



CO-BIOME
By MICROBA

CLINICAL CONVERSATIONS

Gut Matters: A Clinical Lens on Gastrointestinal Health Disorders

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Meet your speakers



Dr Brad Leech
Nutritionist and Lead Clinical Educator



Alyssa Tait
Naturopath and Physiotherapist



Hayley Parcell
Nutritionist and Head of Co-Biome™ Healthcare



All participants have been muted



Questions will be answered at the end of each case study



Add your questions in the chat to have them answered live

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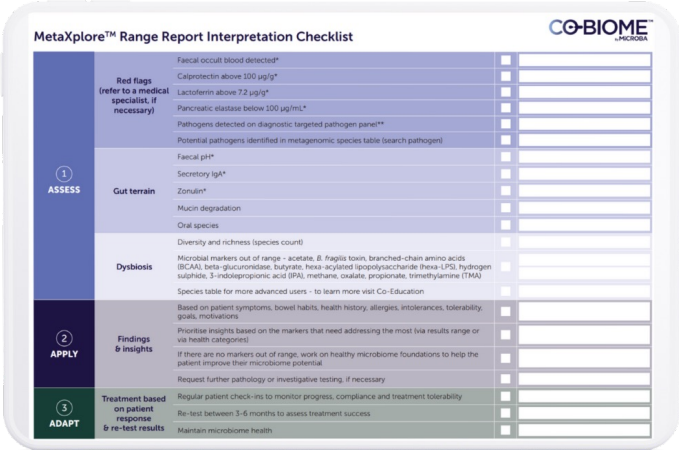
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Disclaimers

- The information provided in this webinar is for the use of qualified healthcare professionals.
- The information contained in this webinar is in no way to be taken as prescriptive or to replace a healthcare professional's duty of care and personalised care practices.
- The clinical opinions and patient case studies shared by presenters are solely those of the individual presenters and do not necessarily represent the view of Co-Biome.

Learning objectives

1. Assess your patient's microbiome and gastrointestinal health results using a clinical lens.
2. Interpret microbiome profiles on a personalised level to better examine your patient's unique microbiome and the interplay with their gastrointestinal presentation.
3. Apply personalised diet, supplement and lifestyle insights to shift the gut microbiome ecosystem.
4. Adapt your approach based on clinical outcomes and ongoing patient management.
5. Address challenges related to the interpretation and implementation of microbiome-derived interventions.



MetaXplore™ Range Report Interpretation Checklist


| Category | Item | Checklist | |
|----------|---|---|--------------------------|
| 1 ASSESS | Red flags (refer to a medical specialist, if necessary) | Faecal occult blood detection* | <input type="checkbox"/> |
| | | Calprotectin above 100 µg/g* | <input type="checkbox"/> |
| | | Lactoferrin above 7.2 µg/g* | <input type="checkbox"/> |
| | | Pancreatic elastase below 100 µg/ml** | <input type="checkbox"/> |
| | | Pathogens detected on diagnostic targeted pathogen panel** | <input type="checkbox"/> |
| | Gut terrain | Potential pathogens identified in metagenomic species table (search pathogen) | <input type="checkbox"/> |
| | | Faecal pH* | <input type="checkbox"/> |
| | | Secretory IgA* | <input type="checkbox"/> |
| | | Zonulin* | <input type="checkbox"/> |
| | | Mucin degradation | <input type="checkbox"/> |
| 2 APPLY | Dysbiosis | Oral species | <input type="checkbox"/> |
| | | Diversity and richness (species count) | <input type="checkbox"/> |
| | | Microbial markers out of range - acetate, B. fragilis toxin, branched-chain amino acids (BCAAs), beta-glucuronidase, butyrate, heat-stable lipopolysaccharide (heat-LPS), hydrogen sulphide, 3-indolepropionic acid (IPA), methane, oxalate, propionate, trimethylamine (TMA) | <input type="checkbox"/> |
| | | Species table for more advanced users - to learn more visit Co-Education | <input type="checkbox"/> |
| | | Based on patient symptoms, bowel habits, health history, allergies, intolerances, tolerability goals, medications | <input type="checkbox"/> |
| | Findings & insights | Prioritise insights based on the markers that need addressing the most (via results range or via health categories) | <input type="checkbox"/> |
| | | If there are no markers out of range, work on healthy microbiome foundations to help the patient improve their microbiome potential | <input type="checkbox"/> |
| | | Request further pathology or investigative testing, if necessary | <input type="checkbox"/> |
| | | Regular patient check-ins to monitor progress, compliance and treatment tolerability | <input type="checkbox"/> |
| | | Re-test between 3-6 months to assess treatment success | <input type="checkbox"/> |
| 3 ADAPT | Treatment based on patient response & re-test results | <input type="checkbox"/> | |
| | Maintain microbiome health | <input type="checkbox"/> | |

