Irritable Bowel Syndrome (IBS)

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Irritable bowel syndrome: the clinical approach

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ABSTRACT

Irritable bowel syndrome (IBS) is a chronic and debilitating functional gastrointestinal disorder which presents with abdominal pain associated with alteration of bowel habits. IBS is a common condition affecting 9-23% of the general population, being the 80% female, with considerable impact on quality of life and health care costs. The exact pathogenesis of IBS remains elusive, but is clearly multifactorial and includes environmental and host factors. Management of patients with IBS is challenging since diagnosis and treatment could require several approaches with unsatisfactory results. In any case, the diagnosis of IBS is based on the positive identification of symptoms consistent with this condition and by excluding an underling organic disease. Before choosing therapeutic options, a strong reassuring physician-patient relationship is crucial. The therapeutic approach of IBS may consist of both non-pharmacological therapies and pharmacotherapy and should be based on prevalent symptomatology. Lifestyle modifications such as stress reduction and increased physical activity seem to be useful to improve symptoms and should be encouraged. The same for dietary modifications that represent an important first-line therapeutic option. The pharmacological treatment should take into account the predominant symptom and test one drug at a time with a predefined time point for effectiveness evaluation and dosage adjustment. This clinical review offers an updated overview on epidemiology, pathogenesis, diagnosis and treatment of IBS.

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KEY WORDS: Irritable bowel syndrome - Constipation - Diarrhea - Abdominal pain.

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- **Definition**: A chronic gastrointestinal disorder that affects the large intestine causing diarrhea, abdominal pain, cramps, bloating and flatulence.
- presence of abdominal pain associated with alteration of bowel habits without an underlying structural pathology
- The condition affects 25% of otherwise healthy individuals at any one point in time.
- 80% female, with considerable impact on quality of life and health care costs.



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IBS/ Causes

- The precise cause of IBS isn't known.
- The factors that are thought to be involved in its pathogenesis are heterogeneous; environmental factors and host factors.
- Problems with brain-gut interaction.
- stressful or difficult early life events.
- certain mental disorders, such as depression and anxiety.
- Bacterial infection.
- Small intestinal bacterial overgrowth (SIBO).
- food intolerances or sensitivities, in which certain foods cause digestive symptoms

IBS/ Symptoms

- In most cases, IBS presents as a chronic relapsing disease in which symptoms may change over time
- Stomach pain or cramps usually worse after eating and better after the stool.
- Bloating your tummy/ stomach may feel uncomfortably full and swollen.
- Diarrhea you may have watery stool and sometimes need to use the bathroom suddenly
- constipation you may strain and feel like you cannot empty your bowels fully.
- Tiredness and a lack of energy.
- Backache
- Bowel incontinence.
- There may be days when your symptoms are better and days when they're
 worse (flare-ups). They may be triggered by food or drink. Uploaded By: anonymou

• IBS is divided into four subgroups:

- 1- IBS with constipation (IBS-C).
- 2- IBS with diarrhea (IBS-D).
- 3- IBS with a mixed pattern (IBS-M) of constipation and diarrhea.
- 4- unclassified IBS (IBS-U), without any of the previous symptoms.

IBS/ Diagnosis

- Doctors review your symptoms and medical and family history and perform a physical exam.
- May order tests to rule out other health problems.
- Review the symptoms; two out of three.
- Your pain is related to your bowel movements. For example, your pain may improve or get worse after bowel movements.
- You notice a change in how often you have a bowel movement.
- You notice a change in the way your stools look.

IBS/ Diagnosis

Also:

- How long you've had symptoms; if
- you've had symptoms at least once a week in the last 3 months.
- your symptoms first started at least 6 months ago.
- The diagnose IBS even if you've had symptoms for a shorter length of time.

There is no specific test to diagnosis of IBS, yet Blood test and Stool test.

IBS/ Stool

Solid waste that passes through your rectum as a bowel movement.
Stools are undigested food, bacteria, mucus, and dead cells. Also called feces.

Type 1 Separate hard lumps, like nuts (hard to pass) Sausage-shaped but lumpy Type 2 Like a sausage but with cracks on the Type 3 surface Type 4 Like a sausage or snake, smooth and soft Type 5 Soft blobs with clear-cut edges Fluffy pieces with ragged edges, a mushy Type 6 stool Watery, no solid pieces, entirely liquid Type 7 Uploaded By: 12440 my mous

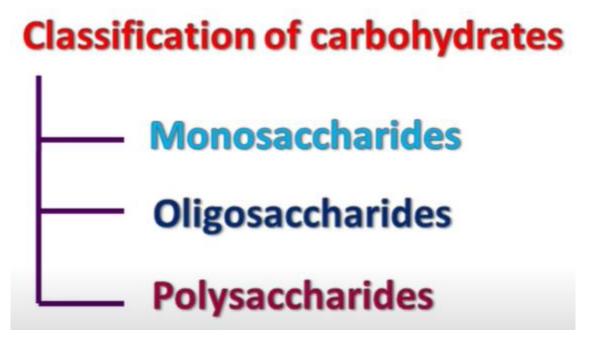
Treatment:

- Despite the relatively high prevalence IBS remains an important medical challenge in term of diagnosis and treatment.
- There's no cure, but diet changes and medicines can often help control the symptoms.
- Changes in what you eat and other lifestyle change, medicines, probiotics, mental health therapies or drug treatment.

