

Building Awareness of the Role of Nutrition in Diabetes

Kathleen Gibson RD CDE
Community Nutrition Advisor
First Nation and Inuit Health Branch







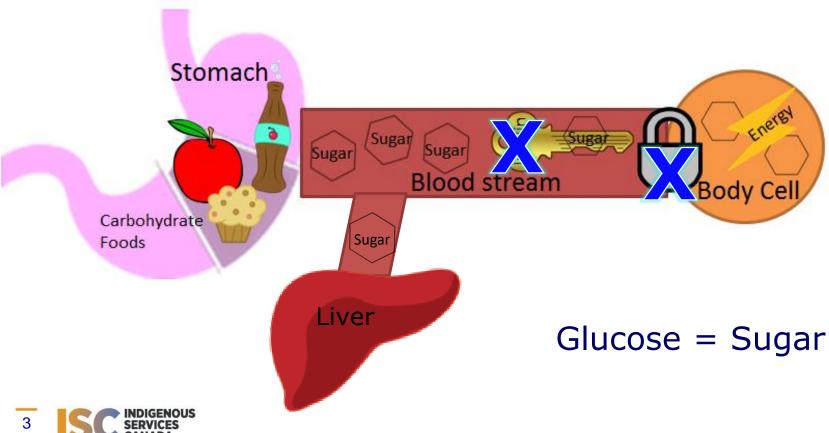
Learning Objectives:

Through this presentation you will learn:

- Understand what diabetes is and how it works
- Understand basic healthy eating principles
- Understand how different foods affect blood glucose
- Identify strategies to support people living with diabetes

What is Diabetes?

Diabetes is when you have too much sugar in your blood.



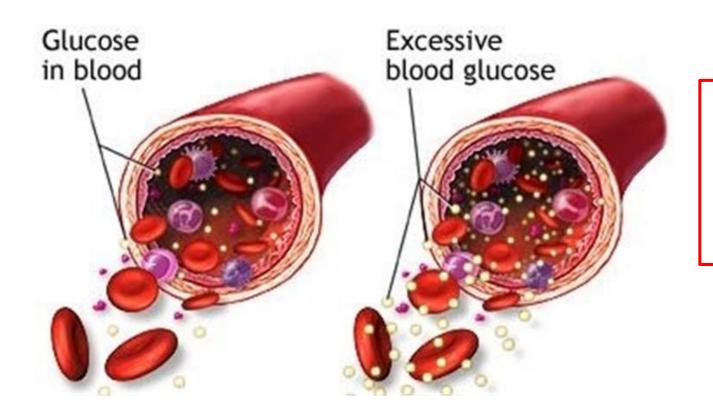
I've heard people talk about different types...

- ➤ <u>Prediabetes</u>: your blood sugars are higher than normal, but not as high as someone with diabetes. A person with prediabetes is at higher risk for diabetes.
- ➤ Type 1 diabetes: your pancreas makes no insulin. Often happens in childhood, but can happen at any age.
- ➤ Type 2 diabetes: your pancreas doesn't make enough insulin and/or your body doesn't use the insulin well. Used to only see in adults, but now found in children too. 90% of people living with diabetes have type 2.
- ➤ <u>Gestational diabetes</u>: type of diabetes that begins during pregnancy. Often goes away once the baby is born.



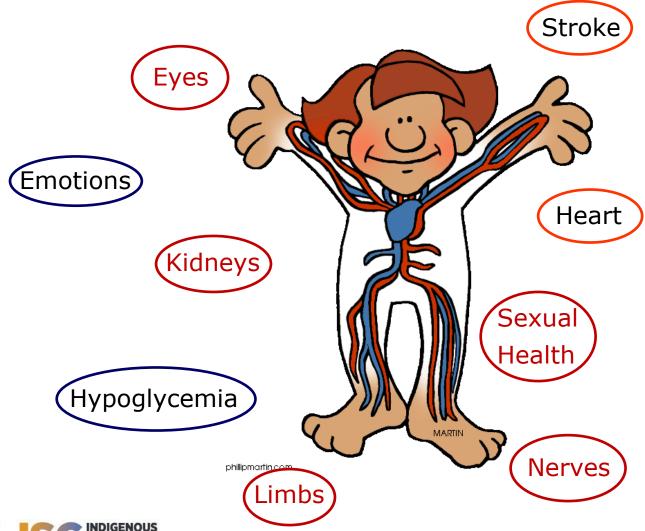
Glucose in blood vessels

• Glucose = sugar



Extra
glucose
makes our
blood thick,
more like
syrup than
water!

