FOOD AND FITNESS

June 2018

Volume 191

Understanding the Meanings of Both Glycemic Index and Glycemic Load



Every food we eat affects our bodies in different ways especially when referring to blood sugar and energy levels. The terms glycemic index and glycemic load are both related to blood sugar. Also, both are used when talking about diabetes and preventing insulin resistance. So the question is, what are they and how are they different?

As for the glycemic index (GI), is a ranking system that ranks food on a scale of 1 to 100 on how it affects the blood sugar. Foods with a low GI value (55 or less) are more slowly digested and cause a slower and lower rise in the blood glucose levels. The GI value accounts for how it raises blood sugar, affects insulin secretion, the stimulation of fat-storage mechanisms, and how it affects the pancreas. The low levels are classified as 55 or less,

moderate at 56-69, and high at 70+.

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Understanding the Meanings of Both Glycemic Index and Glycemic Load

The glycemic load (GL) is defined as the function of carbohydrate intake and the glycemic index. The GL combines both the quality and quantity of carbohydrates that the GI does not take into account. The best part about the GL is it takes into account all parts of the foods as a whole, making it a completely different number than that of the GI. The GL is calculated using the GI multiplied by the grams of carbohydrates per serving size and then divide by 100. The confusing part is that foods can sometimes have a high GI, but have a low GL. When this happens, it can mean that the food can be better than originally thought with the GI value. The values are classified differently than the GI. For GL, low is a value of 10 or less, medium is at 11-19, and high values are 20 or more. It is recommended that a GL of 100 or less is for optimal health. However, most people fall in the range of 60 to 180.

When choosing to follow the method of choosing foods with a low glycemic

load, there are some basic strategies to follow. Increasing the amount of whole grains, nuts, legumes, fruits and non-starchy vegetables. Lowering the amount of high and moderate GI foods. Lastly, avoiding foods that have a high sugar content like cakes, cookies, and sugar sweetened beverages.

Table 1. Gl and GL Values for Selected Foods					
Food	Gl (Glucose=100)	Serving Size	Carbohydrate* per Serving (g)	GL per Serving	
Russet potato, baked	111	1 medium	30	33	
Potato, white, boiled (average)	82	1 medium	30	25	
Puffed rice cakes	82	3 cakes	21	17	
Cornflakes	79	1 cup	26	20	
Jelly beans	78	1 oz	28	22	
Doughnut	76	1 medium	23	17	
Watermelon	76	1 cup	11	8	
Soda crackers	74	4 crackers	17	12	
Bread, white-wheat flour	71	1 large slice	14	10	

Table 1. Gl and GL Values for Selected Foods				
Food	Gl (Glucose=100)	Serving Size	Carbohydrate* per Serving (g)	GL pe Servir
Pancake	67	6" diameter	58	39
Rice, white, boiled	66	1 cup	53	35
Table sugar (sucrose)	63	2 tsp	10	6
Dates, dried	62	2 oz	40	25
Spaghetti, white, boiled (20 min)	58	1 cup	44	25
Honey, pure	58	1 Tbsp	17	10
Pineapple, raw	58	½ cup	19	11
Banana, raw	55	1 cup	24	13
Maple syrup, Canadian	54	1 Tbsp	14	7
Parsnips, peeled, boiled	52	½ cup	10	5
Rice, brown, boiled	50	1 cup	42	20
Spaghetti, white, boiled (average)	46	1 cup	44	20
Whole-grain pumpernickel bread	46	1 large slice	12	5
All-Bran™ cereal	45	1 cup	21	10
Spaghetti, whole-meal, boiled	32	1 cup	37	14
Orange, raw	42	1 medium	11	5
Apple, raw	39	1 medium	15	6
Pear, raw	38	1 medium	11	4
Skim milk	33	8 fl oz	13	4
Carrots, boiled	33	½ cup	4	1
Lentils, dried, boiled	29	1 cup	24	7
Kidney beans, dried, boiled	28	1 cup	29	8
Pearled barley, boiled	28	1 cup	38	11
Cashews	25	1 oz	9	2
Peanuts	18	1 oz	6	1

*Amount of available carbohydrates in a food serving that excludes indigestible carbohydrates, i.e., dietary fiber.

Fruit—Avocado

The avocado throws a bit of a curve ball to when heard that it is in fact a fruit. Even more questions come when it is announced that not only is it a fruit, it is classified as a berry. The pulpy flesh and seed puts the avocado into the berry and fruit group. They are in the shape of a pear and the outer leather skin in green or black in color. The inside of the avocado is green with a large brown seed.