MetaXplore™ Range Report Interpretation Checklist


Helping you interpret your patient's report and decode their inner ecosystem

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Overview: Using gut microbiome and gastrointestinal testing in gastrointestinal health disorders




IBS-M
55-year-old female




IBS-C
36-year-old female



Constipation and bloating
42-year-old female



Ankylosing spondylitis without GI symptoms
37-year-old male

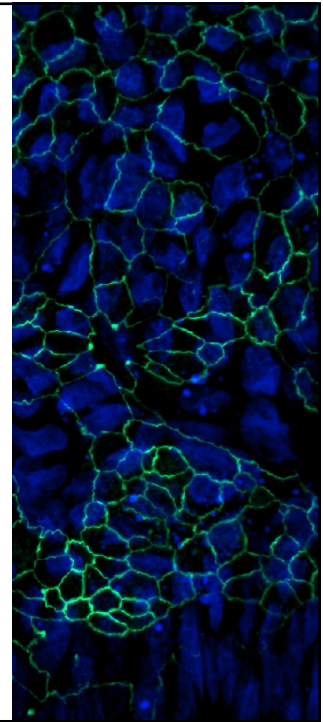


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Case 1: IBS-M

Dr Brad Leech



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Age/Gender: 55/Female

Diagnosed conditions: IBS-M

Case history:

- FODMAPS sensitive, symptoms of aches, foggy feeling and frequent headaches
- History of constipation alternating with diarrhoea, feeling of fullness, and incomplete emptying
- Joint pain triggered by gluten intake and frequent UTIs
- All symptoms started after the birth of first child



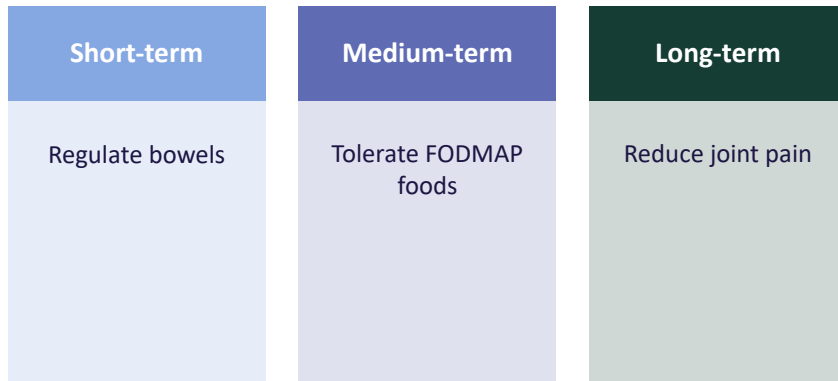
Medication/supplements: Magnesium Hydroxide (laxative)

Diet: Low FODMAP

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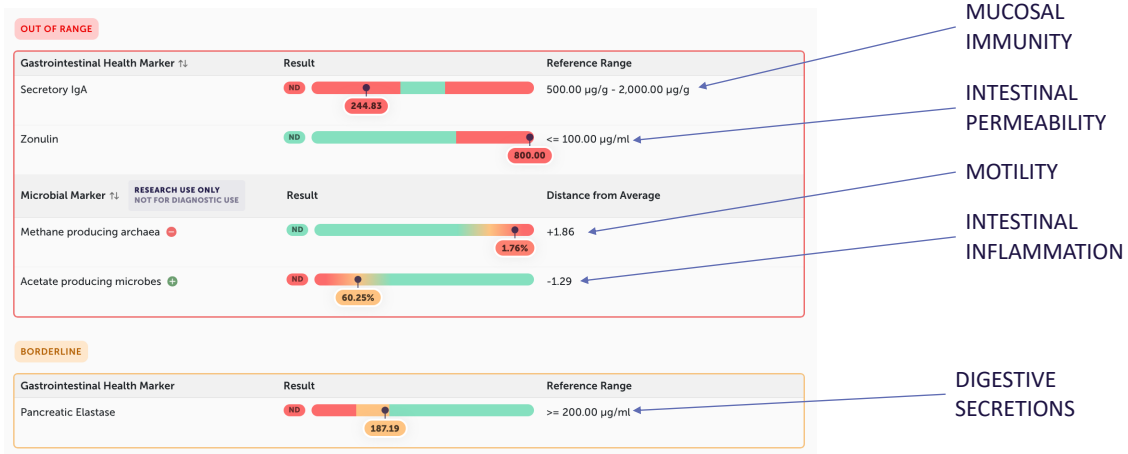
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Patient treatment goals



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MetaXplore test results



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Assess: Outcome of testing

| Red flags | Gut terrain | Dysbiosis |
|--------------|-----------------------------------|-----------------------------|
| No red flags | High zonulin Low secretory IgA | High methane Low acetate |



