# Nutrition 101 Myths & Truths: Exposed!

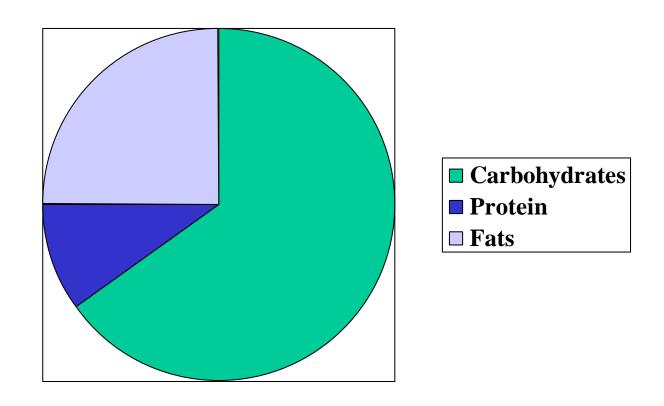
#### Overview

- Nutrition basics: macronutrients/ micronutrients
- Tips for maintaining a healthy diet
- Common nutrition myths...exposed!

#### "Truths" to Tell...

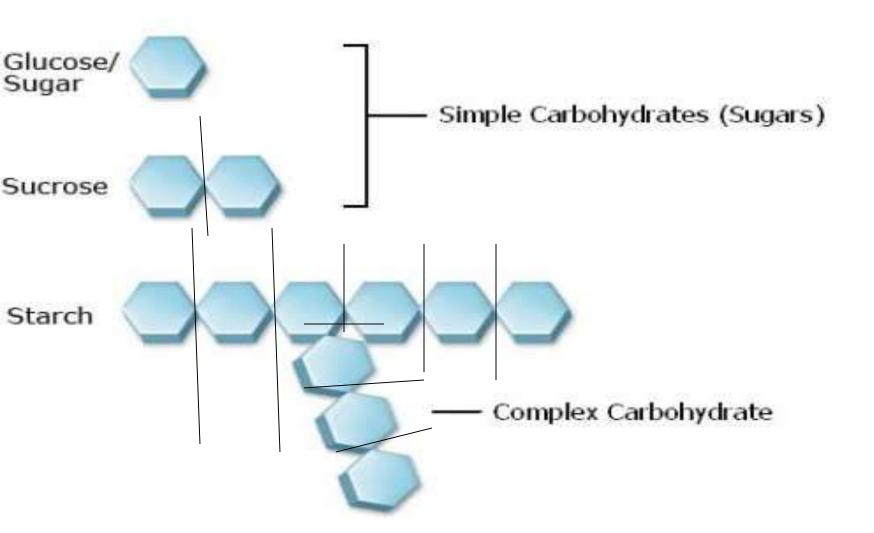
- We can all improve our diet
- A balanced diet leads to better overall health
- A little knowledge about nutrition goes a long way

# Nutrition Basics: Macronutrients



# Carbohydrates

- Should make up approximately 45-65% of your diet
- Simple carbohydrates: sugar, honey, syrup
- Complex carbohydrates: bread, pasta, legumes, vegetables



