

LOMA LINDA UNIVERSITY

School of Nursing

BACKGROUND

- > There is a rise of type 2 diabetes in the pediatric population that is largely related to modifiable risk factors.
- > For children and adolescents, finding ways to modify weight and incorporate behavioral change interventions is key to helping this vulnerable population manage their obesity and type 2 diabetes.
- > Encouraging patients to create behavioral goals that focus on adherence to healthy meal planning, daily exercise, and taking medication as prescribed is critical for the management of diabetes.
- > The American Diabetes Association (ADA) "Standards of Medical Care in Diabetes" encourage person-centered collaborative care where agreed upon regimens and behavioral goals are facilitated.



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INTRODUCTION

- > The problem: A Pediatric Diabetes Center in San Bernardino County aims to meet the American Diabetes Association's (ADA) recommended best practice standards for Patients with type 2 diabetes.
- > The current state: Currently, behavior change goals have recently been implemented with only new-onset type 1 and 2 diabetes patients. This leaves a gap in education for current patients diagnosed with type 2 diabetes.
- > The desired state: To provide easy-to-understand instruction on Specific, Measurable, Attainable, and Time-based (SMART) goal setting to aid in behavioral change interventions for patients with type 2 diabetes, and improve health outcomes. A quality improvement project was initiated to aim to achieve this with use of an education video utilizing the American Diabetes Association guidelines

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Video-Led Behavioral Goal Setting for Pediatric Patients with Type 2 **Diabetes Mellitus**

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METHODS

- > A convenience sample of 38 patients from an outpatient pediatric diabetes center affiliated with a large academic center in San Bernardino County during January 2022 – May 2022.
 - Inclusion factors: Patients age 12 to 20 years with diabetes mellitus 2 for three months or longer who follow up at the outpatient pediatric diabetes center with a hemoglobin (Hb) A1c of 7.6% or higher.
 - Exclusion factors: Type 1 Diabetes, New-Onset Type 2 Diabetes after August 31, 2021, Age less than 12, HbA1c less than 7.6%
- > A Plan-Do-Study-Act model framework was utilized to guide the implementation process of this project. Recruited participants were asked to watch an approximately 8-minute education video on understanding type 2 diabetes and how to make a SMART goal. • A "passbook" was provided to each participant to help track goals. • The behavioral goal was documented in the "snapshot" section of the electronic health record for follow up and long-term monitoring.
- > Follow-up phone calls to monitor intervention implementation.
- > A Pre/Post Self-Efficacy for Diabetes survey, Post-Assessment of Care for Chronic Conditions and a general survey on the impact of the behavioral goal-setting video was conducted to better understand patients' perception of their diabetes management.
- > Data collection is currently on-going and involves obtaining post-survey results and reviewing medical records of participants to determine adherence and health outcomes.

RESULTS

- ➤ Total participants N=38 with a mean age of 17.21 years and mean HbA1c of 10.44 %.
- ➤ Initial findings suggest that 43% of participants who completed the Pre Self-Efficacy survey have a perceived higher self-efficacy and 18% of participants watched and found the education video content to be practical and useful.





otherwise.

NURSING IMPLICATIONS

- well and optimize their health.
- engagement in their diabetes care.
- enhance diabetes management.

STRENGTHS/AREAS FOR IMPROVEMENT

Strengths:

- on patient outcomes.

Challenges:

- being seen in-person.
- between January 2022-March 2022.

- on the first Monday of every month.
- achievement

Diabetes Care, 45(1), S1-264. 105–109. https://doi.org/10.2337/diaclin.25.3.105

Additional references available upon request

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> Nursing can provide support and diabetes education that empowers the patient to live

> Nursing has the skillset to build rapport and develop trust that may improve patient

> Nursing can utilize video education as a meaningful resource for patient learning to

> Doximity telehealth allowed for ease in dissemination of surveys and video education link thru text message option during the COVID-19 pandemic.

> Use of a control group helps to better understand the impact of the change project impact

Convenience sampling and small sample size due to poor compliance of patients not

> Difficult to reach patients at home without a scheduled in-person clinic appointment. > Reduced scheduling of clinic appointments for patients diagnosed with type 2 diabetes

NEXT STEPS

> Dissemination of project results to all key stakeholders at the Pediatric Diabetes Center. > Recommend the clinic maintain compliance with the designated Type 2 Diabetes clinic

Encourage patients with increased HbA1c over 8% to be seen more frequently than every 6-12 months along with monthly check-in to ensure successful SMART goal

> Understanding the perception of nurses on the impact of the COVID-19 pandemic may have had on healthcare professionals and the delivery of diabetes care.

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