• Lifestyle changes

- Low FODMAP.
- Probiotics

- FODMAP stands for, fermentable oligosaccharides, disaccharides, monosaccharide and polyols. Which are short-chain carbohydrates that the small intestine absorb poorly.
- Saccharide means sugar.



Food Examples:

- Oligosaccharides: wheat, rye, nuts, legumes, artichokes, garlic, and onion
- **Disaccharides:** lactose-containing products such as milk, yogurt, soft cheese, ice cream, buttermilk, condensed milk, and whipped cream
- fructose-containing foods, including fruits such as apples, pears, watermelon, and mango and sweeteners such as honey, and high fructose corn syrup.
- Polyols: sorbitol (alcohol sugar) in apples, pears, cauliflower, mushrooms.

- What effects do FODMAPS have on the digestive system?
- FODMAPs are short-chain carbohydrates (sugars) that are highly fermentable, thus which means that they go through chemical changes in the GI system, and are poorly absorbed during digestion.
- When FODMAPs reach the colon (large intestine), bacteria ferment these sugars, turning them into gas and chemicals.
- This stretches the walls of the colon, causing abdominal bloating, distension, cramping, pain, and/or changes in bowel habits.
- FODMAPs are not unhealthy or harmful, but may exacerbate GI symptoms in those with sensitive GI tracts.

Diet principles:

- Eliminating or restricting FODMAPs from the diet may greatly improve symptoms of IBS and other functional GI disease.
- The low FODMAP diet can be used alone, or side-by-side with medications for the treatment of IBS.
- While the low FODMAP diet has been studied mostly in IBS, it is often used for other GI conditions e.g. celiac disease and small intestinal bacterial overgrowth.
- The low FODMAP diet doesn't help everyone!!

• There are three phases of the low FODMAP diet:

- 1) Elimination.
- 2) Reintroduction.
- 3) Personalization.

• During the **elimination phase**, which lasts 2-4 weeks, all FODMAPs are taken out of the diet.

- If symptoms are significantly improved with the elimination phase, patients will start the reintroduction phase, where groups of FODMAPs are added back in one at a time.
- Once it is determined which FODMAPs cause symptoms, many patients avoid these foods, but still ingest other FODMAPs on a regular basis.
- Following this **personally** developed Low-FODMAP plan.

• Portion size matters when it comes to FODMAPs; high vs. low in FODMAP.

	Grains	Fruits	Vegetables	Dairy / Plant- based alternatives	Proteins	Beverages
High FODMAP	Wheat	Apples/apple juice,	Artichoke	Coconut milk (in the carton)	Most Beans/Legumes Processed meats*	High fructose containing sodas
	Rye	Amricat	Asparagus			and juices
	Barley	Apricot	Cauliflower	Frozen yogurt,		Rum
		Blackberries		Ice cream,		
			Garlic			Tea: Chamomile,
		Cherries	Leeks	Milk		oolong, fennel, & chai
		Dates		Soft cheese		
			Mushrooms			
		Grapefruit	(button, portabella)	Soy milk	Activa	ite Windows
		Mango		Yogurt	Go to S	ettings to activate Wind
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Low FODMAP	Corn tortillas/chips	Banana (unripe)	Bok choy	Almond milk*Cheese	Beans: edamame lentils	Alcohol: wine , (most)
	corumac, compo	()	Broccoli	(most)	Canned/rinsed:	(555)
	Grits	Grapes			chickpeas	beer
	Olyston for a	IZharifan da	Carrots	Coconut yogurt	Doof	
	Gluten free- pastas	Kiwifruit	Chives	Hemp milk*	Beef	spirits
	paotao	Lemon	Onives	Tremp mix	Chicken	Coffee
	crackers and		Cucumber	Lactose free- ice		
	breads*	Lime		cream	Egg	Sucrose-
			Eggplant			sweetened or die
	Oatmeal	Mandarin	12.1	milk yogurt*	Fish/Seafood	soft drinks
	Dotato	orange	Kale	cattaga shasaa	Dork	Too (event thee
	Potato	Orange	Lettuce	cottage cheese	Pork	Tea (except those listed above)
	Popcorn	Ordinge	Lettude		Turkey	noted above)
	·	Papaya	Mushroom			Water
	Rice		(oyster)			ate Windows
		Pineapple			Go to S	Settings to activate Win
	Sourdough		Olives		Tofu-firm	

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