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Apply: Patient management plan

| Dietary prescription | Specific prebiotic prescription | Personalised supplement recommendations | Patient education |
|--|---|--|---|
| Limited dietary changes due to sensitivities. Suggested conscious eating habits, chew food thoroughly, eat in a relaxing environment. | No prebiotics were prescribed as the patient is sensitive to FODMAPs. Patient reports reactions to prebiotics. | Targeted prescriptions were given based on the MetaXplore results. | I educated the patient on the impact of increased intestinal permeability on her clinical symptoms. |



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Management

| Supplement | July | August | September | October | November | December | January | February | March |
|--------------------------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Ginger, pepper, Gentiana | 3x daily | 3x daily | 3x daily | | | | | | |
| Gut powder with glutamine & SB | 5g 2x daily | 5g 2x daily | 5g 2x daily | | | | | | |
| Amino acids | 6g daily | 6g daily | 6g daily | | | | | | |
| <i>L. Reuteri</i> DSM 17938 | 1 x daily | 1 x daily | 1 x daily | | | | | | |
| Thyroid supplement | | 2 x daily | 2 x daily | 2 x daily | 2 x daily | 2 x daily | 2 x daily | 2 x daily | 2 x daily |
| Probiotic | | | | 1 x daily | 1 x daily | 1 x daily | 1 x daily | 1 x daily | 1 x daily |
| Mg with gut nutrients | | | | 8g daily | 8g daily | 8g daily | 8g daily | 8g daily | 8g daily |



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“All symptoms have improved (food intolerances/constipation/diarrhoea/headaches/foggy/ joint pain/frequent UTIs).”

“I’m no longer avoiding FODMAP foods, I’ve been adding them back into my diet.”

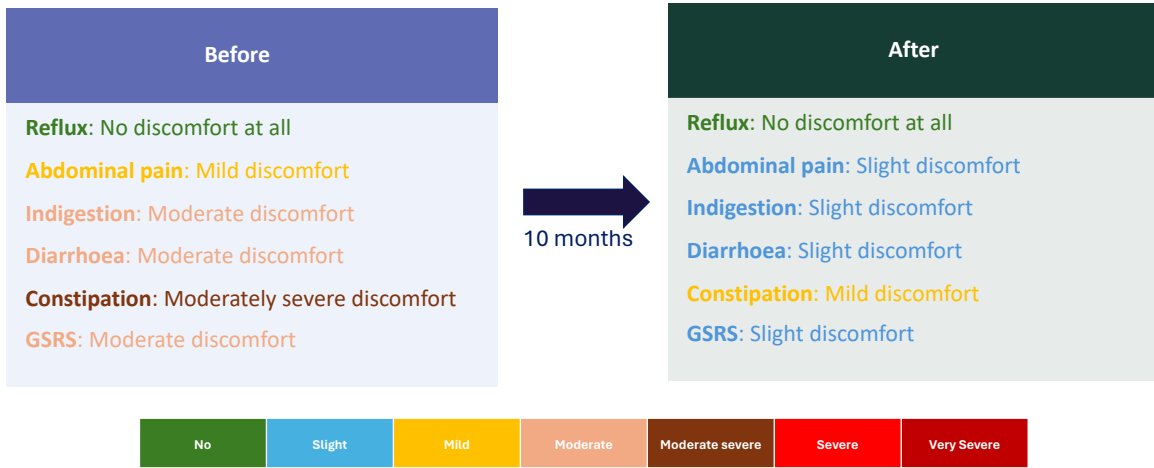
“I can now eat gluten without getting brain fog and joint pain.”

“I still get some fullness feeling in the stomach and incomplete emptying.”



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Gastrointestinal Symptom Rating Scale



