

Diabetes- Type I



What is it?

(IDDM)

<u>*Defect</u>- in the pancreatic beta cell (Islets of Langerhans) <u>*May be related to</u>- adrenal cortex, anterior pituitary gland, thyroid

Signs and Symptoms:

**Polyuria*- increased urination, *polydipsia*- increased thirst, *polyphagia*- increased hunger, fatigue, weakness, sudden weight loss, irritability

Facts:

 <u>*10% of all cases of diabetes</u>- Type I, insulin dependent, ketosis prone -onset usually follows viral infection- mumps, autoimmunity, exposure to bovine serum albumin
 <u>*In US- Diabetes affects</u>- Native Americans, Blacks, Hispanics > other populations *> 6.6 million Americans diagnosis with IDDM
 *50% of all people in US are undiagnosed with diabetes
 *Number 4 killer in US- related to stroke/CHF (Congestive Heart Failure)

<u>*Number 4 killer in US</u>- related to stroke/CHF (Congestive Heart Failure)
<u>*Chief cause</u>- of blindness, amputations, renal failure, birth defects
<u>*15% of medical costs</u>- > \$100 billion dollars a year

What can I do?

 <u>*Control glucose/blood sugar level-</u> with diet, medication, exercise -increases life expectancy, quality of life
 -HbA1C- < 7%, FBS 80-120 mg./dL, 150-180 mg./dL 2 hours after meals, 100-140 mg./dL at bedtime

*Achieve and maintain - healthy weight for height, improve glycemic control





Diabetes- Type I

(**IDDM**)



Types of Insulin:

*Dependent on Insulin for Life- monitor hypoglycemia, speed/absorption, peak/duration

<u>*Immediate</u>- Humulog- 5 minutes/onset, 15 minutes/peak, 60-90 minutes/duration
 <u>*Rapid-acting</u> - (Regular)- 1/2-1 hour/onset, 4-6 hours/peak, 6-8 hours/duration
 -(human/Regular)- 1/2-1 hour/onset, 2-3 hours/peak, 3-6 hours/duration
 <u>*Intermediate (lente/NPH)</u>- 2-4 hours/onset, 4-12 hours/peak, 10-18 hours/duration
 <u>*Long-acting (ultralenta/PZI)</u>- 6-10 hours/onset, 13-14 hours/peak,



18-20 hours/duration

Hyper/Hypoglycemia:



*Hyperglycemia- Polydipsia/phagia/uria, dehydration, muscle wasting, weight loss, weakness, hypovolemia, ketonuria, glycosuria, fatigue, dry mouth, recurrent/persistent infections, changed/blurred vision, muscle cramps -glucose > 250 should be treated, if not can lead to DKA (Diabetic Ketoacidosis), coma, death

<u>*Hypoglycemia</u>- Headache, weakness, hunger, shakiness, confusion, diplopia, irritability, shallow/rapid breathing, numbness of lips/mouth/tongue, convulsions, normal/abnormal pulse, dizziness, lack of concentration, pallor, staggering gait, slurred speech, nausea, tingling, diaphoresis

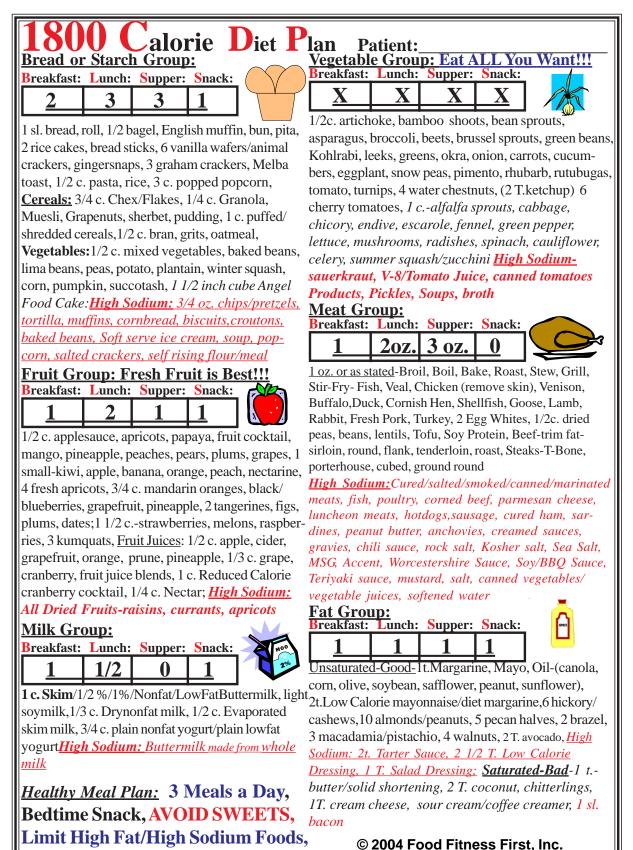
-treat with 12-15 grams of CHO (1 Fruit/Bread/Starch/Milk) if glucose < 70 mg./dL wait 15 minutes, retest, repeat if needed

