Diabetes Basics Living Well With Diabetes Series

Clinical Health Education





7/1/2014 Chronic Conditions Management Department

What do you know about how your blood sugar impacts you health?

What are you doing to care for yourself now?

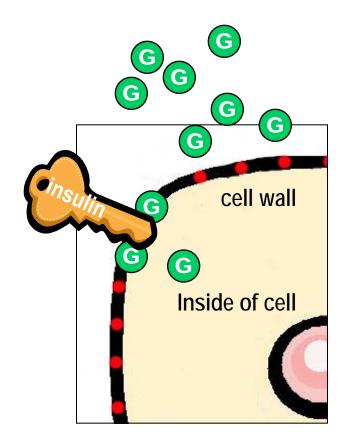


What is Diabetes?

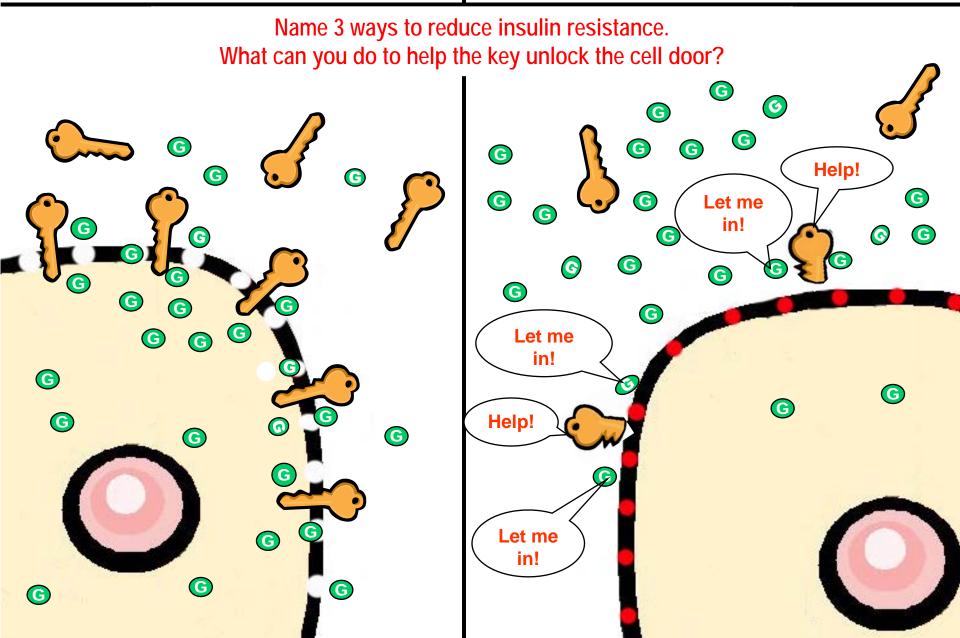
Туре 1	Туре 2
Pancreas produces little or NO insulin	Pancreas produces some insulin
	Insulin resistance (cells do not use insulin properly)
Develops suddenly	Develops over time
Insulin dependent	Use of medications and/or insulin may vary
	Lifestyle and genetic factors

Blood Glucose

- The food you eat is broken down into glucose
- Then it enters your bloodstream
- Glucose can only enter your cells if insulin, produced from your pancreas, is there to help and works properly







Reduce Insulin Resistance

Reduce Inflammation

- Lose belly fat
- Focus on unprocessed, plant-based foods
- Exercise regularly
- Manage stress and depression
- Sleep well

Diabetes Diagnosis

Range	HgbA1C	Fasting Glucose
Normal	4.4-5.6	60-99
Prediabetes	5.7-6.4	100-125
Diabetes	6.5 and above	126 and above

Preventing Complications

Can you reduce your risk for long-term complications?

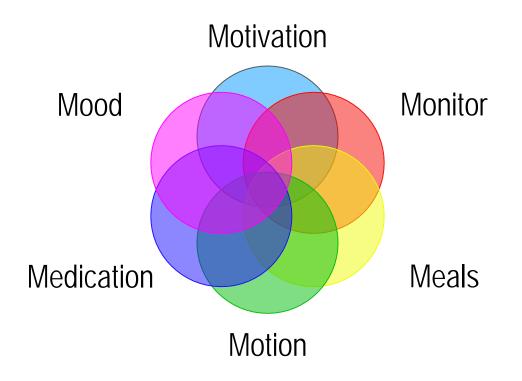
- Heart disease
- Stroke
- Blindness
- Kidney failure
- Amputations

Special note for women

Women with diabetes **must** control blood sugar <u>before</u> pregnancy and have a healthy weight. Discuss the safety of <u>all</u> medications and supplements with your provider. If you are not ready or don't want to become pregnant talk with your provider about effective birth control options. Plan for a healthy family!



