

Implementation of Technology-based Patient Engagement Strategies within Practice-Based Research Networks (Poster)

Beth Careyva M.D.

Lehigh Valley Health Network, beth_a.careyva@lvhn.org

Kyle Shaak BS

Lehigh Valley Health Network, Kyle.Shaak@lvhn.org

Geoffrey Mills MD, PhD

Melanie B. Johnson MPA

Lehigh Valley Health Network, Melanie_B.Johnson@lvhn.org

Samantha A. Goodrich

Lehigh Valley Health Network, Samantha_A.Goodrich@lvhn.org

See next page for additional authors

Follow this and additional works at: <https://scholarlyworks.lvhn.org/family-medicine>

 Part of the [Family Medicine Commons](#)

Published In/Presented At

Careyva, B., Shaak, K., Mills, G., Johnson, M. B., Goodrich, S. A., Stello, B., & Wallace, L. S. (2016). Implementation of Technology-based Patient Engagement Strategies within Practice-Based Research Networks (Poster). *LVHN Scholarly Works*. Retrieved from <https://scholarlyworks.lvhn.org/family-medicine/346>

This Poster is brought to you for free and open access by LVHN Scholarly Works. It has been accepted for inclusion in LVHN Scholarly Works by an authorized administrator. For more information, please contact LibraryServices@lvhn.org.

Authors

Beth Careyva M.D.; Kyle Shaak BS; Geoffrey Mills MD, PhD; Melanie B. Johnson MPA; Samantha A. Goodrich; Brian Stello MD; and Lorraine S. Wallace PhD

Implementation of Technology-based Patient Engagement Strategies within Practice-Based Research Networks

Beth Careyva MD¹, Kyle Shaak BS¹, Geoffrey Mills, MD², Melanie Johnson MPA¹, Samantha Goodrich PhD¹, Brian Stello MD¹, Lorraine S. Wallace PhD³

¹Lehigh Valley Health Network, Allentown, PA; ²Thomas Jefferson University, Philadelphia, PA; ³Ohio State University, Columbus, OH

BACKGROUND

- Technology for patient engagement (such as patient portals to transmit decision aids, texting to transmit blood glucose) is increasingly available; it is unclear how much is being incorporated into practice-based research
- Use of these strategies may promote patient-centered care and improve health-related outcomes
- PBRN directors have a unique vantage to provide insight into the use of technology within PBRNs.

OBJECTIVES:

- To explore availability and usage of technology-based patient engagement strategies in PBRNs
- To identify potential barriers and facilitators to implementation of patient-facing technologies in practice-based research

METHOD:

Data collected as part of omnibus Council of Academic Family Medicine Educational Research Alliance's (CERA) 2015 PBRN Director Survey

STUDY DESIGN:

An original 10-question survey was developed.

Questions addressed:

- Current use of technology-based patient engagement strategies
- Barriers to use of technology
- Factors impacting recruitment of participant practices

DATA COLLECTION AND ANALYSIS:

AHRQ's PBRN registry identified 102 PBRN directors. Six individuals were excluded from the sample. In total, 56% (54/96) of PBRN directors completed the CERA survey. Data was analyzed with SPSS+, Version 22.0. Analysis included descriptive statistics and chi square tests.

RESULTS

Figure 1: Percentage of PBRN's Studies that used Technology-Based Patient Engagement Strategies

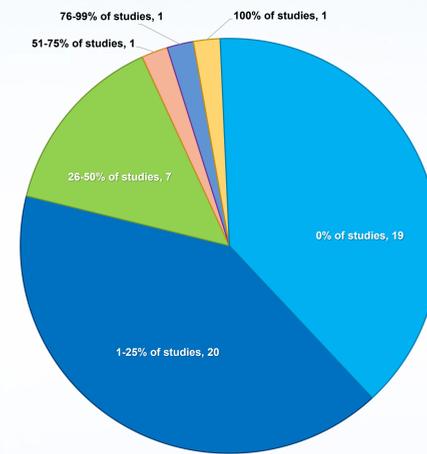


Figure 3: Factors that may Affect Physician Participation in Studies including Technology-Based Patient Engagement Strategies