What can I do?

*See your Physician

*See RD for help as needed See FFF RD on line for help **RD to educate patient*- on Artificial Sweeteners, Alcohol, Exercise/activity, Food Diary, Eating Out, Food Labels, Sick Day Management





Used for Diabetes/Weight Reduction

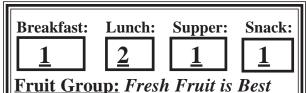
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Special Notes by: MD, Nurse, RD, Other:				
1				
2				
3				
<u>Free Vegetables:</u> Alfalfa Sprouts, Cabbage, Chicory, Cauliflower, Celery, Endive, Escarole, Fennel, Green Peppers, Lettuce, Mushrooms, Parsley, Radishes,				
Spinach, Summer Squash, Watercress, Zucchini, (<i>May use with a Low Calorie</i>				
Fat Free Salad Dressing.)				

Suggestions/Talk with your MD:
#Exercise 20-30 Minutes Per Day after 2
weeks use weights
#Avoid Fried Foods, Sweets and Colas
#Encourge High Fiber Foods as Whole
Grains, Potatoes with skin, Brown
Rice, Fresh Fruits & Vegetables
#Drink plenty of fluids-Water, Diet Colas,
unsweet beverages, <mark>Salt</mark> , Pepper
#When Hungry eat vegetables or a large
lettuce/vegetable salad with low
calorie fat free dressing
1800 Calorie Diet Plan:
Breakfast:
1/2 cup Applesauce, unsweet
1 cup Skim Milk/1/2 cup Oatmeal
1 slice WW Bread/1 t. Margarine
1/2 c. V-8 Juice/1 Scrambled Egg
1/2 C. V-8 Juice/1 Scrambled Egg
Lunch: 1/2 c. Fat Free Potato Salad
2 oz. Baked Chicken/1 cup Green Beans
1 Bun/2 cups Salad/Low Calorie Dressing
1 Banana/1 t. Margarine/1/2 c. Skim Milk
5
Supper:
1/2 cup Peaches/6 Saltines/1t. Marg.
1/2 c. Broccoli/1/2c. Onions/1/2c. Carrots
3 oz. Tuna/1 cup Fat Free Pasta Salad
1
<u>Bedtime Snack:</u> 1c. Skim Milk/1 Fat/

5 Vanilla Wafers/1 Fresh Fruit

1800 Calorie Diet Plan **Patient: Healthy Meal Plan:** 1-Eat 3 Meals a Day. 2-Do Not Skip Meals! **3-Avoid Sweets** 4-Limit High Sodium & **High Fat Foods** 5-Used for Diabetics or Weight Reduction 6-X = Eat all You Want! © 2004 Food Fitness First, Inc. www.foodfitnessfirst.com

