

Ice Breaker

- Introduce yourselves-what's your name? Tell us a bit about you.
- What are your expectations of today?



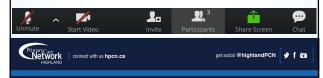
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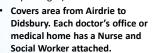
Zoom Basics (Virtual)

- You may have your video on or off.
- Please mute when your not speaking.
- Please feel free to ask questions either by unmuting or using the chat box.
- Any questions?



What is the Highland Primary Care Network?

 A group of family doctors who work together with the Highland Health Team (Nurses, Social Workers, Dietitian, Kinesiologist, Pharmacist & Provisional Psychologist)



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What is the Health Improvement Program?

- Guides individuals who are ready to take their health in their own hands and improve their quality of life.
- A variety of group classes you can choose what you would like to take when
- Flexible schedules
- Option of 1:1 visits in the medical home (phone/virtual)

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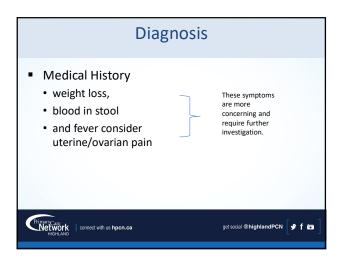




Agenda

- Diagnostic tests
- Irritable Bowel Syndrome and IBS-like syndromes
 Underlying Causes and similarities
- Mind-body Connection Stress reduction/Better Sleep
- Activity
- Fibre soluble
- Adequate fluids
- Caution with bowel stimulants (alcohol, tobacco, caffeine)
- Medications
- Diet
 - Assess balance first

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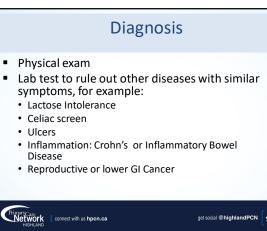


- Characterized by ABCD's
- Abdominal Pain Bloating Constipation or Diarrhea

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If pain or discomfort sometimes gets a little better after a bowel . movement, and other or cause has been ruled out this indicates IBS.

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Diagnosis: Is it IBS?

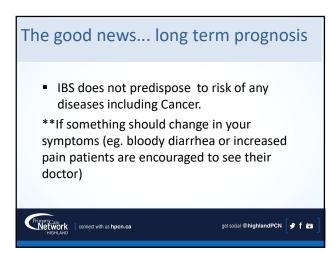
1. Have you had abdominal pain at least one day a week during the past 3 months?

2. If yes to above, have you experienced at least two of the following:

- Pain associated with bowel movements?
- Pain associated with a change in the frequency of bowel movements?
- Pain sometimes associated with constipation or diarrhea?

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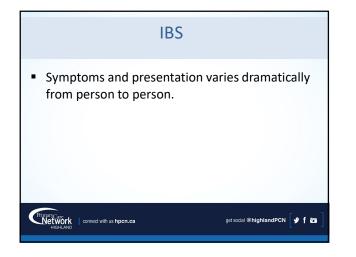
Not so good news...

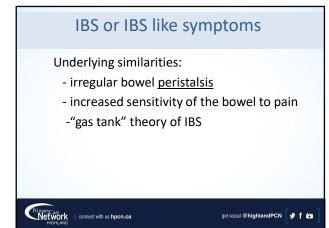
 At this time there is no known cure for IBS so efforts are focused on managing symptoms



- There is a lot of promising research being done
- Not everyone with IBS will become symptom free

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Theorized causes

- Precipitating factor or event gut infection never the same after (between 6-17% of folks with IBS)
- Sensitivities to hormones (serotonin; cyclical for women)
- Environmental (mood, lifestyle, stress, sleep)

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Theorized causes

- Bile acid malabsorption
- Abnormalities in GI secretions
- Abnormalities in GI contractions or peristalsis
- Excess alcohol and/or caffeine consumption

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Theorized causes

- Environmental (mood, lifestyle, stress, sleep)
- SIBO or Small Intestinal Bowel Overgrowth (could be up to 50% but needs more research)
- Relation to ?low stomach acid; lots of unknowns here
- Imbalance in the bacteria of the gut or <u>dysbiosis</u> (antibiotics/probiotics)

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Microbiota: You are an ecosystem 100 trillion cells 2-3 pounds of bacteria 70% of the cells of immune system

• 70% of the cells of immune system reside in the gut

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Factors that influence the microbiome...