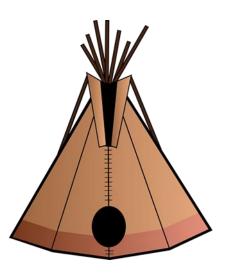
Overview of Complications



Diabetes Prevention and Management

- In diabetes, the steps you take to prevent diabetes are the same steps you take to manage diabetes.
- The basics of diabetes prevention and management are:
 - Nutrition,
 - Active Living and
 - Medications.
- Culture is at the core of prevention and management.

Medications



Nutrition

Active Living



What is Nutrition?

Nutrition is the study of food and how it works in your body.

But really Nutrition = Healthy Eating.

Healthy Eating is about:

- 1. What we eat to keep our bodies growing and in good repair **AND**
- 2. Having healthy food behaviours like being mindful, cooking, eating with people and enjoying your food.

Canada's food guide sums it up: Eat well. Live well.

This is important for everyone - not just people living with diabetes.

FOOD IS MEDICINE





Canada's Food Guide Snapshot





Is there a "diabetes diet"?



But the food we eat can play a big role in how well our blood sugars are controlled. Eating healthy foods and choosing healthy food behaviours are important for all Canadians.

Healthy eating can reduce your risk of many diseases and complications.

What's in our food - macronutrients

Carbohydrates

Have the most effect on blood sugar



Protein

Have very little effect on blood sugar



Fat

Have indirect effects on blood sugar



Carbohydrate in Foods

This handout can help you find out which foods are higher and lower in carbohydrate. Knowing this can help you manage your blood sugar.

Carbohydrate foods

These foods turn into sugar in your blood. You can have some carbohydrate foods every day. Each serving below is 1 choice. 1 choice = 15 grams of carbohydrate.



Foods with little or no carbohydrate

These foods have little effect on your blood sugar.



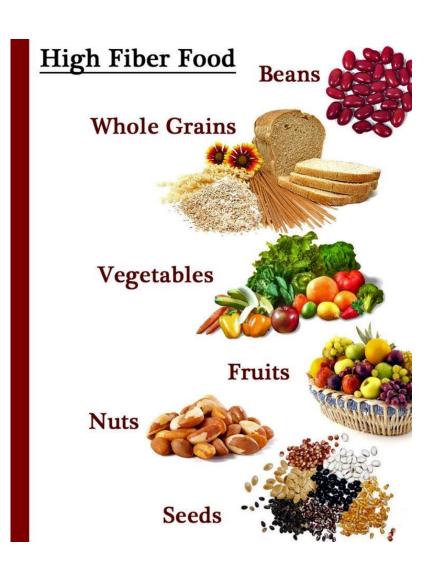
Notes:

Handout from AHS – Nutrition Education

Provided with handouts for this presentation.

A word about fibre

- Fibre is a special carbohydrate that does not turn into sugar!
- Fibre acts like a sponge to soak up extra sugar and fat in your blood.
- Fibre is found only in plant-based foods.
- Goal is 25g each day



