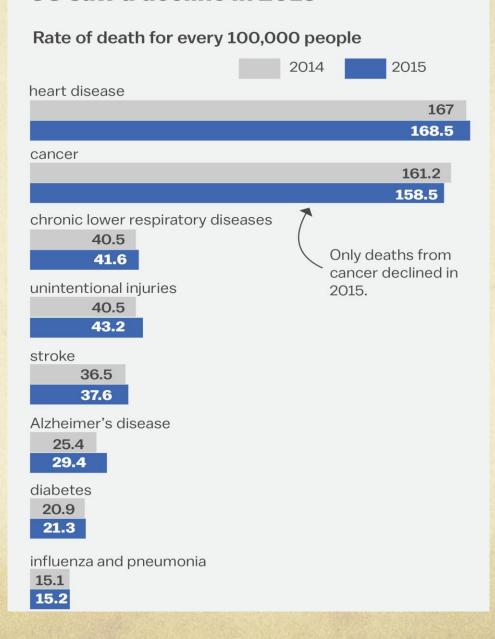
Dangerously Sweet

Diabetes, Part 2

Heb 2:1-3

- O Therefore we must give the more earnest heed to the things we have heard, lest we drift away.
- For if the word spoken through angels proved steadfast, and every transgression and disobedience received a just reward,
- O How shall we escape if we neglect so great a salvation, which at first began to be spoken by the Lord, and was confirmed to us by those who heard him

Only one major cause of death in the US saw a decline in 2015



- O Prevalence: In 2015, 30.3 million Americans, or 9.4% of the population, had diabetes. (about 1 in 10 people)
 - Approximately 1.25 million American children and adults have type 1 diabetes.
- O Undiagnosed: Of the 30.3 million adults with diabetes, 23.1 million were diagnosed, and 7.2 million were undiagnosed (about 1/4 do not know)

What is Diabetes

O Diabetes mellitus: ~ a chronic disease associated with abnormally high levels of the sugar glucose in the blood.

Ps 139: 14

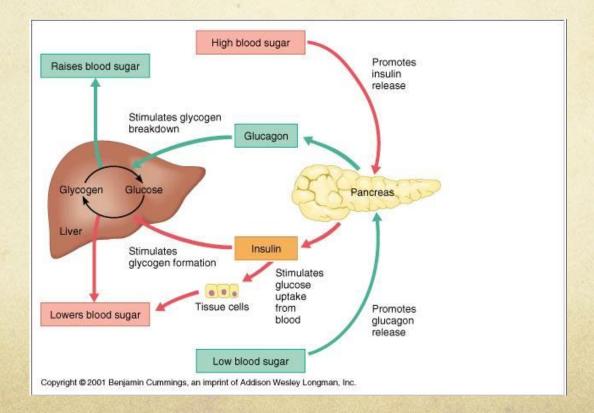
O I will praise You; for I am fearfully and wonderfully made; Marvelous are Your works; and that my soul knows very well.

Risk Factors

- Weight the higher the weight the more likely the body develops resistance to insulin
- O Inactivity the less active higher the risk
- Family history tends to run in the family
- Race African Americans, Hispanics, Native Americans or Asian Americans are at higher risk.
- O Age incidence increases with age
- O Gestational diabetes women that have had gestational diabetes at at a higher risk
- O Hypertension –people with blood pressure over 140/90 are at increase risk for diabetes
- Abnormal cholesterol and triglyceride low level of HDL (good cholesterol) and high triglycerides have a high risk for diabetes.

Types of diabetes

- O Diabetes melitus type I
- O Diabetes melitus type II



Goal for blood sugar levels

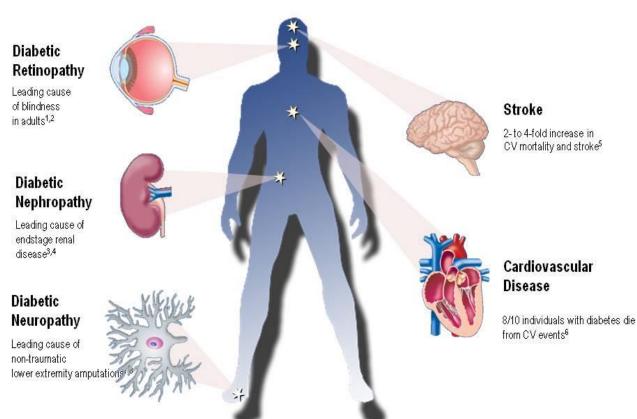
- O Normal blood sugar is 70-120. This is the ideal state for the body.
- For people with diabetes the goal is to keep blood sugar:
 - o 70-130 before meals
 - o 180 2 hours after the meal
 - never under 70 and
 - O Hemoglobin A1C under 7%

