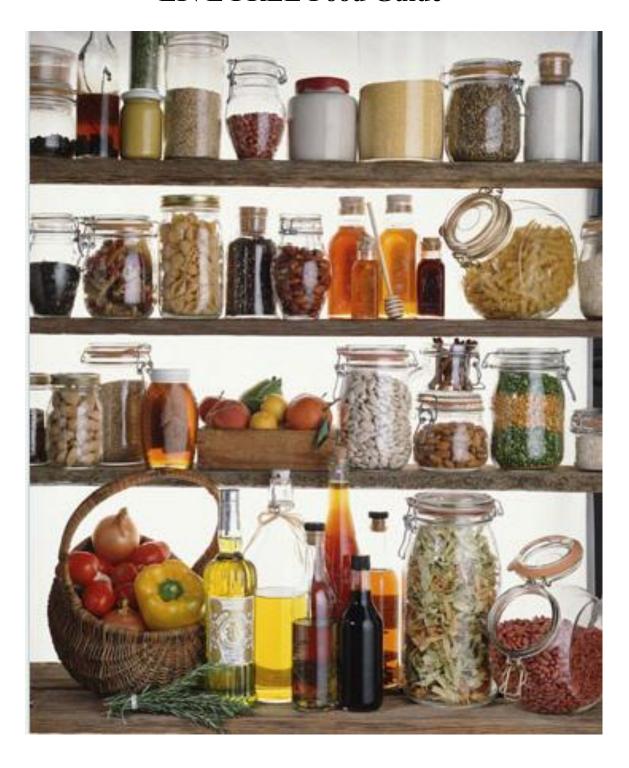
Blood Sugar Central LIVE FREE Food GuideTM



Blood Sugar Central LIVE FREE Food GuideTM

CAUTIONARY NOTE: The LIVE FREE Food GuideTM is designed to promote awareness about blood sugar and diabetes control and to provide information, tools and techniques that will enable individuals to make healthy lifestyle changes.

The coaching matarials & techniques are not intended to replace medical advice or to address any individual's specific medical problem(s). Always seek the advice of a physician before beginning any diet, exercise, or nutritional program. Diabetes and pre-diabetes or other related health issues are serious medical conditions. It is important that program participants do not reduce, change or discontinue any medication or treatment without consulting their physician. You should also check with your physician if you have any questions about food choices that need to be made in the context of your state of health or treatment plan. You should not change any dietary recommendations given to you by your physician or CDE or other nutritionist without consulting your physician first.

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Introduction & FAQ's

What is the LIVE FREE Food Guide™?

The LIVE FREE Food Guide™ is a tool designed to help you to develop a personal food plan that is a self-motivated vision of how you want to eat to support your health. Using this guide, you are determining what you want to eat, when you want to eat, and how much of certain foods you want to eat on a day-to day basis.

The guide is the foundation for learning how to eat and LIVE in new ways that:

- moderate blood sugars and insulin response in order to address the root cause of blood sugar health issues and yo-yo weight gain,
- and support you in creating a life in in balance that is FREE from cravings, dieting, and daily habits that sabotage your efforts.

It is a holistic approach that empowers you to change your life Physically, Mentally and Spritually.



Changing body composition with the types of food & exercise that support---

- creating a healthy, balanced physical state that allows your body mechanisms to function in harmony so that:
 - Physical cravings will decrease,
 - Your body's insulin response will be moderated,
 - Your body will not store excess fat,
 - You will maintain muscle that effectively burns fat,
 - You will gain control of your blood sugar levels, and
 - You will be supported in maintaining a normalized blood sugars and healthy weight for the long term

Mentally

- Developing Self Awareness (Vision & Intention)
- Having a Willingness to Change
- Achieving Change Through Self-Empowerment

Spiritually

- Practicing Gratitude
- Managing Stress
- Eliminating Worry
- Creating Balance
- Enjoying Life





What are the LIVE FREE Food Guide™ Components:

The Food Guide consists of:

- Guidelines for what to eat and corresponding food lists, and
- A strategy to help you choose foods that support your health goals comprised of corresponding Success Habits relating to "how" to eat and live on a daily basis so that you can stay on track.

Why is the FOOD PLAN comprised of 2 Phases:

The LIVE FREE Food Plan™ is comprised of two phases to accommodate the differing needs of BSC community members, clients and other program participants.

LIVE FREE for BreakThrough Results (Phase #1) is a more restricted food guide and it is designed to support individuals who are seeking more rapid specific results within a designated time period.

LIVE FREE for Lifestyle Changes that Last a Lifetime (Phase #2) is designed to enable participants to consume a wider variety of foods while maintaining their desired blood sugar levels and weight for the long term. In general, Phase #2 is meant for those who want more flexibility, have attained their short term goals and are seeking long term solutions for maintaining vibrant health or who are comfortable with a slower pace for attaining specific health objectives.

How do I know which Phase is right for me?

The Breakthrough Phase is designed for individuals who are:

- Newly diagnosed as diabetic or pre-diabetic, and seeking to get currently high blood sugar levels under control within a specified time period
- "Veteran" diabetics struggling with high blood sugars who want to get their high blood sugars under control.
- Seeking to lose weight and reach specific goals in a specified time period
- Experiencing a weight loss plateau and want to break through that plateau
- Experiencing a medical need or life situation where they need to see certain results in the short term and/or within a specified time frame

The Lifetime Phase is designed for individuals who:

- Are diabetic or pre-diabetic and currently have their blood sugars under control) and are looking for a plan to stay on track and implement lifetime success habits
- Want to lose weight in small, steady increments and are comfortable with a slower weight loss result
- Have reached their goal weight and are seeking a plan to maintain their weight loss and stop "dieting
- Are looking for ways to eliminate insulin resistance for lifetime results
- Are seeking a flexible plan to eat and live in a more blood sugar/insulin friendly way for the long term

Can I move back and forth between Phase 1 & 2?