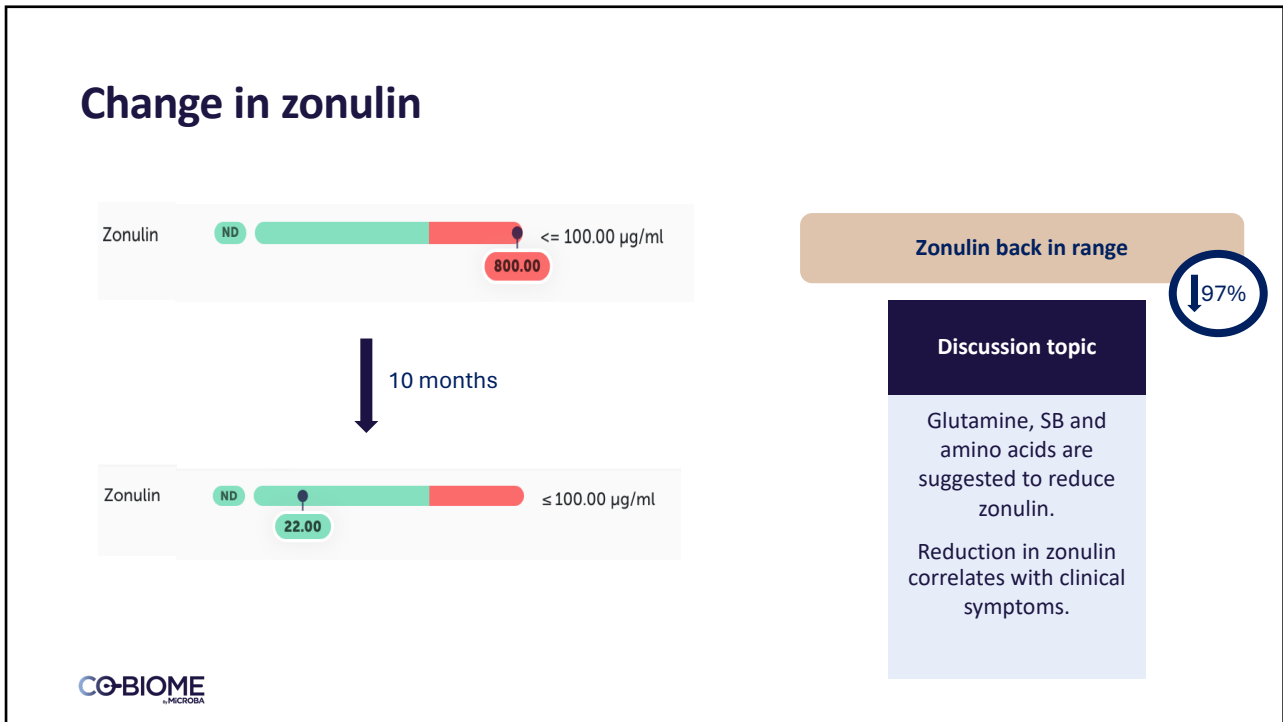
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Results of re-testing

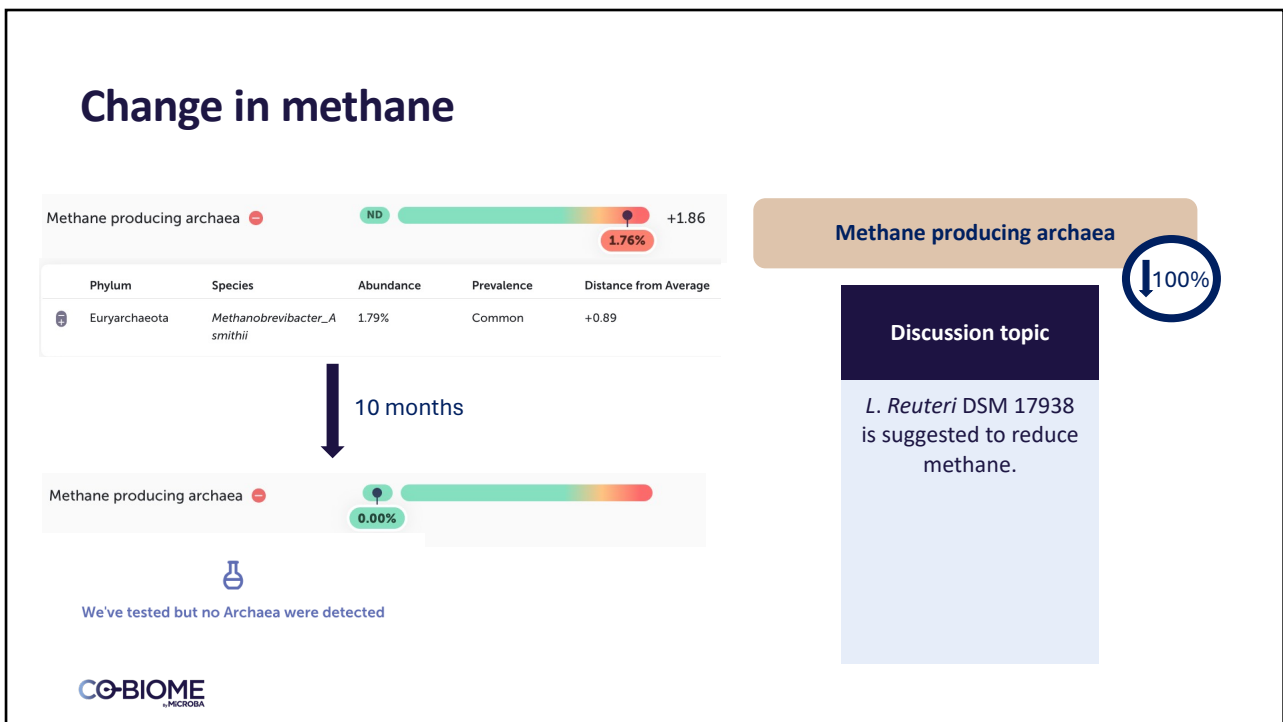
10 months between tests



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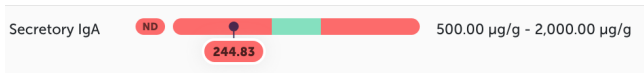


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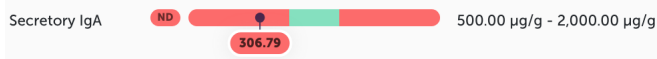


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Change in secretory IgA



10 months



Secretory IgA increased



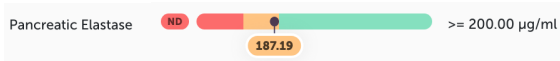
Discussion topic

Probiotics containing *Bifidobacterium animalis ssp lactis* BI-04 had slight impact; further interventions are required.

