

### Low FODMAP diet

#### What is FODMAP?

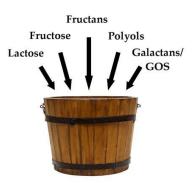
**FODMAP** stands for <u>F</u>ermenatable <u>O</u>ligo-, <u>D</u>i-, and <u>M</u>ono-saccharides, <u>A</u>nd <u>P</u>olyols. The acronym is used to describe a specific group of carbohydrates that are poorly absorbed in the small intestine and can often cause symptoms such as excess gas, bloating, and 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  |  |
| Breakfast cereals, made with buckwheat, quinoa,<br>amaranth or millet*Cornmealamaranth or millet*MilletBuckwheat flourPolentaSoba noodlesPopcornOatmeal, % cup cookedPotatoOat branPotato chipsOat flourQuinoaGluten free bread*Rice cakesGluten free cereal *Rice (brown, white, or wild rice)Gluten free pretzelsRice (brown, white, or wild rice)Gluten free orequinoa pastaSourdough spelt bread, 1 sliceCorn, rice, or quinoa pasta*With appropriate sweetenersFruits (limit to 1 serving per meal - ½ cur 1 small piece)Banana, firmMandarin orangeBueberriesOrangeCaraherries, rawRaspberriesCranberry juice, 100%, ½ cupRhubarbGrapes, all kindStrawberriesHoneydew melonTangeloKiwiLemonLemon***No dried fruit or fruit juices allowed other than those listed.LimeNo canned fruits.Vegetables - serving size is 1 cup unlessVerevise specifiedAlfalfa sproutsLettuce, any kindArugulaOkra, 6 podsBanboo shootsParsnipBanboo shootsParsnipPicke, dill or sourPicke, dill or sour  | •  |  |  |
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| Bamboo shootsParsnipBean sproutsPickle, dill or sour   | Alfalfa sprouts  | Lettuce, any kind  |  |
| 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<br>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<br>Swiss chard                              |  |
| Cherry tomatoes<br>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                                |   |  |