

### Low FODMAP diet

#### What is FODMAP?

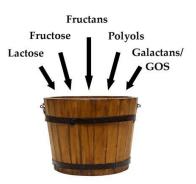
**FODMAP** stands for <u>F</u>ermenatable <u>O</u>ligo-, <u>D</u>i-, and <u>M</u>ono-saccharides, <u>A</u>nd <u>P</u>olyols. The acronym is used to describe a specific group of carbohydrates that are poorly absorbed in the small intestine and can often cause symptoms such as excess gas, bloating, and diarrhea in certain individuals with Irritable Bowel Syndrome (IBS) and other functional bowel disorders.

#### What carbohydrate foods are FODMAPs?

FODMAP carbohyrdates include:

- Certain *sugars* (lactose and fructose) found in foods such as milk and dairy products, fruit, honey, and high-fructose corn syrup.
- Sugar alcohols (polyols), especially sweeteners containing sorbitol and mannitol.
- Certain types of *fiber* (fructans and galactans) found in wheat, beans, and some vegetables.

#### **FODMAP tolerance:**



All dietary FODMAPS go into the same "bucket".

#### The FODMAP approach

All FODMAPs have the potential to cause unwanted symptoms. Yet, the degree in which FODMAPs are tolerated varies from person to person. An individual's physical response to certain FODMAPs depends on their own personal level of sensitivity. Therefore, some FODMAP groups may trigger symptoms while others might not.

Think of the small intestine as a bucket. Each person has their own size bucket, or unique tolerance for FODMAP carbohydrates. FODMAPs have a cumulative effect. That is, the *amount*, not just the type of FODMAP consumed matters. When FODMAP intake exceeds the amount the "bucket" can hold (the small intestine's capacity for digestion and absorption), it overflows into the large intestine. This may lead to gas, bloating, and diarrhea.

It is important to understand that IBS and other functional bowel disorders are not caused by eating FODMAPs, therefore eliminating FODMAPs from the diet will not cure the disease. However, removing certain FODMAPs from the diet may greatly improve symptoms.

The FODMAP approach takes into consideration tolerance to all FODMAP carbohyrate groups, not just specific foods. Often times in an attempt to ease symptoms, individuals tend to be overly restrictive with their diet. This leads to nutritional deficiencies. The goal of the FODMAP approach is to manage symptoms while allowing for the most varied and nutritious diet possible.



#### Low FODMAP diet:

A low FODMAP diet aims to minimize gastrointestinal symptoms by removing common high FODMAP foods and replacing them with low FODMAP alternatives. It is intended to be a *short-term diet* and is usually followed for six weeks or less. It is *not* to be used as permanent diet solution. After symptoms improve, high FODMAP foods are gradually added back into the diet in smaller amounts.

#### FODMAP Elimination diet:

A more aggressive approach is a FODMAP elimination diet. It should not be attempted without the help and supervision of either a Registered Dietitian or healthcare provider. An elimination diet is a *temporary* learning diet that is used to identify troublesome FODMAPs. It consists of three phases:

- Elimination phase: all FODMAPs are eliminated from the diet for approximatley 3 weeks.
- **Challenge phase:** the body is challenged by reintroducing FODMAPs into the diet in an organized way. Symptoms are observed and problamatic FODMAPs are identified.
- Final phase: problem FODMAPs are incorporated back into the diet as tolerated.

Rather than excluding all FODMAPs from the diet, the goal of both diet methods is to eliminate only the FODMAPs that are problematic. With proper management, few, if any foods must be removed from the diet permanently.

