

UVA Nutrition



Low Sugar, Low Fiber Diet for Symptomatic Small Bowel Bacterial Overgrowth

What is small bowel bacterial overgrowth (SBBO or SIBO for short)?

We all have bacteria in our intestines, but some people have too much. These extra bacteria can cause problems. Good movement of food through the small bowel helps avoid this problem, and so does having normal amounts of stomach acid. People with slow bowel motility or who do not make enough gastric acid are at risk for bacterial overgrowth.

What are the symptoms?

Symptoms can include gas, abdominal pain, distention, bloating, fullness, diarrhea, nausea, or pain after eating foods that are high in sugars (like sodas, sweets and desserts) or high in fiber (such as pinto beans, kidney beans, bran cereals, etc).

How does what I eat make my symptoms worse?

When there are too many bacteria high up in your intestine near your stomach, they get "first dibs" on the food that you eat – instead of you! The bacteria use your food for fuel, and they make gas in the process. This is what makes you uncomfortable.

Foods that do not contain carbohydrates or fiber do not usually cause problems. This includes meats (beef, pork, lamb, venison), poultry (chicken, turkey, duck), fish and shellfish, eggs, hard cheeses, butter, and oils.

How to best use this diet:

Look over the list of foods below and cut out the foods and drinks you eat a lot of. Start by at least cutting out concentrated sugars and sweets. If you feel a lot better, that may be all you need to do. Then add back a small amount of one food at a time if you want. You should wait 3 days before adding back a second food again. If your symptoms come back, then that may be a food you need to just avoid.

Additional Information:

Visit www.GInutrition.virginia.edu and go to link to Nutritional Articles. Find the article: DiBaise JK. Small Intestinal Bacterial Overgrowth: Nutritional Consequences and Patients at Risk. Practical Gastroenterology 2008;(12):15.

neat, fish, poultry)			
Protein Foods (meat, fish, poultry)			
All allowed!			
duck, fish, shellfish, eggs, milk Plant protein foods			
 Beans such as black, pinto, kidney, refried, lima, lentils, etc. Nuts and seeds in servings bigger than a tablespoon Sweetened peanut or nut butters like Skippy[®], Jif[®], etc. 			
ains			
 Sweetened cornbread Bread with a sugar glaze High fiber cereals (any that contain 2 or more grams of fiber per serving): All-Bran, oatmeal, granola, any whole grain cereal Cereals with dried fruits, coconut, nuts or seeds Sweetened oatmeal and hot cereal Sweetened cereals and kids' cereals such as: Honey Nut Cheerios™, Cocoa Puffs™, Frosted Flakes®, Fruit Loops™, and many others Bran, faro, barley, brown rice, wild rice, quinoa Bran muffins, granola bars, fiber bars 			
crackers, potato chips Fruits			
 All dried or candied fruits (raisins, dates, Craisins®, figs, banana chips, mango, pineapple, prunes, etc.) All fruit juices and fruit drinks Blended smoothies with fruit such as Odwalla®, Naked®, or freshly prepared smoothies Canned fruit in its own juice or syrup 			
Vegetables			
 High fiber or sugar vegetables: artichokes, asparagus, beets, broccoli, Brussels sprouts, cabbage, cauliflower, corn, fennel, garlic, green peppers, leeks, okra, onions, peas, shallots, sweet potato, tomato paste 			

Dairy				
•	Plain milk, Plain yogurt, plain kefir Cottage cheese Hard cheeses Soft cheeses	Sweetened milk drinks: chocol milk, strawberry milk, Yoo-hoo Ovaltine® Carnation Breakfast Essentials store brand equivalent Hot cocoa	®, ® or	
	• Flavored yogurts, sweetened kefir Beverages (nondairy)			
•	Water Diet sodas Unsweetened tea or tea sweetened with Splenda®, Equal®, Sweet N Low®, or stevia Any sugar-free/calorie-free drink	All fruit juices and fruit drinks, including Kool-Aid®, Gatorade® (including G2) and others Regular soda Sweet tea made with sugar Blended smoothies with fruit sodwalla®, Naked®, or freshly prepared smoothies Ensure®, Boost®, or store branequivalents Flavored (such as vanilla) soy, almond, or other cow's milk alternatives Sweetened coffee drinks such vanilla lattes or Starbucks Frappuccino®, etc.	uch as	
	Hot cocoa Sweets			
•	Avoid all	Cakes, cookies, candies, pies, pastries, chocolate Ice cream, sherbet, popsicles, ice, frozen yogurt Jell-O® or gelatin desserts (regand sugar free), Cool Whip® Trail mix (dried fruit, seeds, nu coconut, granola, chocolate, et	Italian Jular Jus,	
Condiments and sweeteners				
•	Mayonnaise, mustard Oil, vinegar, salad dressings that do not contain any of the ingredients to the right Ketchup or BBQ sauce without high fructose corn syrup Splenda®, Equal®, Sweet N Low®, stevia	Jams and jellies (regular and s free) Honey, agave, Karo syrup, mo brown rice syrup, granulated (sugar, brown sugar, maple syr pancake syrup (including suga and fruit flavored) Ketchup or BBQ sauce made w fructose corn syrup Tomato paste	lasses, white) up, r free	

Other words that mean "sugar" Check the ingredients list for these, especially in processed or packaged foods Avoid all High fructose Brown rice syrup Pure maple syrup corn syrup Crystalline Corn syrup fructose Honey Sugar--ALL Evaporated cane Agave nectar iuice • Brown sugar Powdered sugar Other words that mean "sugar alcohol" Check the ingredients list for these, especially of diet or diabetic foods! Avoid all Sorbitol Mannitol • Isomalt **Xylitol** Lactitol Erythrytol Maltitol Lactatol

Avoid Medications or Supplements with Sugar or Sugar Alcohols

- Liquid medications often have sugar alcohols for flavor, especially those for people with diabetes. Check labels for any of the ingredients listed above: cough syrups, liquid Tylenol or ibuprofen, codeine.
- Lactulose—talk with your physician before restricting this—there are some patients who will need to keep taking this medication.
- Stop taking these fiber supplements: Metamucil®, Benefiber®, Perdiem®, Citrucel®, etc.

SAMPLE MENU

Breakfast

- Cornflakes or oatmeal with milk or unsweetened milk alternative (soy, almond, rice, etc.)
- Coffee or tea with or without an allowed artificial sweetener and/or unsweetened milk alternative
- Turkey sausage patty
- Small banana

Lunch

- Ham sandwich on wheat bread with mayonnaise and pickles
- ½ cup baby carrots with ranch dressing made without high fructose corn syrup
- Handful of potato chips

Dinner

- 4-6 oz of poultry, lean meat, or fish
- ½-¾ cup white rice or pasta
- ½ cup green beans
- Roll with butter

Snack

 Plain rice cake with unsweetened nut butter with a glass of water or unsweetened tea