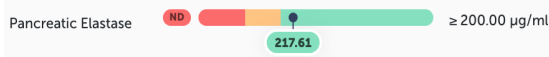


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Change in pancreatic elastase



10 months



Pancreatic elastase increased



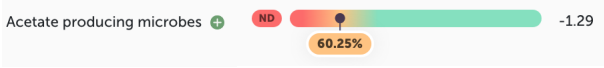
Discussion topic

Conscious eating habits and digestive herbs may support with stomach acid production.

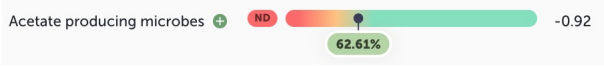


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Change in acetate



10 months



Acetate increased



Discussion topic

No targeted intervention given for acetate. Further interventions are required.

Change in diversity



10 months

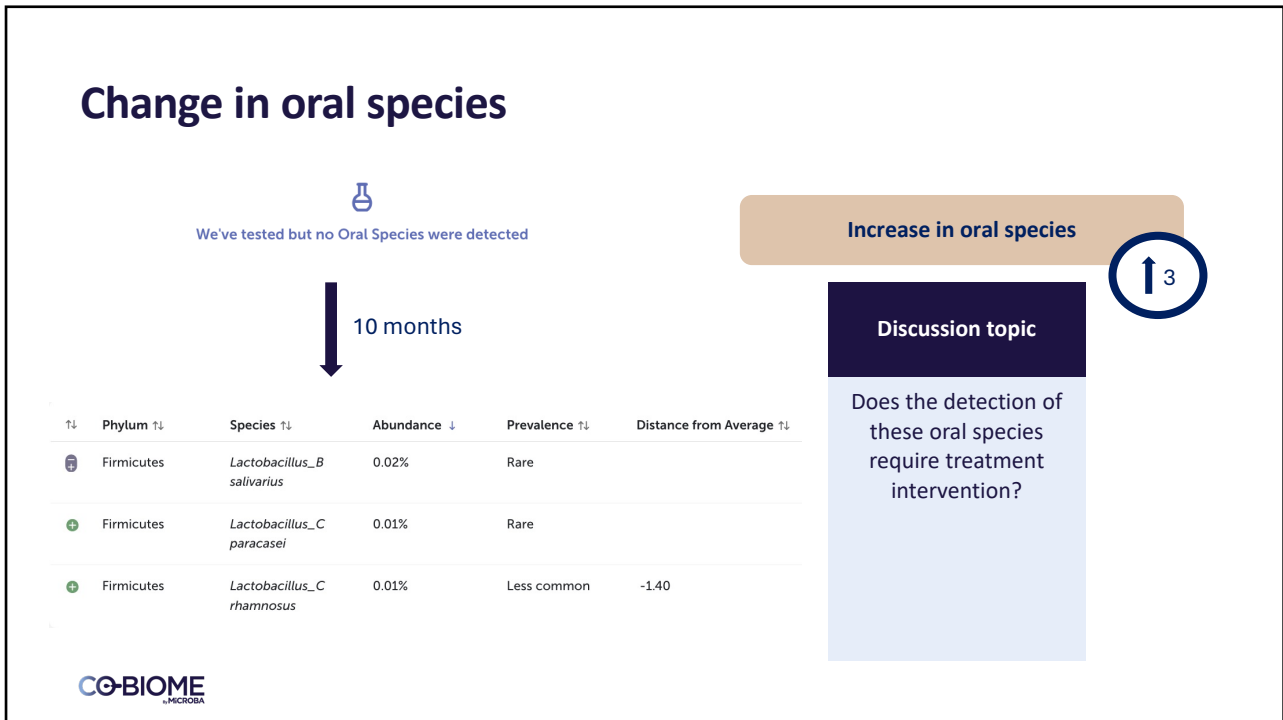


Diversity reduced

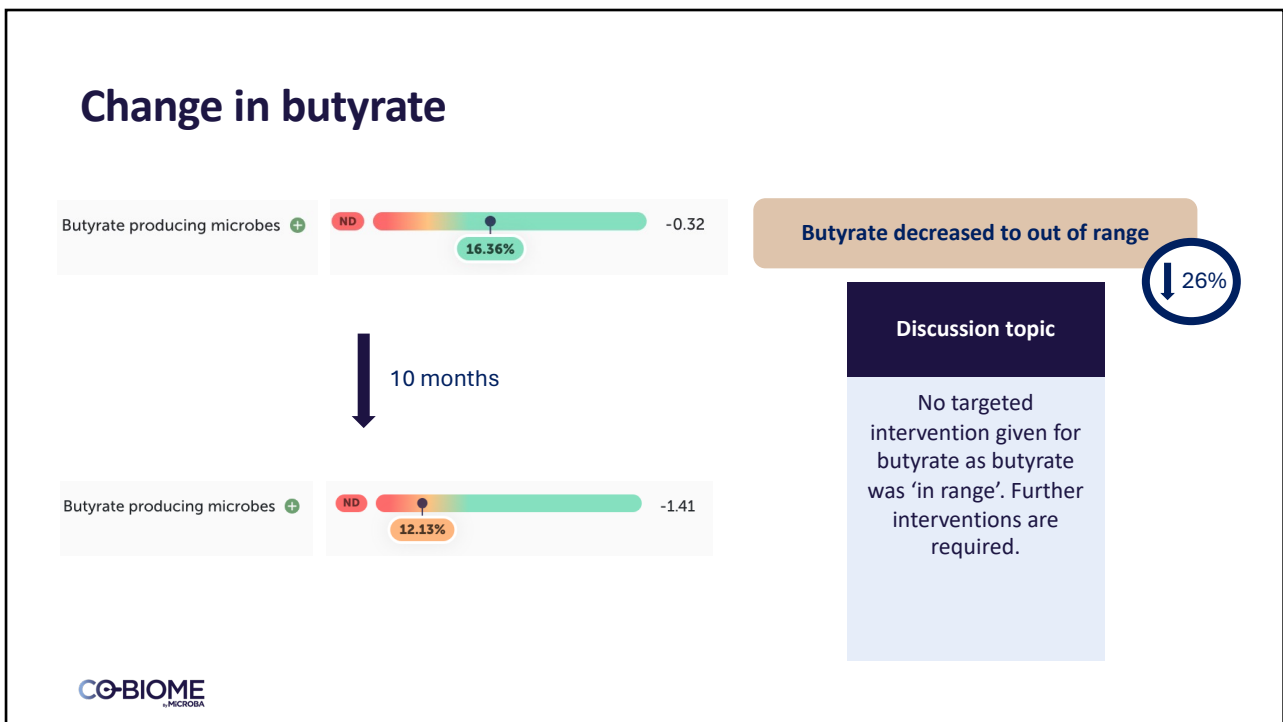


Discussion topic

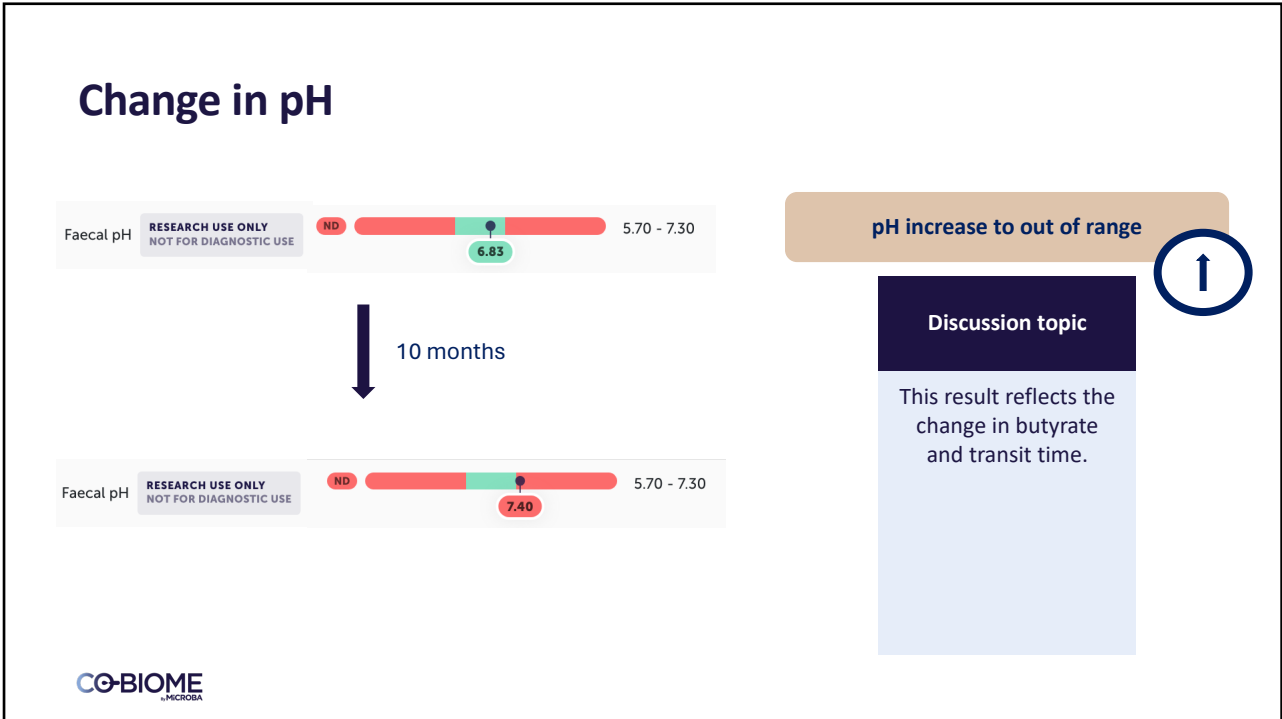
Without targeted interventions to feed the microbiome, microbial diversity and richness reduced.



