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### **Diabetes Mellitus**

- Diabetes Mellitus (DM) is a disease in which your body either can't produce insulin or can't properly use the insulin it produces.
- Consequently, the body is unable to properly manage your blood sugar levels.



# **Types of Diabetes**

- **Type 1 diabetes:** An autoimmune disease which destroys the pancreatic cells that produce insulin. Its management is insulin-dependent.
- **Type 2 diabetes:** Development of insulin resistance or a deficiency in insulin production. Its management relies on the improvement of healthy style practices as well as medication (insulin is not always needed).
- **Prediabetes:** A condition where blood sugar levels are higher than normal, but are not yet high enough to be diagnosed as type 2 diabetes. It has the potential to be reversed through the improvement of nutrition and lifestyle.
- **Gestational Diabetes:** Form of diabetes that develops during pregnancy, it may be temporary or permanent.

#### Stage-Targeted Nutrition and Other Healthy Behaviour Intervention Strategies for Type 2 Diabetes

#### Prediabetes

- Weight loss or maintenance\*
- · Portion control
- Guidance to include low-GI CHO and reduce refined CHO
- Physical activity

### Early type 2 diabetes

- Weight loss or maintenance\*
- · Portion control
- Low-GI CHO
- High fibre
- CHO distribution
- Dietary pattern of choice†
- · Physical activity

#### Type 2 diabetes not on insulin

- Weight loss or maintenance\*
- · Portion control
- · CHO distribution
- · Low-GI CHO
- · High fibre
- Dietary pattern of choice†
- · Physical activity

### Type 2 diabetes on basal insulin only

- · Portion control
- Weight loss or maintenance\*
- CHO consistency
- · Low-GI CHO
- · High fibre
- Dietary pattern of choice†
- · Physical activity

### Type 2 diabetes on basal-bolus therapy

- · Portion control
- Weight loss or maintenance\*
- CHO consistency initially then learn CHO counting
- · Low-GI CHO
- · High fibre
- Dietary pattern of choice†
- · Physical activity

†Dietary patterns include Mediterranean, vegetarian, DASH, Portfolio, and Nordic dietary patterns, as well as diets emphasizing specific foods (i.e., dietary pulses, fruit and vegetables, nuts, whole grains and dairy products) which have evidence of benefit for people with diabetes.

(Sievenpiper et al., 2018)

<sup>\*</sup>As appropriate.

### Risk Factors of Type II Diabetes

There are various causes of type 2 diabetes, out of which genetic and environmental factors are the most important factors.

Environmental factors such as being overweight, obesity, physical inactivity contribute to type 2 diabetes as they are associated with insulin resistance.

Genetically T2DM consists of monogenic and polygenic forms. These genes increase the risk of developing diabetes mellitus in an individual.

> Diabetes .co.in

### Weight

Being overweight or obese (BMI > 25 kg/m2) is a major risk factor for type 2 diabetes.



### Family history

Chances of developing type 2 diabetes is 5-10 times higher if your parents or siblings (first – degree relatives) had diabetes.



### Gestational diabetes mellitus

If you have a history of gestational diabetes in pregnancy, your risk of developing type 2 diabetes is high.



### High blood pressure

People with BP ≥ 140/90 mmHg or/ on treatment for High blood pressure.



### Physical inactivity

The lesser active you are, the higher is the risk of diabetes.



### Race / Ethnicity

Certain races are at high risk of developing diabetes.

The risk is high if you are an African American, Latino, Native American, Asian American, Pacific Islander.



#### **Other Factors**

Various other factors include Low HDL Cholesterol and high triglyceride level, Polycystic ovary syndrome, Prediabetes, Age and Gender



(Anitha, 2020)

# ANATOMY / PHYSIOLOGY

What is blood sugar?

Your body breaks down food into sugar-sugar travels through the blood to cells-your body needs this energy to function properly

Some organs, including the brain, need sugar more than others

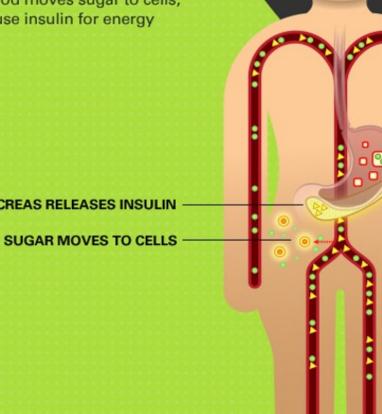
**BODY BREAKS FOOD DOWN INTO SUGAR** SUGAR TRAVELS THROUGH THE BLOOD

### What is insulin?

When you eat, your pancreas releases insulin on demand to keep your blood sugar in normal range