Caloric Ratio Pyramid 🚱 What is this?						
Caloric Ratio	Caloric Ratio Pyramid for Avocados,					
raw, California	9					
This feature requires Flash player to be installed in your browser. Download the player here.						
19%	77%	4%				

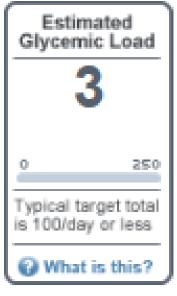
Fats.

Protein.

Avocados have around 20 vitamins and minerals. Avocados are predominantly fat. However, it is the "good" fat. The avocado provides monounsaturated fats which are known to lower cholesterol when eaten in moderation. The avocado's recommended service size is about 1 ounce which is about 1/5 of a whole avocado and accounts for nearly 50 calories.

Avocados can be eaten a variety of ways. The most common is in the use of guacamole but can be in anything like salads, wraps, smoothies, or as a fate replacement in baking. Try avocados in a variety of ways because this magnificent fruit is packed with nutrients.

NutritionData's Opinion	What is this?				
Weight loss:	***				
Optimum health:	***				
Weight gain:	***				
The good: This food is very low in Cholesterol and Sodium. It is also a good source of Dietary Fiber, Vitamin K and Folate.					



Carbs

Joke: What do
you call an
avocado that's
been blessed by
Pope Francis?
Holy
Guacamole.

Serving size: 1 fruit, without skin and seed (136g) 🗸

Amounts per 1 fruit, without skin and seed (136g)



Amounts Per Selected S	erving	%DV
Calories	227 (950 kJ)	11%
From Carbohydrate	42.7 (179 kJ)	
From Fat	175 (733 kJ)	
From Protein	9.0 (37.7 kJ)	
From Alcohol	~ (0.0 kJ)	

Carbohydrates					
Amounts Per Selected Serving		%DV			
Total Carbohydrate	11.8 g	4%			
Dietary Fiber	9.2 g	37%			
Starch	0.1 g				
Sugars	0.4 g				

More details ▼

Amounts Per Selected Serving		%D\
Total Fat	21.0 g	329
Saturated Fat	2.9 g	149
Monounsaturated Fat	13.3 g	
Polyunsaturated Fat	2.5 g	
Total trans fatty acids	~	
Total trans-monoenoic fatty acids	~	
Total trans-polyenoic fatty acids	~	
Total Omega-3 fatty acids	150 mg	
Total Omega-6 fatty acids	2298 mg	

More details ▼

Protein & Amino Acids			
Amounts Per Selected Serving		%DV	
Protein	2.7 g	5%	
	More o	letails 🔻	

Vitamins		
Amounts Per Selected Serving		%DV
Vitamin A	200 IU	4%
Vitamin C	12.0 mg	20%
Vitamin D	~	~
Vitamin E (Alpha Tocopherol)	2.7 mg	13%
Vitamin K	28.6 mcg	36%
Thiamin	0.1 mg	7%
Riboflavin	0.2 mg	11%
Niacin	2.6 mg	13%
Vitamin B6	0.4 mg	20%
Folate	121 mcg	30%
Vitamin B12	0.0 mcg	0%
Pantothenic Acid	2.0 mg	20%
Choline	19.3 mg	
Betaine	1.0 mg	

More details >

Minerals		
Amounts Per Selected Serving		%DV
Calcium	17.7 mg	2%
Iron	0.8 mg	5%
Magnesium	39.4 mg	10%
Phosphorus	73.4 mg	7%
Potassium	689 mg	20%
Sodium	10.9 mg	0%
Zinc	0.9 mg	6%
Copper	0.2 mg	12%
Manganese	0.2 mg	10%
Selenium	0.5 mcg	1%
Fluoride	~	

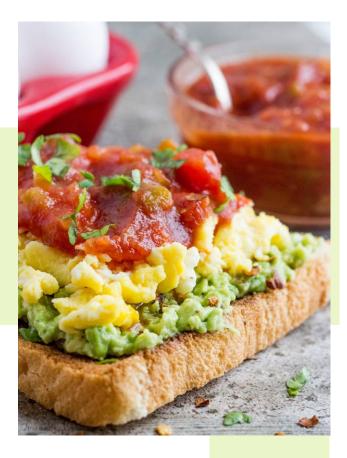
Southwest Avocado Toast

Ingredients:

- 2 pieces bread, toasted
- 1 avocado, peeled and seeded
- 2 tsp cilantro, plus more for garnish
- Juice of 1/2 lime
- 1/4 tsp cayenne powder
- 1/2 tsp red pepper flakes
- Salt and pepper
- 2 eggs, scrambled
- Salsa

Directions:

- In bowl mix together your avocado, cilantro, lime, cayenne, red pepper flakes and salt and pepper and stir until mashed.
- Spread half mixture on each of your pieces of toast.
- Top with your scrambled eggs and desired amount of salsa.
- Garnish with cilantro if desired.



