MANAGING YOUR DIABETES WITH NUTRITION

Presented By

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PRESENTATION GOALS

- Understand Carbohydrate Basics
- Select Quality over Quantity to Improve Blood Glucose and HbAlc
- Learn to Count Carbs when needed

CARBOHYDRATES

ARE THEY GOOD FOR YOU OR NOT?

YES!!!

NO !!!



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TERMS TO UNDERSTAND DIABETES BASICS

Hemoglobin AIC

Glycemic Index/ Load

Glycated Hemoglobin

Muscle Glycogen

CARBOHYDRATES ARE IMPORTANT

The Amount You Eat

The Quality You Select

FOUR OUT OF SIX GROUPS HAVE CARBS



Whole Grains

Fruits

Dairy Products

Vegetables

CARB BASICS: CHO = CARBOHYDRATES

A CHO serving = 15 grams

C= Carbon H= Hydrogen O= Oxygen

CARBS- MINIMUM AMOUNT FOR SAFETY

- Atkins- < 60 grams to produce ketones</p>
- South Beach Diet- Induction Phase -2 weeks < 60 grams to produce ketones</p>
- Joslin Diabetes Center and American Diabetes Association- ≥ 140g
- Sports: 50%-70% of the person's diet
- Cardiac: 50% or more of the person's diet

GOOD CARBS- WHOLE GRAINS 15G CHO PER 1/3 CUP CKD. SERVING

▶ Other Whole Grains: Rye, Spelt, Kamut, Barley, Amaranth



Whole Corn



Quinoa



Buckwheat



Rolled Oats



Whole Wheat



GOOD CARBS- LEGUMES 15G CHO PER 1/2 CUP SERVING

Chickpeas



Blackbeans



Kidney Beans



Lentils



Navy/Great Northern Beans



Black Eyed/Lima Beans



GOOD CARBS- WHOLE FRUITS-15G CHO EACH







I apple

I small pear

½ banana

I cup berries







15 grapes

I cup melon

3/4 cup pineapple

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GOOD CARBS- VEGETABLES 5 GRAMS CHO PER SERVING

I CUP RAW OR 1/2 CUP COOKED





GOOD CARBS-DAIRY PRODUCTS WITH NO SUGAR ADDED







16 grams per 8 ounces

8-10 grams/ 5.7 oz.

12 grams per 8 oz.

NUTRITION FACTS LABEL- CHO & FIBER

Nutrition Facts Serving Size 1 cup (4 Serving Per Contain			
Amount Per Serving			
Calories 75 Calories f	rom Fat 2	27	
		% Daily Value*	
Total Fat 3 g Saturated Fat 0 g		5% 0%	
Cholesterol 0 mg Sodium 300 mg		0% 4%	
Total Carbohydrate 1 Dietary Fiber 5 g	0 g	3% 20%	
Sugars 3 g Protein 2 g		2070	
Vitamin A 80% - Vitamin C 60%	6 - Calcium 4	% - Iron 4%	
* Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs: Calories: 2,000 2,500			
Total Fat Less than Sat Fat Less than Cholesterol Less than Sodium Less than Total Carbohydrate Dietary Fiber	65g 20g 300mg 2,400mg 300g 25g	80g 25g 300mg 2,400mg 375g 30g	
Calories per gram: Fat 9 • Carbohydrate 4	Protein 4		

The total carbohydrate tells how many grams of carbohydrate are in 1 serving.

Fiber has to be subtracted from the Total Carbohydrate

Total CHO (10g)
- Fiber CHO (5g)
5g Net CHO

The NET Carbohydrate is 5g

If the fiber grams is less Than 5, do not subtract From total carbs.