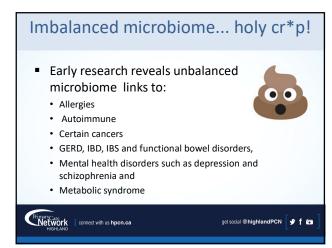
- Birthing,
- Dietary patterns,
 Frequency and dosing of medication- especially antibiotics



- Genetics, physiology
- Environment and
- Hygiene

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Enteric Nervous System- Brain in Your Gut

- <u>Brain-gut axis</u> brain and your gut in constant communication
- This second brain controls peristalsis and enzyme secretion that fuels the digestive process. It can also influence the way we feel.

	Brain	
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	Gut	iota

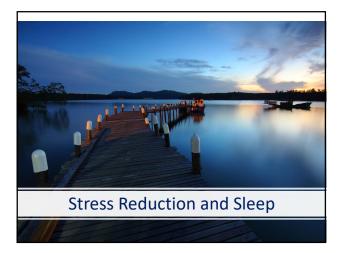
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What can help?

- Stress reduction/Better Sleep
- Active lifestyle
- Fibre soluble
- Adequate fluids
- Diet
 - Assess balance first
 - Fructose, Lactose and Sugar Alcohols... oh
 my

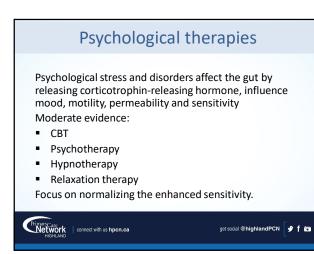
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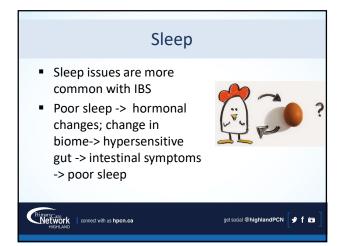


Mind-body Connection

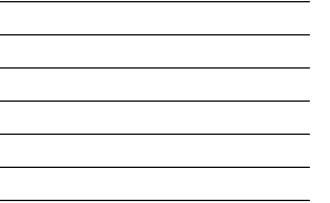
- Breathing can change how you digest and assimilate food (deep breathing or 4-7-8 breathing)
- Mindfulness, stress reduction strategies think parasympathetic rest and digest
- Tai chi, yoga, meditation and hypnotherapy have been shown to be very helpful in reducing or preventing IBS symptoms

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Activity

- Active patients show improvement in overall IBS score and improved QOL scores.
- Inactive patients report progressive worsening of symptoms over time.
- Mechanisms unknown (? stress reduction, improved muscle contraction, passage of gas)

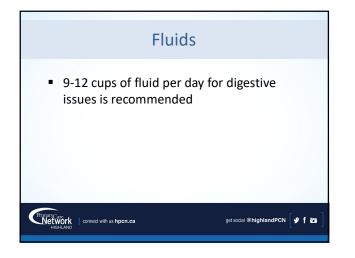
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Physio

- Beneficial if there is any pelvic floor dysfunction
- Relaxes the pelvic floor
- Gently stimulate propulsive forces in the gut

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Insoluble fibre

- Helps bulk stool, can make IBS symptoms worse in some people
 - Wheat bran, corn bran skins, and seeds of fruits and vegetables
 - Legumes and lentils (both soluble and insoluble)
 - Nuts and seeds (both soluble and insoluble)
 - Inulin (foods with added fibre and benefibre)

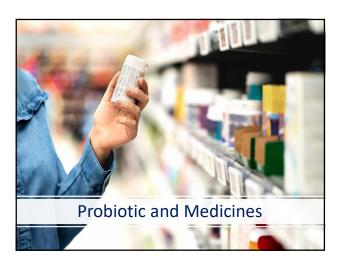
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Caution with bowel stimulants

- Nicotine (reduction can improve symptoms)
- Alcohol (may benefit from limiting or abstaining)
- Caffeine (no more than 300mg per day 2-3 small cups; less is better)

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A word on probiotics

- Try probiotic yogurt, fermented foods (kefir, refrigerated sauerkraut, kimchi, kombucha)
- Fermented dairy products that contain Bifidobacterium animalis, Streptococcus thermophilius and Lactobacillus bulgarius have also been shown to improve symptoms of IBS-constipation compared to placebo.