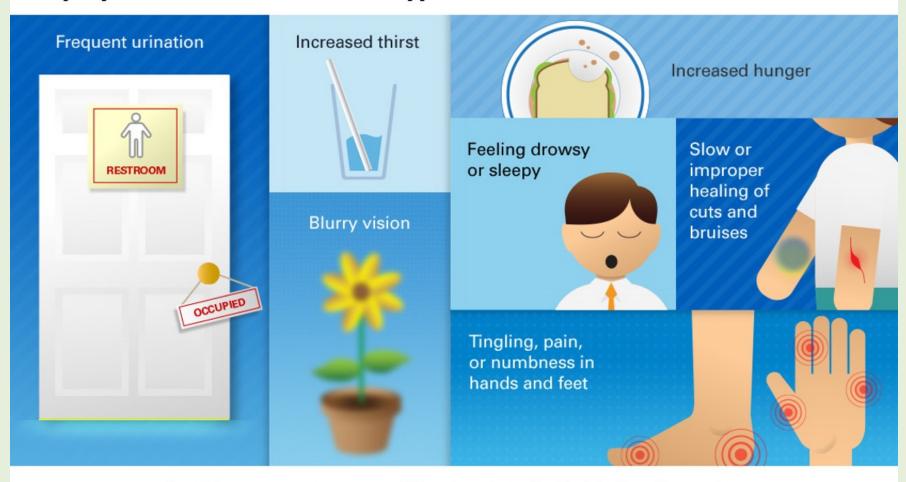
The blood moves sugar to cells, which use insulin for energy

PANCREAS RELEASES INSULIN



# **Signs and Symptoms**

### Symptoms of uncontrolled Type 2 Diabetes



Sometimes, symptoms are mild and go unnoticed, delaying diagnosis

# Risks if Not/Poorly Managed

- Cardiovascular diseases and hypertension
- Neuropathy (damage to the nerves located outside of the brain and spinal cord)
- Kidney diseases
- Diabetic retinopathy (eye disease)
- Mental health issues
- Celiac disease (immune reaction to eating gluten)
- Delayed healing, increased risk of infections (can lead to amputation of limbs)
- Increased risk of injuries

# How often should I get screened?

- Every 3 years if you are ≥ 40 years old or if you are considered at high risk (see calculator)
- If you are considered at very high risk, get screened every 6 to 12 months

- Are you at risk for diabetes?
- <a href="https://www.healthycanadians.gc.ca/en/canrisk">https://www.healthycanadians.gc.ca/en/canrisk</a>

# **Healthy Habits to Control Glycemia**

- Consult a registered dietitian to help you develop a personalized plan
- Prepare homemade meals with fresh unprocessed ingredients
- Plan meals ahead and eat at regular interval
- **Weight loss** by 5 to 10% can contribute to the normalization of your blood sugar (may not be recommended for older adults at the end of life, who are >70 and frail)
- Incorporate dietary patterns that are **sustainable long-term** and that best align with your goals and values to promote adherence
- Increase physical activity

# Healthy Foods to control glycemia

- Increase **nuts** and **healthy fats** consumption
- Increase quantity of **viscous soluble fibre** (oats, barley, psyllium) as it slows gastric emptying and the absorption of glucose
- Replace high glycemic index foods by **low glycemic index** (see next slide)
- Combine with proteins when eating higher glycemic index to slow blood sugar peak
- Higher consumption of **fruits and vegetables** reduce the risk of cardiovascular disease and mortality
- Limit alcohol intake (women: ≤2/day or ≤10/week and men: ≤3/day or ≤15/week)
  - ! Can cause hypoglycemia in the next 24h if also using insulin)!

# Glycemic index

To consult the categories of The Glycemic Food Guide:

https://guidelines.diabetes.ca/docs/patientresources/glycemic-index-food-guide.pdf







Green = Go

Low GI (55 or less) Choose Most Often

### Yellow = Caution

Medium GI (56 to 69) Choose Less Often

### Red = Stop and think

High GI (70 or more) Choose Least Often

Foods in the high GI category can be swapped with foods in the medium and/or low GI category to lower GI.

### Resources for diabetes

- Educational programs on diabetes offered upon referral from a physician at
  - CLSC de Benny Farm
  - CLSC de Côtes-des-Neiges
  - CLSC de Parc-Extension
  - Montreal Heart Institute Diabetes Clinic

- Websites to get more information
  - <a href="https://www.diabete.qc.ca/en/understand-diabetes/resources/">https://www.diabete.qc.ca/en/understand-diabetes/resources/</a>
  - https://www.diabetes.ca/
  - <a href="https://www.lmc.ca/diabetes-education-program/diabetes-resources/">https://www.lmc.ca/diabetes-education-program/diabetes-resources/</a>

# **Hypertension**

- Higher than normal blood pressure readings. -> (SYS)/(DIA)
  - Units: mmHg (millimeters of mercury)