6 Ms of Diabetes Self Care





Monitor

How often do you test?

- Before Meals
- 2 hrs. After Meals
- Before Bed

70-130 less than 180 100-140

- Use a new lancet and test strip
- Clean and dry hands, no lotion
- Use lowest effective setting
- Rotate testing site
- Dispose of sharps properly
- Call manufacturer with questions
- Record your readings (see sample glucose log)



Hyperglycemia

High blood sugar

Symptoms

- Frequent urination
- Thirst
- Vision changes
- Weak, tired, sleepy
- Nauseated
- Confused, anxious
- Headache, hungry
- Unexpected weight loss

Causes

- Missing your medications
- Illness, infections, injury
- Hormonal changes
- Diet
- Stress



Treating High Blood Sugar

- Test your blood sugar
- Drink water or fluids without sugar or caffeine
- Take your medications if you missed them
- Modify diet (do not skip a meal)
- Increase activity



Hypoglycemia

Low blood sugar

Symptoms

- Anxious, nervous
- Sleepy
- Sweaty, shaky
- Angry, irritable
- Slurred speech
- Confusion, headache
- Hunger
- Vision changes

Causes

- Skipping meals
- More than 4 or 5 hours between meals
- More active than usual
- Too much insulin or medication
- Alcohol (without meal)

Treating Low Blood Sugar

Eat Sugar	Wait 15 minutes	Eat a Meal
 If blood sugar is less than 70, take 15 grams of fast acting sugar If less than 50, take 30 grams 4 oz. fruit juice/soda, 8 oz. milk, 4 glucose tablets, 4 sugar packets or 1Tbsp. honey/syrup 	 Rest for 15 minutes, then recheck If still less than 70, take another 15 grams of sugar If still low after 3 tries, call Kaiser Advice Line or go to the nearest emergency room 	 Eat a substantial snack or meal with carbohydrate Apple with nuts Yogurt with fruit Healthy Eating Plate Method (balanced) meal

Contact Your Medical Provider If...

- You faint or feel confused
- Your blood sugar is over 300 for 2 days
- Your blood sugar is less than **70** three times in one week
- You lack water in your body:
 - No urination for 8 hours
 - Dry or cracked lips

Call 911 for medical emergencies



Meals

See Eating Well With Diabetes and Carbohydrate Basics and Food for Thought fliers

<image/> <section-header></section-header>	Avoid Processed Foods	Eat a Variety
Eat 3 meals a day Eat every 4 to 5 hours Add a snack if needed	Limit fatty, sugary and salty foods Limit sweetened beverages	Eat whole, unprocessed foods Focus on plants

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Food for Thought

What is included in a "health promoting" diet?

www.ForksOverKnives.com

(click to watch 2 minute film trailer)





Benefits of a plant-based diet

- Lower risk of death from ischemic heart disease and stroke
- Lower LDL "bad" cholesterol levels
- Lower rates of hypertension
- Lower risk of type 2 diabetes
- Lower body mass index (BMI)
- Lower overall cancer rates
- Lower risk of heart failure
- 73 percent decrease in coronary events, like a heart attack
- 70 percent decrease in the risk of dying from a coronary event



Foundational foods to promote health

Mediterranean, DASH and Vegetarian Diets emphasize plants:

- Whole Grains
- Vegetables
- Fruits
- Beans
- Peas
- Lentils
- Nuts
- Seeds

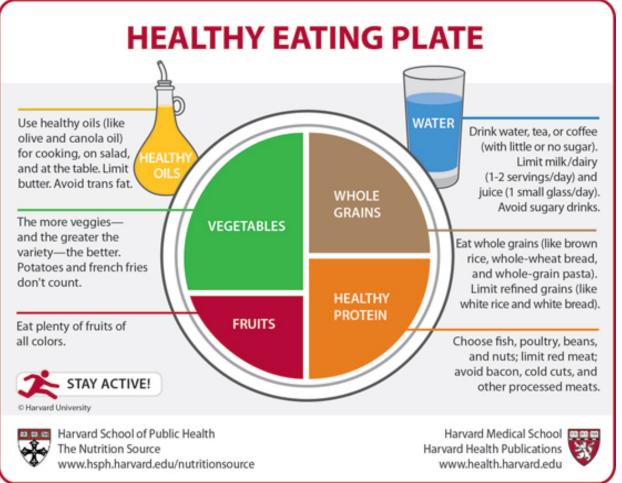
"Research on a [low fat 100% plant based] diet has found that carb and calorie restrictions were not necessary and still promoted weight loss and lowered participants' A1C." -American Diabetes Association

"People on the low-fat 100% plant based diet reduced their HbA1C levels by 1.23 points, compared with 0.38 points for the people on the American Diabetes Association diet. In addition, 43% of people on the low-fat [plant-based] diet were able to reduce their medication, compared with 26% of those on the American Diabetes Association diet."