WHOLE GRAIN ONLY- NOT ENRICHED

INGREDIENTS: WHOLE WHEAT FLOUR

INGREDIENTS: WHOLE WHEAT FLOUR

(WHOLE GRAIN), WATER, SUGAR, WHEAT

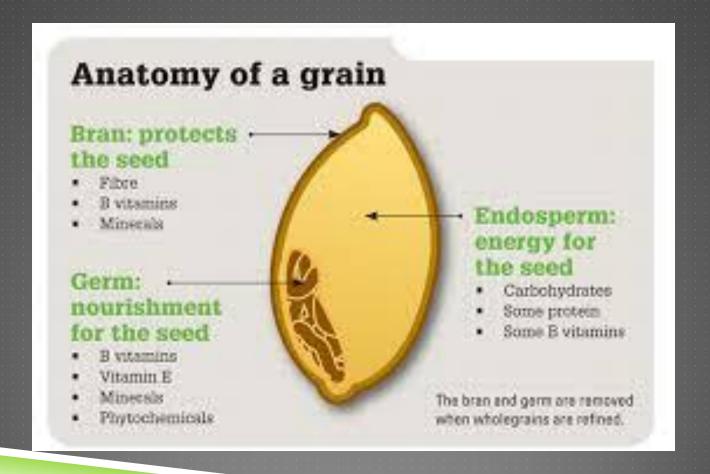
(WHOLE GRAIN), WATER, SUGAR, WHEAT

(NON-HYDROGENATED), HONEY, SALT,

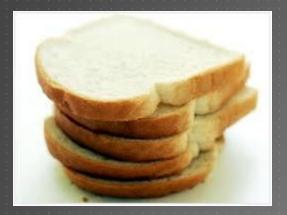
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WHOLE GRAIN BENEFITS



BAD CARBSPROCESSED/REFINED- DRIVES UP INSULIN















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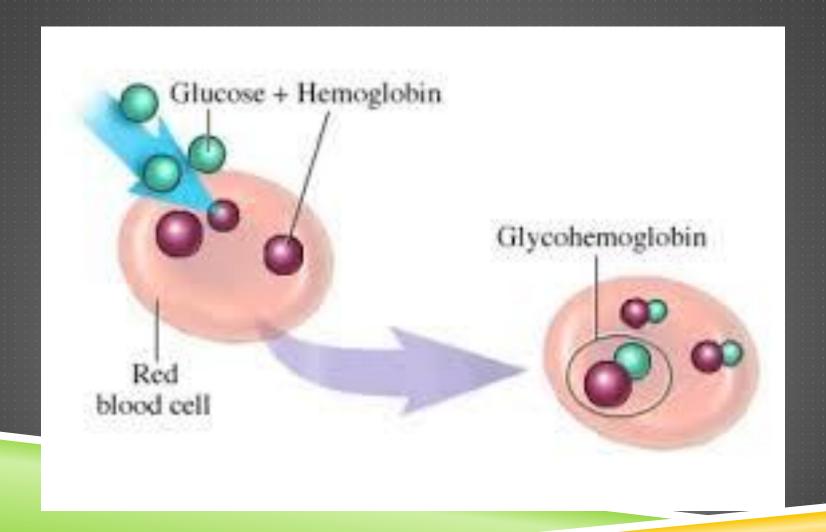
BAD CARBS-FAST ACTING CARBS- DRIVES INSULIN UP