# SIMPLE CARBOHYDRATES POP QUIZ

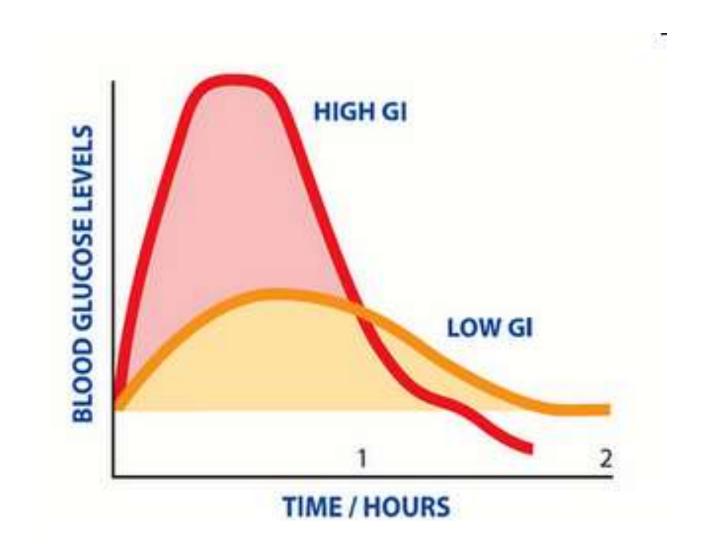


### Nutrition Myth...EXPOSED!

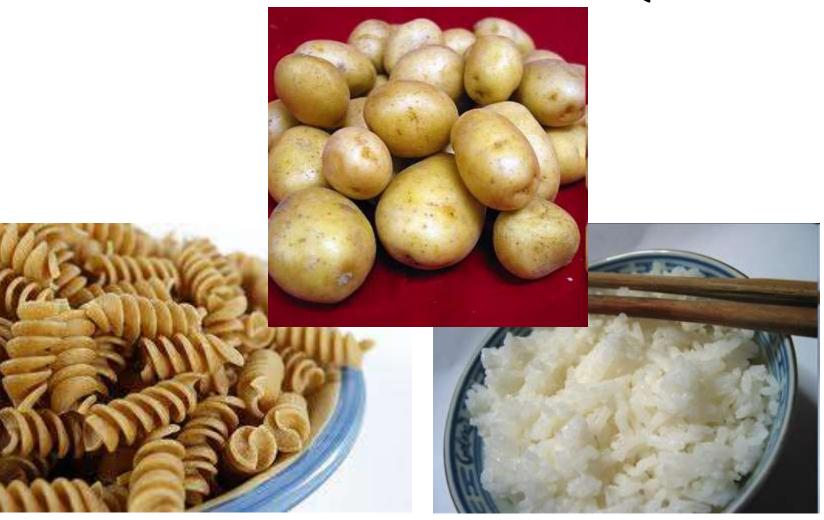
You must avoid carbs if you want to lose weight.

# Glycemic Index

- A measure of how long it takes for your body to get energy from a carbohydrate—how many bonds does your body have to break before it gets all the energy?
- Higher glycemic index = breaks down faster
- Lower glycemic index = breaks down slower
  - Sugar: high glycemic index
  - Fiber cereal: lower glycemic index



# **GLYCEMIC INDEX POP QUIZ!**



#### **Fats**

- Less than 20-35% of calories should come from fats
- Most calories per gram—9 calories compared to only 4 per gram of carbohydrates and protein

# Not all fats are created equal!

- Saturated fat = bad fat
- Unsaturated fat = good fat
- Trans-saturated fat = WORST fat

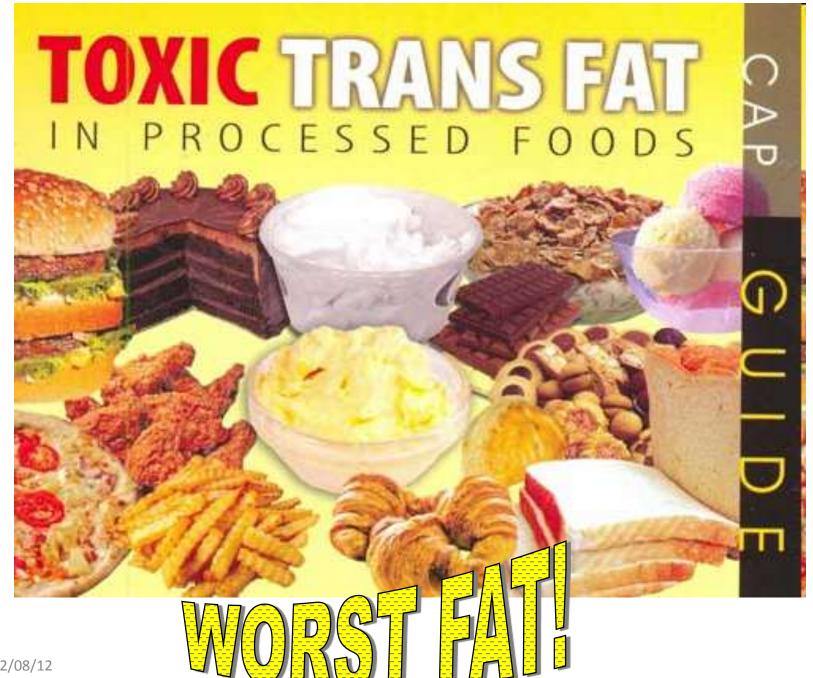
#### Saturated Fat

- At room temperature, these are solids
- Tend to stick to the inside of our arteries, leading to increased risk of heart disease and stroke
- Increase cholesterol levels