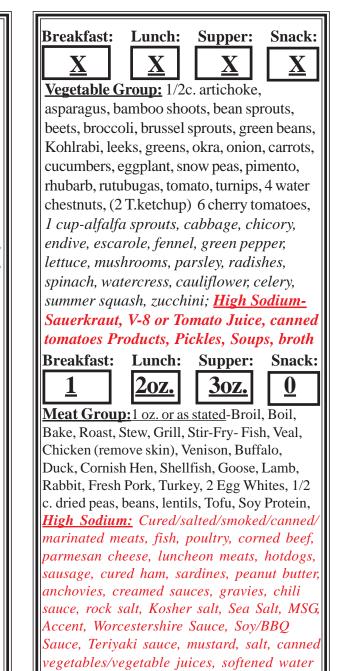


1/2 c. Apple, Applesauce, Apricots, Cherries, Fruit Cocktail, Mango, Pineapple, Peaches, Papaya, Pears, Plums, Grapes, 1 small-Kiwi, Apple, Banana, Orange, Peach, Nectarine, 4 Fresh Apricots, 3/4 c. Mandarin Oranges, Black/Blueberries, Grapefruit, Pineapple, 1 c.-Cantaloupe, Honeydew, Raspberries, 1 1/2 c.-Strawberries, Watermelon, 2 small Tangerines, Plums, Figs, Dates, 3 Kumquats, Fruit Juices: 1/2 c. Apple, Cider, Grapefruit, Orange, Prune, Pineapple, 1/3 c. Grape, Cranberry, Fruit Juice Blends, 1 c. Reduced Calorie Cranberry Cocktail, 1/4 c. Nectar High Sodium: Dried- 4 Apple Rings, 2 T. Raisins, 8 Apricot Halves, 1 T. Currants **Breakfast: Lunch: Supper: Snack:**



Milk Group: 1 c. Skim, 1/2 %, 1%, Nonfat/ Low-Fat Buttermilk, light soymilk, Alba 66/77, Vegelicious, 1/2 c. Evaporated Skim milk, 1/3 c. Dry nonfat milk, 3/4 c. plain nonfat yogurt, 1 c. Lowfat milk, Sweet Acidophilus, 3/4 c. plain lowfat yogurt, 1 c. Whole milk, Goat's, Kefir, 1/2 c. Evaporated Whole Milk, Buttermilk made from whole milk High Sodium: Buttermilk made from whole milk, any food made with baking powder, soda, self rising flour or meal, foods in a brine, bacon fat, salt pork, horseradish, 4 olives

Breakfast: Lunch: Supper: Snack:				
$\begin{bmatrix} 2 \\ 3 \\ 3 \\ 1 \end{bmatrix}$				
Bread or Starch Group: 1 sl. Bread, Roll, 1/2				
Bagel, English Muffin, Bun, Pita, 2 Rice Cakes,				
2 Holland Rusk, Bread Sticks, 6 vanilla wafers,				
animal, gingersnaps, 3 Graham Crackers, Melba				
toast, 3 T. Miso, Grapenuts, wheat germ flour,				
dry tapioca, cornstarch, 3 c. popped popcorn,				
Cereals: 3/4 c. Chex/Flakes, 1/4 c. Granola,				
Muesli, Grapenuts, sherbet, pudding, 1 c. puffed/				
shredded cereals, 1/2 c. bran, grits, corn, oatmeal,				
mixed vegetables, baked beans, lima beans, peas,				
potato, plantain, winter squash, gelatin, pasta,				
rice, pumpkin, succotash, 1 1/2 inch cube				
Angel Food Cake: <u>High Sodium:</u> 3/4 oz.				
Chips, pretzels, tortilla, muffins, cornbread, meal,				
flour, biscuits, croutons, baked beans, Soft serve				
ice cream, <u>salted</u> crackers, popcorn, soup, broth,				
bouillon, bread with salted tops, pork rinds				
Breakfast: Lunch: Supper: Snack:				
Fat Group:Unsaturated-Good -1 tMargarine,				
Mayonnaise, Oil- (canola, corn, olive, peanut,				
safflower, soybean, sunflower), 2t. -Low Calorie				
mayonnaise, 10 almonds/peanuts, halves: 5 pecan,				
4 walnuts, 6 hickory/cashews, hazel, 2 brazel,				
3 macadamia, pistachio, 2 t. diet margarine,				
2 T. avocado, <i>High Sodium</i> : 2t. Tarter Sauce,				
Low Calorie Dressing, 1 1/2 T. Salad Dressing				
<u>Saturated-Bad</u> - 1 tButter/Solid Shortening,				
2 T. Coconut, chitterlings, 1 T. cream cheese,				
sour cream/coffee creamer, 1 sl. bacon				
RED = Foods High in SODIUM				



