Diabetes in School

Interior Health

Updated July 2021



Learning Objectives

- Discuss the basics of type I diabetes.
- Recognize the signs and symptoms of low blood sugar (hypoglycemia) and high blood sugar (hyperglycemia) and how to respond to this.
- Know who to contact immediately in case of an emergency.
- Know where to find more information

What is Diabetes?

Diabetes is a chronic health condition in which the body cannot use the glucose (sugar) found in food.

Type I (TID):

The pancreas does **NOT** produce insulin.

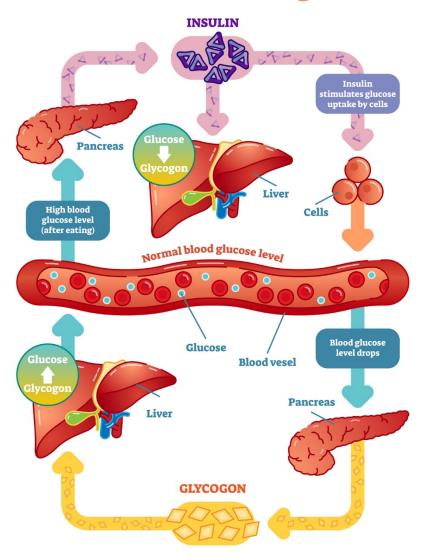
Type 2:

The pancreas does not produce ENOUGH insulin and/or the body RESISTS the action of insulin.

What is Insulin?

- > Hormone produced in the pancreas.
- Allows our cells to use glucose (sugar).
- Without it, our body can't create energy.

Insulin and Glucagon



How is insulin given at school?

Student, parent or trained staff administers the insulin with an insulin pen or a syringe or an insulin pump.





Needs of Students with Diabetes

- Unrestricted access to emergency snacks and bathrooms.
- To eat on time and have adequate time to finish meals.
- Access to diabetes equipment (e.g. blood glucose meter) and be permitted to check blood sugar levels and respond to the results anywhere at anytime.
- Be able to contact their parents as needed to manage their diabetes.

Hypoglycemia: low blood glucose

SYMPTOMS



Credit: Google images

Emergency Treatment of Hypoglycemia

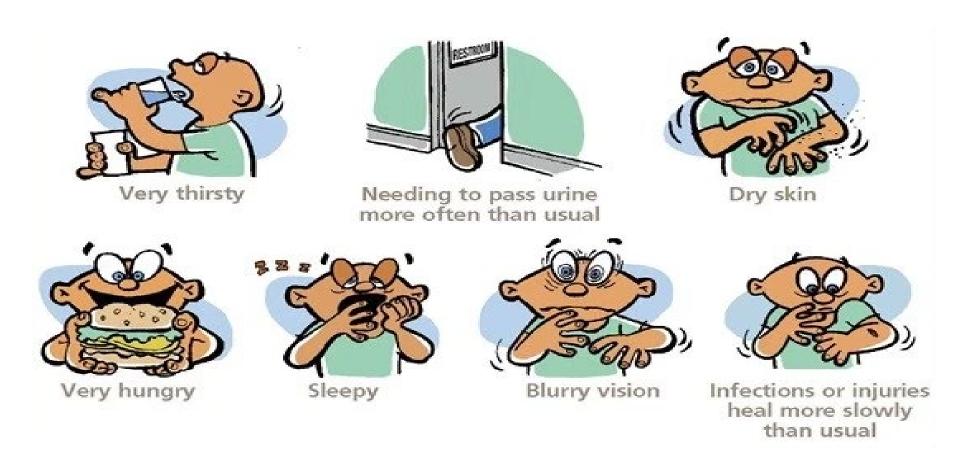
If a student has symptoms of low blood glucose, ALWAYS give a fast acting carbohydrate:

- ○3-4 (15 g) glucose tablets, or
- \circ 15 ml (1 tbsp.) sugar dissolved in $\frac{1}{2}$ cup water, or
- \circ 175 ml (3/4 c) juice or regular pop, or
- ○15 ml (1 tbsp.) of honey.

DO NOT give food or drink if the student is unconscious, having a seizure or is unable to swallow. Call 911 and give glucagon if delegated.

HYPOGLYCEMIA IS LIFE THREATENING IF LEFT UNTREATED

Hyperglycemia: high blood glucose



Credit: Google images

Role of School Staff

- Be familiar with student's emergency plan and symptoms of low blood glucose and be able to respond appropriately.
- Allow student to eat/drink and have access to the bathroom as requested.
- Ensure student eats snacks/lunch on time.
- Inform parents of changes in student's health or eating habits.
- Monitor student after treatment for low blood glucose.
- Give parent advance notice of changes in school routine where food and activity is involved (such as field trips, special events).

Key Points for School Staff



Source: Canadian Paediatric Society. Diabetes at School. Type I Diabetes: An

Overview: <u>www.diabetesatschool.ca/awareness/overview</u>

Role of the Family

- Provide information to the school.
- Provide copy of the treatment plan.
- Ensure child has a Medical Alert Bracelet/Necklace.
- Provide snacks, lunch, and emergency foods.
- Provide supplies and equipment.



Role of Nursing Support Coordinator

- Provide student specific training for staff.
- Develop Individual Care Plans for younger students or those cognitively unable to manage their own diabetes needs.
- Provide support to school staff, family and student.

Role of Public Health Nurse

- General diabetes teaching staff and student's peers (in consultation with family).
- Train selected school staff (2-3) in glucagon administration.
- Serve as consultant throughout the school year.

Diabetes Support Plan

	Ipport Plan & Medication tool for use by pare sed by Diabetes Clinic stap	cal Alert Information Personal Care do Nation	
Contact Card Number:			
Parent/Guardian 1: Name: Phone Numbers: Cell Phone Numbers: Cell Phone Numbers: Cell: Other/Emergency: Name:	SYMPTOMS	TREATMENT FOR STUDEN	ITS NEEDING ASSISTANCE sugar to a student):
	□ Shaky, sweaty □ Hungry □ Pale □ Dizzy □ Irritable □ Tired/sleepy □ Blurry vision □ Confused □ Poor coordination □ Difficulty speaking □ Headache □ Difficulty concentrating Other:	Location of fast acting sugar: 1. If student able to swallow, give one of the form of the	ollowing fast acting sugars: OR 15 grams glucose tablets 3/4 cup of juice or regular soft drink 1 tablespoon of honey 15 skittles 15 mL (1 tablespoon) or 3 packets of table sugar dissolved in water Other (ONLY if 15 grams are labelled on package): person utes. Retreat as above if symptoms do not mmol/L glucose 4 mmol/L or above

Resources

- B.C. Children's Hospital: Online module for educators: <u>Taking Care of Diabetes at School</u>
- Canadian Paediatric Society <u>Type I diabetes in school</u> information and training modules for school staff, level 1, 2 and 3 <u>here</u>
- ► Child Health BC
 https://www.childhealthbc.ca/sites/default/files/diabetes_care_in_the_school_setting_evidence-informed_key_components_care_elements_and_competencies_september_2013.pdf
- ▶ Diabetes and Students in BC <a href="https://www2.gov.bc.ca/gov/content/education-training/k-12/administration/program-management/safe-caring-and-orderly-schools/diabetes?keyword=diabetes&keyword=in&keyword=schools
- Diabetes Canada https://www.diabetes.ca/about-diabetes/kids,-teep/diabetes

Any Questions?