#### **Unsaturated Fat**

- Two different types: monounsaturated and polyunsaturated
- Found as liquids at room temperature
- May cause levels of "good cholesterol" to rise



### DIETARY FATS POP QUIZ!



Total Fat: 27g

Saturated: 24g

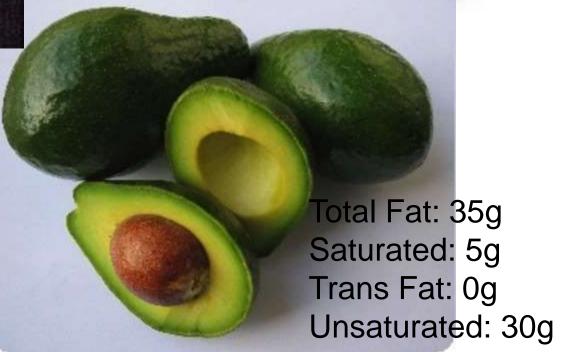
Trans: 0g

Unsaturated: 3g

Total Fat: 46.9g Saturated: 3.5g

Trans Fat: 0g

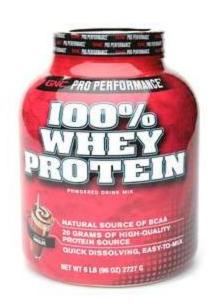
Unsaturated: 43.4g



#### **Protein**

- 10-35% of calories should be from protein
- Proteins are made up from building blocks called amino acids
- Our body then breaks down these long chains of amino acids to make the "building blocks" necessary to make body parts muscles, ligaments, skin, hair, nails

# Supplements

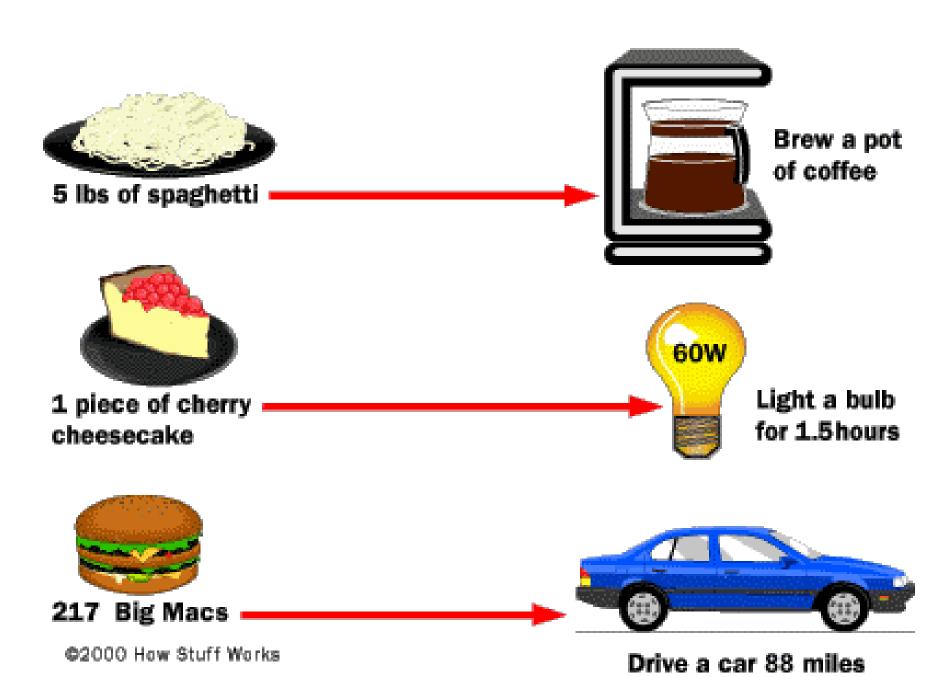




#### Calories

- Unit of energy
- Technically speaking—the amount of energy it takes to raise 1kg of water by 1 degree Celsius

#### The Calories in these items could:



# Calories are King!

- 3500 calories = 1 pound of fat
- Your body doesn't discriminate against calories—a calorie is a calorie is a calorie!