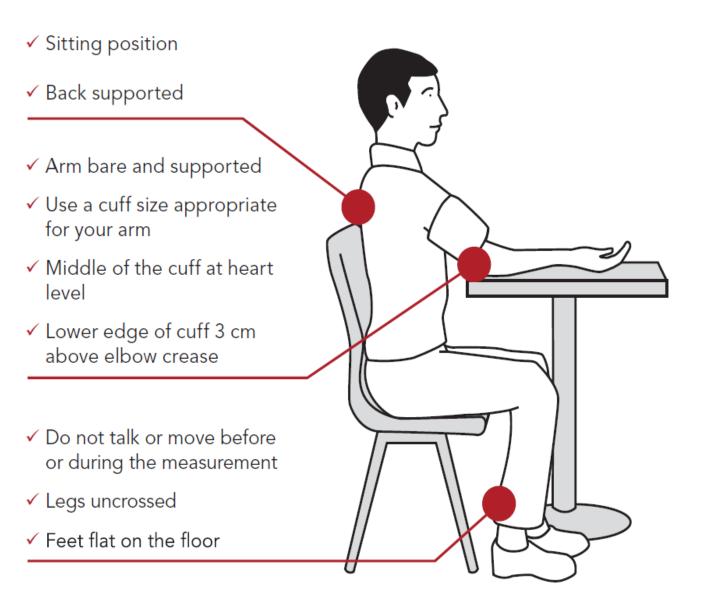
Patient population	BP threshold for initiation of antihypertensive therapy		BP treatment target	
** - (d) ***	SBP mmHg DBP mmHg		SBP mmHg	DBP mmHg
Hypertension Canada High-Risk Patient*	≥ 130	N/A	< 120	N/A
Diabetes mellitus**	≥ 130	≥ 80	< 130	< 80
Moderate-to-high Risk (TOD or CV risk factors)**	≥ 140	≥ 90	< 140	< 90
Low Risk (No TOD or CV risk factors)**	≥ 160	≥ 100	< 140	< 90

<sup>\*</sup> BP treatment threshold and target based on AOBP measurements

<sup>\*\*</sup>BP treatment thresholds and targets based on OBPM.

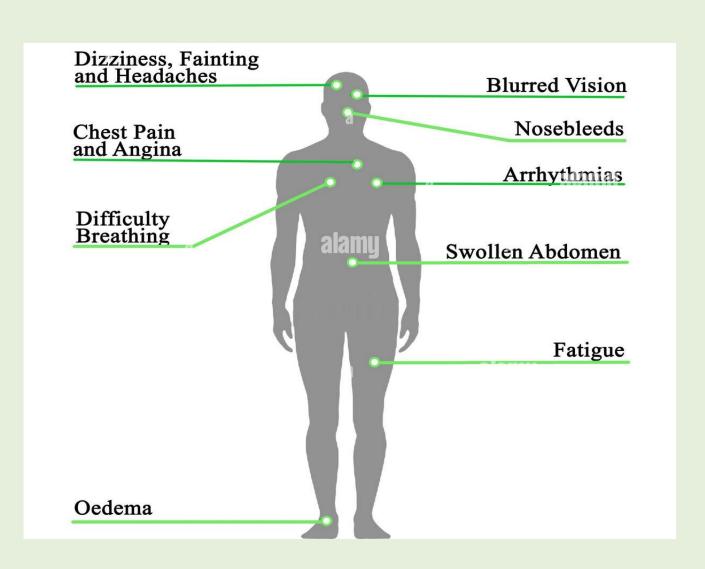
### **How to Measure Blood Pressure**

Figure 2: Standardized Technique for Hypertension Measurement (Image reproduced from Hypertension Canada Guideline<sup>6</sup>)



# **Signs and Symptoms**

- No significant symptoms
- When to seek medical attention:
  - Chest pain
  - Difficulty of breathing
  - Severe headache
  - Visual disturbances
  - Balance issues
  - Weakness or numbness
  - Nausea or vomiting
  - Severe abdominal pain
  - Hematuria
  - Confusion