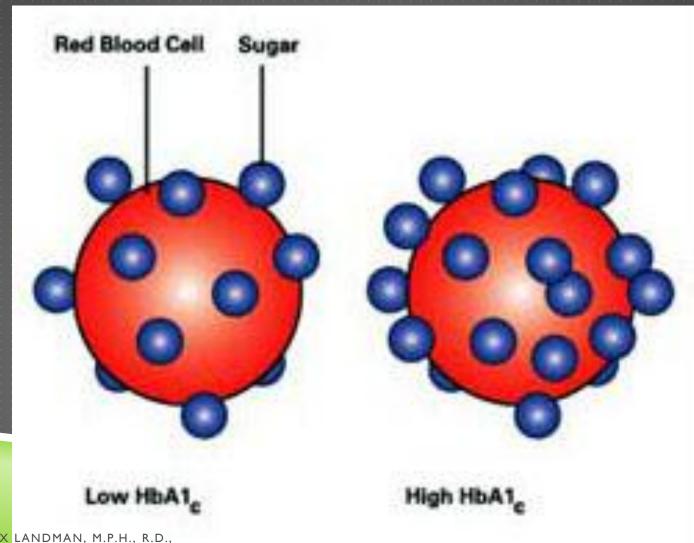




GLYCATED HEMOGLOBIN



GLYCATED HEMOGLOBIN

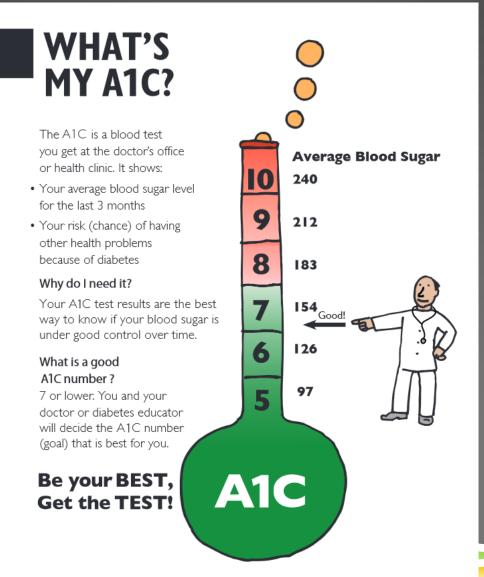


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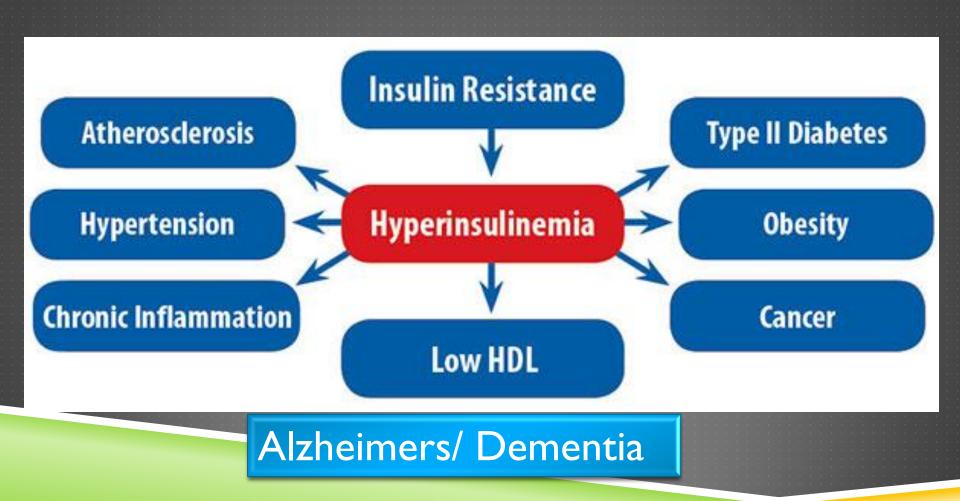
SPECIFIC GRAINS ARE ADDICTIVE: WHEAT, BARLEY, RYE, CORN- PRODUCING "GLUTEOMORPHINES" IN THE BRAIN