Hypoglycemia

- O Possible life threatening low BG, usually bellow 70 with symptoms
- O Some symptoms: shaky, sweaty, anxious, hungry, weakness, dizziness, and even passing out
- O Usually caused by not enough food or too much medication.
- Require immediate intervention and treatment with quick acting sugar and BG recheck in 15 min.

Complications

Diabetes is a lifelong condition associated with serious complications



SANOFI DIABETES

HDS. J Hypertens 1993;11(3):309-317.

8. Mayfield JAet al. Diabetes Care 2003;26(Suppl 1):S78-S79

1. UKPDS Group. Diabetes Res 1990;13(1):1-11. 2. Fong DS et al. Diabetes Care 2003;26(Suppl 1):S99-S102. 3.

4. Molitch ME et al. Diabetes Care 2003;26(Suppl. 1):S94–S98. 5. Kannel WB et al. Am Heart J 1990;120:672–676. 6. Gray RP et al. In Textbook of Diabetes 2nd Edition, 1997. 7. King's Fund. London: British Diabetic Association, 1996.

Psalm 139:14

O I will praise You; for I am fearfully and wonderfully made; Marvelous are Your works; and that my soul knows very well.

What to do

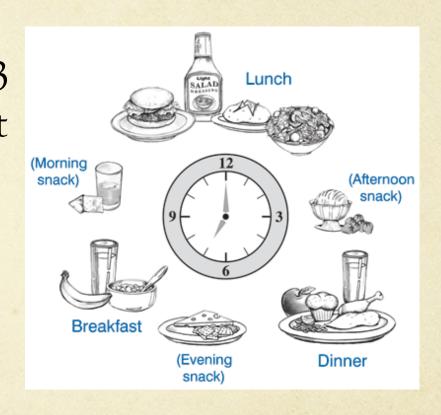
- O Eat healthy
- O Take the right amount of medication,
- Test your blood sugar and keep a record,
- O Follow a regular exercise plan,
- Follow the sick day guidelines when ill.

Notify physician

- o if BG is low two or more times in one week
- o if BG greater than 250 for 3-4 days.

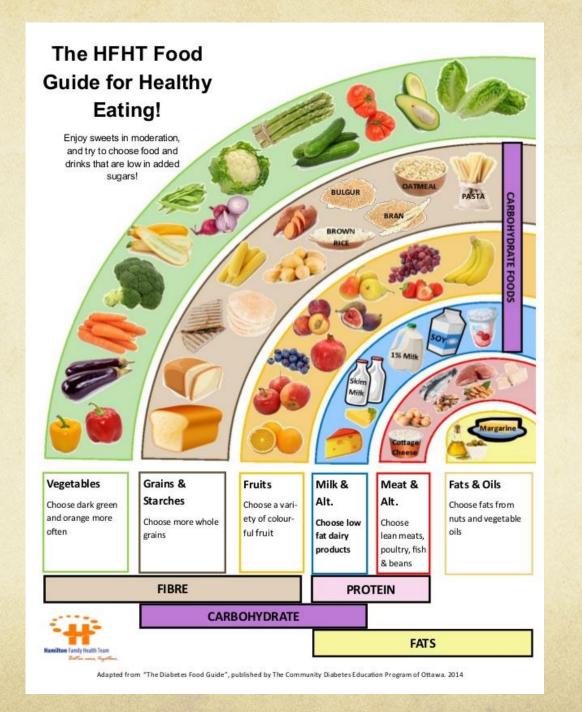


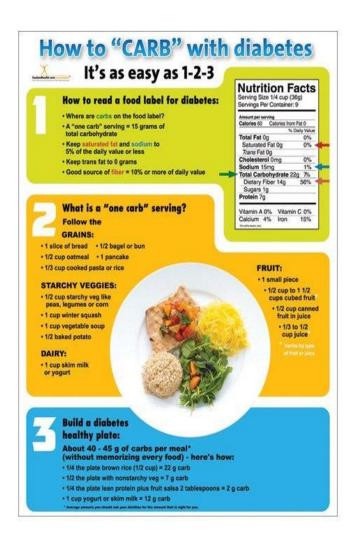
o people with diabetes to have 3 balanced meals at regular intervals (4-5 hr) with an evening snack at bed time, other recommend 2-3 snacks