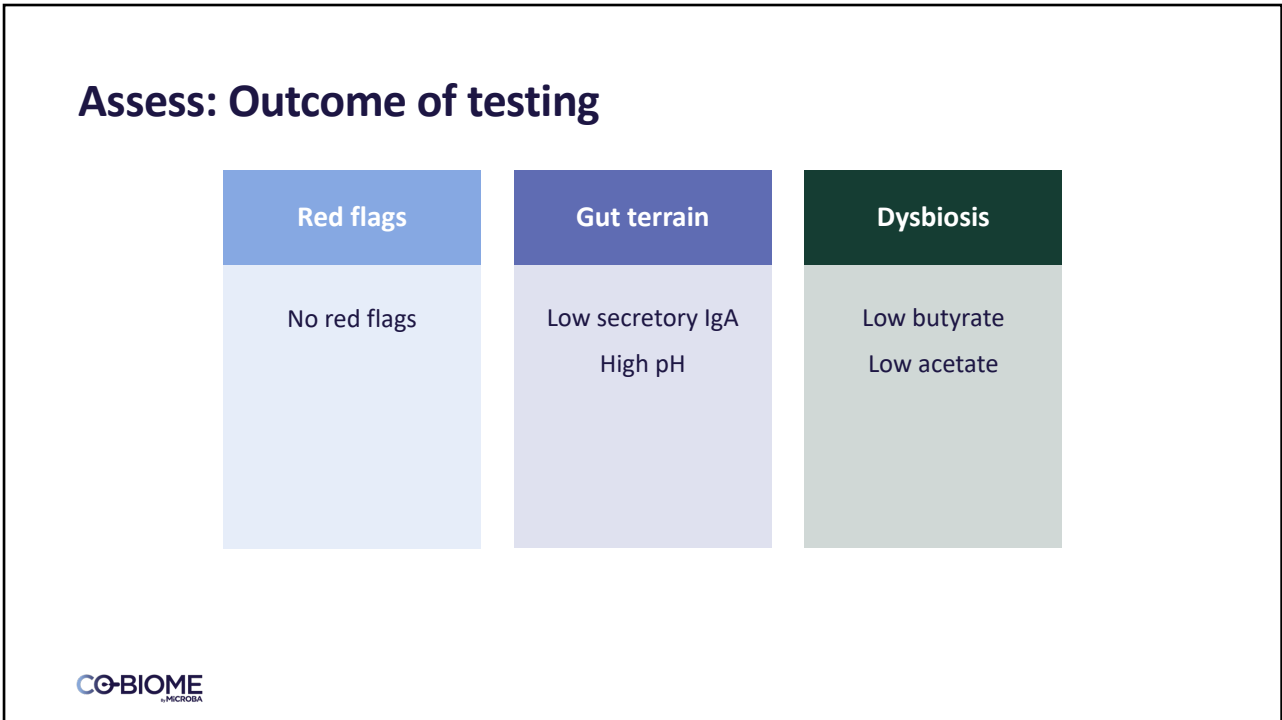
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Clinical outcome and ongoing management plan

Supplements:

| | |
|-------------------|--|
| Low secretory IgA | Switch probiotic to <i>Bifidobacterium lactis</i> BB12 Add 4g of GOS daily for 3 months Add <i>Saccharomyces boulardii</i> 250mg |
| Low butyrate | 3.5g of beta-glucan 15g of green banana flour |
| High pH | 15g of green banana flour |
| Low acetate | 15g of green banana flour |



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Clinical outcome and ongoing management plan

Dietary:

| | |
|-------------------|---|
| Low secretory IgA | GOS rich foods |
| Low butyrate | Beta-glucan rich foods Pectin rich foods |
| High pH | Increase dietary fibre from grains |
| Low acetate | Pectin rich foods |