- The timing of using the phases is flexible. Individuals can start their program with Phase 1 or 2, based on their needs, and they can move between the two phases anytime. The two phases have been provided so that you can address changing life situations. For example:
 - You may be using the Phase 1 Guide and determine that you need more flexibility while on vacation. In this instance, you can switch to Phase 2 while away, and then go back to Phase 1 when you return home.
 - If you started with Phase 1, moved to Phase 2 and discover that you need some restrictions due to higher blood sugar levels or unwanted weight gain, you can revert back to Phase 1.

Why is the LIVE FREE Food Guide different than a "diet"

One of the big differences between implementing the LIVE FREE Food Guide and going on a "diet" is that with LIVE FREE you are developing a long term approach to controlling blood sugar levels and moderating your body's insulin response using a flexible three pronged approach to:

<u>"CROWD OUT"</u> foods that cause sharp rises in blood sugars and insulin. These are foods you want to avoid. No food is "off limits", but certain foods should be included very, very sparingly on special occasions. The only exception is that you should eliminate foods if they are a "trigger food" or based on your biochemistry your blood sugars rise sharply after consuming

<u>"ADD IN"</u> the foods that support blood sugar health. These are foods that you can include on a daily or weekly basis.

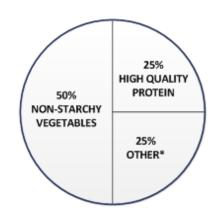
Include "QUALITY" CARBOHYDRATES based on their:

- Type (Simple Carbs vs. Complex Carbs that moderate the blood sugar & insulin response)
- Processing (less processing is generally better for blood sugar control)
- Amount (determine if you can include a food with higher amount of carbs by eating a smaller portion, examples: Blueberries, Beans)

You will want to flip-flop the typical meal that focuses on lots of protein and large portions of carbohydrates to meals with MORE non-starchy vegetables accompanied by healthy protein, and small portions of healthy fats and other foods that moderate the blood sugar & insulin response.











Keto or Low Carb?

The LIVE FREE Food Guide is designed to incorporate aspects of Low Carb food plans, which actually exist on a "continuum from very low (Keto) to more moderate amounts of carbohydrates.

There is no definitive definition for what constitutes Low Carb. What is low carbohydrate for one person may not be for another.

Basically, all low carb food plans are designed to reduce the number of carbs you eat from your norm. As a general rule, however, a "Low Carb" diet typically includes anywhere from 50 to 100 grams (g) of carbohydrates per day. Below that amount is considered a ketogenic diet, while 100 to 200 grams of carbohydrates per day is generally considered a moderate-carb diet.

Some plans are based on "net carbs" (total carbohydrate amount minus fiber + sugar alchohols*) while others calculate daily carbohydrates based on total carbohydrate amount.

*NOTE: some plans only permit subtracting full amount of the sugar alcohol erythritol (and ½ of any other sugar alcohol such as maltitol)

The LIVE FREE FOOD GUIDE IS NOT designed to be the basis for a KETO food plan or to put you in a state of Ketosis., It is highly recommended that if you desire to consume the grams of carbs required for you to be in a state of Ketosis that you work with your physician to do so.

The LIVE FREE Guide is designed to be flexible and to enable you to reap the benefits of a LOW or Moderate Carbohydrate food plan that will moderate blood sugar levels and the insulin response.

- Phase 1 provides guidelines that will easily enable you to stay in a Low Carb range without a significant amount of carb counting. Using the food list as your guide, as you select the foods that you will consume daily. You can choose how and when you want to count carbohydrates based on what is comfortable for you, and you can determine whether you want to track Net or Total carbohydrates.
- Phase 2 is designed to provide more flexibility and to add in certain foods such as Low to Medium glycemic fruits that will increase your amount of overall carbohydrates, while still keeping you in a Moderate Carbohydrate range.



Tips for Making the LIVE FREE Flood Guide™ Work for You

- Keep one thing in mind. A particular food is not inherently good or bad. But, there are food choices that based on your particular physical condition lead you either towards or away from your goals and vision of health. How you choose is up to you.
- Keep it simple: Any plan that is overly complicated will soon be discarded, and before you know it you will be back to your old eating habits. If you develop a simple, easy to implement food plan that is grounded in sound nutritional and behavioral concepts, you will find that before long you will start to internalize the plan, and making food choices within the context of the plan will become second nature.
- Balance consistency with flexibility: Planning what you will eat on a daily basis will enable you to avoid the pitfalls of impulse eating. The more predictable your food intake is, the more predictable your glucose levels are going to be, and the more accurately your medication and exercise needs can be tailored to support them.
- Develop a plan that fits your lifestyle and supports your overall vision of health: It is critical that your food plan is one that you are prepared to live with on a day-to-day basis, and so it needs to fit your lifestyle and particular needs. For example, if you are a vegetarian, you will want to incorporate ways of getting your protein from sources other than animal foods. If you have a hectic professional life or eat on the road often, you need to take these situations into consideration.
- If you are diabetic, check your blood sugars about 2 hours after eating. The bottom line is that it doesn't matter whether you are told you can or cannot eat a certain food. All that matters is how your body reacts to it. If your blood sugars are higher than they should be two hours after eating a certain food, it is not a good choice for you. Forget what the experts say, what is your body telling you?



Phase #1: LIVE FREE Guide for BreakThrough Results

Strategies That Get Results

- Eat a wide variety of foods centered around:
 - o 50%: nutrient-dense non-starchy vegetables
 - 25%: high quality protein, and
 - o 25%: Small amounts of the following foods:
 - Healthy Fats (oils, nuts/seeds, avocado)
 - Dairy (low sugar/low lactose)
 - Low Sugar/Fructose Fruit (Avocado, Shredded Coconut, Lemon/Limes)
 - Healthy desserts made with stevia, monk fruit, erythritol or a combo of any of these (eat very sparingly during Phase 1)
- Choose "Quality Carbohydrates wisely (Consider Type, Processing and Amount) Guidelines for the Breakthrough plan include:
 - o "Crowd Out":
 - White Potatoes
 - Rice (all forms)
 - Whole Grains (all forms, including quinoa)
 - Grain-Based Flour Products
 - o "Add In"
 - Non-Starchy Vegetables
- Eliminate all forms of Added Sugar in your home pantry, and judiciously use substitutes such as Stevia, Erithrytol or Monk Fruit.
- Increase fiber. (try to include at least 25-30 grams of fiber daily)
- Eat breakfast within an hour of waking or alternatively practice 16:8 or another form of intermittent fasting (whichever provides you with the best results)
- Consume enough water. (and other healthy liquids).
- Adopt new habits that improve not just what you eat, but HOW you eat (Eat on as regular a schedule as possible, watch portion sizes, avoid overeating and learn to eat mindfully)
- Be prepared. (at home and out of the house).
- Create an environment that supports your food plan and vision of health.

