## EATING FOR DIABETES

## OUTLINE

Nutrition

- Carbohydrates, Sugar \& Other nutrients
- Balanced meals
- Alcohol
- Reading labels
- Portion sizes

Now that I have diabetes,

## TRUE OR FALSE?

No carbs, no fat, no salt and especially no sugar. Food will never be fun again.

## Truth: Carbohydrate (sugar) is part of a healthy diet.

## FALSE!

- Choose healthy sources of carbohydrate most of the time
- It is okay (and healthy) to eat sweet treats sometimes


## Avoid "all or nothing" thinking

## WHAT CAN I EAT?

## DIABETES NUTRITION

- Healthy eating for diabetes is simply that: healthy eating!
- No foods are "off limits"
- How much of a difference can healthy eating make? A LOT!
- Decreases 10 year risk of diabetes complications by at least 30\%
- Can lower A1c by 1-2\%
- Balanced eating is more powerful than any medication


## TAKE HOME POINT:

 YOUR OVERALL DIET PATTERN IS WHAT MATTERS MOST

## Nutrients



## Carbohydrates

Sugar
(Naturally-Occurring and Added Sugars)

Starch

Increase blood glucose

Fibre

No increase in blood glucose

## CARBOHYDRATES (CARBS)

- Provide energy for the body
- Carbohydrate = sugar



## QUALITY OF SUGAR

## Naturally Occurring

$\uparrow$ Nutrients (usually)
$\uparrow$ Fibre
$\uparrow$ Vitamins \& Minerals


## Added Sugars

$\downarrow$ Nutrients
$\uparrow$ Calories


## LIMIT SIMPLE SUGARS (EVEN NATURALLY-OCCURRING)

- Honey, maple syrup, raw sugar = the same as white sugar
- Fresh or frozen fruit = healthy but fruit juice = high sugar



## HOW MUCH SUGAR CAN I EAT?

For "added" or "simple" sugars

- 20-40 g per day
- Consider the nutritional quality = fibre + natural or added sugars?
- Small amounts of sugar throughout the day are better than all at once
- Discuss with a Registered Dietitian


## FIBRE

- Not digested = no sugar
- Stabilizes blood glucose
- Lowers blood cholesterol
- Makes you feel full
- Need = 25-35 grams/day



## PROTEIN

- Does not turn to sugar
- Keeps muscles \& tissues healthy
- Stabilizes blood glucose
- Makes you feel full
- Quality matters!



## FAT

- Does not turn to sugar
- Helps absorb nutrients from food
- Stabilizes blood glucose
- Makes you feel full
- Quality matters!
- Attend Eating For Heart Health class for more detail

Is it better to eat real sugar

## POLL QUESTION

- Or -
artificial sweetener?

Truth: The choice is yours

SUGAR VS.
ARTIFICIAL SWEETENER

- Safe and approved by Health Canada for use in foods
- Artificial sweeteners do not raise blood glucose
- Many options available



## BALANCED MEALS:

## HEALTHY PLATE METHOD








## MEAL TIMING AND FREQUENCY

- 3 meals per day
- Snacks are optional

Eating regularly:

- Keeps blood glucose stable
- Helps portion control


## ALCOHOL: MAXIMUM RECOMMENDED INTAKE

- Men: 2-3 drinks per day (total 15 per week)
- Women: 1-2 drinks per day (total 10 per week)
- When moderation may be too much
- Avoid alcohol most of the time if you have fatty liver or high triglycerides

 (about 12\% alcohol)

80-proof distilled spirits ( $40 \%$ alcohol)

## CAUTION

Alcohol can cause delayed low blood sugar (hypoglycemia)

## LABEL READING



## Carbohydrates

Sugar
(Naturally-Occurring and Added Sugars)

Starch

Increase blood glucose

Fibre

No increase in blood glucose

## LABEL READING



1) Look at the serving size

Compare to your actual intake
2) Look at the total grams of carbohydrate per serving

Includes:

- Fibre,
- Sugar, and
- Starch (but starch is not always displayed on the label)


## LABEL READING


3) Subtract the fibre
(Does not raise blood sugar)

38 g carbohydrate per serving
-6 g fibre
32 g net carbohydrate
(sugar + starch)

## COMPARING FOODS



## COMPARING FOODS




## 1) Serving size

2) Total grams of carb
3) Subtract fibre

HOW MUCH CARBOHYDRATE SHOULD I EAT?