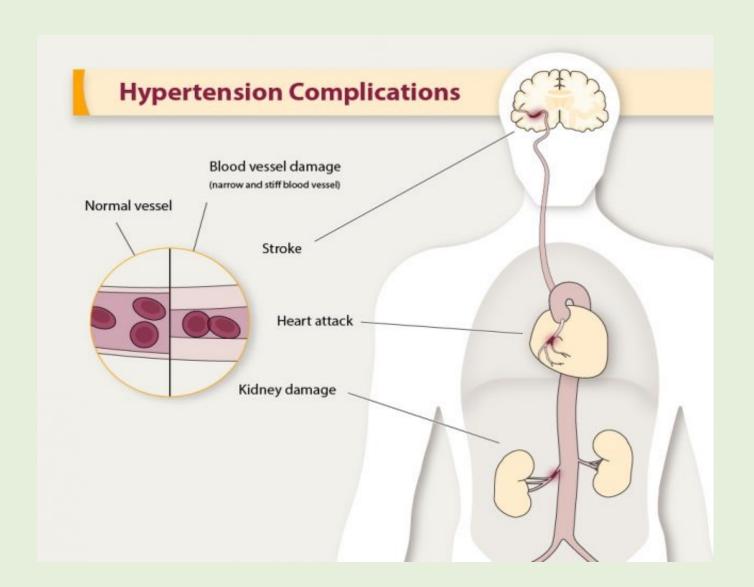


### **Risk Factors**

- Age
- Family history and genetics
- Lifestyle Habits
  - Too much sodium and not enough potassium
  - Excessive alcohol or caffeine.
  - Lack of physical activity.
  - Smoking or using illegal drugs such as cocaine, "bath salts," and methamphetamine.
  - Lack of good-quality sleep.
  - -Medication: Antidepressants, decongestants (medicines to relieve a stuffy nose), hormonal birth control pills, and non-steroidal anti-inflammatory drugs (NSAIDs) such as aspirin or ibuprofen
  - -Other medical conditions (chronic kidney disease, metabolic syndrome)
  - -Race or Ethnicity: Hispanic, African American
  - -Sex: In older adults, women are higher chance to develop high blood pressure then men

# Risk if Not/Poorly Managed

- Risk of fall
- Aneurysm
- Stroke
- Chronic kidney disease
- Eye damage
- Heart attack
- Heart failure
- Peripheral artery disease or carotid artery disease
- Vascular dementia



# Tips to control tension: Limit Sodium



Monitor salt intake (should take 1500-2300 mg sodium per day)



Food with more than 300mg sodium per serving may not fit into your daily diet plan. Thus, you can find out how much sodium is in a food by reading the food label.



Do not salt food at the table, add very little when cooking



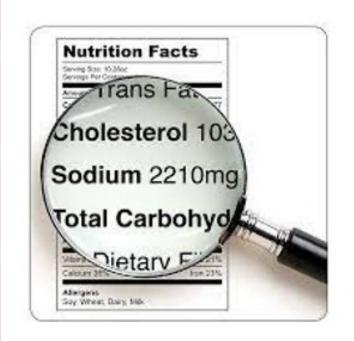
A single teaspoon of salt has 2300 mg of sodium



Choose what you consume carefully when you eat away at home.



Choose low salt or no salt options in restaurants.



# **More Tips to Limit Sodium**

Avoid process foods, eat more fresh foods (Fresh fruits, vegetables, frozen vegetables and fruits with no added juices or sauces)

Fresh meats are lower in sodium then processed meat (bacon, sausage, hotdogs)

"Very low-sodium" products= <35milligrams of salt per serving

"Low sodium" products= <140mg of salt per serving

Beware of "Unsalted" or "No Added Salt" products. Check your labels!

Add flavours via spices, lemon juice, lime juice, herbs, sodium-free

## Tips to control tension: Choose Healthy Fats

Type of Fat	Foods With This Type of Fat	Heart Healthy?
Unsaturated fats	Soybean, canola, olive, or sunflower oil Liquid or soft tub margarines	Yes
Omega-3 fatty acids	Fatty coldwater fish, such as salmon, tuna, mackerel, and sardines Flaxseed oil and ground flaxseed	Yes
Saturated fats	Foods with fat from animals (such as fatty meats, whole milk, butter, cream, and other dairy foods made with whole milk) Palm, palm kernel, or coconut oil (tropical oils)	No
Trans fats	All foods made with hydrogenated oil (Read Nutrition Facts labels: hydrogenated oil may be found in fried foods, crackers, chips, and baked goods made with margarine or shortening.)	No

(Academy of Nutriton and Dietetics, n.d.)

Food Group	Foods Recommended		
Grains	Breads and cereals, especially those made with whole grains such as oats, barley, rye, or whole wheat Pasta, especially when made with whole grains Brown rice Low-fat, low-sodium crackers and pretzels		
Vegetables	Fresh, frozen, or canned vegetables without added fat or salt Highly colored vegetables, such as broccoli, greens, sweet potatoes, and tomatoes are especially good for you		
Fruits	Fresh, frozen, canned, or dried fruit		
Milk and Milk Products	Nonfat (skim), ½% fat or 1% fat milk Nonfat or low-fat yogurt Nonfat, low-sodium cottage cheese Fat-free and low-fat, low-sodium cheese		
Meat and Other Protein Foods	Fish (especially fatty fish, such as salmon, fresh tuna, or mackerel) Lean cuts of beef and pork (loin, leg, round, extra lean hamburger) Low-sodium cold cuts made with lean meat or soy protein Skinless poultry Venison and other wild game Unsalted nuts and nut butters Dried beans and peas Low-sodium meat alternatives made with soy or textured vegetable protein Egg whites or egg substitute		
Fats and Oils	Unsaturated oils (soybean, olive, canola, sunflower, safflower) Soft or liquid margarines and vegetable oil spreads Salad dressings (nonfat or made with unsaturated oil) Seeds Avocado		
Other	Herbs and spices to add flavor to replace salt Unsalted, low-fat snack foods, such as unsalted pretzels or plain popcorn Fat-free or low-fat sweets, such as maple syrup, jelly beans, hard candy, or sorbet		

(Academy of Nutriton and

Dietetics, n.d.)