PHASE 1 Food Guidelines "Snapshot"

Stay Hydrated with Water or Tea (Green, Rooibos, Black)						
	WHEN IN DOUBT, CHOOSE WHOLE FOODS.					
ADD IN:	Non-Starchy Vegetables – 50%					
	Cooked or Raw					
		Smoothies (no fruit	other than avo	cado or		
	shredded coconut)					
	Green/Veggie					
		HEALTHY PROTE	EIN – 25%			
 Lean/Grass Fed Beef, Organic/Free Range Poultry, Lean Pork Fish (Best: High Eco Rating, low mercury content, high Omega 3 content) Exam Wild Salmon, Sardines, Herring, Sablefish, Albacore Tuna from U.S./Canada, Fa Raised Oysters) 						
	,	r Soaked, maximum- one S I highly processed soy prod				
	Eggs, Yogurt, Kefir,	Cheese (see food list)	2000)			
	Protein Powder (wheel)	ey protein or plant based)	0.50/			
DON'T OVER EAT these nutrient	4	Small Portions - 25%				
rich foods:	Starchy Vegetables (Peas) Fruit (Lemon, Avocado, Coconut, Tomato)					
	Healthy Fats (Olives, Olive Oil, Coconut Oil, Avocado) Nuts/Seeds					
	Dairy (cheese, milk, cream, sour cream, cottage cheese, cream cheese) (Low Sugar/Low Lactose. Fat% is determined by your state of health. Check with your physician if you have questions.)					
ENJOY						
Occasionally	Dark Chocolate (Sweetened with Stevia, Monk Fruit, Erythritol) Stevia, Monk Fruit Sweetener, Erythritol					
EAT SPARINGLY	Sugar Alternatives (Sugar Alcohols, Splenda, etc.)	Fish with low eco- rating, high mercury, low omega 3 content (Examples: Farm Raised Salmon, Tilapia)	Saturated Fats (any fat that turns solid) Butter is OK, just don't overdo it.	Coffee		
		Highly Processed Soy Products	(Grass Fed is best)			
Totally Avoid	Foods with more than 1-2 Grams added sugar Grains/Grain-Based	High fat, processed meats (i.e. hot dogs)	Trans Fats	Soda (Regular or Diet)		
	Flour Products Fruit Aspartame High fructose corn syrup.	Fish high in contaminants				

Phase 1 Daily Food List

CROWD OUT: White Potatoes → Rice → Grains & Grain-based Flour Products → Products with Added Sugar 1 gram or more → Soda (including diet) → High Fat Red Meat → Most Fruit

50% Non-Starchy	25% Healthy Protein	25% Healthy Fats, Quality Carbs,		
Vegetables		Dairy, Condiments		
Non-Starchy Vegetables	■ Lean/Grass Fed Beef,	Healthy Fats		
Alfalfa sprouts	Organic/Free Range Poultry,	Olives (4-5 per serving)Olive Oil		
Artichokes	■ Lean Pork	Olive Oil Avocado/Avocado Oil		
Asparagus		Coconut Milk, Cream		
Avocado (1/4 slice)	Fish (Best: High Eco Rating, low	Coconut Oil		
Bean Sprouts	mercury content, high Omega 3 content) Examples: Wild Salmon,	 Nuts (Almonds, Brazil, Hazelnuts, 		
Bell peppers (red, green, yellow)	Sardines, Herring, Sablefish,	Macadamia, Peanuts, Pecans, Pine Nuts,		
Bok Choy Broccoli	Albacore Tuna from	Walnuts)		
Broccolini	U.S./Canada, Farm Raised	Nut Butters/Seed Butters Oile freeze any of the parts of any		
Brussels sprouts	Oysters)	Oils from any of the nuts above Seeds:		
Cabbage (red or white); Sauerkraut	 Other types of seafood: Shrimp, 	Chia, Flax, Hemp, Psyllium, Poppy,		
(no sugar added	Mussels, Lobster, Calimari	Pumpkin, Sunflower, Sesame, Poppy		
Cauliflower		 Tahini, Oils from seeds above 		
Celery	 Legumes (Canned or Soaked, Maximum:one small serving daily 	Complex Carbs		
Cucumber	- Includes Lentils, Beans -as a	Peas		
Edamame* (*also classified as a	general rule combine beans with			
bean)	other vegetables or other	Dairy (low sugar/low lactose) (Fat% determined by your state of health. Check		
Eggplant	proteins) While many "diets" out	with your physician if you have questions.)		
Fennel	there eliminate beans, they are a	Butter (Grass Fed, if possible)		
Green Beans	Complex Carbohydrate, and for	Cows Milk/Cream or Alternatives (Almond,		
Hearts of Palm	vegetarians or vegans can be a good protein source.	Oat, Cashew or Coconut)		
Hot peppers Jicama		Cheese: (Blue, Brie, Colby, Cheddar,		
Leafy Greens (Arugula, Collard	Tofu, Tempeh (avoid highly	Feta,Goat,Gorgonzola, Gouda,		
Greens, Dandelion Greens, Endive,	processed soy products)	Mozzerella, Meunster, Parmesan, Provolone, Swiss		
Kale, Parsley, Swiss Chard, Spinach,	■ Eggs	Cottage Cheese		
Watercress)	 Chaffles (mixture of eggs and 	Cream Cheese		
Lettuce, all types	various cheeses)	■ Ghee		
Leeks	■ Protein Powder* (Whey protein	■ Kefir		
Mushrooms (all varieties)	or Plant basedlook for brand	Ricotta Cheese		
Okra	with sugar content 0-1 grams	Sour CreamYogurt/Kefir (Greek, Cows Milk &		
Olives (limit to 5)	and preferably 0 grams Added	Alternative sources)		
Onions	Sugar) Some brands are			
Radishes Seaweed	sweetened with Stevia or Monk fruit. Premier Protein brand is	Sweets & Sweeteners Dark Chocolate (70% Cacao)		
Scallions	sweetened with sucrolose.	Stevia, Monk Fruit, Erythritol		
Shallots				
Snow Peas	*if making smoothies: Do not add fruit other than avocado or shredded	Fruit (Low Sugar/Low Fructose) Avocado		
Spaghetti Squash	coconut for Phase 1	Shredded Coconut		
Sprouts	COOSTICTION I HOOD I	Lemon		
Sugar Snap Peas		■ Lime		
Tomatillas				
Tomatoes (Fresh or canned, no				
added sugar)				
Water Chestnuts				
Yellow Squash				
Zucchini				