-The Permanente Journal, Spring 2013



Healthy Eating Plate



Plant-Based Options

Choose plant-based milk instead of cow's milk soy, almond, rice, oat

Choose plant-based protein at meals instead of animal proteins •beans, peas, lentils

- nuts, seeds, nut butters
- tofu and soy foods

Discuss individual dietary needs with your provider or registered dietitian



Read Food Labels

- Start with Serving Size
 Low Fat (3g or less per serving)
 Low Sodium (2300mg or less daily)
- Fiber: 3 grams or more per serving, add slowly over 2-3 weeks
- Drink 6-8 cups of fluids per day to keep things moving (unless otherwise indicated)
- Buy whole, cracked or rolled grains
 Buy whole foods (single ingredient) or minimally processed foods (few ingredients)

Nutrition	Fa	cts
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Servings Per Contai		
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Amount Per Serving	1.5.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1
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Calories from Fat		35
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Total Fat 4g	The second second	6%
Saturated Fat 1.5	a	9%
Trans Fat 0g		
Polyunsaturated I	Fat 0.5g	
Monounsaturated		a
Cholesterol Omg		0%
Sodium 90mg	ST MAG	4%
Total Carbohydra	te 29a	10%
Dietary Fiber 9g		35%
Sugars 10g	222 5	
Protein 2g	and a start of the	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	PALSA STATE	STATE OF THE OWNER
Vitamin A 2%	Vitamir	n C 0%
Calcium 10% •	Iron 2	%
*Percent Daily Values are ba	sed on a 2,0	000 calorie
diet. Your daily values may depending on your calorie	be higher o	rlower
Calories	2,000	2,500
Total Fat /Less than	65g	80g
Sat Fat Less than	20g	25g
Cholesterol Less than Sodium Less than	300mg 2,400mg	300mg 2,400mg
Total Carbohydrate	300g	375g
Dietary Fiber	25g	30g
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CONFECTIONERS SHELLAC (CHOCOLAT LIQUOR, COCOA BUTTER, DEXTROS	E MILKEAT S	OV LECITHINI
ETHANOL, SHELLAC, HYDROGENATED CRISP RICE (RICE FLOUR, SUGAR, MALT MALTOSE COPIN SYRUP, HIGH FRUCTOSE OIL HONEY, GLYCERIN, MALTODEXTRIN,	COCONUT OIL),	ROLLED OATS
MALTOSE CORN SYRUP, HIGH FRUCTOSE	CORN SYRUP, S	SUGAR, CANOLA
OIL, HONEY, GLYCERIN, MALTODEXTRIN,	PALM KERNEL C	ML, TRICALCIUN

ITH ALKALI, NATURAL FLAVOR, BAKING SODA ID FLOUR, PEANUT FLOUR, SUNFLOWER MEAL

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D TOCOPHÉROLS ADDED TO RETAIN FRESH SOY, MILK, ALMOND, PEANUT, SUNFL

Nutrition Classes

Sign up today!



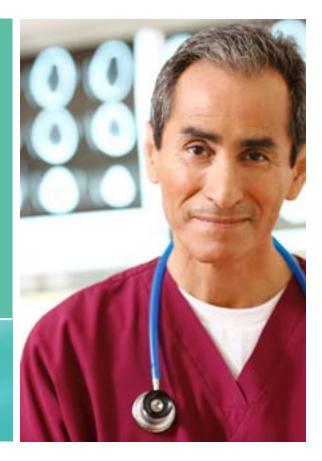
- Serving Up Health: Introduction to nutrition, dining out, portion distortion
- Diabetes Nutrition
- Plant-Based Nutrition: Plant-based menus and recipes
 - While avoiding meat entirely is not for everyone, eating a diet with few or no animal products and lots of plant foods has long been associated with lower rates of disease.



What Do You Get From Regular Exercise?

"If exercise could be packed into a pill, it would be the single most widely prescribed and beneficial medicine in the nation."