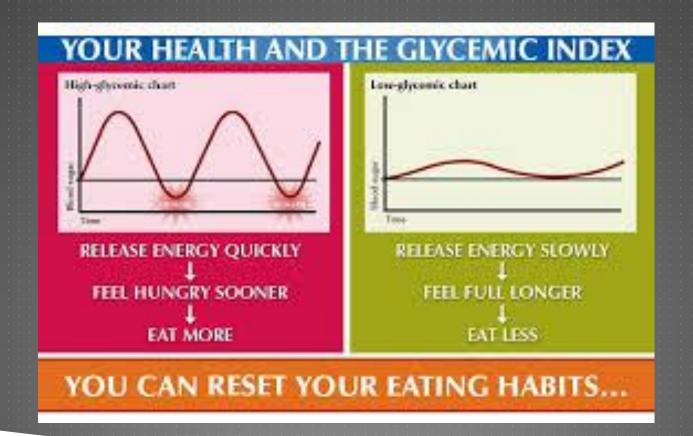
LEARNING ABOUT DIABETES.ORG



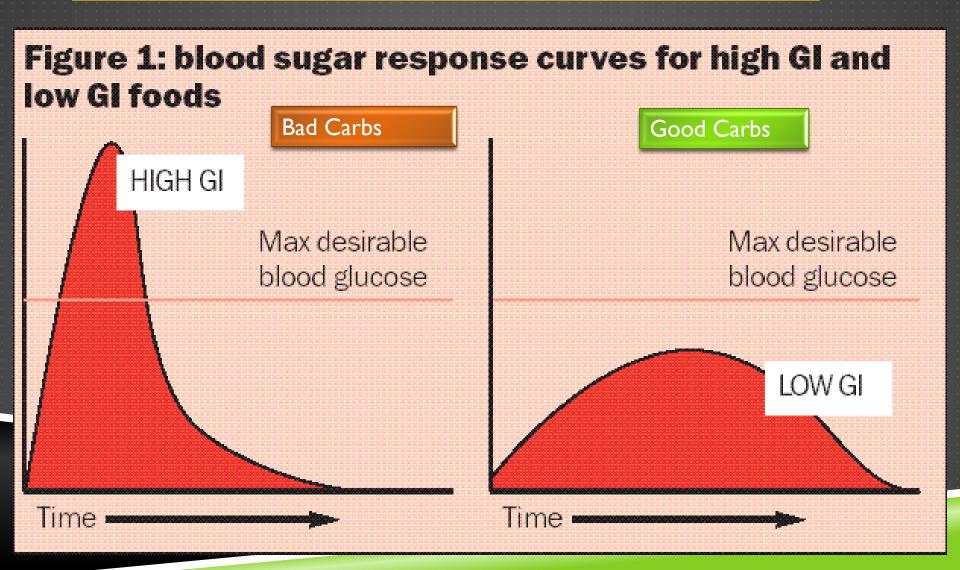
CONSEQUENCES OF HIGH BLOOD GLUCOSE – LEADS TO MANY DISEASES



EAT BELOW 50 ON THE GLYCEMIC INDEX



YOU CAN RESET YOUR EATING HABITS



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ITHE GLYCEMIC INDEX

The glycemic index, or GI, uses a scale of numbers from 1 to 100 to rank carbohydrate foods by how quickly a serving size of each raises blood sugar. Why is this important? Because carbohydrates, or carbs, such as rice, pasta, bread, and fruit, raise blood sugar more, and more quickly, than fats or proteins do.



Carbs with low glycemic index numbers (from I to 55) are better carbohydrate food choices for good blood sugar control because they raise blood sugar slowly.

Are you making good food choices to control your diabetes? To help you find out, check the table on the following pages, which list the glycemic index number of 100 commonly eaten carbs.

KNOW YOUR GARBS

Knowing how many carbohydrates (carbs) you eat can help you control your diabetes. Below is an easy way to find out how well you know your carbs. Circle only the food servings below that have about 15 grams of carbohydrate. If you get almost all of them right, great. If not, tell your doctor or diabetes educator you want to learn more about how counting carbs can help you control your blood sugar.

4



1 tablespoon of Sugar

0

В

F

1/2 Bagel

Control of the second

1 small apple

1/2 cup cooked beans

Ε



8 ounces of fat-free milk

1 cup cooked rice

3/4 cup of Cheerios or Wheeties Н

D

1 can of any regular soda

ı



1 medium (6 ounces) boiled potato



1/2 cup cooked oats

K

G



1 slice of whole wheat bread

L



1/2 large muffin

Μ



1/2 cup of pasta





0



1/2 cup of raw broccoli Р



DIABETES AND WEIGHT MANAGEMENT

Have a set amount of low glycemic high quality carbohydrate at each meal:

Example:

- Breakfast- 15, 30, 45, or 60 grams
- Lunch- 15, 30, 45, or 60 grams
- Dinner- 15, 30, 45, or 60 grams

KEY TO DIABETES AND WEIGHT MANAGEMENT

Carbohydrate Consistency at Meals

Know How Many Carbs You Need In a Day

Choose Whole. Unprocessed Carbs-Naturally High in Fiber

CARBOHYDRATE CONSISTENCY

Breakfast #1	Amount	СНО
Scrambled Eggs	2.	0
Spinach, Peppers	1/2 cup	0
Oatmeal- Rolled	1.5 cup	30
Apple	1	15
		45
Breakfast #2	Amount	СНО
Breakfast #2 Whey Protein Powder	Amount 2 scoops	CHO 0
Whey Protein Powder	2 scoops	0
Whey Protein Powder Blueberries	2 scoops 1 cup	0



30g CHO



15g CHO



15 g CHO



15g CHO



12 g CHO

CARBOHYDRATE CONSISTENCY

Lunch #1	Amount	СНО
Salmon Burger	3 oz.	0
Sweet Potato	1 cup	30
Broccoli	1 cup	0
Apple	1	15
		45
Lunch #2	Amount	СНО
Lunch #2 Turkey Burger	Amount 3 oz.	
		СНО
Turkey Burger	3 oz.	CHO 0
Turkey Burger Chili Beans	3 oz. 1 cup	CHO 0 30



30g CHO



15g CHO



30 g CHO



15g CHO

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LOW BLOOD SUGAR

(Hypoglycemia)

A low blood sugar can happen quickly. If not treated right away, low blood sugar can cause a medical emergency. You can even pass out.