### Soda



Original 8-ounce bottle *97 calories* 

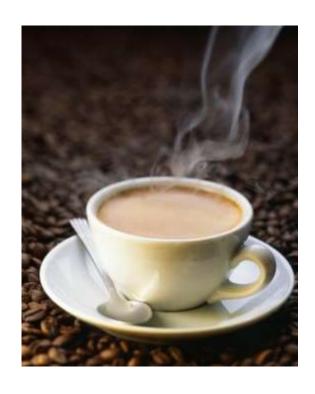


12-ounce can *145 calories* 



20-ounce bottle *242 calories* 

# Cup of Coffee



Coffee with milk and sugar 8 ounces 45 calories



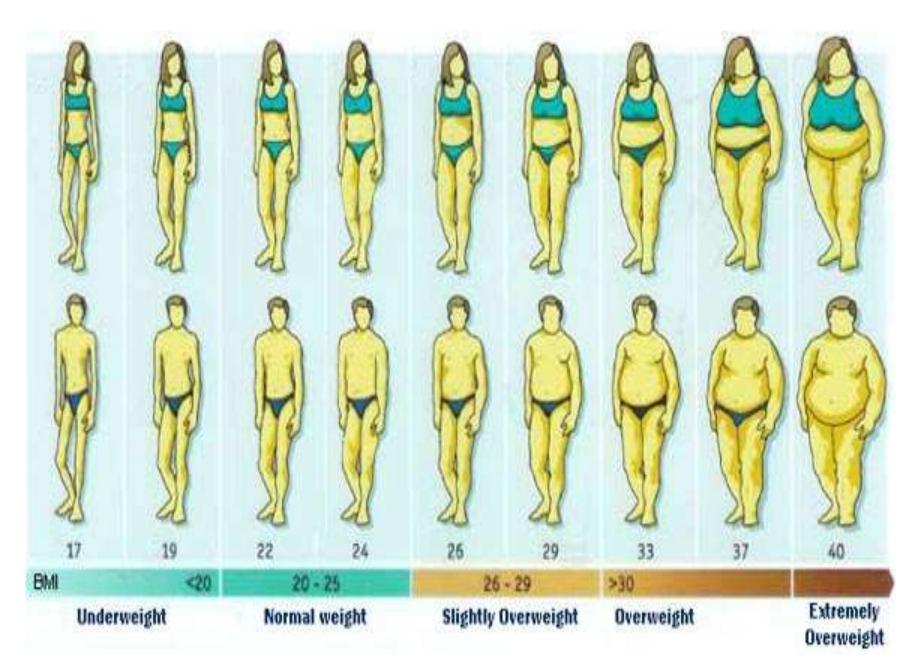
Grande cafe mocha with whip, 2% milk
16 ounces

330 calories

# **Body Mass Index**

- BMI is the relationship between your weight and your height
- Not a perfect system, but generally recognized to approximate the amount of body fat you have
- Designed for age 18-65





## BMI: Why does it matter?

- Heart disease
- Stroke
- Liver disease
- Gallbladder disease
- Type-2 diabetes
- Cancer
- Blood clots
- Breathing problems
- Arthritis
- Pregnancy risks



#### Macronutrients and Micronutrients

#### Give us energy

- Fat
- Carbohydrates
- Protein

# Nutrients that allow our body to function

- Vitamins
- Minerals

# Finding a balance – the key to a healthy diet

The goal is to get the maximum amount of nutrients while staying within your daily energy requirements

Nutrient dense foods are the best way to do this

# We all have a certain amount of energy we need each day - like 'cash flow'

- Use an on-line calculator to find out yours
  - Women between 1900-3000 per day
  - Men between 2400 3800 per day
- You can see the results within weeks your balance is 'off'

#### Your 'investments' pay off in the long term

Adequate nutrient intake helps to prevent disease

# Canada's Food guide

- Eating a variety of foods is the best and easiest way to ensure that you are meeting your micronutrient needs
- You DO NOT need to be an expert