- Eat starchy foods regularly
- Eat more fruits and vegetables
- Reduce fat
- O Cut down on sugar concentrated sweets
- Reduce salt
- Combine carbohydrate rich foods with protein rich food
- The amount of carbohydrate eaten at each meal should be about the same each day.
- Follow proper portion size

- O Foods rich in carbohydrates
 - o starchy foods (bread, crackers, cereal, rice),
 - o fruits and fruit juice,
 - o milk and yogurt,
 - o dry beans and soy,
 - o starchy vegetables (potatoes and corn),
 - Sweets
 - o snack foods





- Carbohydrate counting
- Each 15 grams of carb =1 carbohydrate choice.
- Description Each meal should have between 3-5 carbohydrate choices.

- 1) Start Here -
- 2) Check Calories

Nutrition Facts

Serving Size 1 cup (228g) Servings Per Container 2

Amount Per Serving

Vitamin C

Calcium

Iron

Calories 250 Calories from Fat 110

3 Limit these Nutrients

% Daily Va	
Total Fat 12g	18%
Saturated Fat 3g	15%
Trans Fat 3g	
Cholesterol 30mg	10%
Sodium 470mg	20%
Total Carbohydrate 31g	10%

Dietary Fiber 0g	0%
Sugars 5g	1
Protein 5g	
Vitamin A	4%

4 Get Enough of these Nutrients

* Percent Daily Values a	are based	on a 2,00	0 calorie diet.
Your Daily Válues may	be highe	r or lower	depending on
your calorie needs.	ZI COLLONIA WOOD		V

	Calories:	2.000	2.500
	Calones.	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Dietary Fiber		25a	30a

(6)

2%

20%

4%

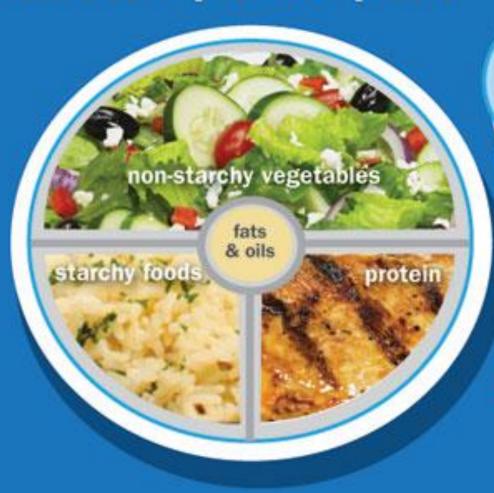
Quick Guide to % DV

5% or less
 is Low

 20% or more is High

5 Footnote

diabetes portion plate



add a 8oz. glass of non-fat or low-fat milk

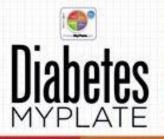
add a piece of fruit or a 1/2 cup of fruit salad

 Grains/Starchy Vegetables/Legumes, Fruits and Milk/Yogurt Groups contain carbohydrates. Eat consistent amounts of carbohydrate at meals and snacks to control blood glucose levels.

 Most people need 3-4 carbohydrate choices at breakfast, lunch, and dinner.

Non-starchy vegetables contain small amounts of carbohydrate. Protein and fat don't contain carbohydrates.

Snacks generally provide 1-2 carbohydrate choices, with or without lean protein or nuts.



DAIRY Get your calcium-rich foods

-Choose fat-free or low-fat milk or Choose calcium-fortified juices, cereals, and breads if you con't eat dairy products.



-Choose fruit over juice.

Select canned fruits in 100% juice or water, not syrup.



STARCHY VEGETABLES GRAINS | LEGUMES Make half your grains whole

product for a refined one -Try brown rice or whole-wheat pasta.

tees and



VEGETABLES Vary your veggies

Buy fresh vegetables in season - keep frazen on hand, too.