1800 Calorie Week at a Glance							
Monday:	<i>Tuesday:</i>	Wednesday:	<i>Thursday:</i>	<i>Friday:</i>	Saturday:	Sunday:	
1 Orange	1 Apple	1/2c. Applesauce	1/2 Grapefruit	1/2 Banana	2 Prunes	1 Mand.Oranges	
1 cup Skim Milk	1 cup Skim Milk	1 cup Skim Milk	1 cup Skim Milk	1 cup Skim Milk	1 cup Skim Milk	1 cup Skim Milk	
1/2 c. Bran Cereal	1 cup Oatmeal	11/2 WW Bagel	3 Pancakes	1 c. Grits	1 English Muffin	1/2 c. Bran Cereal	
2 sl. WW Toast	1 sl. WW Toast	1T.Cream Cheese	2-3T.Unsweet Syrup	1 sl. WW Toast	1/2c.Hash Browns	2 sl. WW Toast	
1 t. Margarine	1 strip Bacon	1 Omelet with	1 t. Margarine	1 t. Margarine	1 t. Margarine	1 t. Margarine	
1 oz. Cheese	1 Poached Egg	Onions/Peppers	1 oz. Sausage	1 Scrambled Egg	1 Poached Egg	1 oz. Cheese	
1 c. Coffee	1 c. Coffee	1 c. Coffee	1 c. Coffee	1 c. Coffee	1 c. Coffee	1 c. Coffee	
2 oz. Hamburger	2 oz. Pork Chop	2 oz. Steak	2 oz. Ham	2 oz. Beef Stew	2oz.Chicken Salad	2 oz. Pork Loin	
1 c. Sauteed	2 cups Salad w/	2 cups Salad w/	1 c. Lettuce/Tom.	1 c. Carrots,	1 c. Fresh Veggies	1 c. Sauteed	
Peppers & Onions	Low Calorie Drg.	Low Calorie Drg.	Onion/Pickles-Dill	Peppers & Onions	MarinatedLowCal.Drg.	Squash & Onions	
1/2 c.Lett/Tomato	1/2 c. Cabbage	1/2 c.Green Beans	1/2c. Cucumbers	1/2 c.Lett/Tomato	1/2 c.Lett/Tomato	1/2 c.Greens	
2-3 Carrot Sticks	2-3 Celery Stalks	2-3 Sl.Tomato	2-3 Radishes	2-3 Mushrooms	1 Dill Pickle	1/4c.Alfalfa Sprouts	
1/2 c.Potatoes w/	1 c.Blackeye Peas	1 small Baked	7 Baked Fries	1/2 c.Potatoes w/	1/2 c.Macaroni	1/2 c.Baked	
Skin/2Rolls	w/Onions	Potato w/Chives	2 sl. Pineapple	Skin in Stew	Salad	Beans/Onions	
1/2 c. Fruit Cup	1/2 c. Fresh Fruit	1 Peach/2 Rolls	Water/2 Rolls	1 cup Grapes	2 T. Raisins	2-3 Plums	
Water, Unsweet	Water, 1 Roll	Water, Unsweet	Drink/Beverage	Water/2 Rolls	Water/2 Rolls	Water/2 Rolls	
Drink/Beverage	Drink/Beverage	Drink/Beverage	1 t. Mayo	Drink/Beverage	Drink/Beverage	Drink/Beverage	
2 oz. Fish/1 Bun	2 ozChicken/1Bun	2 oz. Salmon	2 oz. Tuna/10Crax	2oz.Polish Sausage	2 oz. Venison	2 oz. Salmon	
2 c. Salad w/Low	2 c. Salad w/Low	1 c.Mushrooms	2 c. Salad w/Low	2 c. Salad w/LCD	2 c. Salad w/LCD	2 c. Salad w/LCD	
Calorie Dressing	Calorie Dressing	1/2 c. Broccoli	Calorie Dressing	1 c. Sauerkraut	1c.Okra/Tom's/On	1 c. Asparagus	
1 c. Cole Slaw	1/2 c. Cauliflower	2 t. Marg./1 small	1 c. Cole Slaw	1 t. Mustard/1Bun	1/2 c.Lima Beans	10 Almonds/1Bun	
2 t.Mayo	2 t Marg	Baked Potato	1 Pickle/2t.Mayo	1 Dill Pickle/2Fats	w/Peppers/2Fats	1 Bk. Apple/2Fats	
1 c. Melon	1 1/4 c. Berries	1Pear/1 Roll-WW	1 Nectarine	1/2c. Mango	2 Kiwi/1WWRoll	1/3c. Wild Rice	
1 c. 2 % Milk 4 Graham Crax <u>LCD= Low</u> <u>Calorie Dressing</u>	1 c. Yogurt 12 Vanilla Wafers		1 c. Yogurt 6 c. Popcorn Food Fitness Firs foodfitnessfirst.c		1 c. 2 % Milk 12 Saltines <u>Red = Low S</u> <u>Use Unsalted</u>		