#### CANADA'S FOOD GUIDE

What is One Food Guide Serving? Look at the examples below. Recommended Number of Food Guide Servings per Day Children Teens 2-3 4-8 9-13 Age in Years 19-50 51+ Females Fencies Maies Fendes Maies Girls and Boys Males Fresh, frozen or Fresh, frozen or canned vegetables Vegetables 100% Juice 125 mt. (11 cup) 5 7-8 8-10 6 Cooked: 125 mt. (1 cup) 125 mL (7 cup) and Fruit Raw: 250 mL (1 cup) I fruit or 125 mt. Ci cup) Grain 6-7 **Products** Cooked pasta Cooked rice, Flat breads 1 slice (35 q) il bagel (45 g) bulgur or quinoa 125 mL (½ cup) Cold; 30 g Hot: 175 mL (% cup) or couscous 125 mL (E cup) Milk and 3-4 3-4 3-4 Milk or powdered milk (reconstituted) **Alternatives** Canned milk Fortified soy (evaporated) 125 ml. (% cup) 175 g (% cup) beverage 250 mL (1 cup) 50 p (1 % oz.) 250 mL (1 cup) Meat and Alternatives 1-2 3 Cooked fish, shellfish, Cooked legumes Feanut or nut butters 30 ml. (2 Thsp) 175 ml. (% cup) and seeds 75 gr(2 in early) (25 mt. (1) cup)

# Myth or Truth?

These two foods are equally healthy



#### Vitamin D

- Results from large trials expected in 2016 until then there is a lot we don't know
- Difficult to get enough from food. Traditionally, sunshine was our main source
- Sunshine has it's risks though supplements are safer

New recommendations are...

Adults up to age 70 600 IU per day

Over age 70 800 IU per day

#### **Fibre**

- High fibre diet can reduce your risk of heart disease, stroke and type 2 diabetes
- Need 25-30g of fibre a day for health benefits
- Dietary fibre = soluble and insoluble fibre
- May need to increase fibre in your diet slowly to avoid side effects

# Myth or Truth?

Fruit and vegetable juices are as good for you as fruits and vegetables

Myth



### Sodium

### Did you know?

- About 77 percent of sodium comes from processed foods and foods eaten outside the home
- Many restaurant meals provide more than a whole day's worth of sodium
- A low sodium diet contains fewer than 2 grams (2,000 milligrams) of sodium each day
- Read food labels carefully!
- Explore other tastes ie. Lemon pepper, herbs and spices

# Nutrition Myth...EXPOSED!

The best way to limit your sodium intake is to stop using the salt shaker.

### Guess the sodium content...







270 mg

450mg

1050mg (crispy) 630mg (grilled)

### Calcium

- Consuming calcium in childhood can lead to higher bone mass in adulthood
- Calcium and Vitamin D are good for bones and teeth
- Exercise is just as important
- Most people need at least 1000mg per day over 2000mg can cause side effects
- Supplements are just as well absorbed but talk to your doctor about the best way to take supplements

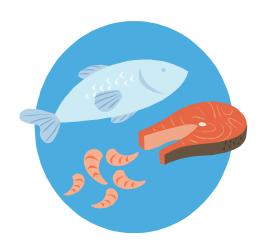
### **Antioxidants**

Supplementing with antioxidants has not been shown to decrease disease

 Fruits and vegetable intake is associated with lower rates of disease – including heart attack and stroke

# Omega 3 Fatty acids

- Found in fatty fish, canola oil, walnuts and flax
- Good for heart health in adults
- Good for visual and cognitive development in fetuses and children under the age of 2
- Suggest 250mg/day
- Equivalent to
  - 3 oz of salmon a week
  - 8 oz canned tuna a week
  - 2 omega-3 enriched eggs per day



### Cholesterol

- Probably more useful to look at saturated fat than at cholesterol when choosing your foods
- Saturated fat should be less than 7% of energy intake (15 grams if 2000 cal diet)
- Regular exercise also helps cholesterol levels
- Talk to you doctor if you are at risk...follow a healthy diet even if you're not

# Nutrition Myth...EXPOSED!

You need vitamin and mineral supplements to be healthy.

### Bottom line...

Pick something that is important to you and count it

Some ideas...

**Calories** 

Saturated fats

Sodium

**Fibre** 

Calcium

### Medications

There are few medications to help with weight loss

Most only work while you are taking them – not in the long term

They can be expensive and have side effects

Talk to your doctor

Beware of advertising – if there were something that was 100% safe and that worked 100% of the time – your doctor would be prescribing it!

