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# SELF-CARE INFORMATION ON IRRITABLE BOWEL SYNDROME (IBS) AND FODMAP DIET

The causes of IBS are not fully understood. In IBS the gut can be 'hypersensitive' leading to different symptoms including:

- abdominal pain/discomfort
- bloating
- wind
- urgency to open bowels
- a feeling of being unable to pass all stool (incomplete evacuation)
- diarrhoea or constipation (or variable bowel habit swinging between these)
- nausea
- stomach gurgling
- belching, heartburn, and reflux
- tiredness / lethargy

These symptoms may vary over time, be present every day to a degree, or come and go without explanation. Stress, anxiety, or a hectic lifestyle can also play a role, which can lead to a flare up or worsening symptoms. IBS can be difficult to manage, but dietary and lifestyle changes can be very helpful in improving symptoms and therefore your quality of life.

### **Diet and IBS**

Many dietary factors are thought to be triggers for IBS symptoms, e.g. caffeine, alcohol, spicy or fatty foods, along with erratic eating patterns and behaviours. Dietary triggers can often be difficult to spot, especially when you have a flare of IBS symptoms.

Some types of carbohydrates contribute to IBS type symptoms. These carbohydrates are called **FODMAPs**, which stands for **F**ermentable, **O**ligosaccharides, **D**i-saccharides, **M**ono-saccharides **A**nd **P**olyols – described below.

Fermentable: foods which do not fully digest/absorb in the intestine so ferment in the large bowel.

**Oligosaccharides**: there are two groups of oligosaccharides that cause symptoms; *Fructans and Galactooligosaccharides*. These are poorly absorbed in all people as we do not have the ability to digest them in the small intestine.

*Fructans* are also known as fructo-oligosaccharides (FOS) and are chains of the sugar fructose of different lengths. Main dietary sources of these are wheat products (bread/breakfast cereal/pasta),

some vegetables (e.g. onion, garlic, artichoke) and as an ingredient added to some processed foods as a prebiotic (e.g. FOS, oligofructose or inulin).

*Galacto-oligosaccharides (GOS)* are chains of sugar galactose. The main dietary sources are pulses, beans, legumes and cashew or pistachio nuts.

**Disaccharides**: Lactose is a sugar found in all animal milks. Milk and yogurt are main sources of lactose **Monosaccharides**: Fructose is a simple sugar but in excessive amounts may be poorly absorbed. **And** 

**Polyols**: Polyols are sugar alcohols such as sorbitol, mannitol, and xylitol. These are poorly absorbed in most people. These occur naturally in some fruits and vegetables but are also used as artificial sweeteners in sugar free chewing gum, mints, and other low calorie or sugar free products.

Even though some FODMAPs are poorly absorbed in everyone, they only need to be restricted if they cause symptoms. People with IBS-like symptoms appear to be sensitive to the gases produced and water changes in the large intestine that occur when the diet contains lots of FODMAPs. Reducing the intake of FODMAP's has been shown to improve gut symptoms in most individuals with IBS-like symptoms.

#### Following the diet: How strict do I need to be?

Try to follow the low FODMAP diet as closely as possible to give you the best chance to improve your symptoms. Usually, 4-6 weeks is long enough to identify if symptoms will respond to a low FODMAP diet.

After the initial 4-6 weeks it is important that you reintroduce the avoided foods to identify which particular groups of carbohydrate cause you symptoms. Sensitivity to FODMAPs varies between people, and reintroduction to FODMAP containing foods is often well tolerated. Although a low FODMAP diet can be nutritionally balanced, working out what you are most sensitive to helps to increase food choices in your diet.

