

# Type One Diabetes:

## Educational resources for delegation



### THEORETICAL FRAMEWORK

The PARIHS framework for change is a theoretical model that addresses the complex dynamics of implementing evidence-based change. This model aligns well with this project because it involves more than just the practitioner. This model provides a conceptual map for the individual, team, and organization involved in the change process (6). Effective collaboration of interdisciplinary teams positively impacts blood glucose management, minimizing long-term health risks associated with T1D (1).

### CONCLUSIONS

Schools can serve as a resource for T1D students especially in rural areas. However, school nurse workloads make their daily participation unreasonable. School nurses can provide training to prepare staff to fill this role. Providing non-medical school staff with education can help them assist T1D students, which can lead to better long-term health outcomes.

### REFERENCES

- Centers for Disease Control and Prevention. What is Type 1 Diabetes? (2021, March 2)
- Maughan, E. D. (2018, April). School nurses: An investment in student achievement: Students enter school with a variety of mental and physical health needs, and school nurses are on the front line of addressing them. *Phi Delta Kappan*, 99(7), 8.
- Ortiz La Banca, R., Ribeiro, C. A., Santos Freitas, M., Aparecida de Oliveira Freitas, M., Castanheira Nascimento, L., de Oliveira Monteiro, O., & Issuzu Hiroka de Borba, R. (2019). Therapeutic play in the teaching of insulin therapy to children with diabetes: a qualitative case study. *Revista Eletronica de Enfermagem*, 21, 1-7.
- Abedini, S., Kamalzadeh, H., & Beigi-Broujeni, R. (2021). Nursing students' experience with effectiveness of PowerPoint-based teaching. *Development Strategies in Medical Education*, 8(1), 33-4
- Hood, K., Iturralde, E., Rausch, J., Weissbert-Benchell, J. (2018). Preventing diabetes distress in adolescents with type 1 diabetes: Results 1 year after participation in the steps program. *Diabetes Care*. 41:1623-1630. DOI: 10.2337/dc17-2556.
- Melnyk, B. M., & Fineout-Overholt, E. (2019). Evidence-based practice in nursing & healthcare: a guide to best practice. Wolters Kluwer.

### Figures

- Nurse teaching student. <https://www.wise-geek.com/what-does-a-school-nurse-do.htm>
- Type one diabetes image. <https://newcastlebeach.org/explore/type-1-diabetes-ribbon/>

### ABSTRACT

Education on the management of Type 1 Diabetes (T1D) is crucial to positive long-term health outcomes (1). Public schools can provide T1D children with access to health promotion through school nurses (2). School nurses have high workloads and cannot care for these patients on a daily basis (3). As a result, non-medical school staff are often responsible for providing daily assistance to T1D children. This project aims to provide comprehensive, evidence-based education that can be used to prepare non-medical school staff.

### PICOT QUESTION

How does education impact non-licensed school staff's ability to help T1D students manage their symptoms?

### LITERATURE REVIEW

- Newly diagnosed T1D need adequate education to manage their disease & promote health (1).
- Effective education includes use of play-based therapies (3) and PowerPoint presentations (4).
- Education addressing mental health and therapeutic communication is also important (5).
- Schools are a consistent location to manage health (3).

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### PROJECT METHODOLOGY

**The purpose of this MSN project is to utilize evidence-based practices to educate non-medical staff in preparation to care for children with T1D in schools to improve health. Project materials were developed to implement this program, including an educational PowerPoint, a knowledge quiz, and a quick reference sheet**

### Plan and Development

- Create team stakeholders.
- Approval from administration
- Education for non-medical school staff
- Quick Reference

### Evaluation

- Pre-education & Post Knowledge tests



Figure 2



Figure 1



Figure 2