#### Is a low FODMAP diet right for you?

A low FODMAP diet may not be appropriate for everyone. Before beginning a low FODMAP diet, first consult your healthcare provider to eliminate other causes of your symptoms. Low FODMAP diets have shown to be most successful for persons who have:

- An official diagnosis of Irritable Bowel Syndrome (IBS), Inflammatory Bowel Disease (IBD), or other functional bowel disorder with symptoms of excess gas, bloating, abdominal pain, diarrhea/constipation, etc.
- Tried and failed standard therapy (high-fiber diet, increased fluid intake, increased exercise, etc).
- Ruled out celiac disease as a possible diagnosis. This is important as restricting wheat from the diet will affect the accuracy of future celiac testing.
- Regular or irregular intake of high FODMAP foods.
- The desire and abiltiy to modify their diet.

\*\*Additional testing such as lactose and/or fructose breath tests is helpful (but not essential) prior to beginning a FODMAP diet.

#### Enlist the help of a Registered Dietitian:

If it is determined that a low FODMAP diet would be beneficial to you, consulting a Registered Dietitian (RD) who specializes in gastrointestinal nutrition can increase the likelihood of your success. The RD will help to identify major FODMAP culprits in your diet and develop an individualized diet plan centered around your eating habits and food preferences to improve both symptoms and quality of life.



# Low FODMAP Foods

Foods in the chart below are lower in FODMAPs than other foods and therefore are less likely to cause gastrointestinal symptoms.

- Foods shown in **bold font** contain a small amount of FODMAPs so should be limited to the portion size listed. For best results limit these items to one per meal.
- Foods shown in *italic font* contain gluten and are not safe for a gluten free diet.

#### For the next 4-6 weeks eat only the foods listed below.

Amaranth. ¼ cup       Corn tortilla chips         Breakfast cereals, made with rice or corn, ½ cup*       Crackers, made with corn or rice         Breakfast cereals, made with buckwheat, quinoa, amaranth or millet*       Cornmeal         Buckwheat flour       Polenta         Buckwheat flour       Polenta         Soba noodles       Popcorn         Oatmeal, ½ cup cooked       Potato         Oat flour       Quinoa         Gluten free bread*       Rice cakes         Gluten free cereal *       Rice (brown, white, or wild rice)         Gluten free cereal *       Rice (brown, white, or wild rice)         Gluten free or quinoa pasta       *With appropriate sweeteners         Fruits (limit to 1 serving per meal – ½ cup or 1 small piece)       Banana, firm         Banana, firm       Mandarin orange         Blueberries       Orange         Cranberry juice, 100%, ½ cup       Rhubarb         Grapeer, all kind       Strawberries         Honeydew melon       Tangelo         Kiwi       ****No dried fruit or fruit juices allowed other than those listed. No canned fruits.         Vegetables – serving size is 1 cup unless otherwise specified         Alfalfa sprouts       Lettuce, any kind         Arrayal       Derange         Bamboo shoots <t< th=""><th colspan="3">Grains and Starches</th></t<>	Grains and Starches		
Breakfast cereals, made with rice or corn, ¼ cup*       Crackers, made with corn or rice         Breakfast cereals, made with buckwheat, quinoa,       Cornmeal         amaranth or millet*       Millet         Buckwheat flour       Polenta         Soba noodles       Popcorn         Oat bran       Potato         Oat bran       Potato         Oat bran       Quinoa         Gluten free bread*       Rice cakes         Gluten free cereal *       Rice (brown, white, or wild rice)         Gluten free pretzels       Rice (brown, spelt bread, 1 slice         Corn, rice, or quinoa pasta       Sourdough spelt bread, 1 slice         Corn ortillas       Sourdough spelt bread, 1 slice         Protext [limit to 1 serving per meal - ½ cur or 1 small pieceJ       Surdough spelt bread, 1 slice         Cantaloupe       Orange         Cantaloupe       Papaya         Clementine       Pineapple         Cranberry juice, 100%, ½ cup       Rhubarb         Grapes, all kind       Strawberries         Honeydew melon       Tangelo         Kiwi       Tangelo         Kiwi       Vegetables - serving size is 1 cup unless         Vegetables - serving size is 1 cup unless       Verwins especified         Arugula	Amaranth. ¼ cup	Corn tortilla chips	
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Bean sprouts Pickle, dill or sour	Arugula		
	Bamboo shoots		
Bell peppers (green, red, orange, vellow) Potatoes	Bean sprouts	Pickle, dill or sour	
	Bell peppers (green, red, orange, yellow)	Potatoes	