Common causes: Skip a meal or not eat enough food; too much insulin or diabetes pills; more active than usual.

Warning signs include:



Shaky or dizzy



Blurry vision



Weak or tired



Sweaty



Headache



Hungry



Upset or nervous

What to do?



Check your blood sugar right away. If it is below 70, treat for low blood sugar. If you can't check, treat anyway to be safe.



Treat by eating 3 packets or 1 tablespoon of regular sugar, 4 ounces of regular fruit juice, or 6 ounces of regular (not diet!) soda.



Check your blood sugar in 15 minutes. If it is still low (below 70), treat again. If you keep having problems and you don't know why, call your doctor or health clinic.

DETERMINING CARBINTAKE

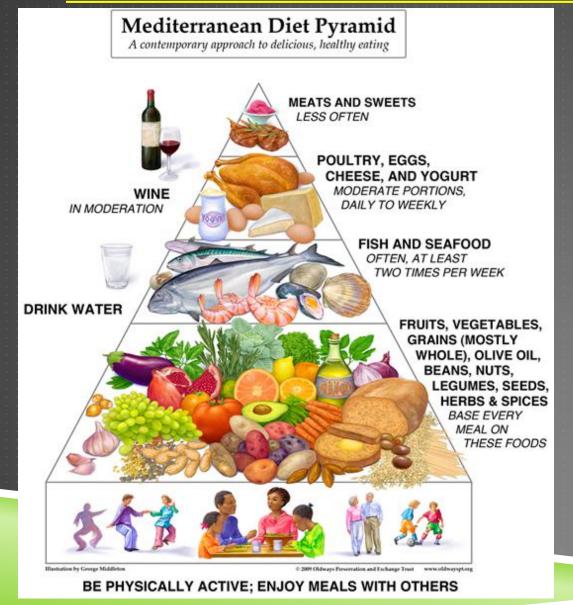
Younger ages- 0-30 yrs and athletes require higher carb intakes- 50-70 % carbs

People > 40 yrs., people with glucose management issues (diabetes), PCOS, and those desiring weight loss, need to control how much carbs they eat. 35-50% of total calories.

DETERMINING YOUR CARB AMOUNT

- Desired weight: 150 lbs add a zero to this = 1500
- ► 1500 / 50% = 750 calories
- > 750 calories / 4calories/gram of carb = 187 g CHO
- ▶ 187 g CHO / 15g per I serving 12.5 servings

DIABETES/CARDIAC- MEDITERRANEAN DIET



Research has shown reversal of cardiac and improved glucose symptoms following a Mediterranean Diet Many studies show quality counts more than quantity

MEDITERRANEAN DIET BREAKFASTS

Oats with Yogurt and Fresh Fruit

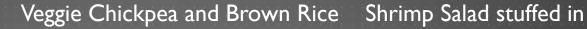
Poached Egg on Whole Wheat Pita and Veggies





MEDITERRANEAN DIET LUNCHES

Corn Veg & Bean Stew



Avocado





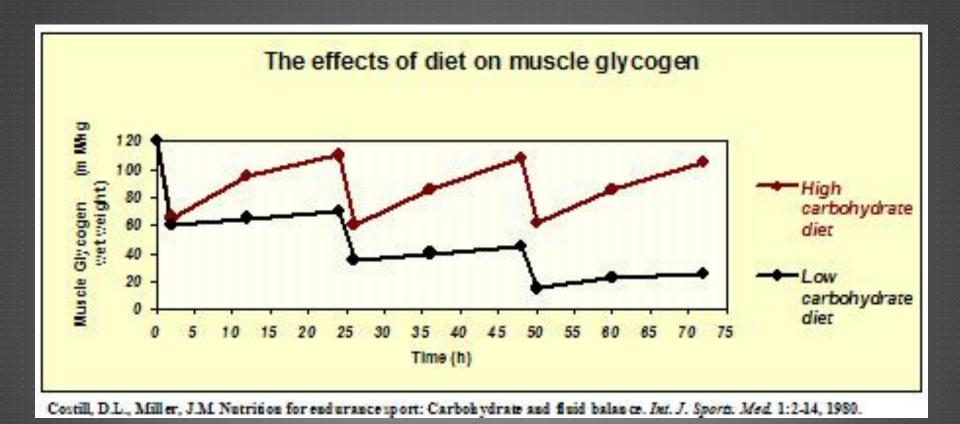


SPORTS NUTRITION- ATHLETES NEED CARBS AND EXERCISE LOWERS BLOOD GLUCOSE



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CARBOHYDRATES AND SPORTS



YOUNG PEOPLE EXERCISNG – FUEL THEM WITH GOOD CARBS TO MAINTAIN THEIR ENERGY- (AND MUSCLE GLYCOGEN)