Phase #2 Healthy Habits for a Lifetime

Strategies That Get Results

- Eat a wide variety of foods centered around:
 - 50%: nutrient-dense non-starchy vegetables
 - 25%: high quality protein, and
 - o 25%: Small amounts of the following foods:
 - Healthy fats (oils, nuts/seeds, avocado)
 - Low sugar/fructose fruits
 - Starchy vegetables,
 - Healthy desserts made with stevia, monk fruit, erythritol or a combo of any of these
- Choose "Quality Carbohydrates wisely (Consider Type, Processing and Amount) Guidelines for the Life Time plan include:
 - o "Crowd Out":
 - White Potatoes
 - Rice (all forms)
 - Grain-Based Flour Products
 - Whole grains (with the exception of small amounts of Quinoa, Oats Buckwheat & Barley and limited use of Sprouted Whole Grain Bread)
 - o "Add In"
 - Non-Starchy Vegetables
 - Small amounts of starchy Vegetables
 - Small amounts of select whole grains (oats, quinoa, barley) (always mix with protein and if possible non-starchy vegetables)
- Eliminate all forms of Added Sugar in your home pantry, and judiciously use substitutes such as Stevia, Erithrytol or Monk Fruit.
- Increase fiber. (try to include at least 25-30 grams of fiber daily)
- Eat breakfast within an hour of waking or alternatively practice 16:8 or another form of intermittent fasting (whichever provides you with the best results)
- Consume enough water. (and other healthy liquids).
- Adopt new habits that improve not just what you eat, but HOW you eat (Eat on as regular a schedule as possible, watch portion sizes, avoid overeating and learn to eat mindfully)
- Be prepared. (at home and out of the house).
- Create an environment that supports your food plan and vision of health.

PHASE 2 Food Guidelines "Snapshot"

	T	onapon			
	Stay Hydrated with Water or Tea (Green, Rooibos, Black) WHEN IN DOUBT, CHOOSE WHOLE FOODS.				
ADD IN:	Non-Starchy Vegetables – 50%				
	Cooked or Raw				
	Green/Veggie	Smoothies (go eas	y on fruit)		
	Green/Veggie	Juices			
	HEALTHY PROTEIN – 25%				
		ef, Organic/Free Range Pou Rating, low mercury conte		atent) Evamples: Wild	
	Salmon, Sardines, H	erring, Sablefish, Albacore			
	Oysters) • Legumes (Canned o	r Soaked, maximum- one s	small serving daily)		
/ V \	 Tofu, Tempeh (avoid 	I highly processed soy prod	,		
		Cheese (see food list) by protein or plant based)			
DON'T OVER EAT		Small Portion:	s - 25%		
these nutrient	Sta	archy Vegetables (Squash,	Sweet Potato, Peas)		
rich foods:	Fruit (Low Sugar/Low Fructose)				
	Healthy Fats (Olives, Olive Oil, Coconut Oil, Avocado) Nuts/Seeds				
	Dairy (cheese, milk, cream, sour cream, cottage cheese, cream cheese) (Low Sugar/Low Lactose. Fat% is determined by your state of health.				
	(Low Sugar/Low Lactose. Fat% is determined by your state of health. Check with your physician if you have questions.)				
ENJOY	Dark Chocolate (Sweetened with Stevia, Monk Fruit, Allulose, Erythritol)				
Occasionally	Whole Grians/ Sprouted Grains (Quinoa, Oats, Buckwheat or Barley sparingly) Stevia, Monk Fruit Sweetener, Erythritol				
EAT SPARINGLY	Sugar Alternatives	Fish with low eco-	Saturated Fats	Coffee	
	(Sugar Alcohols,	rating, high mercury, low omega 3 content	(fat that turns solid)		
4,3,3,	Splenda, etc.) Low to Medium	(Examples: Farm	Butter is OK, just		
۰٬۰٬۰	Glycemic Fruit	Raised Salmon, Tilapia)	don't overdo it.		
		Highly Processed Soy	(Grass Fed is best)		
	Foods with more than	Products	,		
Totally	1-2 Grams added sugar	High fat, processed meats (i.e. hot dogs)	Trans Fats	Soda (Regular or Diet)	
Avoid	Grain-Based Flour High Glycemic Fruit	n-Based Flour		(Negulal of Diet)	
7	Aspartame contaminants				
	High fructose corn syrup.				