<u>Breakfast:</u>	<u>CHO Gms.</u>
1/2 c. Apple Juice	15
2 slices Toast	30
1 cup Grits	30
1 c. Whole Milk	30
Coffee, Salt, Pepper	0
Artificial Sweetener	0



Bedtime Snack: 1 cup Whole Milk 6 Graham Cracker Squares

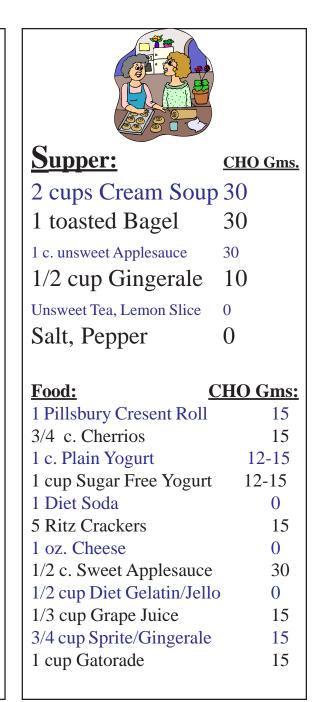
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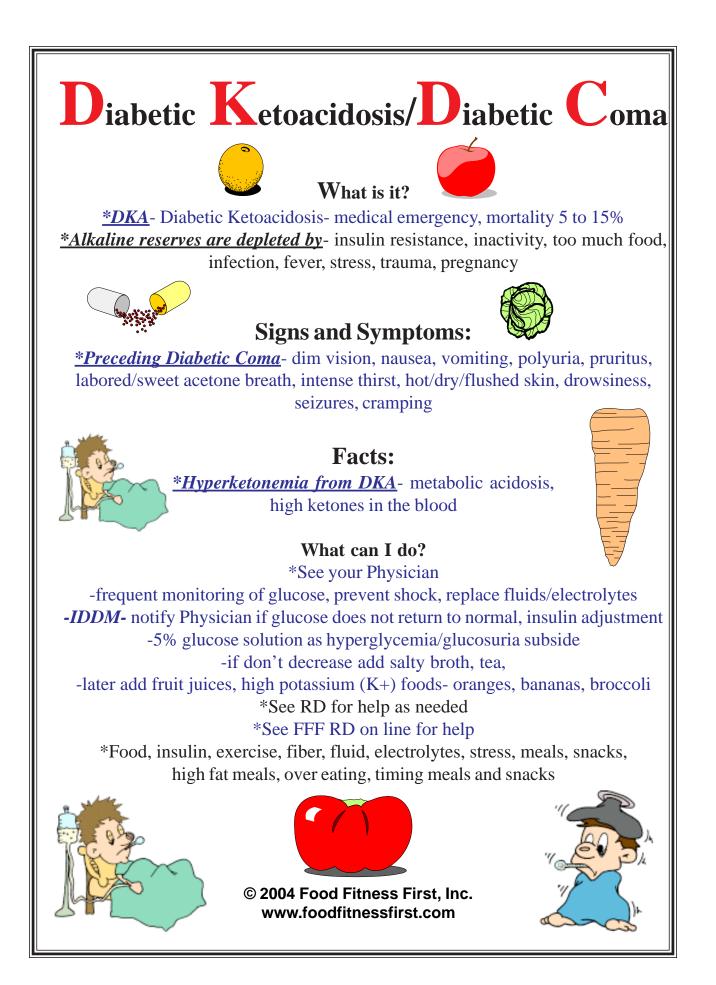
1800 Calorie

(Sick Day Management)

<u>Lunch:</u>	CHO Gms.
1c. Chicken Noodle Soup	15
2 ounce Cheese	0
6 Saltine Crackers	15
1/2c. Sugar Free Pudding	15
1 Popsicle Twin Bar	20
Unsweet Tea, Lemon Slice	0
Salt, Pepper	0

CHO Gms: Food: 1c. Whole Milk 15 Low Fat/Skim 12 1/3 c.Regular Jello 15 1t. Margarine/Fat 0 1/2 c.Vegetable 5 loz. Meat 0 1/2 cup Fruit/Juice 15 1/4 c. Sherbet 15 1/2 c. Custard 15







(Hypoglycemia)



What is it?

