Guidelines for Managing Hyperglycemia

(High Blood Glucose)

Signs and Symptoms of Hyperglycemia (High Blood Glucose)

ONSET	 Gradual (hours to days) 	
USUAL CAUSES	 Illness, infection, surgery, injury Stress: emotional or physical Too little insulin 	 Increased food Exercise (in type 1) with blood glucose over 14 mmol/L
SIGNS AND SYMPTOMS	 Thirst Excessive urination Fatigue Abdominal pain, nausea, vomiting Blurred vision 	 Change in appetite Dry/itchy skin Slow healing cuts Hard to breathe/acetone breath
TREATMENT	 Drink 8 oz (or more) of carbohydrate-free liquid per hour Antibiotics for infection Reduce stress 	 Reduce excess intake of foods Increase diabetes medication on advice of care provider
Prevent By	 Consistency in adhering to meal plan, insulin/oral agent use and exercise Use stress reduction strategies 	 Monitor blood glucose more frequently Report rising blood glucose to physician

REMEMBER

Insulin should always be taken!

Extra insulin may be needed by the body when you have hyperglycemia.

Drink plenty of extra carbohydrate-free fluids.

Check blood glucose and urine ketones.

Before meals and/or every 2-4 hours around the clock.

Guidelines for Managing Diabetic Ketoacidosis

What is DKA?

Diabetic Ketoacidosis happens when you do not have enough insulin to help your body use glucose for energy. Your body starts burning fat for energy, which releases ketones in your blood. Ketones make your blood more acidic than normal. This can upset the chemical balance in your body and can quickly make you very sick.

What would cause DKA?

Diabetic Ketoacidosis can occur in people with Type I diabetes if you are not getting enough insulin or if your insulin isn't working well due to sickness, infection, pregnancy, stress and/or high blood glucose.

Check for Ketones:

- for any unexplained high blood glucose
- if your blood glucose is above 14 mmol/L
- if a fruity odor is detected in the breath
- if abdominal pain is present
- if nausea or vomiting occurs
- if you are breathing rapidly and short of breath

If a moderate or large amount of ketones register on the test strip, ketoacidosis is present and treatment is required immediately.

Blood glucose levels (mmol/L)	Ketone bodies in urine*	Symptoms**	Suggested actions
13 – 15	– or +	+	Measure your blood glucose level every 4 hours. Drink 250 ml of water every hour. Take 10% extra rapid insulin or use your sliding scale or Correction Factor
15 – 20	++ or +++	++ or +++	Measure your blood glucose level every 2-4 hours. Drink 250 ml of water every hour. Take 10-20% extra rapid insulin every 4 hours. Contact your doctor or go to the hospital if there is no improvement and/or if symptoms of diabetic acidosis appear.
> 20	– or +++ or ++++	++++	Go to the hospital.
++ = small = 1.5 mmol/L ++ = +++ = moderate = 4.0 mmol/L +++ =		++ = diari +++ = naus	essive thirst and urination rhea and nausea sea, vomiting and diarrhea sea, vomiting, diarrhea, with or without ketone bodies

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