Phase 2 Daily Food List

CROWD OUT: White Potatoes → Rice → Grain-based Flour Products → Products with Added Sugar 1 gram or more → Soda (including diet) → High Fat Red Meat → High Glycemic Fruit

50% Non-Starchy Vegetables	25% Healthy Protein	25% Healthy Fats, Quality Carbs,			
		Dairy, Condiments			
Non-Starchy Vegetables	■ Lean/Grass Fed Beef,	Healthy Fats			
Alfalfa sprouts Artichokes	Organic/Free Range Poultry,	Olives (4-5 per serving)Olive Oil			
Asparagus	■ Lean Pork	Avocado/Avocado Oil			
Avocado (1/4 slice)		Coconut Milk, Cream			
Bean Sprouts	Fish (Best: High Eco Rating, low	■ Coconut Oil			
Bell peppers (red, green, yellow)	mercury content, high Omega 3 content) Examples: Wild Salmon,	 Nuts (Almonds, Brazil, Hazelnuts, 			
Bok Choy	Sardines, Herring, Sablefish, Albacore	Macadamia, Peanuts, Pecans, Pine Nuts,			
Broccoli	Tuna from U.S./Canada, Farm Raised	Walnuts)			
Broccolini	Oysters)	Nut Butters/Seed Butters			
Brussels sprouts	,	Oils from any of the nuts above			
Cabbage (red or white); Sauerkraut (no	Other types of seafood: Shrimp, Myssels Lebster Celimori	Seeds:			
sugar added Cauliflower	Mussels, Lobster, Calimari	 Chia, Flax, Hemp, Psyllium, Poppy, Pumpkin,Sunflower,Sesame, Poppy 			
Celery	 Legumes (Canned or Soaked, 	 Tahini, Oils from seeds above 			
Cucumber	Maximum:one small serving daily –	Complex Carbs			
Edamame* (*also classified as a bean)	Includes Lentils, Beans –as a general	Quinoa, Oats, Barley, Buckwheat			
Eggplant	rule combine beans with other	Butternut & Acorn Squash			
Fennel	vegetables or other proteins) While	Sweet Potato			
Green Beans	many "diets" out there eliminate beans, they are a Complex Carbohydrate, and	 Spaghetti Squash 			
Hearts of Palm	for vegetarians or vegans can be a	■ Beets			
Hot peppers	good protein source.	■ Peas			
Jicama (A / O // / O		Pumpkin			
Leafy Greens (Arugula, Collard Greens,	Tofu, Tempeh (avoid highly processed	Parsnips			
Dandelion Greens, Endive, Kale, Parsley,	soy products)	Taro			
Swiss Chard, Spinach, Watercress) Lettuce, all types	■ Eggs	Dairy (low sugar/low lactose) (Fat% determined by your state of health. Check with			
Leeks	Chaffles (mixture of eggs and various	your physician if you have questions.)			
Mushrooms (all varieties)	cheeses)	Butter (Grass Fed, if possible)			
Okra	,	Cows Milk/Cream or Alternatives (Almond,			
Olives (limit to 5)	Protein Powder* (Whey protein or	Oat, Cashew or Coconut)			
Onions	Plant basedlook for brand with	Cheese: (Blue, Brie, Colby, Cheddar,			
Radishes	sugar content 0-1 grams and	Feta, Goat, Gorgonzola, Gouda, Mozzerella,			
Seaweed	preferably 0 grams Added Sugar) Some brands are sweetened with	Meunster, Parmesan, Provolone, Swiss			
Scallions	Stevia or Monk fruit. Premier Protein	Cottage Cheese			
Shallots	brand is sweetened with sucrolose.	Cream Cheese			
Snow Peas		Ghee			
Spaghetti Squash Sprouts	*if making smoothies: stick with low	Kefir Ricotta Cheese			
Sugar Snap Peas	glycemic fruit. If you want to add banana, it should not be overripe and only use 1/4	Sour Cream			
Tomatillas	piece of the banana	Yogurt/Kefir (Greek, Cows Milk & Alternative			
Tomatoes (Fresh or canned, no added	process and burnaria	sources)			
sugar)		Sweets & Sweeteners			
Water Chestnuts		■ Dark Chocolate (70% Cacao)			
Yellow Squash		Stevia, Monk Fruit, Erythritol			
Zucchini		Fruit (Low Sugar/Low Fructose)			
		Best choices: Avocado, Berries, Coconut,			
		Lemon/Lime			
		See Fruit Chart			

Phase 1 & 2 Habits to Improve HOW You Eat

When it comes to keeping your blood sugar under control, it's not just what you eat that counts; how you eat also matters.

- Eat on as regular a schedule as possible and avoid over-eating.
- Eating regularly timed meals throughout the day, watching portion sizes and eating more slowly are all eating habits that put less stress on your digestive system and promote more level blood sugars. Eating at regular intervals also helps to avoid carbohydrate cravings that lead to binging when you let yourself go too long between meals.
- One serving is approximately equivalent to:

Fruit & Vegetables

- ½ cup cooked or raw veggies
- 1 cup salad
- 1 medium piece of fruit
- ½ chopped fruit
- ¾ cup vegetable juice

Protein Foods

- ½ cup cooked beans
- 1 whole egg, 3 egg whites, or 2 egg whites with one yolk
- 2-3 oz. Meat, Fish or Poultry (approx size of deck of cards)
- 4 oz. Tofu, ½ cup soy milk, ½ cup soy protein
- ¾ cup vegetable or fruit juice

Whole Grains

- 1 slice bread
- ½ cup cooked grain or pasta
- ½ -1 cup dry cereal
- 3-4 crackers

Dairy

- 1 cup milk
- 4 oz. Cheese (4 cubes)
- ½ cup cottage cheese or part-skim ricotta
- 1 cup yogurt

Fats, Nuts & Seeds

- 1 TBSP oil
- 2 TBSP nuts, seeds or nut butters
- Don't let yourself get too hungry, angry/anxious, lonely, or tired. Any one of these conditions is a set up for uncontrolled eating of refined carbohydrates.
- Eat Mindfully, meaning make a connection with your food by breaking mindless eating routines, such as eating in front of the TV or eating while multi-tasking or when you are bored. When you are eating mindlessly, you are barely aware of what you are eating, and this can lead to overeating and having problems with portion control. In this state, you are moving on to the next bite before you have experienced the bite that you have in your mouth.

APPENDIX

Reasons to Eat Fruit/Fructose Sparingly

What we know as "table sugar" or "sucrose" is actually a combination of two simple sugars: Glucose & Fructose"

Sucrose is an even 50-50 split between the two, while high fructose corn syrup comes in either **55%-45%** fructose-glucose or **42%-58%** pairings).