**Hypoglycemia*- abnormally low blood sugar, watch for excessive sweating, faintness, headache, hunger, pounding of heat, trembling, impaired vision, not able to awaken, irritability, personality change **Blood Sugar*- usually \leq 70 mg./dL

What causes it?

*Too much insulin*Exercising too much*Not eating enough food*Delayed meal*Excessive drinking of alcohol and denial of food

Is it Serious? YES

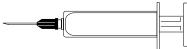
*Symptoms- Blurred Vision, Confusion, Dizziness, Drowsiness, Fast Heartbeat, Fatigue, Headache, Hunger, Irritability, Nervous, Trembling, Sleepiness Personality Change, Shaking, Skin pale and moist, Sweating, Tingling

What can I do?

*Take Glucose Tablets or 1 small piece of fruit, 1/2 cup fruit juice or cola, 1 cup milk, 2 large sugar cubes, 6 Lifesavers, 2 t. honey or corn syrup *Rest 15 minutes after taking and repeat if not feeling normal
*Eat 3 meals per day and 3 snacks that are higher in protein and lower in carbohydrates, see a Registered Dietitian for a meal plan

Checkups:

*See Physician as needed, if unconscious see immediately -Contact Physician when low Blood Sugar at home *Measure of blood sugar by Physician/Home Blood Sugar Tests *Medical History, Physical Examination, Blood Tests by Physician





High Blood Sugar (Hyperglycemia)

What is it?



<u>*Impaired glucose tolerance or high levels of blood glucose</u>resulting from defects in insulin secretion, insulin action, or both <u>*Type 1</u> – IDDM, include autoimmune, genetic, and environmental factors, usually children or young adults

<u>*Type 2</u> – NIDDM, usually include older age, obesity, family history, prior history of gestational *diabetes*, physical inactivity, impaired glucose tolerance, race/ethnicity-African Americans, Hispanic/Latino Americans, American Indians, some Asian Americans and Pacific Islanders

*Gestational – develops in 2 to 5% of all pregnancies but disappears when the pregnancy is over, higher risk include obesity and family history



Pre-Diabetes (maternal/age)- Impaired Glucose Tolerance What Causes it?

*Obesity, family history, age, decreased exercise, race, gestational diabetes, etc...

Is it Serious?

**Diabetes*- can be associated with serious complications and premature death **Complications of diabetes*: -heart disease, stroke, high blood pressure, blindness, amputations, kidney disease, dental disease, nervous system disease, and pregnancy complications

*More likely to die of pneumonia and influenza *Normal Blood Sugar- Fasting-80-120 mg./dL/before meals -After Meals- 150-180 mg./dL

What can I do?

<u>*Diet</u>- increase fresh fruits and fresh vegetables, *limit meat*-choose lean meats as chicken and fish: Broil, boil, bake, roast, stew, grill or stir fry *-Eat Whole Grains*- increased fiber; avoid sweets, desserts and replace with artificial sweeteners

-Choose low fat cheeses, milk, dairy, Speak with RD

**Exercise*- 15 to 20 minutes per day, monitor blood sugars, take medications.

Checkups:

*See MD at least 1 time per year-dilated eye exam, kidney function test, cholesterol panel, blood sugar and Hemoglobin A1C, Foot Exams







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Why is it important to SNACK? *Snacks- small, frequent meals

-stimulate the metabolism, easy to digest, may help to decrease weight by decreasing intake at mealtime if make good food choices as fresh fruits and vegetables with low calorie/low fat dips, cheeses, dressings

<u>*Snack Ideas</u>- air-popped popcorn, lowfat or nonfat cheeses, string cheese sticks
 Lowfat or a lower fat- granola bars, peanut butter, whole grains, cereals, cocoa, milk, sour cream, crackers, cookies, hotdogs, veggie or turkey burgers

-Baked- chips, pretzels, pita chips, tortilla chips *Extreme Hunger- we eat high fat, high calorie meals or snacks -choose lowfat or nonfat yogurt, ice cream or puddings

Suggestions:

<u>*Meals</u>- never go more than 3-4 hours between eating snacks or a meal -Graze throughout the day eating high fiber with small amounts of food, or even large amounts if needed at the beginning
 -Eat Slow- trying to make the most of every bite, taste your food -1 Bite at the time, chew your food thoroughly
 -Long periods of time- without food slows our metabolism <u>*Juices</u>- choose low sodium V-8 or Tomato Juice

What can I do?