Plan meals around a vegetable main dish, such as a vegetable stir-fry.

Keep cut-up vegetables in a see-through container in the refrigerator. Shred carrots or zucchini into meatiost casseroles, and quick breads.

PROTEIN Go lean with protein

 Start with lean choices, and remove visible fat and skin. -Use fish and poultry more often. Add nuts to salads or main dishes as a substitute for meat.

Cut back on foods high in solid fats, added sugars, and salt Be physically active your way is, and the health benefits increase as you spend

Pick activities that you like and start by doing what you can, at least 10 minutes at a time. Every bit adds

Standing Treatment (MAIASE NOS.) in an increasing account on 1 4467400/807

Beaware!











Oral medication

- O 1 medication that decrease the amount of sugar that liver releases into blood like: Metformin or Glucophage and related meds.
- 2 medication that help pancreas to release more insulin like: glyburide, glipzide, glimiperide and their brand name

Insulin

- o short acting starts working within 30 min and effects last up to 3-4 hr. Usually given with each meal and at bedtime
- O long acting slowly acting covering body's needs for 24 hr. Given once usually at night
- Mixed depending on the combination given 2-3 times a day



Testing blood sugar



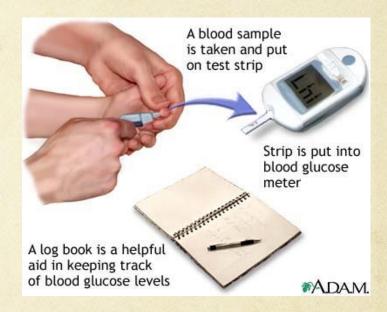
Guidelines for Children and Adolescents With Type 2 Diabetes: Blood Glucose Testing (2 of 2)

Blood glucose goal: 70-130 mg/dL for most patients		
	Frequency of BG testing	
Newly diagnosed type 2 diabetes	Before meals (including morning fasting), at bedtime until metabolic control is achieved Adjust frequency once target met	
Taking single insulin daily injection and oral agents	Single bedtime long-acting insulin: daily fasting BG measurements Oral agents: determine per clinical context; increase during illness or symptoms of hyperglycemia, hypoglycemia Oral agent + single injection of long-acting insulin: 2x/day (fasting + second test)	
Receiving multiple daily insulin injections	Before every meal	

Metformin and insulin are the only antihyperglycemic agents approved for use in children/adolescents by the US Food and Drug Administration.

Testing blood sugar

- Know your blood sugar by testing
- Keep a record of your blood sugar
- Notify physician if blood sugar is greater than 250 for 3-4 days or less than 70 more than 2 times in one week.
- O Goal: keep blood sugar under control



Sick days

DIABETES MELLITUS

OSick day rules:

- •Take insulin or oral hypoglycemics as usual.
- Ocheck blood glucose Q 3-4 hrs. If > 300, call MD.
- Small frequent meals, 6-8 times/day.
- Olf vomiting/diarrhea persist, take liquids Q 1/2-1 hr to prevent dehydration.
- oFor patients with type 1 diabetes, inability to retain fluids



When sick...

- O Let your primary physician know if:
 - o cannot take the DM meds,
 - O Have severe vomiting or diarrhea for 4-6 hours or
 - you are sick for more than 24 hr without signs of improvement.



Exercise

- O exercise = <u>free</u> medicine
- o it is the most underused medicine in America.



Exercise

How Does Exercise Help Control Type 2 Diabetes?

✓ Lowers blood glucose levels quickly

✓ Improves the body's ability to use insulin

- ✓ Reduces insulin requirement
- √ Better control of diabetes
- ✓ Reduces the risk of heart disease



Exercise

- Check with your doctor when to start, where to start, and what is the best exercise regimen for you
- O Start slowly and gradually increase the amount of activity
- Always carry something to treat low BG
- Wear good fitting supportive shoes with thick socks to prevent unnecessary injury to feet
- O Stay hydrated by drinking sugar free, caffeine free liquids AKA water

It's **NOT** that I **CAN'T** eat that.

I'm making the healthier choice not to.



ChattingOverChocolate.com

Matthew 25:23

Well done good and faithful servant; you have been faithful over a few things, I will make you a ruler over many things. Enter into the joy of your Lord