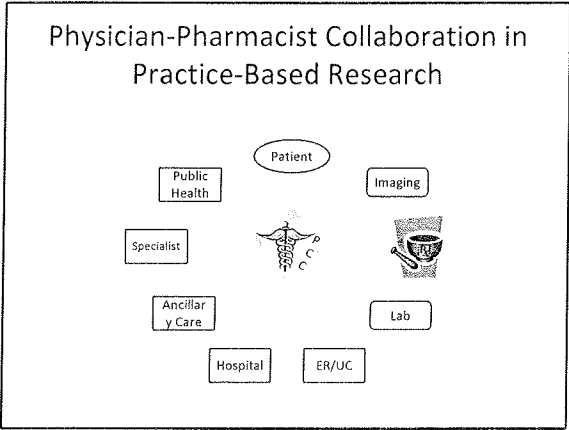
- Time investment
 - Participate in projects
 - Read and respond to listserv emails
- Project funding
 - Recognized by funding sources
 - Receive reimbursement for project involvement
- Stay connected with PBRN
 - Overcome rural isolation
 - Distance from administrative center (Oklahoma City)
- Organizational support
 - Employer group
 - IRB issues with workplace

Advice for a Pharmacist PBRN

- Identify a champion/leader
 - "...a champion who is known and respected by pharmacists throughout the state"
- Membership
 - Build core group
 - Generate interest
 - Achieve balance
- Communication
 - Platform for discussion
 - Dissemination
- Planning
 - Conduct a needs assessment
 - Develop projects that build support

Why Collaborate with Pharmacists?

- Accessible to patients
- See patients between primary care visits
- Medication management
- Access to medication use information
- Referral source
- Education, training, and credentialing
- Medical home





- ### Potential Collaboration with a Pharmacist PBRN
- Immunization coordination
 - Optimization of medication use
 - Lower costs
 - Improve adherence
 - Decrease errors
 - Reduce polypharmacy in elderly
 - Facilitate therapy management
 - Patient and caregiver education
 - Chronic disease states
 - Smoking cessation
 - Weight-based pediatric dosing
 - Physician education on medication updates

Acknowledgements

- Physicians and pharmacists who shared their experiences
- James Mold, MD, MPH
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- Paul Darden, MD
- Kaitlyn Fu, BA
- Shane Desselle, PhD
- Amy Williams
- OU College of Pharmacy Seed Grant Program

Questions



THANK YOU

Additional Areas Mentioned or
Elaborated by Pharmacists

- Medication reconciliation practices following hospital discharge
- Health information exchange
 - In health access networks
 - During provision of medication management services for Medicare patients with multiple chronic diseases
- Point-of-care testing

What primary care challenges do you think might be addressed by closer collaboration with pharmacists?

Summary and Conclusion

- Limitations
 - Participants self-selected
 - Participants from one PBRN
- Described common themes that aid in understanding PBRN participation by OKPRN physician members
 - Recruit engaged clinicians to OKPRN and pharmacists to OPhRN
- Identified common interests for practice-based research between physicians and pharmacists
 - Provide direction for collaborative projects to pursue in the future
