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Disclosures for Patsy Catsos, MS, RDN, LD

 Patsy Catsos Advanced Nutrition LLC, telehealth practice, editor <u>www.ihsfree.net_author</u> of various consumer publications, recipe developer

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American College of Gastroenterology, Nutrition Expert, Functional GI Circle

Advisory Panel: American College of Gastroenterology, Monash University Department of Gastroenterology

ModifyHealth Inc. Advisory board (shareholder) and consultant

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Session Le	arning Objectives	5
At the end of this	session, participan	ts will be able to
Identify signs and symptoms c/w histamine intolerance or sucrase isomaltase deficiency	Communicate status of (and limitations of) evidence-based recommendations for histamine intolerance and sucrase-isomaltase	Identify resources for managing histamine intolerance and sucrase-isomaltase deficiency





FODMAPs

Fermentable Oligosaccharides (fructans, GOS) Disaccharides (lactose) Monosaccharides (fructose) And Polyols (mannitol, sorbitol)

FODMAPs are poorly absorbed, short-chain carbohydrates



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IBS-Like Symptoms Can Arise From Other Causes

Illustration from The Human Body Book, DK Publishing, 2007

- Fish/seafood allergy r/o by board-certified allergist.
- Working hypothesis: histamine intolerance

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"I just want to make sense of it all"

- 62 patients with with HIT were surveyed

Threshold Effect

- Dose-response varies per person
- At very high levels, even healthy individuals can experience toxic effects (i.e. scombroid poisoning)
- Cumulative effect complicates questions of timing
- Histamine "poisoning" occurs in a few minutes to two hours (Becker JAMA 2001)

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Diagnosis

No good biomarkers to ID patients with the condition though DAO activity is proposed (Serum? Mucosal?) Table 2. Diagnosis of histamine intolerance.

Diagnostic citter	a (50)		
The diagnosis of l	istamine intolerance is made by a combination of the following criteria:		
 presenting ≥ 	2 typical symptoms of histamine intolerance (see below)		
 improvement 	t through histamine-free diet		
 improvement 	t through antihistaminergic medication.		
Symptom types [57,58]		
Skin	Itching, sudden reddening of the skin (flush symptoms) on the face and/or body, very rarely hives, angioedema (different to urticaria) and other exanthemas		
Digestion	Nausea, vomiting, diarrhea, abdominal pain		
Circulation	Tachycardia, drop in blood pressure, dizziness		
Respiratory	Chronic nasal flow, sneezing attacks		
Neurological	Headaches, migraines		
Gynecological	Menstrual cramps		
	Tuck et al. Nutrients 2019		

Histamine Intolerance in IBS

- Unknown what % of IBS patients have HIT
- Role of mast cells in IBS
 - Some studies have shown more mast cells in the epithelial tissues of people with IBS, especially IBS-D.
 - Mast cell density correlates with severity of IBS
 - Degranulation rate of mast cells higher in subjects with IBS
 - Mast cell stabilizers and anti-histamines reduce severity of abdominal pain in IBS
 Local IgE/mast cell response to food antigens demonstrated in mouse IBS model and to a
 lesser extent in humans

Zhang J Neurogastroenterol Motil 2016, Aguilera-Lizarranga Nature 2021

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Avoid	Avoid allergic foods: shrimp
Avoid	Avoid "Big Ones": Fish, cheese, aged sausages, fish sauce or paste, Asian restaurant food in general
Avoid	Avoid other fermented foods: chocolate, soy sauce, yogurt
Avoid	Avoid other potentially high histamine foods: tomatoes, grapefruit juice, eggplant, (little data, go easy here)
Avoid	Avoid suspected foods at first: yeast, wheat, sugar, eggs, fermented foods, molds, vinegars, alcohol, apples, onion, garlic
Freeze	Freeze leftovers promptly

Avoid	Avoid allergic foods: shrimp
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#2 Reintro	Avoid other fermented foods: chocolate, soy sauce, yogurt
#1 Reintro	Avoid other potentially high histamine foods: tomatoes, grapefruit juice, eggplant, (little data, go easy here)
#3 Reintro	Avoid suspected foods at first: yeast, wheat, sugar, eggs, fermented foods, molds, vinegars, alcohol, apples, onion, garlic
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Sucrose Malabsorption in Patients w/ Common Functional Symptoms

- Chart review of 258 consecutive adults
- Subjects had chronic unexplained symptoms and had been screened with hydrogen-methane or $^{13}\mathrm{C}\textsc{-sucrose}$ breath tests
- 34.4% were positive for sucrose malabsorption
- A subgroup received dietary counseling and/or enzyme replacement with 26/43 (60%) reporting symptomatic improvement.

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Pediatric Case Study

- 5-year-old female referred to me failure to thrive, question of FODMAP intolerance
- Daily bloating and belly aches with multiple school absences
- Daily diarrhea since weaning
- Diaper dermatitis with burning stools; still in a diaper
- No relevant family history
- Negative genetic testing but positive response to sacrosidase and low sugar, low starch diet

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Adult Case Study, Referral for CSID

- New diagnosis: CSID
- History: SIBO, Lactose intolerance, anemia, eating disorder NOS, GERD, hypothyroidism, IBS, migraine headache, osteopenia, sensitive to metals, light, sound.
- Symptoms: Three times weekly bouts of post-prandial excess gas, bloating, abdominal pain, diarrhea
- Other studies: normal
- Patient did not give permission for me to coordinate care with her providers

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Diet and Nutrition History

- History of underweight; Currently 5' 9.5", stable at 138 lbs (BMI 20.38)
 Long history of food intolerances and GI issues
- Eats chicken, turkey, fish, a few vegetables, cashews, almonds, pecans, pumpkin seeds. Less often, rice, oatmeal, quinoa, gluten-free bread. Regular intake of gluten-free sweets, candy.
- No dairy or fruitReports a "sugar addiction"

Sacrosidase

- Derived from baker's yeast
- Available from QOL Medical
- Glycerin-based solution; requires refrigeration
- Taken with each meal or snack (half before, half during)
- Dosing is based on patient's weight
- Dilute with cold liquid
- Does not help with starches
- Contraindicated for those with hypersensitivity to yeast, glycerin

or papain

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Follow-up:

- Tried sacrosidase enzyme but found it unpalatable; unclear whether it worked.
- Educated on CSID, normal and abnormal digestion and absorption of CHO, label reading, alternative sweeteners. Provided recipes.
- Finds it difficult to reduce intake of sweets
- Referred to a colleague with experience in EDO for help with sugar addiction

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