Implementation of Staff Diabetes Champion Academy to Improve Care of Hospitalized Patients



- More than 10% of the U.S. population (34 million) is living with diabetes¹
- 17 million emergency department visits each year are for diabetes-related events²
- Up to 25% of patients admitted to hospitals have diabetes
- Nurses are responsible for providing education on insulin administration, self-monitoring blood glucose and other diabetes basics
- Nurses need clinical acumen regarding when to deliver or hold insulin doses, and when to discuss with a provider if a medication order should be adjusted for patient safety
- However, nursing confidence and knowledge regarding many diabetes topics is inadequate or suboptimal • Robust education of nurses is critical to achieve and maintain excellent patient care, patient outcomes, and patient satisfaction

to become active participants caring for inpatients with diabetes.

into a business plan and submitted to the Chief Nursing Officer for approval.

Curriculum Design:

- 12-month virtual curriculum developed by experts in inpatient diabetes management • Prior to each session, champions completed a pre-quiz on the topic. The same post-quiz was offered upon completion of the session to assess knowledge gained (with deadline 2 weeks to complete)

<u>Topics included</u> :		<u>/</u>
1.	Introduction to Diabetes	V
2.	Basal Insulin	
3.	Nutritional & Correctional Insulin	
4.	Oral Agents & Non-insulin Injectables	V
5.	Hypoglycemia	V
6.	Hyperglycemia Emergencies (DKA/HHS)	V
7.	Enteral and Parenteral Feeding	
8.	Continuous Glucose Meters	V
9.	Insulin Pumps	V
10.	Complications of Diabetes	V
11.	Psychopathology of Diabetes (Distress/Burnout)	

12. Discharge Planning

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Problem

• People with diabetes have double the risk of hospital readmission within one month after discharge³

Objective

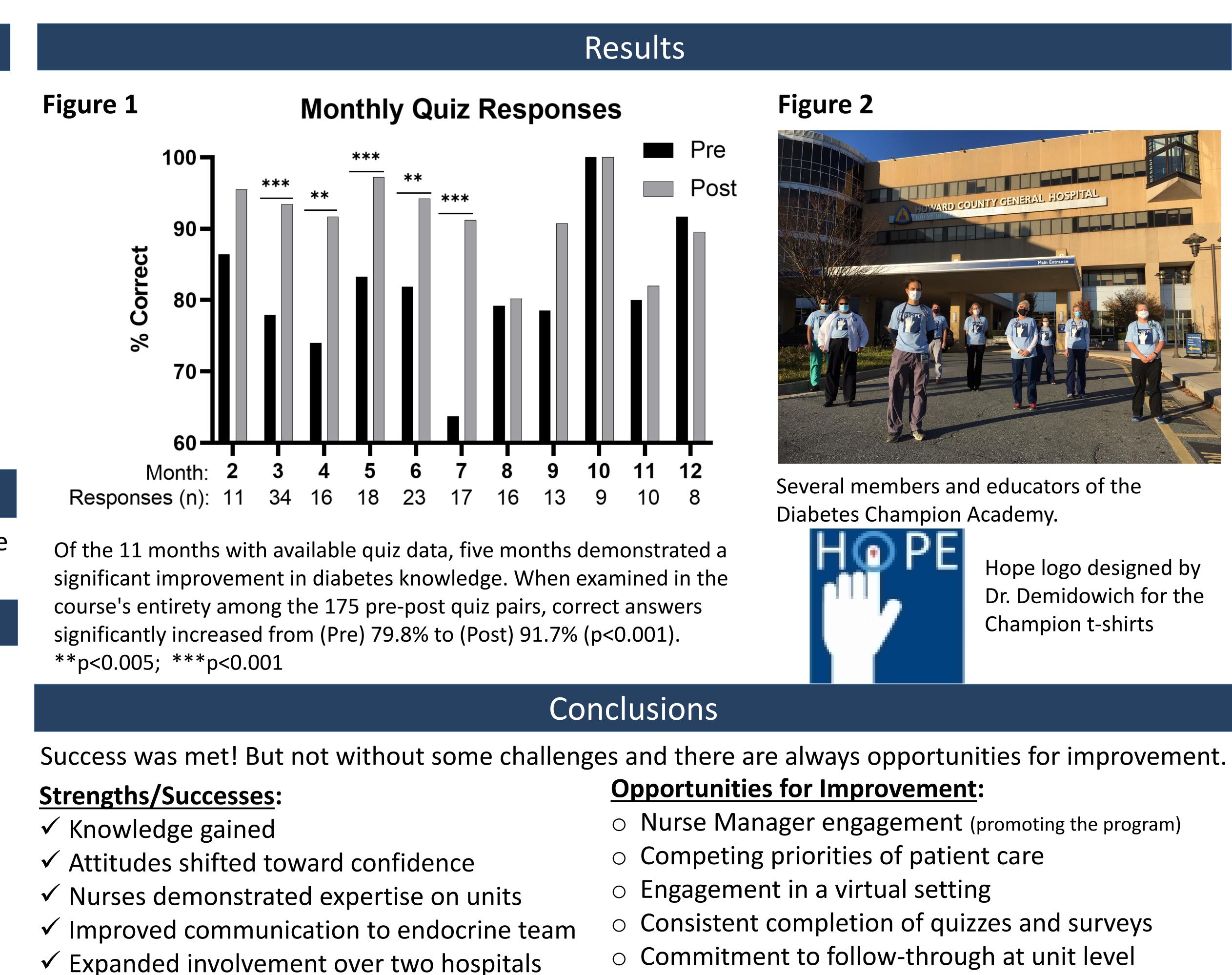
To design and implement a 'Diabetes Champion Academy' to empower nurses with knowledge and confidence