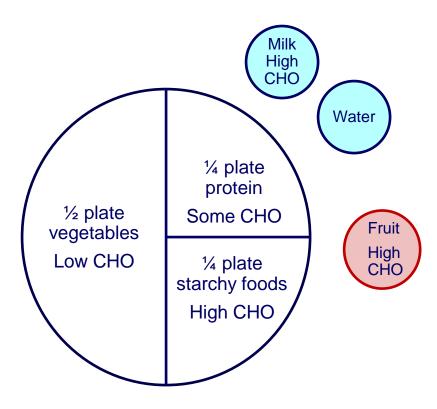
How Much to Eat: Plate model

Following a 'healthy plate' model at meals can help us eat the right amount of

carbohydrates throughout the day



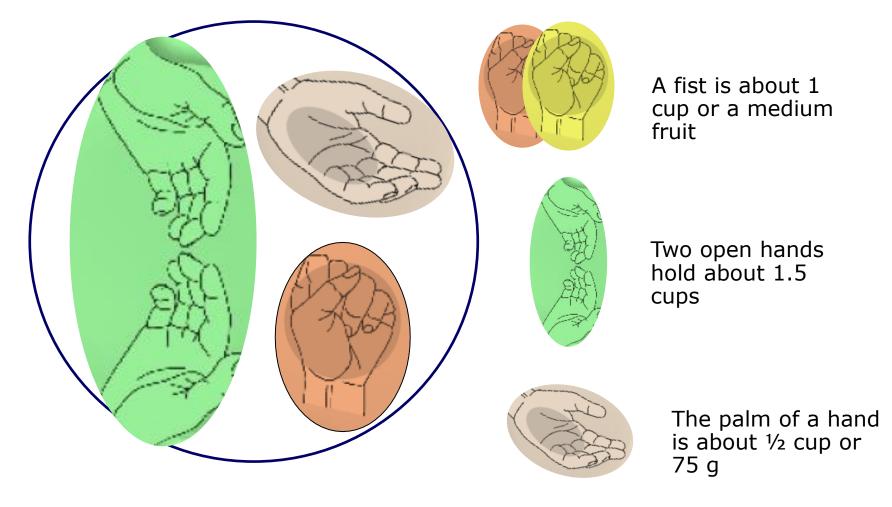
Canada's Food Guide



Diabetes Model



Another way to "eyeball" portions





What's in our food – Ultra Processed Foods

Food can be classified into four categories:

- Unprocessed or minimally processed food
- Processed culinary ingredients
- Processed foods
- Ultra processed foods

Ultra processed foods make up about 50% of the foods we eat. About 20% is from sweetened foods and beverages.





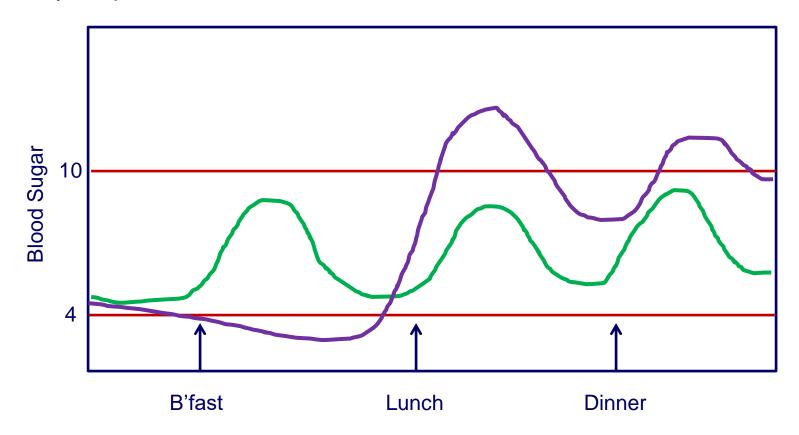




The more sugar, fat and salt we eat, the harder it is to control blood sugar, blood pressure and cholesterol.