The tables below provide an overview of the foods needing to be avoided and those that can be eaten whilst following a low FODMAP diet. It is not an exhaustive list. Further details on other foods and safe quantities can be found on the Monash University or low FOMDAP food maestro apps:

https://www.monashfodmap.com/ibs-central/i-have-ibs/starting-the-low-fodmap-diet/ https://www.foodmaestro.me/consumer-apps (scroll down to bottom half of the webpage)

#### The foods listed below do not contain any FODMAPs and may be eaten freely:

Meat, poultry, fish, eggs, or vegetarian protein foods. *Eat 1-2 portions per day. One portion is 75-100g or 2 eggs.* 

- Fresh and frozen without sauce or coating: beef, chicken, duck, lamb, pork (including bacon and ham), turkey.
- Fresh or frozen shellfish, white fish, oily fish.
- Tinned fish in brine or oil.
- Eggs (boiled, fried, poached, scrambled).
- Firm tofu, tempeh.
- Quorn (Check ingredients: some varieties contain onion and/or garlic)
- Textured vegetable protein (soya mince)

#### Fats, oils & spreads

For a healthy diet try eating less foods containing fat. Fats are high in calories so use sparingly and can contribute to IBS symptoms in some people. Chose polyunsaturated or monounsaturated where possible. For example: cooking oils, margarines, low fat spreads, butter, ghee, lard, suet.