- Fructose, found naturally in fruit is a simple sugar. But because it is mainly metabolized in the liver, fructose has a lower glycemic index. However, consumption of high amounts of fructose can lower metabolic rate and cause something called "de-novo lipogenesis" (the conversion of sugar into fat) since the liver can only metabolize limited amounts of fructose. High consumption of fructose has a propensity to increase serum triglycerides.
- **THE DANGERS OF HIGH FRUCTOSE CORN SYRUP**: When corn is processed into HFCS, this sweetener is absorbed more quickly than regular sugar and enters your cells, becoming an uncontrolled source of "acetyl-CoA" that is the made into cholesterol and triglycerides.

Additionally, none of the normal controls on appetite are triggered when you eat foods or beverages containing HFCS so that you tend to stay hungry and keep eating more sugar and refined foods, which continues to fuel this cycle. .

Bottom Line: Limit Fruit and Fructose:

- Fructose, is twice as sweet as sucrose (table sugar). But because it is mainly metabolized in the liver, fructose
 has a lower glycemic index.
- However, consumption of high amounts of fructose can lower metabolic rate and cause something called "denovo lipogenesis" (the conversion of sugar into fat) since the liver can only metabolize limited amounts of fructose.
- This is why I recommend closely watching fruit intake and avoid over consuming foods high in fructose, including Agave Syrup which has a high fructose content.

See Chart on Next Page for Guide to Eating Fruit

Overview of Fruit Selections:

Source: Nutrition Data: Know What You Eat [USDA SR-21]

FRUIT/AMOUNT	Carbs	Fiber	Starch	Sugars	Sucrose	Glucose	Fructose	Glycemic
				_	0401030	Gladosc	Tructosc	Load
	(grams)	(grams)	(grams)	(grams)				(Est.)
Avocado 1 cup cubed (150 grams)	12.8	10.1	0.2	1 g	90 mg	555 mg	180 mg	3
Avocado 1 cup pureed (230 grams)	19.6	15.4	0.3	1.5	138 mg	851 mg	276 mg	4
Lemon 1 Medium (58 Grams)	5.4	1.6	0.0	1.5	No Data	No Data	No Data	1
Tomato 1 Medium (123 grams)	4.8	1.5	0.0	3.2	0.0	1537 mg	1685 mg	2
Mango 1 ounce (28 Grams) Less	4.8	0.5	0.0	4.1	No Data	No Data	No Data	1
than ¼ cup								
Cantelope 1 Very SMALL wedge	4.8	0.5	0.0	4.3	2392 mg	847 mg	1028mg	2
1/8 of small melon (55 grams)								
Strawberries ½-3/4 cup Raw	7.7	2 g	0.0	4.9	470 g	1990 mg	2440mg	2
(100 grams)								
Blackberries ½-3/4 cup (100 Grams)	10.2	5.3	0.0	4.9	70 mg	2310 mg	2400 mg	3
Raspberries 1 cup whole raw	14.7	8 g	0.0	5.4	246 mg	2288 mg	2890mg	3
(123 grams)								
Pineapple – 1 slice thin	7.3	0.8	0.0	5.5	3354 mg	969 mg	1187mg	2
3 ½ in x ½ in thick (56 grams)								
Blueberries 50 Berries raw	9.9	1.6	0.0	6.8	74.8 mg	3318 mg	3379 mg	3
(68 Grams)								
Strawberries 1 cup whole raw	11.1	2.9 g	0.1	7 g	677 mg	2866 mg	3513 mg	3
(144 grams)								
Blackberries	14.7	7.6 g	0.0	7 g	101 mg	3326 mg	3456 mg	4
1 cup whole raw (144 grams)								
Grapes 10 Thompson Seedless	8.9	0.4	0.0	7.6	73.5 mg	3528 mg	3983 mg	3
(49 grams)								
Grapefruit ½ raw (small -123 grams)	13.1	2	0.0	8.5	4317 mg	1980 mg	2177 mg	4
Orange 1 small 2-3/8 in diam	11.3	2.3	0.0	9.0	No Data	No Data	No Data	3
(96 grams)								
Watermelon 1 cup diced (152 grams)	11.5	0.6	0.0	9.4	1839 mg	2402 mg	5106 mg	3
Peach 1 small (2 ½ in dia-130 grams)	12.9	1.9	0.0	10.9	6189 mg	2535 mg	1989 mg	4
Apple 1 cup slices (109 grams)	15.1	2.6	0.1	11.3	2257 mg	2649 mg	6431 mg	3
Banana (small) 101 grams	23.1	2.6	5.4	12.4	2414 mg	5029 mg	4898 mg	8
Cantelope 1 Cup Cubes (160 grams)	14.1	1.4	0.0	12.6	6959 mg	2464 mg	2992 mg	4
HoneyDew 1 Cup Cubes (170 Grams)	15.5	1.4	0.0	13.8	4216 mg	4557 mg	5032mg	4
Pear Raw 1 small (148 Grams)	22.9	4.6	0.0	14.5	1154 mg	4085 m	9222 mg	5
Blueberries 1 cup raw (148 Grams)	21.4	3.6	0.0	14.7	163 mg	7222 mg	7355 mg	6
Pineapple 1 cup chunks (165 grams)	21.6	2.3	0.0	16.3	9883 mg	2855 mg	3498mg	6
Watermelon 1 Wedge (approx. 1/16	21.6	1.1	0.0	17.7	3461 mg	4519m g	9608 mg	6
of melon) (286 Grams)								
Cherries 1 cup with pits (138 grams)	22.1	2.9	0.0	17.7	207 mg	9093 mg	7410 mg	7
Grapes 1 cup Thompson Seedless	27.3	1.4	0.0	23.4	227 mg	10872mg	12276 mg	9
(151 Grams)								
Mango 1 cup sliced (165 grams)	28.1	3	0.0	24.4	No Data	No Data	No Data	8

Tips for Adding More Non-Starchy Vegetables to Your Daily Meals



It's a Snap!