Methods

- Gap analysis and assessment of the current state was essential in developing programs. Data was summarized
- Pre & Post surveys: 1) Knowledge of diabetes & treatment 2) Attitudes about care of patient with diabetes • Surveys were built in a secure electronic database and responses were archived for analysis

Accomplishments of Academy Representatives:

- Posters to unit bulletin boards
- ✓ Huddle "just-in time" teaching moments
- Case Scenario sharing at staff meetings
- Unit communication boards electronic and paper
- **Recognized** as unit experts
- Celebration at the end of the 12-month Academy
- Policy development for DKA
- Champions given a t-shirt at completion of program
- CEUs were provided to all who passed the post-quiz



Pivotal Changes for next Academy: Updated platform for ease of access to materials; homework before each session – which became the tools for dissemination to units; reframed some of quiz questions; added topic (Nutrition) – most frequently requested on evaluations. The program promoted itself!

✓ Professional Development – CEUs attainted

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Figure 2



MEDICINE

Several members and educators of the Diabetes Champion Academy.



Hope logo designed by Dr. Demidowich for the Champion t-shirts

Opportunities for Improvement:

- Nurse Manager engagement (promoting the program)
- Competing priorities of patient care
- Engagement in a virtual setting
- Consistent completion of quizzes and surveys
- Commitment to follow-through at unit level
- Lack of tools to disseminate the information

References

^{1.} CDC Report: More than 100 million Americans have diabetes or prediabetes. New CDC report: More than 100 million Americans have diabetes or prediabetes | CDC Online Newsroom | CDC . Last accessed May 4, 2021.

^{2.} Coexisting Conditions and Complications | Diabetes | CDC. www.cdc.gov. Published August 7, 2020. Accessed 11 March 2023. https://www.cdc.gov/diabetes/data/statisticsreport/coexisting-conditions-complications.html.

^{3.} Drincic A, Pfeffer E, Luo J, Goldner WS. The effect of diabetes case management and Diabetes Resource Nurse program on readmissions of patients with diabetes mellitus. Journal of Clinical & Translational Endocrinology. 2017;8(8):29-34.