**Starchy foods** *Minor* wheat ingredients in a food *do not* need to be avoided (e.g. thickeners and flavourings).

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Foods to avoid (high in fructans, GOS or polyols):	Suitable foods But check ingredients label for problem fruit, FOS,
	inulin, oligofructose
Cereal Grains	Cereal grains and starchy foods
Wheat (including bulghur wheat, couscous,	Rice (and rice bran), oats (and oat bran), tapioca,
semolina) - Rye, - Barley - Amaranth	potatoes, buckwheat, polenta, corn, quinoa
Bread All wheat bread and rolls:	Bread
<ul> <li>white, wholemeal, multigrain, sourdough</li> </ul>	Wheat free / Gluten free bread and rolls
(small amounts may be ok)	Bread made from: oat, rice, corn, tapioca,
Pitta bread, bagels, ciabatta, focaccia,	potato flours
Panini, naan bread, chapatti	100% spelt sourdough (only)
Croissants, muffins, brioche, pastries	Wheat free or gluten free pizza bases,
crumpets and most bakery goods	pitta bread, ciabatta, naan bread.
Garlic bread, pizza bases	Homemade wheat free bread using a
Rye bread, spelt bread.	breadmaker is a good option
<ul> <li>All wheat flour</li> </ul>	<ul> <li>Flour and raising agents</li> <li>Wheat free / gluten free flour, buckwheat,</li> </ul>
<ul> <li>white, wholemeal, plain, strong, self raising</li> </ul>	cornflour, millet flour, maize flour, polenta, potato, rice flour.
<ul> <li>Rye, barley, gram (Chick Pea) flours</li> </ul>	<ul> <li>Baking powder, bicarbonate of soda,</li> </ul>
<ul> <li>coconut flour, spelt flour, soya flour</li> </ul>	cream of tartar, yeast. arrowroot,
Pasta and noodles	Pasta and noodles
All fresh and dried pasta (white and	Wheat free / gluten free pasta (not made
wholemeal), Gnocchi, spelt pasta, chick	from lentils/chickpeas), buckwheat, quinoa
pea /lentil pasta	pasta
• Egg noodles, Hokkein, Udon, Pot noodles,	Rice noodles, buckwheat noodles, kelp
Supernoodles, Ramen	noodles
Breakfast cereals	Breakfast Cereals
<ul> <li>Wheat or bran based cereals (weetabix,</li> </ul>	<ul> <li>Porridge / oat cereals, oat bran</li> </ul>
shredded wheat, bran flakes, All-bran,	<ul> <li>cornflakes, rice krispies,</li> </ul>
cheerio's, muesli),	• some wheat free or gluten free muesli and
wheat bran, wheat germ,	cereals (check fruit)
spelt flakes	
Savoury Biscuits	Savoury Biscuits / snacks
Water biscuits, crisp breads, Cornish wafers,	Rice crackers, corncakes, oatcakes, wheat free or
cream crackers, spelt crackers Rye crispbreads	gluten free crackers. Plain / salted popcorn or
Sweet Biscuits	plain crisps Sweet biscuits
All biscuits made with wheat flour (digestives,	Some Florentines, macaroons, oat-based biscuits,
shortbread, rich tea, custard creams etc)	flapjacks. Most 'free from' biscuit varieties
Cakes	Cakes
All cakes made with wheat flour (fruit cake, fairy	Flourless cakes, meringues, cornflour sponge.
cake, Victoria sponge, chocolate cake etc)	Most 'free from' varieties are wheat free.
Pastry	Pastry
All pastry made with wheat flour (shortcrust, puff,	Wheat free or gluten free varieties and mixes.
flaky, filo,) Shop brought pastry and pastry goods	
(pies, quiche, pasties)	
Breadcrumbs and batter	Breadcrumbs
Crumbed fish and poultry, fish fingers, fish in	Polenta, oats, cornflake crumbs, gluten free
batter, tempura batter, scotch eggs.	breadcrumbs/ batter
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Fruits & vegetables	
Foods to avoid	Suitable
<b>Fruit (Fresh, dried or juice)</b> Apple, Apricot, Blackberry, Cherries, Dates, Figs, Mango, Nectarine, Peach, Pear, Plum/prune, Sultanas, Watermelon, Tinned fruit in apple or pear juice. Tropical fruit juice, or juices from fruits above Jams, sauces, or chutneys containing fruits above.	Fruit for 3 portions but spread through the day. One portion at a time= 80g fresh fruit, 1tbs dried fruit or100ml fruit juice. Portion sizes in brackets are for fruits which must be more strictly limited*. Banana, Blueberry, Cantaloupe, Clementine, Cranberries, Galia melon, Grapes, Grapefruit* ( <half, honeydew="" kiwi,="" lemon,<br="" melon,="" small),="">Lime, Lychee* (&lt;5), mandarin, Orange, Passion fruit, Papaya, Pineapple, Pomegranate*(half small) Raspberry, Raisins Rhubarb, Strawberry.</half,>
Vegetables Vegetables with * may be eaten in very small quantities (<3tbs /day). Those underlined must be <u>strictly avoided.</u> Artichoke hearts*, Artichoke (Jerusalem), Asparagus*, Avocado* (1/4). Beetroot*, Broccoli*, Brussels Sprouts*, Butternut squash*, <u>Cauliflower</u> , Celery*, <u>Chicory root</u> , Fennel* (bulb and leaves) <u>Garlic</u> , <u>Leek</u> , Mange tout*, <u>Mushroom</u> , Okra*, <u>Onion</u> (red, white, Spanish, shallots), Peas*, Savoy Cabbage*, <u>Spring onion</u> (white part). Sweet potato*, Sweetcorn*, <u>Beans and pulses</u> (chickpeas, broad beans, soy beans, black eyes beans, butter beans, lentils, baked beans, kidney beans, split peas).	Vegetables Try to have at least 2 portions per day. One portion is 80g (2-3tbs). There is no upper limit to the amount you can have at once Alfalfa, Asparagus, Sugar snap peas, Aubergine, Bamboo shoot, Beansprouts, Carrot, Chard, Chilli, Chive, Courgette, Cucumber, Endive, Green beans, Lettuce, Olive, Pak Choy, Parsnip, Pepper (green, orange, yellow and red), Plantain, White Potato, Pumpkin, Radish, Rocket, Seaweed, Spinach, Spring onion (green part only), Swede, Tomato, Turnip, White or red cabbage
Flavoured crisps. soups, stocks, gravy, sauces, dressings, & ready meals These should be avoided as they routinely contain garlic or onion ingredients Garlic or onion ingredients: These should be avoided as they are a concentrated source of FODMAPs. Check ingredients labels. Dried onion or garlic, garlic or onion extract, garlic or onion powder, garlic or onion puree, garlic, or onion salt.	Soups, stocks, gravy, sauces, dressings & ready meals Use homemade alternatives with dried herbs and spices or chives below. Garlic infused oil (strained) may be used and Asofoetida powder (hing) can provide onion flavour. Salt, pepper, white/rice vinegar, balsamic vinegar (1tbs only) any herbs, spices, chilli, chives, cinnamon, coriander, ginger, lemon/lime juice green part of spring onion, marmite, mustard.