Fats/Oils		
Quorn (grounds/mince only), 3 ounces		
Lentils, canned (drained and rinsed), ½ cup	Tofu, firm	
Chickpeas, 1/4 cup	Tempeh	
Plant-Based Proteins		
Peanut butter	Walnuts	
Peanuts	Sun butter	
Macadamia nuts	Sunflower seeds	
Hazelnuts, 10 total	Sesame seeds	
Chia seeds	Pumpkin seeds	
Almond butter	Pine nuts	
Almonds, 10 total	Pecans	
Nuts and Seeds (2 tablespoon per servi	ng)	
Goat cheese, 1 ounce	*With appropriate sweeteners	
Dry curd cottage cheese		
Cottage cheese, lactose free	Yogurt, lactose-free*	
Havarti, Mozzarella, Swiss, Parmesan	Yogurt, Greek, ½ cup*	
Brie, Chambert, Cheddar, Colby, Feta,	<ul> <li>Rice milk, Almond milk, Coconut milk, ½ cup</li> </ul>	
Cheese, hard, regular or reduced-fat	Milk, lactose-free	
Cheese, American, 1 ounce	Kefir, 99% lactose free	
Dairy Products and Dairy Substitutes		
Lamb	molasses	
Eggs Fish, any kind	syrup, fructose, high fructose corn syrup (HFCS), honey, and	
Eggs	*** Avoid meats with breading and sauces made with agave	
Duck	TUINCY	
Chicken	Turkey	
Buffalo	Seafood, any kind	
Beef	Pork	
Meat/Fish/Poultry/Eggs		
Leek (leaves only)		
Kale	Zucchini	
Green beans	Water chestnuts	
Fennel bulb, ½ cup	Turnip	
Endive	Tomato juice, ½ cup	
Eggplant	Tomato, fresh	
Cucumber	Tomato, plain canned (whole or diced), ½ cup	
Collard greens	Sweet potato, ½ cup Swiss chard	
Cherry tomatoes Chili pepper	Summer/yellow squash Sweet potato, ½ cup	
Celery, ½ stalk	Spinach	
Carrots	Seaweed/nori	
Cabbage, ½ cup	Scallions/green onion (green part only)	
Broccoli, ½ cup	Radishes	
Bok choy	Pumpkin	



Cocoa butter		Oils: canola coconut a	garlic-infused, olive, peanut, sesame,		
Coconut cream, ½ cup		soybean, sunflower, and vegetable			
Beverages – serving size is 1 cup (8 ounces) unless otherwise specified					
Beer, 12 fluid oz.		Espresso, black (single			
Black tea		Green tea			
Chai tea, weak (without chicory root)		Herbal tea, weak (without chicory root)			
Coconut water, 4 ounces		Peppermint tea			
Coconut milk, 4 ounces		Spirits (gin, vodka, whiskey, scotch), no rum, 1 shot			
Coffee		White tea			
Dandelion tea, weak		Wine, red or white (not sherry or port), 4-6 ounces			
Desserts and Sweeteners	- limit sugars/				
Baker's sugar	<u> </u>	Glucose syrup	•		
Bar sugar		Gluten-free baked goo	ds*		
Beet sugar		Golden syrup Granulat			
Brown sugar		Ice cream*, lactose-fre	ee, ½ cup		
Brown rice syrup		Jam or jelly*, 1 ½ table	espoons		
Cane sugar		Maltodextrin			
Cane syrup		Maltose			
Chocolate, dark, 1 ounce		Palm sugar			
Chocolate, semi-sweet, 1 ounce		Pure maple syrup			
Confectioner's sugar		Raw sugar			
Corn syrup (not high-fructose)		Sorbet*, ½ cup			
Corn syrup solids		Sucrose			
Dextrose					
Glucose		*with approved sweeteners and fruits			
Condiments, Seasonings,	and Others				
Allspice	Fish sauce		Salt		
Baking powder	Five spice		Soybean oil		
Baking soda	Ginger		Soy lecithin		
Baker's yeast	Ground chili powder (100% chilies)		Soy sauce		
Basil	Guar gum		Tamari		
Bay leaf	Italian seasoning (without onion/garlic)		Tarragon		
Black pepper	Malt extract		Таріоса		
Chives (green part only)	Marjoram		Thyme		
Cilantro	Modified food starch		Turmeric		
Cinnamon	Mustard		Vinegar, balsamic, 1 tablespoon		
Cocoa powder, 1 tablespoon	Olives (green or black)		Vinegar, other types		
Coriander	Oregano		Whey protein		
Corn starch	Paprika		Worcestershire sauce		
Cumin	Parsley		Xanthan gum		
Dill	Pectin				
Dry mustard powder	Rosemary				