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Probiotics – showing promise

Bifidobacterium infantis 35624 (Align) note contains lactose

- Lactobacillus acidophilus CL1285[®], Lactobacillus casei LBC80 R[®]and Lactobacillus rhamnosus CLR2[®] (Bio-K+ IBS Control)
- L. acidophilus CUL-60, L. acidophilus CUL-21,
 B. animalis subsp. lactis CUL-34, B. bifidum CUL-20 (HMF Genstra)
- Visbiome
 [®]
 \$\$\$ approx \$114 for 1 month
- Lactobacillus plantarum 299V (TuZen[®]) \$\$\$
- Saccharomyces boulardii (Florastor[®])

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Medications – Abdominal Pain

- Antispasmodics reduce GI contractions (eg. Bentylol, Dicetel, Buscopan, Modulon)
- May use before meals for post-meal symptoms or as needed
- Side effects: constipation, dry mouth, fatigue

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Medications

- Lifestyle modifications provide more benefits than medications!
- Investigate possible drug-induced causes (eg. Some medications can cause diarrhea or constipation. Have your pharmacist do a medicine review if you have a concerns. Tell your pharmacist about any natural health products you are using.)

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Medications

- Drug therapy may be started when IBS symptoms start to affect quality of life
- Medications treat symptoms only
- There is no single medication to treat all IBS symptoms
 - Target the most bothersome symptoms

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Medications - Bloating

- Alleviate constipation
- Caution with fibre supplements may worsen bloating, especially insoluble fibres
- Medications generally not useful for bloating

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Medications - Constipation

- Increase dietary fibre intake, activity, fluid intake
- Soluble fibre supplement (eg. Metamucil)
 - Insoluble fibre (eg. Wheat bran) not very beneficial, may worsen pain/bloating
- Osmotic laxatives if fibre supplement fails (eg. Lax-A-Day, lactulose)

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- Selective Serotonin Reuptake Inhibitor (SSRI) (Paxil, Prozac, Celexa)
 - May benefit for abdominal pain and constipation symptoms in IBS
- Constella
 - Increase GI movement and fluids
 - Side effects: diarrhea, dehydration

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Medications - Diarrhea

- Imodium (loperamide) reduce GI motility
 - Drug of choice for painless diarrhea in IBS
- Tricyclic Antidepressants (TCAs) (amitriptyline, nortriptyline)
 - May benefit for abdominal pain and diarrhea symptoms in IBS, or people who also have mental health diagnosis

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Complimentary medicines

- Peppermint Oil 450 mg enterically coated capsule three times daily one hour before meals reduce abdominal pain, bloating and distention, diarrhea, constipation, feelings of fullness, urgency, gas and mucous production (not for GERD) anti-spasmodic
- Iberogast (STW 5) global symptom improvement

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Diet Interventions

- Food does not cause IBS but dietary changes may be used in the management
- High percentage 62-92% report modifying diet to manage symptoms
- Evidence for dietary changes (including but not limited to FODMAPS) to manage symptoms in IBS is limited to small number of RCT's

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General Diet Interventions

- Strive for:
 - Regular meals at regular times smaller meals more often
 - Balance (independent indicator of diet quality fruit and vegetable consumption)
 - Fibre
 - Fluids

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General Diet Interventions

- Be cautious and watch for symptoms:
 - Fructose (high sugar foods juice, honey, pop, candy, high fructose corn syrup, apples, grapes mangoes)
 - Sugar Alcohols (sugar substitutes diabetic candy and products, gum)
 - Lactose fluid milk, yogurt and dairy should be less of a problem

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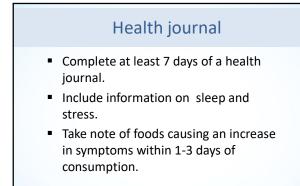
Most commonly reported triggers:

 Alcohol, caffeine, fatty foods, fructose, wheat/gluten, meat, dairy, and spices.



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Elimination Diets (including FODMAPS) – Medical Nutrition Therapy

- Should be delivered by Dietitian or specifically trained health care professional.
- Individualized based on symptoms
- Need to be nutritionally balanced so as not to exacerbate symptoms
- Short term 5-8 weeks maximum with detailed reintroduction plan (takes time and support)

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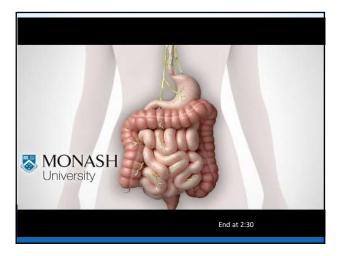
A word on FODMAPS



- Highly experimental quality of evidence is much higher for lifestyle;
- In terms of diet soluble fibre and water intake much better evidence
- High quality evidence lacking
- Important to have skilled health care provider involvement
- Complexity is high and adherence is quite low

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Summary

- Stress reduction/Better Sleep
- Activity
- Fibre soluble
- Adequate fluids
- Caution with bowel stimulants (alcohol, tobacco, caffeine)
- Medications
- Diet
 - Assess balance first

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