- Serve Raw Vegetables with Dip, Cheese or Favorite Spread:
- Grill an Onion
- Munch on Some Edamame
- Use Lettuce Leaves as substitute for Bread
- Munch on some celery with almond or peanut butter
- Make a tomato and onion salad
- Add onions, corn & red pepper to black beans (hot or cold salad)



Pretty Easy

- Flavor Up Salad Dressing with finely chopped veggies
- Make Some Salsa
- Use Frozen Vegetables for Easy Salads and Side Dishes
- Make a Stir Fry with Vegetables & Protein of Choice
- Add Vegetables to Quinoa (hot or cold salad)
- Lightly steam or boil some Kale
- Make a creamy soup with leftover vegetables
- Make a cucumber salad



Hmm...Looks a Little Harder

- Cook homemade vegetable soup in a crock pot
- Prepare vegetarian chili with vegetables
- Roast a Variety of Vegetables
- Press Some Red or Green Cabbage

Tips For Choosing Healthy Protein



- Meat/Poultry: Meat from grass fed animals contains more conjugated linoleic acid (a component of fat that boosts fat burning and the buildup of lean muscle mass) and more healthy Omega-3 fats. Try to choose organic sources of both meat and poultry whenever possible.
- Eggs: Consumed in moderation eggs are a great source of protein and vitamins, including vitamin A, potassium and many B vitamins like folic acid, choline and biotin. Try to purchase eggs from chickens raised in a free-range or cage-free environment.
- ❖ Yogurt & Kefir: In addition to being a good source of protein and calcium, yogurts that say "live and active cultures" on the label contain probiotics that help maintain and restore the delicate balance of both "good" and "bad" bacteria necessary for a healthy digestive system. Kefir, a fermented milk product is also a rich source of probiotics, vitamins, minerals and essential amino acids/protein.
- Legumes are a great source of protein and soluble fiber, but be aware that they are a source of phytic acid, an anti-nutrient that binds with minerals in your gut making the minerals unavailable for absorption.. The best way to reduce the amount of phytic acid is to soak your beans overnight before cooking them. If you use canned beans rinse them well to reduce the sodium content) Generally, eaten in MODERATION, beans should not pose any problems in the context of a nutrient-dense diet.
- Fish/Seafood: (Best: High Eco Rating, low mercury content, high Omega 3 content)
 Examples: Wild Salmon, Sardines, Herring, Sablefish, Albacore Tuna from U.S./Canada,
 Farm Raised Oysters)
- Soy Products: Tofu, Tempeh (avoid highly processed soy products)
- Protein Powder can be divided into two categories: animal source proteins and vegetable source proteins. Animal source proteins include milk protein derivatives like whey and casein, beef and egg white protein. Vegetable source proteins include soy, rice, pea, hemp and sprouted grain proteins.

Breakfast Ideas

Everyone's biochemistry is different, and so there is no definitive answer to the question, What should I eat for breakfast?. Having said the best breakfast foods are those that do not cause huge blood sugar spikes, set the stage for balanced blood sugars the rest of the day, and leave you feeling satisfied. As a rule of thumb, the more nutritionally dense the foods are the better you will feel. If you are doing "intermittent fasting" you can break your fast at the appropriate time with any of the breakfast foods below)

- Eggs or tofu scrambled with vegetables of choice. (TIP: keep some sautéed onions in the fridge. Heat them in the a.m., and toss them into scrambled eggs. For added flavor add chopped peppers. broccoli, or sun-dried tomatoes)
- Chaffles (Breakfast Chaffles typically made with eggs and cream cheese)
- Hard boiled deviled eggs (if desired, substitute hummus for mashed egg yolk)
- Crust free mini quiche (with vegetables and cheese of choice)
- Yogurt with protein powder, berries and chopped nuts
- Almond butter/ricotta spread ½ sprouted whole grain English Muffin or piece of Paleo bread. To make the spread, combine 1 TBSP Almond Butter with ¼ cup part skim ricotta cheese and sweeten with sugar alternative of your choice. (add some protein powder or ground flax seed for extra nutrients)
- Turkey breast rollup with low fat cheese, avocado and sprouts
- Non-Grain-Based French Toast or pancakes with Blueberrys, or Easy Blueberry Syrup
- Almond flour protein pancakes (make your own or start with a mix)
- Smoked salmon, low fat veggie cream cheese, onion and tomato on non-grain based bread, Triscuits or Low Carb Crackers
- Poached salmon with cucumber salad
- Hummus, avocado, red onion and tomato on non-grain based bread or sprouted whole grain English Muffin
- Stir fry with roast chicken and vegetables
- Tempeh or Turkey Bacon with eggs of choice and side salad
- Bone Broth, Miso soup or other (with some vegetables and/or some protein li ke tofu or shredded chicken included)

About Grains, Flour, Bread, Pasta, Rice & Potatoes

Grinding grains into flour increases the surface area upon which enzymes work to more quickly convert starch into glucose. This means that any type of grain-based flour products have the same effect on blood sugar, whether the flour is produced from whole grains or not.



- Sprouted grain products are digested more like a vegetable with slower digestion and less of a spike in blood sugar. Sprouted grain breads will not have "flour" in the ingredients, but should still be eating in moderation.
- If you choose to include grains in your food plan, the best types of whole grains are cooked whole grains (quinoa, oats, barley) or high fiber sprouted whole grain breads. White and brown rice should be avoided.
- If you are diabetic, you should check your blood sugars two hours after eating grains or grain based products to confirm their effect on your blood sugar levels. Avoid all grain-based flour products.
- Best breads: Paleo Bread (Store bought or homemade), non-grain based flour breads (made with nut, bean, or coconut flour. golden flax meal) Sprouted Whole Grain
- Sources for Non-grain based flour: Paleo Baking Company, Bob's Red Mill, JK Gourment Finely Ground Almond Flour
- Non-grain pasta substitutes: Spaghetti Squach, Vegetable Noodles, Palmini "Pasta"
- Rice Substitutes: Quinoa, Cauliflower Rice
- White Potato Substitutes: Mashed Cauliflower, Roasted & Sauteed Radishes, Sweet Potato, Turnips, Winter Squash
- Recipe Resources for Baking with Non-grain based flours

Against the Grain: Danielle Walker, Victory Belt Publishing, Inc., 2013.