# **Tips for Choosing Heart-Healthy Fats**

Instead of	Try:	
Whole milk, cheese, yogurt, and ice	1% or skim milk, low-fat cheese, non-fat yogurt,	
cream	and low-fat ice cream	
Fatty, marbled beef and pork	Lean beef, pork, or venison	
Poultry with skin	Poultry without skin	
Butter, stick margarine	Reduced-fat, whipped, or liquid spreads	
Coconut oil, palm oil	Liquid vegetable oils: corn, canola, olive, soybean and safflower oils	

Limit egg yolks to two to four per week and avoid organ meats like liver and gizzards to control cholesterol intake

## Eat less than 200milligrams cholesterol per day

Instead of	Try:
Butter, stick margarine, or solid	Reduced-fat, whipped, or liquid spreads
shortening	
Beef, pork, or poultry with skin	Fish and seafood
Chips, crackers, snack foods	Raw or unsalted nuts and seeds or nut butters Hummus with vegetables
	Avocado on toast
Coconut oil, palm oil	Liquid vegetable oils: corn, canola, olive, soybean and safflower oils

Food Group	Foods Not Recommended		
Grains	Baked goods made with hydrogenated fat or saturated fat Any grain foods that are high in sodium or added sugar		
Vegetables	Canned vegetables (unless they are low sodium or salt free) Pickles; vegetables packed in brine, such as sauerkraut or oliv Fried or breaded vegetables; vegetables in cream or butter san		
Fruits	Fried fruits; fruits in cream or butter sauces		
Milk and Milk Products	Whole and 2% fat milk; cream Cheese (except for nonfat or low-fat, low-sodium types) Processed cheese products Foods made from whole milk or cream (such as ice cream or	half-and-half)	
Meat and Other Protein Foods	Canned or smoked meat or fish Marbled or fatty meats (such as bacon, sausage, hot dogs, regular hamburger) Whole eggs and egg yolks Poultry with skin High-sodium lunch or deli meats (such as salami) Canned beans (unless they are low-sodium or salt-free)	(Academy of Nutriton and	

Dietetics, n.d.)

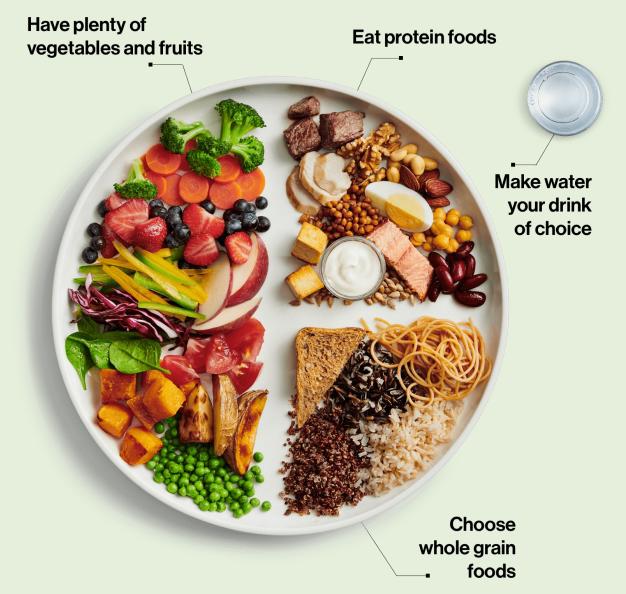
Fats and Oils	Solid cooking fats (shortening, butter, stick margarine) Tropical oils (palm, palm kernel, or coconut oil)
Other	Salt, seasoning mixes made with salt Soy sauce, miso Canned or dried soups (except for low-fat, low-sodium types) Bouillon cubes Catsup, barbeque sauce, worcestershire sauce Jarred or bottled salsa (homemade without salt is fine) Sugary drinks (such as soda or fruit drinks) Snack foods made with hydrogenated oil, shortening, or butter High-sodium snack foods (chips, pretzels, salted nuts) High-fat, high-sugar desserts High-fat gravies and sauces Premade foods (boxed pasta mixes, frozen dinners, and so on) if high in sodium or fat
Alcohol	Women: No more than 1 drink per day.  Men: No more than 2 drinks per day.  (1 drink = 5 ounces [oz] wine, 12 oz beer, or 1½ oz liquor)

# **Activity**

- What is a healthy diet to you?
  - What type of foods?
  - Which proportions?
- Now think about what you eat on a daily basis, is it similar?



# **Canadian Food Guide**



### Handy portion guide

Your hands can be very useful in estimating appropriate portions. When planning a meal, use the following portion sizes as a guide:



### Grains and starches\*/ Fruits\*

Choose an amount the size of your fist for grains or starches, or fruit.

### Milk and alternatives\*

Drink up to 1 cup (250 mL) of low-fat milk with a meal.



### Vegetables\*

Choose as much as you can hold in both hands. Choose brightly coloured vegetables (e.g., green or yellow beans, broccoli).



