WILKES UNIVERSITY NESBITT SCHOOL OF PHARMACY

Patient-reported factors associated with improved motivation and retention in a diabetes prevention program hosted within a community pharmacy

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BACKGROUND

Diabetes Prevention Program (DPP):



clinical trial

evaluating the

effectiveness of

lifestyle vs.

intervention on

reducing incidence

of Type 2 diabetes











2010 Congress authorized the CDC to establish the National DPP a public/private initiative to offer evidence-based, cost effective



2016 The Institute for Clinical and **Economic Review** (ICER) published a Final Evidence Review "DPP: Effectiveness and Value"



2018 CMS finalized a rule to expand coverage of the National DPP starting January 1,

- Multicenter clinical research study with interventions that involved:
 - Physical activity of at least 150 minutes per week
- Weight loss of 5 to 7 percent of their body weight
- 10-year follow-up study (Diabetes Prevention Outcomes Study) showed participants were one-third less likely to develop Type 2 diabetes

interventions to

communities to

prevent Type 2

diabetes

According to CDC, 84.1 million adults have prediabetes (33.9%)

Community pharmacy based DPP:

- Pennsylvania Pharmacists Association and PA Department of Health secured a grant to support twelve pharmacies in PA to implement DPP
- Limited literature regarding pharmacy-based weight-loss programs or diabetes prevention programs in the United states
- Limited data on patient motivation and retention within national diabetes prevention programs

OBJECTIVE

To describe the themes from participants in diabetes prevention programs that motivated them to join and why they did or did not attend at least 80% of meetings

Specific Aims

- To gather information from participants across Pennsylvania, who participated in a diabetes prevention program, about what motivated them to attend in the community pharmacy setting and determine what encourages participant retention
- 2. To determine from the Pennsylvania Pharmacists' Association, based on the pharmacist's report to the state organization, how many participants achieved the 7% weight loss goal and 80% attendance of the DPP program

METHODS

Design

• Qualitative, cross-sectional, semi-structured phone interviews

Inclusion Criteria

• Patients will be included in the study if they are >18 years old, English speaking, and attended at least 2 diabetes prevention program classes at a community pharmacy

Community Locations

• Community pharmacies participating in the DPP Pennsylvania Pharmacists Association and PA Department of Health grant (12) grocery or independent pharmacies)

Recruitment Strategy

- Pharmacies with established relationships with patients were mailed flyers to distribute to DPP participants
- Contained a link for participants to enter name and phone number to consent to a phone interview Participants that completed the interview were offered a \$25
- Interviews were audio recorded and continued until data saturation

Data Analysis

- Audio-recordings will be transcribed and analyzed for themes
- Patient demographic data will be analyzed using descriptive statistics
- Coding scheme was developed based on the three HIMSS domains to identify common themes
- Research team will meet to discuss content of coded interviews and collectively agree on themes

SEMI-STRUCTURED INTERVIEW QUESTIONS

- Interview questions were constructed from three domains of patient engagement adopted from the Healthcare Information and Management Systems Society (HIMSS)
- Colleagues experienced in qualitative research reviewed the interview questions and they were pilot tested with individuals similar to those that were studied

Table 1. Semi-Structured Interview Questions and HIMSS Patient-Engagement Domain

Amazon gift card

omain 1: Informing atients	 How did you learn about the diabetes prevention program at your community pharmacy? How did you receive information about this program? How did that work for you? What ultimately led to your decision to join the diabetes prevention program?

Table 1 (continued). Semi-Structured Interview Questions and HIMSS Patient-Engagement Domain

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Domain 2: Engaging Patients	 □ How would you describe your experiences thus far in the program? □ Did you achieve weight loss? □ If yes→What was it about the program that helped you achieve your weight loss? Probe about engagement (i.e. tell me about how the program leader engaged you). □ It no→ what are your thoughts of what could have been done differently to help you achieve your goal? □ What aspects of this program worked for you? □ What else have you tried to lose weight? □ Did you encounter any barriers to reaching your goals? How did you overcome them? What aspects of the program were valuable in keeping you engaged? (e.g.: cooking classes, nutrition label reading, fitness wearable, social time, nutrition tracker, fitness group, calorie king, etc) □ What thought did you have before the first day that this program has changed?
Domain 3: Empowering Patients	 ☐ How many sessions have you attended vs. how many have been offered? ☐ On a scale of 1 to 5, 1 being not at all motivated and 5 being highly motivated, can you describe your motivation level with this program? ☐ There are people who do not complete this program. Why do you think people do not complete the program? ☐ What are your thoughts on the effect of participating in the DPP as a group setting? ☐ Probe: Tell me about your experience with the community support aspect?

PRELIMINARY RESULTS

- From February 2019 to March 2019, twenty-four patients, representing nine different community pharmacies across Pennsylvania were interviewed
- There are an additional four interviews scheduled to occur during April 2019
- All interviews have been transcribed and reviewed by two different sources (Nvivo Transcription and a study team member)

REFERENCES

- Giberson S, Yoder S, Lee MP. Improving Patient and Health System Outcomes through Advanced Pharmacy Practice. A Report to the U.S. Surgeon General. Office of the Chief Pharmacist. U.S. Public Health Service. Dec 2011.

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