Other	
Foods to avoid	<u>Suitable</u>
<b>Sugars, preserves, and confectionary</b> Honey, Agave nectar, Fructose syrup, Sweet and savoury sauces, snack bars. Check ingredients label for: glucose-fructose syrup, fructose-glucose syrup, high fructose corn syrup and high fructose corn syrup solids. Added Polyols Sugar-free mints, Sugar-free chewing gums, sugar-free lollies, sugar-free chocolate, some 'diet/low calorie' products, protein powders and supplement drinks. Check ingredients label for sorbitol, mannitol, xylitol, isomalt. Added Fructans Foods or tablets with added fibre or prebiotics e.g some yoghurts, fermented milk drinks, snack bars, breakfast cereals. Check ingredients labels for FOS, inulin, oligfructose.	<b>Sugars, preserves and confectionary</b> Sugar, golden syrup, maple syrup, treacle, jam and marmalade (from suitable fruits). Check ingredients in low sugar or reduced sugar jam and marmalade for Polyols. Some artificial sweeteners: aspartame, acesulfame K, saccharin, Canderel, Silver spoon Splenda, Hermesetas. Most people in the UK eat too much sugar. For a healthy diet you should try eating less food containing added sugars. High sugar foods contain more than 15g per 100g and low sugar foods contain up to 5g sugars per 100g.
Nuts and seeds Cashew and Pistachio Nuts. Coconut (dried) in large quantities.	Nuts and seeds Most are suitable in moderation (small handful) Macadamia nuts, peanuts, pecans, pine nuts, pumpkin seeds, sesame seeds, sunflower seeds, walnuts. Coconut, dried (<3tbs) Almonds and hazelnuts - maximum 10. Peanut butter
<b>Drinks</b> Chicory (Camp), Dandelion tea, Camomile, Chai, Fennel. Check fruit and herbal teas for unsuitable fruit (apple). Alcohol-Rum, Dessert wine.	<b>Drinks</b> Have at least 6-8 glasses or 1.5-2.0 litres of fluid per day. Choose water or non-caffeinated drinks and limit fizzy drinks. Alcohol – is a stimulant and may increase IBS symptoms. While most alcoholic drinks are low in FODMAP's, if alcohol increases your symptoms, limit your intake.

Dairy	
Foods to avoid	<u>Suitable</u>
Milk Whole, skimmed, semi-skimmed milk, goats, sheeps milk, buttermilk* milk powder, evaporated milk, condensed milk.	<ul> <li>Milk Ensure alternative milks are calcium enriched. Check alternative milks for apple juice, fructose and inulin. <ul> <li>Lactose free milk</li> <li>Almond or hazelnut milk</li> <li>&lt; 60ml Soya milk</li> <li>200ml rice milk</li> <li>&lt;50ml Oat milk</li> <li>*1/4 cup (50ml) maximum of whole, skimmed or semi –skimmed milk is permitted in a drink, part of a meal or snack </li> </ul></li></ul>
<b>Yoghurt</b> Whole milk, low fat, greek, drinking yoghurts*. Fromage frais.	<ul> <li>Yoghurt</li> <li>Check for problem fruit, FOS, inulin, oligofructose.</li> <li>fruit juice concentrate, fructose.</li> <li>Lactose free cow's milk yoghurt</li> <li>Max 125g Soya yoghurt</li> <li>Coconut yoghurt</li> <li>*2tbs maximum (check for other FODMAP's) is permitted as part of a meal or snack.</li> </ul>
<b>Cheese</b> * Processed cheese, cheese slices, reduced fat cheddar	<b>Cheese</b> * 2 tbs maximum Cottage cheese, ricotta, quark, low fat soft cheese, mascarpone, 2 slices halloumi. Cheddar, feta, mozzarella, brie, camembert, blue, cream cheese, Edam, goats.
Other dairy:	Other dairy: Butter, cream, sour cream, crème fraiche are low lactose in small amounts.
Custard* Standard custard made from cows/goats milk	<b>Custard</b> Soya custard /Custard desserts (Alpro – all flavours) *2 tbs maximum of normal custard is allowed. If making from powder use lactose-free milk.
Ice cream* Dairy ice cream, goats milk ice cream	Ice cream check for other FODMAP's • Lactose free ice-cream (Lactofree) • Soya ice cream (Swedish Glace) • • *1 scoop maximum of normal ice cream
Chocolate*	Chocolate: Dark chocolate Ok *30g maximum of milk / white chocolate