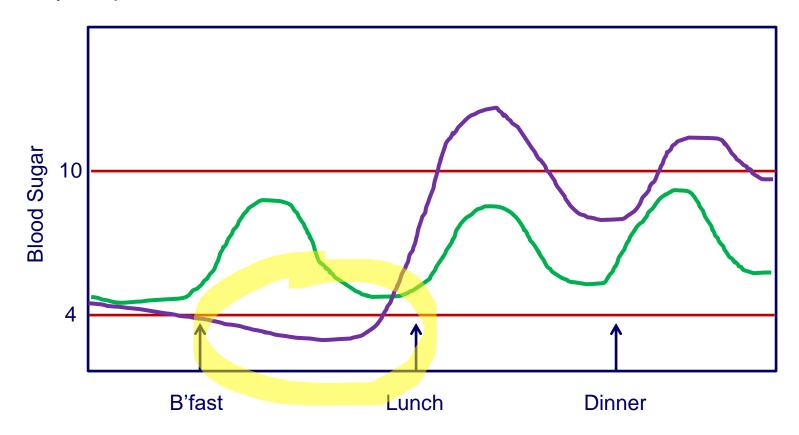
When to Eat - timing

Daily snapshot



When to Eat - timing

Daily snapshot



Nutrition Facts Tables

Fruity O's

Nutrition	Facts	
Per 1 cup (31 g)		
Calories 121	% Daily Value*	
Fat 1 g	1%	
Saturated 0 g + Trans 0 g	2%	
Carbohydrate 27 g		
Fibre 2 g	8%	
Sugars 13 g	13%	
Protein 1 g		
Cholesterol 0 mg		
Sodium 116 mg	5%	
Potassium 34 mg	1%	
Calcium 5 mg	0%	
Iron 5 mg	25%	
Vitamin C 0 mg	0%	
*5% or less is a little, 15% or more is a lot		

Oatmeal

Nutrition Facts		
Per 1 packet (30 g dry)		
Calories 116 % Daily Value*		
Fat 2 g 3%		
Saturated 0 g + Trans 0 g		
Carbohydrate 20 g		
Fibre 3 g 10%		
Sugars 0 g 0%		
Protein 4 g		
Cholesterol 0 mg		
Sodium 1 mg 0%		
Potassium 115 mg 2%		
Calcium 16 mg 1%		
Iron 1 mg 6%		
Vitamin C 0 mg 0%		
*5% or less is a little, 15% or more is a lot		

Looking for Fibre and Sugar

Fruity O's Oatmeal **Nutrition Facts Nutrition Facts** Per 1 packet (30 g dry) Per 1 cup (31 g) Calories 116 Calories 121 % Daily Value* % Daily Value* **Fat** 1 g 1% Fat 2 g 3% Saturated Saturated 0 g 0 g 2% 2% + Trans 0 g +Trans 0g Carbohydrate 27 g Carbohydrate 20 g 8% Fibre 3 g 10% Fibre 2 g Sugars 13 g 13% Sugars 0 g 0% **Protein** 1 g **Protein** 4 g Cholesterol Cholesterol 0 mg 0 mg 0% Sodium 116 mg 5% Sodium 1 mg Potassium 34 mg 1% Potassium 115 mg 2% Calcium 5 mg 0% Calcium 1% 16 mg Iron 5 mg 25% 6% Iron 1 mg Vitamin C 0 mg 0% Vitamin C 0% 0 mg *5% or less is a little, 15% or more is a lot *5% or less is a little, 15% or more is a lot

Handy Tip: 4 g of sugar is equal to 1 teaspoon

Fruity O's Oatmeal

Nutrition Facts		Nutrition Facts
Per 1 cup (31 g)		Per 1 packet (30 g dry)
Calories 121 % Daily Value*		Calories 116 % Daily Value*
Fat 1 g 1%		Fat 2 g 3%
Saturated 0 g		Saturated 0 g
+ Trans 0 g Carbohydrate 27 g	40 - 4	+ Trans 0 g Carbohydrate 20 g
Fibre 2 g 8%	$13g \div 4 = 3.25 \text{ tsp}$	Fibre 3 g 10%
Sugars 13 g 13%	5.25 tsp	Sugars 0 g 0%
Protein 1 g		Protein 4 g
Cholesterol 0 mg		Cholesterol 0 mg
Sodium 116 mg 5%		Sodium 1 mg 0%
Potassium 34 mg 1%		Potassium 115 mg 2%
Calcium 5 mg 0%		Calcium 16 mg 1%
Iron 5 mg 25%		Iron 1 mg 6%
Vitamin C 0 mg 0%		Vitamin C 0 mg 0%
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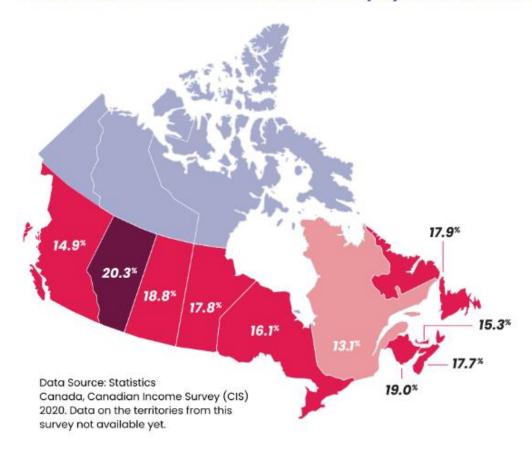