### Meat and alternatives\*

Choose an amount the size of the palm of your hand and the thickness of your little finger.



#### Fat\*

Limit fat to an amount the size of the tip of your thumb.

Food group names taken from Beyond the Basics: Meal Planning for Healthy Eating, Diabetes Prevention and Management.
 © Canadian Diabetes Association, 2014.

# Canadian Food Guide (age 60 and over)

the most important is to improve your diet, not make it perfect (something is better than nothing)! vegetables and fruit, including: dark green vegetables (kale and Bok choy each day), orange vegetables (carrots and sweet potato most days)

whole grain foods: oats, wild rice, whole wheat pasta

protein foods: eggs, nuts and seeds, fish and shellfish, beans, peas, and lentils, lean red meats, including wild game, lower fat dairy products such as milk and yogurt, fortified soy beverages, tofu, soybeans and other soy products

# Canadian Food Guide (Continued)

If you are 51 years of age or older, take a supplement with 400 IU (10 µg) of vitamin D every day.

If your sense of taste or smell has changed, try different spices and herbs to add more flavour, instead of salt. You can also switch up the texture and temperature of foods to make them more interesting.

If some foods have become more difficult to eat, try choosing and preparing foods differently. For example, for a softer texture, try cooking vegetables instead of eating them raw

## **How to Read Labels**

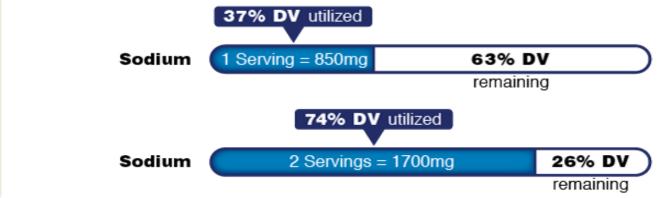


- 5% DV or less is a little
- 15% DV or more is a lot

https://www.canada.ca/co ntent/dam/canada/health

canada/migration/healthy

## **Portion Control**



Based on a 2,000 Calorie Diet

Nutrient	DV	%DV	Goal
Saturated Fat	20g	=100% DV	Less than
Sodium	2,300mg	=100% DV	Less than
Dietary Fiber	28g	=100% DV	At least
Added Sugars	50g	=100% DV	Less than
Vitamin D	20mcg	=100% DV	At least
Calcium	1,300mg	=100% DV	At least
Iron	18mg	=100% DV	At least
Potassium	4,700mg	=100% DV	At least

# Out of these two labels, which one would you choose? why?

### **Cracker A**

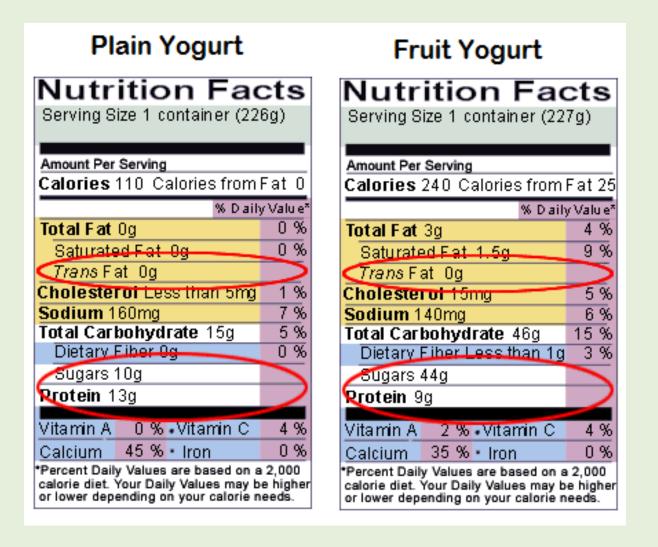
### **Cracker B**

Nutrition Facts Per 9 crackers (23 g)				
Amount		% Da	ily Value	
Calories 90	)			
<b>Fat</b> 4.5 g			7 %	
Saturated 2.5 g + Trans 0 g			13 %	
Cholesterol 0 mg				
<b>Sodium</b> 280 mg <b>12</b> %			12 %	
Carbohydrate 12 g			4 %	
Fibre 1 g			4 %	
Sugars 0 g				
Protein 3 g				
Vitamin A	0 %	Vitamin C	0 %	
Calcium	2 %	Iron	8 %	

Nutrition Facts Per 4 crackers (20 g)						
Amount		% [	Daily Value			
Calories 90	)					
Fat 2 g			3 %			
Saturated 0.3 g + Trans 0 g			2 %			
Cholestero	Cholesterol 0 mg					
Sodium 90	mg		4 %			
Carbohydrate 15 g			5 %			
Fibre 3 g			12 %			
Sugars 1 g						
Protein 2 g						
Vitamin A	0 %	Vitamin (	0 %			
Calcium	2 %	Iron	8 %			

https://www.canada.ca/content/dam/canada/health-canada/migration/healthy-canadians/alt/pdf/publications/eating-nutrition/label-etiquetage/fact-fiche-eng.pdf