The Joy of Gluten-Free Sugar Free Baking: Peter Reinhart & Demine Wallace, Ten Speed Press, 2012

Easy Keto Desserts: Carolyn Ketchum, Victory Belt Publishing, 2018

The Gluten Free Almond Flour Cookbook, Elana Amsterdam, Celestial Arts, 2009

NOTE: Not all complex carbohydrates behave the way you expect them to. For example, starchy vegetables, like white potatoes, behave more like simple sugars, breaking down quickly into glucose and causing a sharp insulin response.

Some Ideas to Snack Smart

- Pumpkin Seed Mix (1/4 cup)
- * ¼ cup nuts (almonds, walnuts, pecans) with a slice of low fat cheese or raw veggies.
- ❖ 1 TBSP almond butter with a piece of non-grain based bread or apple slices
- Edamame with Flavored "salts" or Ponzu Sauce
- Turkey rollups with avocado
- Chopped tomato salad with, beans, red onions, avocado and dressing of choice
- Cherry tomatoes with tuna salad
- Deviled egg (if desired, with hummus substituted for mashed egg yolk)
- Hummus or Bean Dip with raw vegetables
- * ¼ cup part skim ricotta cheese (or Greek Yogurt) with unsweetened cocoa and a tablespoon of chocolate protein powder. (Add Stevia or Truvia to taste.) To make it extra luxurious add some melted Dark Chocolate.....
- Cucumber or zucchini rounds with hummus or tuna salad
- Air Fried Chicken Strips with "no-grain based flour coating"
- Spicy, Roasted Chick Peas
- Guacamole with Jicama sticks
- Cup of lentil, vegetable, carrot or black bean soup.
- Sardine salad with cucumbers & vegetables
- Simple Cucumber Salad
- Homemade Low Carb Crackers or Triscuits with smoked salmon & cream cheese
- Baby spinach "rollups" with Laughing Cow Cheese and walnuts
- Avocado Slices with Lemon or Lime
- Silver Dollar "no grain-based flour" Pancakes
- Mini Chaffle Pizza (add some Pepperoni or vegetables on top)
- Antipasto platter (olives, roasted peppers, hummus, pickled vegetables, cheese)

Suggested Substitutions

- Refined Sugar
 - Stevia (Sweet Leaf Powdered and Liquid), Monk Fruit, Erythritol
- White Bread
 - Sprouted Whole Grain Breads, English Muffins, Tortillas: Some good sources include: Alvarado Street Bakery Products, French Meadow Bakery, Vermont Breads, Baker Street Bread Company, Food for Life Baking Co. (Sprouted grain Ezekiel Bread, Muffins, Tortillas),
 - Non-Grain Based Breads/Paleo Bread (made with alternative flours such as almond and/or coconut flour)
- White Rice/Potatoes
 - Quinoa, Cauliflower Rice
 - Mashed Cauliflower, Roasted & Sauteed Radishes, Sweet Potato, Turnips, Winter Squash
- Crackers with Refined Flour
 - Triscuits, Wasa Crispbreads, Ryvita, Home Made Crackers with Low Carb Lavash or Tortillas or use vegetables such as cucumber or zucchini rounds
- Sugar laden jams & jellies
 - Fruit Juice sweetened. Good choices include jams and jellies from Sorrel Ridge, St. Dalfour, Bionaturae, and Kozlowski Farms.
- Oils
- Olive Oil (watch cooking temperature when cooking with Olive Oil).
 Coconut Oil, Avocado Oil, Walnut Oil
- Salad dressings with sugar in the ingredients
 - Homemade with olive oil or other sugar free alternatives such as Newman's Own Olive Oil and Vinegar Dressing, Annie's Naturals Organic Olive Oil Vinaigrette
- Pasta:
- Spaghetti Squash, Vegetable Noodles, Hearts of Palm Noodles
- Pancakes:
 - Birch Benders Keto Pancake & Waffle Mix; Simple Mills Pancake Mix
- Waffles
 - Chaffles (made with eggs and cream cheese or various types of cheeses)

- Ketchup
 - No added sugar brand or no sugar added Mustard
- Cookies with Refined Flour and/or Sugar
 - Cookies made with non-grain-based flour (Simple Mills); Better Keto Collagen Cookies (Sweeteners: Monk Fruit, Stevia, Erythritol)
- Chocolate Candy
 - Lily's, Choc Zero, Hu Chocolates, Lakanto
- Milkshakes/Star Bucks Drinks)
 - Smoothies (vanilla unsweetened almond milk, vanilla whey powder, cinnamon, frozen blueberries, almond butter, flax seed), Mocha Freeze (½ cup coffee mixed with ½ cup ice, 1-2 scoops Jay Robb chocolate protein powder, low fat milk or almond milk, sweetened with Truvia or Stevia)
- Excessive Salt
 - Substitute Braggs Amino Acids for soy sauce; experiment with salt free spice mixes. Trader Joes 21 Salute, spices from Penzys (<u>www.penzys.com</u>) or Bittersweet Herb Farm (<u>www.bittersweetherbfarm.com</u>)
- Chips and Refined Snacks
 - Nuts, Seeds, Pumpkin Seed Mix, No-grain flour Tortilla Chips, Vegetable Chips
- French Fries (with sandwiches)
 - Baked Sweet Potato Fries, Zucchini Fries, Coleslaw, Pickles, Marinated vegetables, Chopped salad
- Ice Cream
 - Yogurt or Ricotta "Pudding"
 - Halo Brand Icecream
- Cream Cheese
 - Spreadable Goat Cheese (Soignon Brand)
- Refined Cereal
 - Steel Cut Oatmeal, Catalina Crunch Keto Cereal, Magic Spoon Keto Cereal
- Maple Syrup
 - Birch Benders Magic Syrup, ChocZero No Sugar Maple Syrup, NuNaturals
 Maple Syrup