

For a full sized board please use the original PDF versions or these posters. See attached files or visit

https://www.diabetesatschool.ca/tools/tools-and-resources

Words To Know:

Type 1 diabetes: A medical condition where the pancreas no longer produces insulin, the hormone that regulates blood glucose. Without insulin, blood glucose levels build up in the blood, leading to increased thirst and urination, and decreased energy. Type 1 diabetes is an auto-immune disease, and it used to be called juvenile diabetes.

Type 2 diabetes: A medical condition where the body does not respond well to insulin, and the pancreas cannot produce enough insulin to compensate. Type 2 diabetes is more common in adults than in children and youth and is different from type 1 diabetes.

Glucose (sugar): Fuel that the body needs to produce energy. Glucose comes from carbohydrate-containing foods such as breads, cereals, fruit and milk. **Insulin**: A hormone, released by the pancreas, which converts glucose (sugar) into energy. Without insulin, glucose builds up in the blood instead of being used for energy. People with type 1 diabetes do not produce their own insulin, so must administer it by syringe, pen or pump.

Fast-acting sugar: A source of carbohydrate (sugar) that the body can quickly absorb, raising blood sugar levels. Examples include juice and candy. Fast-acting sugars are used to treat mild to moderate low blood sugar levels (hypoglycemia). A student with diabetes should always have a source of fast-acting sugar close by.



Glucagon Nasal Spray: This has just been approved in Canada, so we may be seeing more children with this.

Insulin pen: A device used to inject insulin.



Insulin pump: A device that administers insulin continuously through a small tube inserted under the skin. The pump is also used to give extra insulin with meals or to correct high blood sugar levels.



Test strip: A small disposable strip used to measure blood sugar (glucose) levels. The strip is inserted in a blood glucose meter, then a lancet is used to get a small drop of blood from a finger. Each test strip can be used only once.





Flash Glucose Monitoring: a sensor is inserted on their upper arm and a separate touchscreen reader device.When the reader device is swiped close to the sensor, the sensor transmits both an instantaneous glucose level and eight-hour trend graph to the reader.

Glucometer (or blood glucose meter): A medical device that is used to check blood sugar (glucose) level. A drop of blood is placed on a test strip, which is inserted into a hand-held meter. Students with diabetes are encouraged to keep their meter with them at all times.





Jay Cutler, quarterback for the Chicago Bears, first learned he had type 1 diabetes in May of 2008, when he was 25 years old. Though he doesn't know what it's like being a kid with diabetes, he's using his sports status to relay a very important to message to young people with type 1 diabetes:

"You can live with the disease and still live the way you want.'



Sara Groenewegen plays high level softball while managing her Type 1 diabetes, something she has dealt with since age nine. She is from White Rock, British Columbia. She is a member of the Team Canada Softball Team.



nickjonas 💝 28.7m followers







13 years ago today I was diagnosed with type 1 diabetes. The picture on the left is me a few weeks after my diagnosis. Barely 100 pounds after having lost so much weight from my blood sugar being so high before going to the doctor where I would find out I was diabetic. On the right is me now. Happy and healthy. Prioritizing my physical health, working out and eating healthy and keeping my blood sugar in check. I have full control of my day to day life with this disease, and I'm so grateful to my family and loved ones who have helped me every step of the way. Never let anything hold you back from living your best life. Thank you to all my fans for your kind words and support. Means more than you know. Love you all. #grateful #diabetes #livebeyond #fbf



Salma Hayek, Oscar-nominee had gestational diabetes, which happens during pregnancy, while expecting her daughter, Valentina. Hayek has a family history of diabetes. Experts say all women should get checked for gestational diabetes when they are 24-28 weeks pregnant. Those at risk for type 2 diabetes are checked at their first prenatal visit. Gestational diabetes usually goes away after delivery, but it could return with a later pregnancy. It can also make you more likely to get type 2 diabetes later on.



Tom Hanks is an actor, who was diagnosed with Type 2 Diabetes. "I went to the doctor and he said, 'You know those high blood sugar numbers you've been dealing with since you were 36? Well, you've graduated. You've got type 2 diabetes, young man.'" Hanks added that the condition is controllable.

Glucagon: What it is, how to and use it

Glucagon is a hormone that raises a person's blood sugar (glucose). Like insulin, glucagon is produced in the pancreas. In a person without type 1 diabetes, the pancreas releases glucagon to ensure blood sugar does not drop too low.

When a person has type 1 diabetes, this doesn't happen. People with type 1 diabetes must check their blood sugar regularly, try to prevent low blood sugar, and treat it as soon as it happens with a source of fast-acting sugar (like juice, candy, or a soft drink).

If a person's blood sugar drops so low that they are unable to treat it themselves, they are having a **severe low blood sugar (severe hypoglycemia)**. Other symptoms include:

- Being unresponsive or unconscious
- Having a seizure
- Being so uncooperative that you can't give juice or sugar by mouth



NOTE:

Severe low blood sugar is an emergency. You must act immediately. Do not leave the student alone.

What to do for severe low blood sugar

- 1. Place the student in recovery position.
- 2. Have someone call 911. Then call the student's parents.
- 3. Stay with the student until ambulance arrives. Do not put anything in their mouth, such as food or drink (choking hazard).
- 4. If there is a signed consent and **mutual agreement** to give glucagon (usually in the student's Individual Care Plan), give it now. Staff identified in the care plan to give glucagon will have been trained.

How to use glucagon

Dose

- Students **5 years old** and younger: 0.5 mg = 0.5 mL
- Students 6 years and older:
 - 1.0 mg = 1.0 mL



Glucagon kit, including saline-filled syringe and vial of powdered solution

Preparing and giving glucagon

- 1. Remove cap from vial (bottle) of powder
- 2. Remove needle protector from syringe and insert the needle all the way into the vial
- 3. Inject liquid from syringe into dry powder bottle
- 4. Roll the bottle gently to dissolve powder. The solution will be clear.
- 5. Draw the fluid (see above for dose) back into the syringe
- 6. Inject into outer mid-thigh (it is OK to inject it through clothing)



Recovery from severe low blood sugar

The student may take 5 to 20 minutes to wake up. Once the student is alert:

- Check blood sugar
- Give juice or fast-acting sugar
- Give a carbohydrate snack (such as crackers or a granola bar), if the student is able to eat.

A severe low blood sugar or the use of glucagon may cause nausea or vomiting. The student may not be able to eat or drink afterward. If this happens:

- Check blood sugar
- Seek medical help immediately (911 should be called even before giving glucacon. See above, **What to do**)