# Out of these two labels, which one would you choose? why?



# **Recognized Diets for Diabetics**

- **Mediterranean diet** (high consumption of fruits, vegetables, legumes, nuts, seeds, cereals, whole grains; moderate-to- high consumption of olive oil, low-to moderate consumption of dairy products, fish, poultry, wine and, low consumption of red meat,)
- **Vegetarian dietary patterns** (includes vegetarian, vegan, lacto-ovo-vegetarian...)
- Dietary Approach to Stop Hypertension (DASH): Increased consumption of vegetables, fruits and low-fat dairy products, as well as whole grain, poultry and nuts.

While these do not necessarily align with all different cultural diets, the goal is not to change your food to eat the same way, but to incorporate their healthy components (include more nuts, healthy oils, etc.) It can be by following suggested recipes of by adapting meals that you are used to preparing at home.

### **DASH Diet**

### **DASH Eating Plan**

The Benefits: Lowers blood pressure & LDL "bad" cholesterol.

### **Eat This Limit This** Vegetables Fatty meats Fruits Whole grains Full-fat dairy Fat-free or low-fat dairy Fish Sugar sweetened beverages Poultry Beans Nuts & seeds Vegetable oils Sodium intake

www.nhlbi.nih.gov/DASH





kidney beans

HEALTHY EATING, PROVEN RESULTS

Eating a variety of delicious foods and cutting back on salt can help lower your blood pressure. What are you waiting for? Take control of your heart health with the DASH eating plan.

The DASH eating plan requires no special foods and has no hard-tofollow recipes. The following DASH menus allow you to plan healthy, nutritious meals for a week. There are a variety of delicious whole foods that fill you up while fueling your body and lowering your blood pressure and cholesterol levels. You'll find plenty of fruits and vegetables. fish, poultry, lean meats, beans, nuts, whole grains and low-fat dairy. Built around the recommended

number of servings in each of the DASH food groups, these menus sometimes call for you to use lower sodium, low-fat, fat-free, or reduced-fat versions of products. These menus are based on 2,000 calories a day. Serving sizes should be increased or decreased for other calorie levels. Daily sodium levels are either 2,300 milligrams or, by making the suggested changes, 1,500 milligrams.

The total daily servings by DASH food group are listed at the top. Next to each food item on the daily menu, you can check the exact serving amount for that item.

Pruits Dairy Meats, Fish, and Poultry

These menus give examples of heart healthy meals. How can you create your own and make the DASH eating plan part of your daily life?

- Start by learning how your current food habits compare with the DASH eating plan by using the What's on Your Plate? worksheet for a few days.
- Explore the Heart Healthy Eating webpage (healthyeating.nhlbi.nih.gov) to try new foods or learn how to make old favorites heart healthy.
- Choose your favorite foods from each of the DASH food groups based on your daily calorie needs to make your own healthy menus.
- Don't worry if some days are off target for your daily totals. Just try your best to keep the average of several days close to the recommended servings and sodium levels.

Following the DASH eating plan means you'll be eating delicious food that is also good for you. It can help you control your blood pressure, manage your weight, and lower LDL (bad) cholesterol levels-keeping your heart healthy.



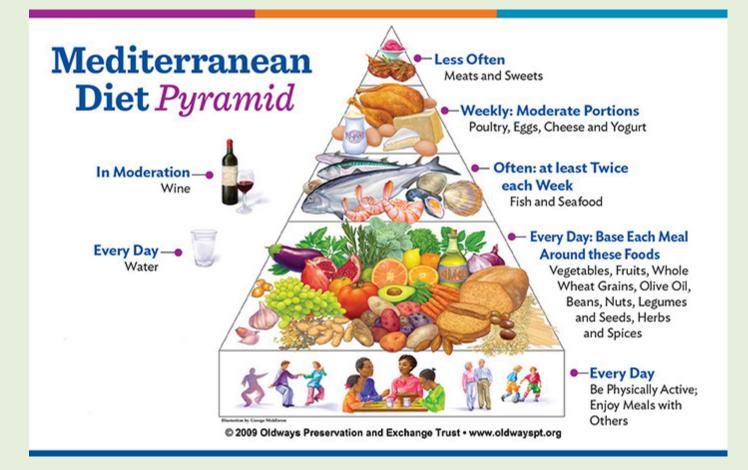






https://www.nhlbi.nih.gov/resources/weekdash-eating-plan

### Mediterranean diet



### **Mediterranean Diet Shopping List**

#### Vegetables

he Mediterranean lifestyle focuses on the us of seasonal fresh vegetables. Frozen and canned veggies that are low-sodium are also okay to consume.