*See your Physician for ideas

*See RD for help as needed *See FFF RD on line for help *** ***Choose - Calcium or Vitamin enriched or fortified snack foods, lower sodium/fat, high fiber

**Eat lots of*- FRESH FRUITS and VEGETABLES -<u>AVOID</u> FRUIT JUICES

-DRINK WATER or CAFFEINE SUGAR FREE COLAS

-Add- purple or red grapes as a daily snack, 1 ounce of nuts or flaxseeds,
 -Increase- Salads with lettuce, spinach, salad greens, radishes, cucumbers, tomatoes, bell peppers, mushrooms, Vidalia Onions, celery, pickles, broccoli, cauliflower, carrots, squash, *Pickles are High In Sodium



1800 Calorie Diabetic Snack

H.S. Snack = 1 Milk Exchange **1 Bread Exchange**





1 Milk Exchange is: 1 c. Skim Milk or 1 % Milk 1 envelope Alba 66 or Alba 77 **1 c. Low Fat Buttermilk** 3/4 c. Plain Nonfat Yogurt 1 c. 2 % Milk (1 Milk, ! Fat)

1 Bread Exchange is: 1/2 c. Bran Cereals



3/4 c. Ready to eat-unsweet cereals 1/2 c. Oatmeal 1 1/2 c. Puffed Cereal 1/2 c. Shredded Wheat 1/2 Bagel **5** Vanilla Wafers **2 Bread Sticks** 1/2 English Muffin **8 Animal Crackers 3 Graham Crackers 4 slices Melba Toast 24 Oyster Crackers** 3/4 oz. Pretzels **6** Saltine-type Crackers 3 c. Popcorn, popped, no fat added 2-5 slices Whole Wheat Crackers, no fat added (crisp breads, such as Finn, Kavli, Wasa) 1/2 c. Sherbet/Ice Cream 1/2 c. Frozen Yogurt 1/2 c. Sugar-free Pudding (made with skim milk)

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1 Fruit 1 Fat



1 Fruit is: 1 Apple, Orange, Peach 1/2 c. Stewed Apples 1/2 c. Applesauce 1/2 c. Fresh Fruit Cup 3/4 c. Blue or Blackberries **1 cup Cantaloupe** 1 1/2 c. Strawberries **2** small Tangerines **1 cup Raspberries** 1/2 cup Grapes **2 small Plums**



1 Fat Exchange is: 10 Peanuts 5 Pecan Halves **1 T. Cream Cheese 1 T. Sour Cream 1 slice Bacon** 1 t. Mayonnaise 5 small Olives, 3 large 2 T. Avocado **1 t. Butter or Margarine**



"CARB" Counting

Food List



1 Carb Exchange = 15 grams of Carbohydrate Pasta/Grains: Fruits/Juices:



 $\frac{1}{2}$ (1 oz.) bagel/bun/ croissant, medium/ English muffin/ $\frac{1}{2}$ pita 6"/6" taco shell 2.5 " biscuit-omit 1 Fat 1 slice bread 2 bread sticks-4" x $\frac{1}{2}$ " 2" cube combread-Omit 1 Fat 1 small muffin-omit 1 Fat 4" pancake-omit 1 Fat 4.5" waffle-omit 1 Fat

Cereals:

1/2c. Bran, sugarfrosted flakes. or cooked cereal ¹/₄ c. granola $1 \frac{1}{2}$ c Puffed cereal $\frac{3}{4}$ c. ready to eat cereal, unsweet

Crackers/Snacks:

8 animal crackers 3 graham crackers 2.5" sq. 3 c. popped popcorn ³/₄ oz, Pretzels, Chips, Matzoh 3/4 c. Berries, Mandarin 2-4" rice cakes 6 saltines or butter type cracker, 3 Gingersnaps 5 whole wheat crackers 6 Vanilla Wafers 1/2c.Corn Chips (omit 2 Fats) 1 T. Currants, 1 Tangelo 1c.Cheese Puffs (omit 1 Fat) 6 -3 Ring Pretzels, 25 Sticks 7 Ritz Crackers (omit 1 Fat)