# Nutrition Myth...EXPOSED!

### Reading food labels is too hard.



### **Nutrition Facts**

Per 9 crackers (23 g)

Amount % Dai		Daily Value
Calories 90		
Fat 4.5 g		7 %
Saturated 2.5 + Trans 0 g	g	13 %
Cholesterol 0 m	ng	
Sodlum 275 mg	)	12 %
Carbohydrate 1	2 g	4 %
Fibre 1 g Sugars 0 g		4 %
Protein 3 g		
Vitamin A 0 %	Vitamir	1C 0%
Calcium 2 %	Iron	8 %

### **Nutrition Facts**

Per 4 crackers (20 g)

Amount		% Dail	y Value	
Calories	35			
Fat 2g	ULIE PROPERTY		3 %	
Saturate	0.3	3	2%	
+ Trans	0 g		2 70	
Cholester	ol 0 mg	9		
Sodlum 90 mg		-	4 %	
Carbohydrate 15 g		5 g	5 %	
Fibre 3 g			12 %	
Sugars	1 g			
Protein 2	g			
Vitamin A	0%	Vitamin C	0 %	
Calcium	2%	Iron	7 %	

#### Serving size

Portion size that all the nutrition facts are based on.

#### Calories

Number of calories per serving

#### Total fat

Number of grams per serving.

#### Saturated fat -

Number of grams per serving. This type of fat raises blood cholesterol. Fodds with more than 1 gram of saturated fat per serving should be limited.

#### Trans fat -

Number of grams per serving. Like saturated fat, trans fat raises blood cholesterol. Choose foods with the lower combined amount of saturated fat and trans fat and low cholesterol.

#### Nutrients

Shows cholesterol, sodium, sugar and protein amounts per serving.

#### Sodium

Number of milligrams per serving. Healthy diets limit sodium to 2,400 milligrams each day; however, your doctor may restrict your sodium further.

#### **Nutrition Facts**

Serving Size 3 (120g Servings per container 2

#### Amount Per Serving

Calories 180

Calories from Fat 20

% Dail	y Value*
Total Fat 2.5g	4%
Saturated Fat 1g	4%
Trans Fat 0g	0%
Cholesterol 10mg	4%
Sodium 430mg	18%
Total Carbohydrate 34g	11%
Dietary Fiber 2g	3%
Sugars 3g	91500
Other carbohydrate 30g	
Protein 7g	

Vitamin A	0%	. Vitamin C	0%
Calcium	4%	• Iron	8%
Thiamin	15%	<ul> <li>Riboflavin 10%</li> </ul>	
Niacin	8%		

 Persent Daily Values are based on a 2,000 nations det. Your daily values may be higher or lower depending on your calons needs:

Secretary-	Catories:	2,000	2,500
Total Fat	Less than	05g	80g
Set Fat	Less than	200	25g
Cholesterol	Less than	300mg	300mg
Socium	Less than	2,400mg	2.400mg
Total Carb.		300g	375g
Dietary Fib	er	25g	30g

Calories per gram:

Fat 0 + Carbohydrate 4 + Protein 4

Ingredients: Water, enriched four, illiour, nison, iros, thamer, iboflavin, folic acid), hydrolyted scy protein, dehydrated chieses, eggs, margarine, salt, dehydrated colors, aprose.

#### Calories from fat

Number of calories per serving that come from fat.

#### % Daily Value

A percentage of daily intake in a serving, based on a 2,000-calorie diet. This is of limited value when selecting foods.

#### Fiber

Number of grams of fiber per serving. Most people should aim for 25 or more grams of dietary fiber per day.

Daily Value chart

Recommended daily intake of key nutrients, for both 2,000- and 2,500-calorie diets. Your calorie needs may be more or less than this amount.

#### Calories chart

Number of calories per gram of fat, carbohydrate, and protein.

### **Nutrition Facts**

Per 9 crackers (23 g)

Amount %		Daily Value
Calories 90		
Fat 4.5 g		7 %
Saturated 2.5 + Trans 0 g	g	13 %
Cholesterol 0 m	g	
Sodlum 275 mg		12 %
Carbohydrate 1:	2 g	4 %
Fibre 1 g Sugars 0 g Protein 3 g	-323	4 %
Vitamin A 0 %	Vitamin	C 0%
Calcium 2 %	Iron	8 %

### **Nutrition Facts**

Per 4 crackers (20 g)

Amount		% Dail	y Value	
Calories 8	35			
Fat 2g	III II WOODOW		3 %	
Saturated	0.3	3	2%	
+ Trans (	) g		2 70	
Cholester	ol 0 mg	9		
Sodlum 90 mg		_	4 %	
Carbohydrate 15 g		5 g	5 %	
Fibre 3 g			12 %	
Sugars	1 g			
Protein 2	g			
Vitamin A	0%	Vitamin C	0 %	
Calcium	2%	Iron	7 %	