## These Foods Contain FODMAPs

### Foods in the chart below are high in FODMAPs. You should avoid/decrease your intake of these

**foods for 4-6 weeks.** Once symptoms improve, you may try reintroducing high FODMAP foods to see how your body reacts. For best results, do this with the help and supervision of a Registered Dietitian.

Cusing and Staushas				
Grains and Starches	Enriched flour			
	Enriched flour			
	Graham flour			
Baked goods made with white, wheat, rye or	High fiber bread, cereal, granola bars with chicory root/inulin			
multigrain flour	Pasta, white or whole wheat			
-	Rye			
	Semolina flour			
Bulgar wheat	Sprouted wheat			
Cereals made with wheat, rye, or barley	Wheat berries			
Couscous	White flour			
Crackers, white, wheat, rye, and multigrain	Whole wheat flour			
Fruits				
Apple	Peaches			
Blackberries	Pears			
Boysenberry	Persimmon			
Canned fruit	Plums			
Cherries	Pomegranate			
Fig	Watermelon			
Grapefruit				
Mango	***Dried fruit and fruit juices of fruits listed are also high			
Nectarines	FODMAP foods.			
Vegetables				
Artichokes	Mushrooms			
Asparagus	Onion			
Beets	Snow peas			
Brussels sprouts	Sugar snap peas			
Cauliflower	Sun dried tomatoes			
Garlic	Sweet corn, canned, froze, on the cob			
Green peas	Tomato paste or concentrate			
Meat/Fish/Poultry/Eggs				
Meats with breading from wheat or rye and sauces	made with agave syrup, fructose, high fructose corn syrup			
(HFCS), honey, and molasses.				
Dairy Products and Dairy Substitutes				
Butter milk	Half and half			
Cottage cheese	Ice cream			
Cream cheese	Milk from cows, goats, or sheep			
Custard	Ricotta cheese			
Dry milk solids	Sour cream			



Eggnog	Sweetened condensed milk	
Evaporated milk	Yogurt made from cow's milk or soy milk	
Nuts and Seeds		
Cashews		
Pistachios		
Plant-Based Proteins		
All beans, lentils, and legumes not listed in the	e low FODMAP section.	
Fats/Oils		
None		
Beverages		
Chai tea (with chicory root)	Oolong tea	
Chamomile tea (with chicory root)	Rum	
Fennel tea	Soy milk	
Desserts and Sweeteners		
Agave syrup	Isomalt	
Carob powder	Lacitol	
Erythritol	Malitol	
Fructooligosacchrides/FOS	Mannitol	
Fructose	Molasses	
Fructose solids	Polydextrose	
Fruit juice concentrate (any type)	Sorbitol	
High fructose corn syrup (HFCS)	Sugar cane fiber	
Honey	Xylitol	
Condiments, Seasonings, and Others		
Chicory root extract or fiber		
Garlic salt/powder		
Hydrogenated starch hydrolysates		
Inulin		
Onion salt/ powder		