\*These foods are tolerated in small amounts – see suitable food column for amounts.

#### Low FODMAP Meal Plan: Choose from the following meal ideas:

#### <u>Breakfast</u>

- Porridge or wheat free cereal with suitable milk
- Wheat/rye- free toast with cheese/suitable jam/peanut butter
- 2 eggs on wheat/rye free or 100% sourdough spelt toast
- Cheese and chive omelette
- Smoothie made with suitable fruit and lactose-free yogurt
- Cooked breakfast bacon, egg, tomato, hash brown with wheat/rye free or sourdough spelt toast

#### <u>Lunch</u>

- Wheat/rye free sandwich/pitta/wrap or wheat/rye free crispbread with
- tuna/sardines/salmon/egg/cheese/cold meat/poultry/ham with salad
- Homemade soup made with suitable vegetables and wheat free bread.
- Baked potato or rice with tuna/ cheese or homemade filling (e.g. chilli)
- Salad/rice salad/potato salad/gluten free pasta salad with cold meat/tuna/eggs/cheese
- Sushi/sashimi
- Suitable fruit/yoghurt

#### <u>Dinner</u>

• Steak /chop/fish/poultry /tofu/Quorn with suitable vegetables and rice/rice noodles/wheat free pasta/gluten free pasta/potato /polenta

- Risotto or omelette with salad
- Gluten free pasta/spaghetti with bolognaise (no onion/garlic) with salad
- Corn taco shells with beef mince, crème fraiche and salad
- Suitable fruit/fruit salad/ rice pudding/ice cream/yoghurt/custard.

#### <u>Beverages</u>

- Water +/- lemon
- Semi-skimmed milk (or alternative milk)
- Tea/coffee

• 1/3 glass (100ml) fruit juice/smoothie made with suitable fruit. Tip: add water to fruit juice to make a longer drink.

• Fruit squash – suitable fruit flavours (check sweeteners)

#### <u>Snacks</u>

- Suitable fruit
- Low fat yoghurt (check ingredients + lactose free if needed)
- Vegetable sticks and dip (check for onion)
- Cheese and tomato/ peanut butter on rice crackers/corn/oat cakes
- Handful of suitable nuts

• Occasionally: Potato crisps (unsalted, ready salted or salt and vinegar), popcorn, dark chocolate, wheat free / gluten free cakes.

#### Eating out on a low FODMAP diet

Eating out can be challenging on a low FODMAP diet. You need to choose carefully, but some restaurants and food outlets now provide wheat and gluten free options for those that need it, which can be a useful starting point.

#### Suitable choices for main meal:

- Fish, poultry or meat with potatoes, salad or vegetables (e.g. steak/fish and chips)
- Risotto (request no onion/leek) with suitable vegetables
- Baked potato with salad and suitable filling.
- Asian style rice or rice noodle dishes (check vegetables), sushi.
- Gluten free pizza (choose your own toppings)

#### Tips

- Avoid eating coatings, batter, sauces,
- Choose options that are without a sauce (e.g. steak, stir fry, risotto) Ask for sauce or gravy to be served in a separate dish
- Gluten free options avoid wheat but check for other ingredients e.g. leek in gluten free pie.