-Robert Butler, M.D. International Longevity Center





The Benefits of Regular Exercise

- Raises HDL, reduces LDL and triglycerides
- Helps lose or maintain weight
- Lowers blood pressure, blood sugar
- Strengthens heart, lungs, bones
- Improves flexibility, balance, posture
- Raises metabolism and energy level
- Improves memory and brain function

- Tones muscles
- Boosts self-esteem
- Boosts immune system
- Reduces emotional stress
- Improves blood circulation
- Reduces depression and anxiety
- Helps regulate hormones, sleep cycle
- Enhances sense of well-being

Reduced risk for Alzheimer's disease, cancers, dementia, depression, diabetes, heart attack, heart disease, high blood pressure and osteoporosis

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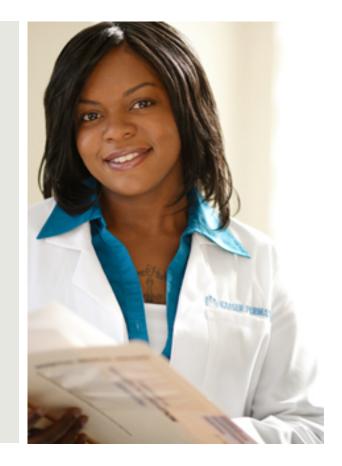
Get F.I.T.T. Today

Frequency	Intensity	Time and Type
 Try not to skip more than two days in a row All at once or in small amounts throughout the day 	 Are you able to talk? Can you sing? Can you whistle while you work? 	 20 minutes 7 days or 30 minutes 5 days Which aerobic, strength training, or flexibility exercises do you enjoy?



Medication Guidelines

- Take your medication as prescribed
- Pills or insulin DO NOT take the place of healthy habits
- Talk with your doctor <u>before</u> you stop or change medications
- Talk with a pharmacist before taking over-thecounter medications
- Always discuss potential side effects
- Wear a medical alert bracelet or carry a wallet card for emergencies





Medications

- Metformin (Glucophage[®])
 - Keeps the liver from releasing too much glucose
 - May take with food
- Glipizide (Glucotrol[®])
 - Helps the pancreas to make more insulin
 - Take 30 minutes before a meal

Insulin

 Helps the body get the blood sugar into the cells and out of the bloodstream



Mood

"Studies show that people with diabetes have a greater risk of depression than people without diabetes. There are no easy answers about why this is true."

-American Diabetes Association



Depression and Stress

- The fight or flight response can cause blood sugars to rise.
- Contact your doctor if you experience loss of pleasure or energy, changes in appetite or sleep, trouble concentrating, feelings of guilt or suicidal thoughts.
- Call 911 for emergencies

Motivation

- How does motivation affect diabetes?
- How can we become motivated?
 - Action creates motivation



- If you feel resistant to making changes, it's normal.
 - Resistance to change is universal. Don't let it stop you.
 - Make the changes anyway and show resistance who's boss.

"Resistance is not out to get you personally. It doesn't know who you are and doesn't care. Resistance is a force of nature. It stunts us and makes us less than we are and were born to be." Steven Pressfield, *The War of Art*

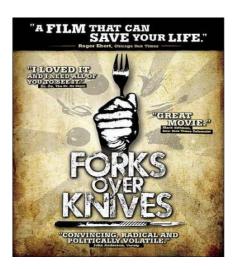


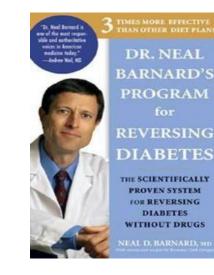
My SMART Plan Telephone Wellness Coaching 1-866-251-4514

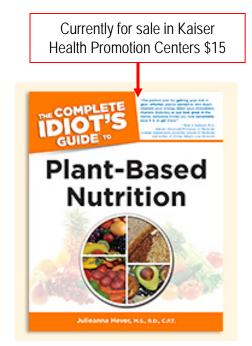
- Set a Behavioral Goal
 - Observable, measurable, short-term, achievable, challenging
- Monitor Your Progress
 - Tracking behavior changes behavior
- Arrange Your World for Success (home or work place)
 - List 3 ways to make the healthy choice easier
- Recruit Support
 - Ask for the support you need
- Treat Yourself
 - Behavior that is rewarded is repeated



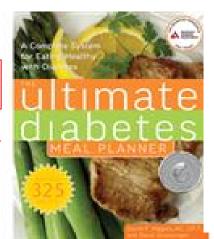
Resources: Film and Books







Currently for sale in Kaiser Health Promotion Centers \$20





Currently for sale in Kaiser Pharmacy Centers \$6.95

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