LOTS OF EXERCISE NEEDED TO BURN FAT... 5 DAYS WEEKLY – 60 MINUTES DIET- CONTROLLED CARBS AND FAT



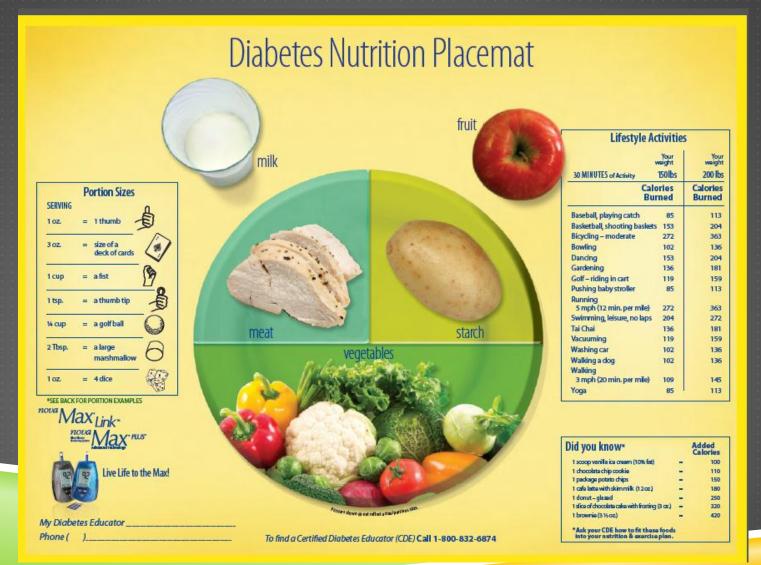


CARBOHYDRATE AMOUNT IS SAME AT BREAKFAST, LUNCH, DINNER

Meals	Monday	Amt.	CHOg	Tuesday	Amt.	CHOg	Wednesday
Break-	Rolled Oats	1.5 cup	30				
fast	Apple	1::::::	15				
	Egg	2	-: : : : :				
			45				
Snack							
a.m.	Peanuts	½ cup	6				
			6				
Lunch	Salmon Burger	4 oz.	2::::		: : : :		
	Sweet potato	1 cup	30				
	Broccoli	1 cup	= :::::::::::::::::::::::::::::::::::::				
	Banana	Half	15				
			45				
Snack	Greek Yogurt	5.7 oz	10				
p.m.	Almonds	15	3				
			13				
Dinner	Chicken breast	5 oz.	<u> </u>				
	Quinoa	1 cup	45				
	Spinach	1 cup	_: : : : :				
	Mixed Raw Salad	2 cups	4 : : : :				
	Olive oil & Vinegar	2 T.	<u> </u>				
Snack			45				
		→	154				
TOTAL	СНО		g				

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DIABETES PLACEMENT "PLATE METHOD"



SUMMARY OF CONCEPTS

- Learn the AMOUNT and QUALITY of the carbs you eat...take an inventory by keeping a daily food journal.
- Whole grain, beans, whole fruits, vegetables and no added sugar dairy products are the SAFEST CARBS to eat.
- For GOOD BLOOD GLUCOSE CONTROL, select both quality and the amount of carbs best for your health needs- Seek a dietitian for support and education.
- ► To EXCEL IN SPORTS, insure you have 50% or more carbs of total calories.
- For WEIGHT LOSS, eat less carbs of high quality: 35-50% of low glycemic unprocessed carbs.

DIABETES RESOURCES

- ▶ Dlife.com
- Learningaboutdiabetes.org
- Diabetes.org
- Cleananddelicious.org

IS YOUR BLOOD GLUCOSE IS > 150 HBAICIS > 7 HAVE TINGLING IN YOUR HANDS OR FEET DON'T KNOW WHAT TO EAT TO IMPROVEYOUR HEALTH...

DIETITIAN TO THE RESCUE!!!



Thank You For Attending!

Happy Holidays!!!

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