#### Must-have

- · Onions/Spring Onions
- . Leafy Green
- . Tomato (fresh canned sauce 1

#### Other

- Asparagus Artichokes
- Beets
- Bell Pepper Broccoli
- Cabbage
- Carrots Eggplant
- Green Beans
- Mushrooms Olives
- · Peas
- · Squash (including zucchini)

#### **Nuts and Seeds**

Nuts and seeds are used in cooking and also a snacks. They are a good source protein, fiber, and healthy fats.

- Walnuts Almonds
- Cashews
- Flax
- Peanuts
- · Pine Nuts
- · Pumpkin Seeds (Pepitas)
- · Sunflower Seeds

#### **Healthy Oils/Fats**

Quality extra virgin olive oil is the main fat used in our Mediterranean cooking. We use Greek extra virgin olive oils from organically grown and processed Koroneiki olives.

- Extra virgin olive oil (we use Private Reserv and Early Harvest plive oils. Visit our shop on TheMediterranenDish.com)
- Avocado Oil
- · Grape Seed Oil
- . Ghee (clarified butter, not very often)

#### **Dairy and Eggs**

In the Mediterranean lifestyle, dairy, including a variety of cheeses, are enjoyed in moderation. Choose traditional "real" cheese and avoid highly processed cheeses.

- Yogurt (Greek yogurt preferred)
- Cheeses such as feta, ricotta and fresh
- mozzarella, burrata, Parmesan Eggs, preferably organic, free range

#### Fruits

Fruits are a good source of energy and helpful to weight control. Include fresh fruit, dried fruit,

- Apples
- Apricots Avocado:
- Bananas
- Berries Cherries
- Dates
- Figs
- Grapes · Lemons (used regularly)
- Melon
- Oranges · Pearhes
- Plums
- Pomegranates

#### **Beans and Legumes**

Beans are used regularly in eating the diterranean way. They are budget-friendly, and a good source of fiber and protein. When using canned beans and legumes, opt for lowsodium. And he sure to rinse and drain before

- · Chickpeas (Garbanzo) Hummus
- · Kidney Beans
- Lentils
- · Pinto Beans
- · White Beans (Cannellini)

#### **Herbs and Spices**

erhaps the most exciting part about eating he Mediterranean way is the generous use of fresh herbs and quality spices, which add bold and exciting flavor without the use of too much salt nor adding extra fat.

- Bay Leaves
- Cilantro Mint
- Parsley
- Oregano

Spices such as Aleppo pepper, Allspice, cumin, oriander, harissa, paprika, sumac, turmeric, za'atar and more. Visit our shop for all natural and organic Mediterranean spices on heMediterraneanDish.com

#### **Grains and Such**

Among other benefits, grains are a good source of fiber, vitamin Bs, and minerals. As much as possible, use wholegrain products, which are said to help with weight management and reduce the risk of heart

- Barley
- Bulgur Freekah
- Couscous
- Oatmeal Pasta
- Polenta
- Quinoa
- Rice
- · Breads (we use whole grain, or pita)

#### Seafood

ish is a good source of lean protein. Oily fish ke wild salmon provide a great deal of Omega s. Eating the Mediterranean way allows you to ncorporate fish and seafood at least twice a week (consult your physician). As much as possible, choose wild fish. Frozen fish is fine to

- · Small fatty fish, such as sardines
- White fish such as cod
- Wild salmon
- . Shell fish such as crab, shrimp, and lobster
- . Tuna (including quality low sodium canned



www.TheMediterraneanDish.com

(Contributor, 2016)

# **Examples** of recipes at:

- <a href="https://www.diabetes.ca/nutrition---">https://www.diabetes.ca/nutrition---</a>
  fitness/recipes?Categories=&MealType=Dinner&SearchText=&Sort=&Page=3
- <a href="https://www.nhlbi.nih.gov/resources/week-dash-eating-plan">https://www.nhlbi.nih.gov/resources/week-dash-eating-plan</a>
- <a href="https://www.diabetes.ca/nutrition---fitness/meal-planning/7-day-mediterranean-healthy-meal-plan">https://www.diabetes.ca/nutrition---fitness/meal-planning/7-day-mediterranean-healthy-meal-plan</a>
- https://www.diabetesfoodhub.org/mediterranean.html

# Are these examples of balanced meals? How Could we improve them?



Jollof rice



Banku and tilapia



Fattoush Salad

# **Resources For Support**

- Your local CLSCs
- Food banks
  - Multi-Caf,
  - Mada Community Center (Kosher),
  - Sun Youth Organization,
  - Centre Communautaire Restauration Vertical,
  - Share the Warmth,
  - The Food Pirate...
- Sami fruits (fruits and vegetable at affordable prices)
- Find existing resources in your neighborhood here:

https://docs.google.com/document/d/1EgBuE8YQD4wnTjw7799Ty3Lj2gaOd70FTcc6Guo7jLc/edit

# **Final Activity**

- What would you do if you are having low blood sugar?
- What is high blood pressure?
- What is the recommended sodium intake?
- Which food has a high glucose index?
- What is the sodium amount of this sauce can?

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