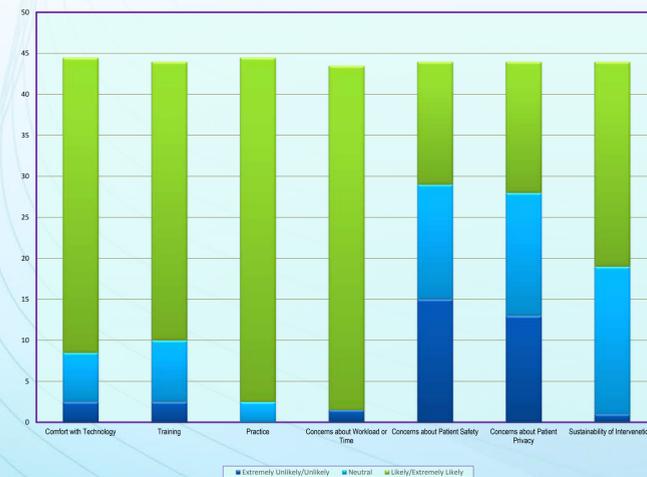
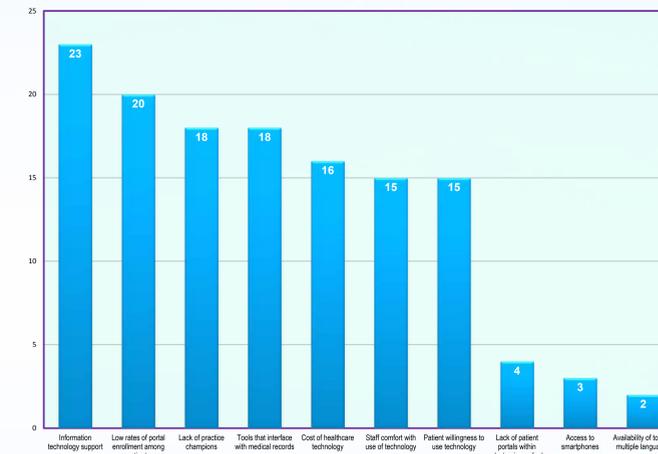
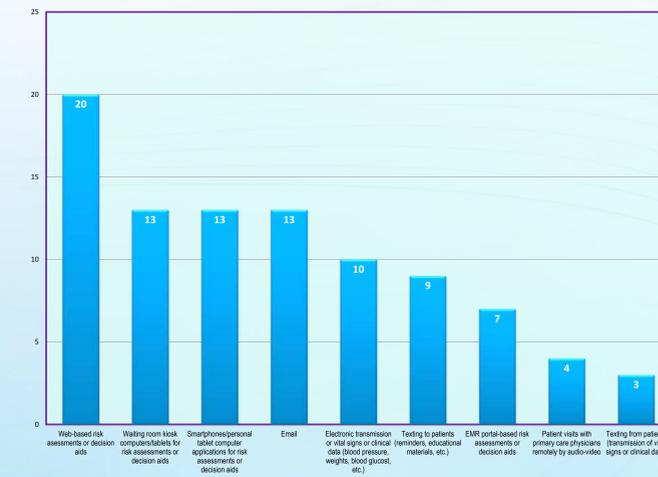


Figure 2: Barriers to Incorporating Technology-Based Patient Engagement Strategies into Practice*



* Respondents ranked top 3 barriers

Figure 4: PBRN Use of Technology-Based Patient Engagement Strategies in the Past 5 Years*



* Results based upon responses from 39/54 PBRN directors reporting use of technology-based patient engagement strategies. PBRN directors identified all strategies used in the past five years.

RESULTS:

- 76% of PBRNs surveyed were >5 years old; 80% had >50 clinician members; 77% had >20 practices.
- 61% of PBRNs had experience with conducting studies using technology-based patient engagement strategies.
- No differences were found in use of patient-facing technologies based on size or scope of PBRN.
- 47% of PBRNs had access to patient portals in >50% of their practices.
- No differences were found in use of patient-facing technologies in PBRNs based on portal access.

DISCUSSION:

- Current use of technology-based patient engagement strategies for research is minimal in most PBRNs.
- Technology-based patient engagement strategies are most often used for administering risk assessments and decision aids.
- Diverse barriers to incorporating technology-based patient engagement strategies into practice were reported, with lack of IT support being the most frequent concern.
- Opportunities exist for enhanced use of patient portals to engage patients.
- Perceived concerns regarding patient privacy and patient safety were reported to be least likely to impact recruitment of participant practices.

NEXT STEPS:

Further study is needed to investigate best practices for implementing technology-based patient engagement strategies in practice-based research. PBRNs have an opportunity to inform more widespread adaptation of these technologies within clinical practice.

© 2016 Lehigh Valley Health Network

610-402-CARE LVHN.org