Enjoy eating out! Some people get symptoms when eating out because it is difficult to avoid all problem ingredients. However, eating out is a social experience and benefits should outweigh the symptoms.

#### What if my symptoms do not improve on a low FODMAP diet?

The low FODMAP diet is beneficial for many individuals with IBS-like symptoms but not for everyone. If you have followed the closely but your symptoms have not improved after 6 weeks, please contact your doctor/dietitian for further advice.

#### What about foods not listed?

Further details on other foods and safe quantities can be found on the Monash University or low FODMAP food maestro apps:

<u>https://www.monashfodmap.com/ibs-central/i-have-ibs/starting-the-low-fodmap-diet/</u> <u>https://www.foodmaestro.me/consumer-apps</u> (scroll down to bottom half of the webpage)

#### Medication

For individuals in whom dietary and lifestyle alteration does not provide adequate relief of symptoms a number of treatment options are available depending on the circumstances.

*For 'constipation-predominant' IBS* Constipation exacerbates the crampy pain and bloating that are part of constipation predominant IBS. Avoidance of constipation may require use of a daily stool softener or bulking agent/fibre supplement. The dose should be adjusted up or down according to response: the goal should be soft stools easily passed daily.

'Over the counter' examples of these include Celevac, Normacol, Fybogel, Milk of Magnesia, Epsom Salts and Milpar. You can also get these on prescription. You may have to try several before you find one that suits your system.

If constipation is not settling with stool softener, then it may be helpful to combine one of the treatments above with a stimulant laxative such as senna, bisacodyl or codanthrusate – although these should not be used frequently if possible as they can exacerbate crampy pain.

*For 'diarrhoea-predominant' IBS* If a low fibre diet and other dietary manipulations have failed to control symptoms, then anti-diarrhoeals can help. Imodium (Loperamide) can be safely taken on a daily basis for the long term provided other causes of diarrhoea have been ruled out. Large doses of up to 6 capsules per day may be required. Many people will prefer to use them just when they feel that diarrhoea will be a problem, e.g. before going out. In some situations, codeine phosphate may be used. Cholestyramine can help so called 'bile salt malabsorption' which can overlap with IBS.

*For pain and bloating* Antispasmodic drugs such as Buscopan, Mebeverine (Colofac) alverine citrate (Spasmonal) or Colpermin may help relieve the spasm and pain, but response is variable. These treatments are best taken 20-30 minutes before meals. They can be taken regularly or as required. If you get heartburn use antacids such as Gaviscon or Rennies.

Low dose amitriptyline and fluoxetine (Prozac) can be very helpful in relieving pain in IBS. Because they are also used as anti-depressants people are often quick to dismiss these as an option but do bear in mind that they have been shown to be the best medical remedy for pain in IBS. They work both by an

effect on gut sensation and motility as well as an effect on stress/mood and they are also frequently used to control chronic pain. They are not addictive and have an excellent safety record.

Amitriptyline has a mild sedative action and is best taken before. It is usually best to start at a dose of 10mg, nudging up to 25mg and possibly 50mg at 4-week intervals depending on the response. These treatments take up to 10 weeks to reach full effect and so do be patient. It is important to take them regularly.

In many cases of IBS exclusion of serious disease, reassurance, explanation, and symptomatic treatment are all that is required, and regular medication is not necessary. Having developed a strategy to manage and cope with the symptoms, an important goal is to minimize the impact of these symptoms on daily activities. This means returning so far as possible to full work, education, or social activities. It is reassuring to know that for many the symptoms of IBS resolve on their own with time, although in people who are predisposed, they may come and go over time to a greater or lesser extent.

## Useful contacts

- · Ask your pharmacist
- Patient UK www.patient.co.uk
- NHS Choices, <u>www.nhs.uk/conditions/</u>

#### If you have further questions:

Call the *practice* on *01285 653184 or 01285 653122* 

If you require *urgent* medical advice, call 111 (24 Hrs)

In an *emergency* call *999*