Recipe Received From: https://tornadoughalli.com/southwest-avocado-toast/

Don't Just Exercise Your Body, Workout Your Brain!

WILDFLOWERS

Find the words in the grid. When you are done, the unused letters in the grid will spell out a hidden message. Pick them out from left to right, top line to bottom line. Words can go horizontally, vertically and diagonally in all eight directions.

POPBARKOVE LAL L O R O D S O R - 1 Τ S F 0 Т В M S R O U Ε K 0 D D O Υ Т Ν S D S F R 0 Μ R M Ε Р Ε Ε Ε N W U U Н K Ν NE S S L 0 R Α C Ν F S 0 V C FRAG F

By Evelyn Johnson - www.qets.com

Annual Root Daisy Anther Family Rose Flower Sage Bark Blossom Genus Seed Larkspur Bud Stem Sunflower Clover Leaf Corolla Vines Poppy

June 2018

Monthly Observations

C	3.6	m	XA7 1	rm1	г.	c .
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
					National	National
					Dough-	Rocky
					nut Day	Road Day
_		_	6	_	8	_
3 Domant	4	5	0 National	7 National		9 National
Repeat Day	National Cheese	Balloon	Garden-	Choco-	Best Friends	Straw-
,	Day	Day	ing Ex-	late Ice	Day	berry
			ercise Day	Cream Day		Rhubarb Pie Day
10		10	-	•	15	16
10 Herb	11 National	12 National	13 National	14 Elea Dev	15 S:10	
and	Corn on	Peanut	Weed	Flag Day	Smile Power	Fresh Veggie
Spices	the Cob	Butter	Your		Day	Day
Day	Day	Cookie Day	Garden Day			
17	18	19	20	21	22	23
Eat Your	Interna-	_	Ice	Interna-	National	National
Vegeta-	tional	Kissing	Cream	tional	Choco-	Pink
bles Day	Picnic	Day	Soda	Yoga	late Éclair	Day
	Day		Day	Day	Day	
24	25	26	27	28	29	30
Swim a	National	For-	Sun	Insur-	Hug	Meteor
Lap Day	Catfish	giveness	Glasses	ance	Holiday	Day
	Day	Day	Day	Aware- ness Day		
				ness Day		



- National Fresh Fruit and Vegetables Month
- > Aquarium Month
- > Candy Month
- > Dairy Month
- Fight the Filthy Fly Month
- National Gardening Month
- National Accordion Awareness Month
- National Adopt a Cat Month
- > Rose Month
- > Turkey Lovers Month



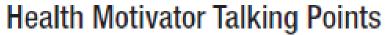
Health Motivator Tips

June

Liver and Blood Health

By Cheryl Kaczor, WVU Extension Agent – Marshall County

Monthly Challenge: Get your blood pressure checked this month.



The liver is an organ on the right side of your abdomen. It is important to the body's digestive system. Nutrients you absorb from foods and beverages you consume all pass through the liver. Nutrients are prepared to go to every part of the body to do their jobs. The liver also gets rid of toxins from the blood before the blood circulates through the body.

About 8 percet of an adult's body weight is blood. We need blood to transport things around the body. Blood transports:

- Oxygen and carbon dioxide between the lungs and the rest of the body.
- · Nutrients from the digestive tract to the rest of the body.
- Waste products to be purified or removed by the liver and kidneys.
- · Heat to the skin to help regulate body temperature.

How can you keep your blood and liver healthy?

- . Eat foods from all the food groups. Limit fat, sugar and salt.
- Stay hydrated by drinking plenty of water all day long.
- Be active every day. Exercise improves circulation and increases oxygen to the blood.
- Avoid too much alcohol and take your medications as prescribed.
- Have regular checkups. Keep blood pressure in a healthy range.



Chuckle of the Month:

Two blood cells met and fell in love, but it was all in vein



Quick Club Activity:

Keep the Blood Flowing

- Form a circle. Pass a ball
 or object around the circle.
 Move it as quickly as
 possible. (Suggestion:
 blow up a few balloons
 and label them "oxygen,"
 "water," "food," "medicine,"
 "alcohol," "waste," etc.)
- Keep the ball going! This
 is how our blood flows
 through our body. We don't
 want our blood to stop. We
 want it to move quickly
 and do its job transporting
 everything through our body.
- Talk about what may happen if the blood gets held up. How do you keep your liver and blood healthy?
- 4. Share the Monthly Challenge.

Learn More

www.Liverfoundation.org

https://www.niddk.nih.gov/healthinformation/liver-disease

FH07.367



West Virginia Bureau of Senior Services



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Brain Exercise Answers



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