Prevalence of Household Food Insecurity by Province, 2021

Food insecurity

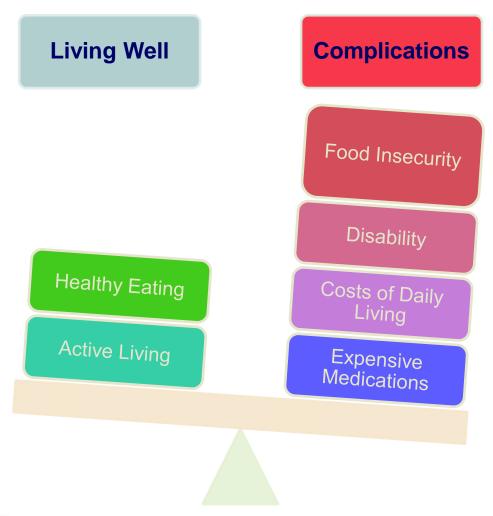
Food insecurity is the inadequate or insecure access to food due to financial constraints.

Food insecurity is a serious public health issue.





Diabetes and Food Insecurity



Free Food in Alberta

https://www.albertahealthservices.ca/nutrition/Page16163.aspx

- Directory of Free Food in Alberta, by health zone
- Call 211 to find information on eligibility and other information





What can I do?



Listen



Refer



Plan



Offer

Listen

Listen to your clients

Listen to resources

Listen with kindness



Refer

Refer to health team

Refer to resources

Refer to your social programs

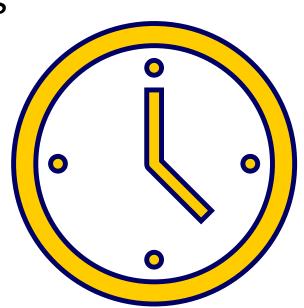


Plan

Plan activities for "hungry days"

Plan to work with partners

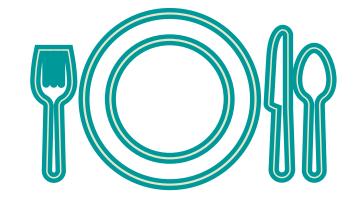
Plan to stay informed



Offer

Offer low-cost, healthy foods

Offer your knowledge



Offer resources

What do you say?

Joe comes to you and says he is having a hard time right now. He doesn't know how to make his money last to the end of the month. He says he is hungry, and his diabetes is not good.



Listen



Plan



Refer



Offer

Resources

Diabetes Canada www.diabetes.ca

Alberta Health Services Healthy Eating Starts Here page: https://www.albertahealthservices.ca/nutrition/Page12598.aspx

FNIHB Nutrition Advisory Teak: Contact Regional Nutritionist, Laura White: laura.white@canada.ca

Call 811 to speak to an AHS Registered Dietitian

Look in the handout section of this presentation posted on www.fntn.ca

What we talked about today

- Diabetes is when you have too much sugar in your blood.
- Most of the sugar in our blood comes from foods that contain carbohydrates.
- Choose foods closer to the way the Creator made them.
- Split plate method helps show what foods to eat and in what proportion.
- · Canned and frozen vegetables and fruit are healthy, low-cost choices.
- People living with diabetes + food insecurity have a much harder time living well.

Thank you!

Questions?