1/2c. Chow Mein Noodles 3 T. Cornflake Crumbs 1 cup Croutons 1/2c. Chow Mein Noodlesomit 1 Fat, hominy, pasta, macaroni, noodles 1/3 c. rice- white, wild

Vegetables/Beans/Rice:

1/3 c. baked beans, humus, rice $\frac{1}{2}$ c. beans, peas, corn, grits, lentils, potatoes, pasta, grains-oatmeal, hominy, yam 16-25 Freedom Fries 1 Corn on Cob 2/3 c. lima beans

Fruits/Juices:

1 Apple, Peach, Pear, Plum, Orange, Kiwi, Nectarine, Fig 3 Lorna Doones (omit 1 Fat) 1/2 Banana, Grapefruit, Nec-1/2 c. Applesauce, Pineapple 3 Apricots, 1/3 Pomegranate Oranges, Pineapple, Melon Grapes-20 small, 10 large 2 Plums, Tangerines, Dates 3 Prunes, dried, Kumquats 2 T. Raisins, 1/4 Mango **4 Maraschino Cherries** 1/2c. Sour Red Cherries 1c.SportsDrink

1/2 c. apple, pineapple, grapefruit, orange 1/3 c. cranberry juice cocktail, fruit blend, grape, prune

Milk/Yogurt:

1 c. Fat Free Milk, 1%, 2%, Buttermilk, Yogurt sugar free fat free, plain yogurt

1/2 c. chocolate milk, evapo-

rated skim milk



Soups:

1 c. broth. chicken noodle bean, cream with water 1/2 c. split pea soup



Sweets:

1 1/4 inch square Angel Food Cake or Sponge Cake **4** Social Tea Biscuits tarine, Papaya, Ugli, 1 Guava 1 Plain Doughnut (omit 1 Fat) 1 Frozen Yogurt on a Stick 1/2 c. Vanilla Frozen Yogurt 1/2 c. Vanilla Ice Cream (omit 2 Fats) 1 Dairy Queen small ice cream cone- (omit 1 Fat) 1/4 c. Sherbet 2 Lady Fingers 2 T. Malted Powder



1/4 c. Regular Pudding

3 Brown Edged Wafers 1/4c.MealReplacement, 1/2c.FruitSmoothie/Carboloader, 3/4c.Soda, © 2004 Food Fitness First, Inc. www.foodfitnessfirst.com













Artificial Sweeteners

What are they?



**Non Nutritive*- saccharin, sucrolose, acesulfame K, aspartame--safe for daibetics or weight reduction

*Saccharin - 350 times sweetener than sugar

sugar is sucrose (sucrose-16 calories per teaspoon/4 gm.CHO (carbohydrate)) *Sucralose/Splenda- made from sugar, 600 times sweeter than sugar; used like sugar -used in baked goods, mixes, beverages, chewing gum, dairy, frosting, jams, confections, beverages,

salad dressings, and most any way imaginable

-potential side effect- may pose cancer or neurological risk, enlarged liver/kidney
 <u>*Acesulfame K (Sunett)</u>- 200 times sweeter than sucrose/sugar, best for baking
 <u>*Aspartame</u>/NutraSweet- 180 times sweeter than sucrose (contains phenylalanine), 4 calories per t. (teapsoon)

-Potential Side Effects- headache, seizures, nervousness, dizziness, memory impairment, nausea, depression, temper outbursts

<u>*Nutritive</u>- no evidence that nutritive sweeteners such as corn syrup, honey, molasses, and dextrose have an advantage over sucrose in improving blood sugar
 -Sugar Alcohols- mannitol, sorbitol, xylitol seem to lower blood sugar more than sucrose, if too much, acts as a laxative

 natural sugars with calories, slow absorption, < 60 gms./day, excess is converted to glucose, simple sugar rasies blood sugar, limits fat release

-Sorbitol- 50 times as sweet as sugar

-Xylitol- 16 Calories per teaspoon/4 grams CHO (Carbohydrate), sugarless gum and candy

**Tagatose*- levo-sugar, tastes like regular sugar, can't be used as energy, large amounts cause GI distress with nausea, diarrhea, flatulence

Why choose an artificial sweeteners?

**Helps reduce calories, glycemic index*- reduces tooth decay, used in Diabetic diets *Tastes sweet and clean without the calories

> What can I do? *See a Physician *See a Registered Dietitian or a FFF Registered Dietitian on line