## HOW MUCH CARB SHOULD I EAT?

## Women

- 30-45 grams of carbohydrate per meal (x 3 meals/day)
- Maximum 15-20 grams of carbohydrate per snack
- Maximum 150-200 grams total carb per day


## Men

- 30-60 grams of carbohydrate per meal (x 3 meals/day)
- Maximum 15-30 grams of carbohydrate per snack
- Maximum 200-250 grams total carb per day

Carbohydrate in Foods


Foods with little or no carbohydrate
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Notes:

## 15 g carbohydrate per serving




## 1 whole potato ( $1 / 2$ potato $\times 2$ ) <br> 2 carbohydrate servings x 15 g carb

## 30 g carbohydrate

 per 1 whole potato (1 cup)1 cup rice ( $1 / 3 \operatorname{cup} x 3$ )
3 carbohydrate servings
x 15 g carb

## 45 g carbohydrate

 per 1 cup rice

Carbohydrate in Foods



Foods with little or no carbohydrate



Notes:

## No carbohydrate

## Vegetables



Fats

Oil, tub margarine, butter | Salad |
| :---: |
| dressing |$\quad$ Nuts, nut butters, seeds

## Extras



## BREAKFAST - OPTION 1



2 cups cereal with milk + 1 banana


## 2 cups cereal (1⁄2 cup x 4 servings)

4 carbohydrate servings
x 15 g carb
60 g carb per 2 cups cereal

Milk or fortified soy beverage, no added


1 cup skim milk (1 serving)
$=15 \mathrm{~g}$ carb

## Banana

1 whole banana ( $1 / 2 \times 2$ servings)
2 carbohydrate servings
x 15 g carb
30 g carb per 1 banana

## 1/2 large

## BREAKFAST - OPTION 1

## 105 g total carbohydrate



60 g carb


30 g carb

## BREAKFAST - OPTION 2



2 eggs +2 slices whole grain toast with margarine or peanut butter
+2 cups strawberries


2 slices toast (1 slice $\times 2$ servings)
2 carbohydrate servings
x 15 g carb
30 g carb per 2 slices toast


2 cups strawberries (I serving)
= 15 g carb

## Eggs = no carbohydrate

Margarine = no carbohydrate



Peanut butter = no carbohydrate

## = 0 g carbohydrate

## BREAKFAST - OPTION 2



30 g carb


No carb


15 g carb


No carb

## 45 g total carbohydrate

## SUPPER - OPTION 1



2 cups fettuccine alfredo with chicken +2 slices garlic bread

2 cups pasta ( $1 / 2$ cup $\times 4$ servings)
4 carbohydrate servings
x 15 g carb
60 g carb per 2 cups pasta

Bread
2 slices garlic bread (1 slice $\times 2$ servings)
2 carbohydrate servings
x 15 g carb
30 g carb per 2 slices garlic bread


## Chicken = no carbohydrate

## Alfredo sauce = low/no carbohydrate (check the label)

## = 0 g carbohydrate

## SUPPER - OPTION 1



60 g carb


30 g carb


No carb


Low/no carb

## 90 g total carbohydrate

## SUPPER - OPTION 2



1 cup fettuccine alfredo with chicken + 1 slice garlic bread + 3 cups Caesar salad

## SUPPER - OPTION 2



## BALANCED MEALS:

HEALTHY PLATE METHOD


## HEALTHY EATING RESOURCES

- Diabetes Canada www.diabetes.ca
- Other health education groups, including Heart Health Essentials www.wrha.mb.ca/groups
- Unlock Food

Dietitian-approved meal plans
\& nutrition information
www.unlockfood.ca

## FOR GENERAL NUTRITION QUESTIONS

## Dial-Dietitian <br> 1-877-830-2892 <br> Call 204-788-8248 in Winnipeg

## NEED MORE SUPPORT? <br> Meet with a Registered Dietitian (optional)

- Do you have private health insurance? Find a private practice dietitian here: www.CollegeOfDietitiansMB.ca/find-a-dietitian/private-practice
- If you don't have insurance, you may still be able to see a dietitian. Visit www.wrha.mb.ca/nutrition and select Find A Dietitian


## THANK YOU!

## Use the chat function or un-mute your microphone

 ANY QUESTIONS?