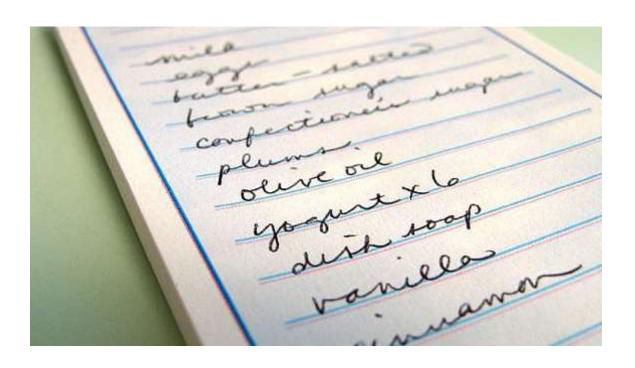
# Notorious Tricksters/Superstars

- Processed meats
- Granola Bars
- Muffins
- Cheese
- Frozen Yogurt
- Crackers
- Popcorn
- Whole grain pasta

- Oatmeal
- All-Bran/Bran Buds
- Olive oil
- "Fatty" Fish
- Sweet potatoes
- Tofu
- Dark green/orange vegetables

## HOW do we eat well?

# Planning



# Budgeting



# **Grocery Store Survival Tips**



# Cooking at Home

- Low fat dairy
- Home-made dressings/sauces
- Skinless chicken
- Substitute oils/creams/cheeses/white rice
- Add vegetables
- Recipes with nutrition info

# **Daily Eating Habits**

- Eat breakfast
- Limit portions, more frequent snacks
- Eat your calories instead of drinking them
- Cut down alcohol
- Plan for cravings/desserts
- Plan for stress



"IM ON THE 3 MONTH DIET ... IT ONLY LASTS A WEEK, BUT IT FEELS LIKE 3 MONTHS."

# Nutrition Myth...EXPOSED!

Dietitians only eat healthy foods

– never chocolate, fries, chips or
candy.

### Restaurants

- Grilled, not battered
- Avoid: bread baskets, cream sauces
- Portions (SHARING!)
- Salad dressing on the side
- Be aware when you are treating yourself

### **Vacations**

- Prepare your own food when possible
- Exercise
- Eat breakfast
- Plan your day
- Reduce alcohol



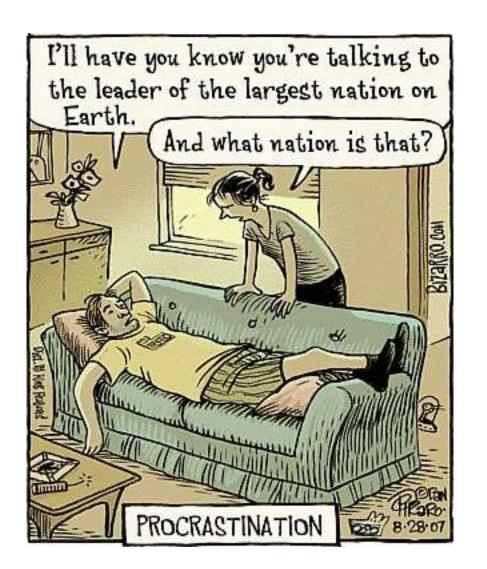
# Where to get more help...

- www.healthlinkbc.ca/dietitian (call 8-1-1)
- www.dietitians.ca (Dietitians of Canada)
- www.cpha.ca (The Basic Shelf cookbook, \$7.50)
- www.eatrightontario.ca (EatRight Ontario)
- www.eaTracker.ca (Dietitians of Canaa)
- www.hc-sc.gc.ca (Health Canada)
- my.clevelandclinic.org (Cleveland Clinic)

# Healthy Lifestyle Tips

- Sleep well
- Exercise
- Consider your eating habits
- Avoid making food a reward





# Benefits of Healthy Eating and a Healthy Weight

- Longer life
- Less illness
- More energy
- Better mental health
- Better sex-life
- Overall improved quality of life

### Main "Truths"

- No miracle foods, only balanced diets (labels!)
- Try to make changes you intend to be permanent
- Habits take a lifetime to build and are HARD to change
- You CAN do it! (But we're here to help...)
- A little knowledge goes a long way

# Thank you!

(Questions?)

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