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Patient handouts



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Case 1 key takeaways

1. Clinical symptoms improved with a change in microbial markers most likely methane and zonulin

2. Waiting 10 months to re-test resulted in negative change in the microbiome

3. Measuring the microbiome at 3-4 months would have resulted in greater clinical improvements

4. Consider prebiotics in early stage of treatment

5. Some probiotics can show up as oral species, remember to check with patients



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Q&A: Case 1

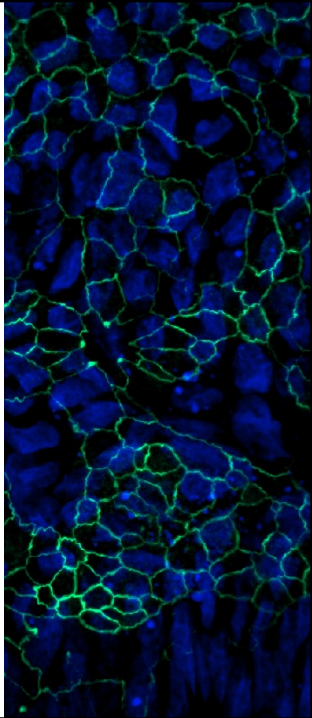


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Case 2: IBS-C

Alyssa Tait



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Age: 36 **Gender:** Female

Case history: Lifelong constipation with abdominal bloating and loud flatulence, aggravated by unexpected divorce.


Prior antibiotic and antimicrobial treatment for small intestinal bacterial overgrowth (SIBO) based on methane-positive lactulose breath test/glucose breath test that improved bowel movement regularity but no change to bloating/abdominal pain/excess gas.

Investigations:

- Colonoscopy - NAD except “90% success of prep”
- CT – faecal loading
- Endoscopy – ruled out coeliac disease, disaccharidase deficiency

Medication/supplements: creatine

Diet: Dairy-free; meat, fish, egg and vegetables, low grain (puffed millet), sourdough bread, kiwifruit



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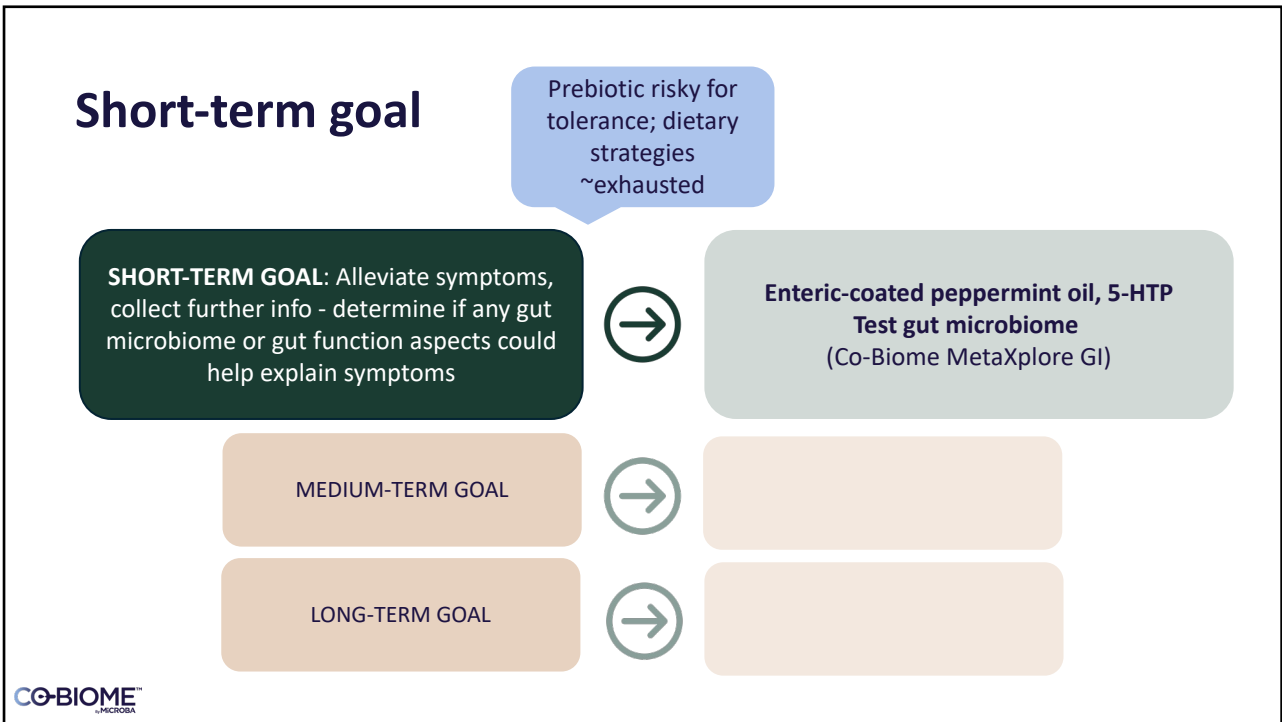
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Patient treatment goals

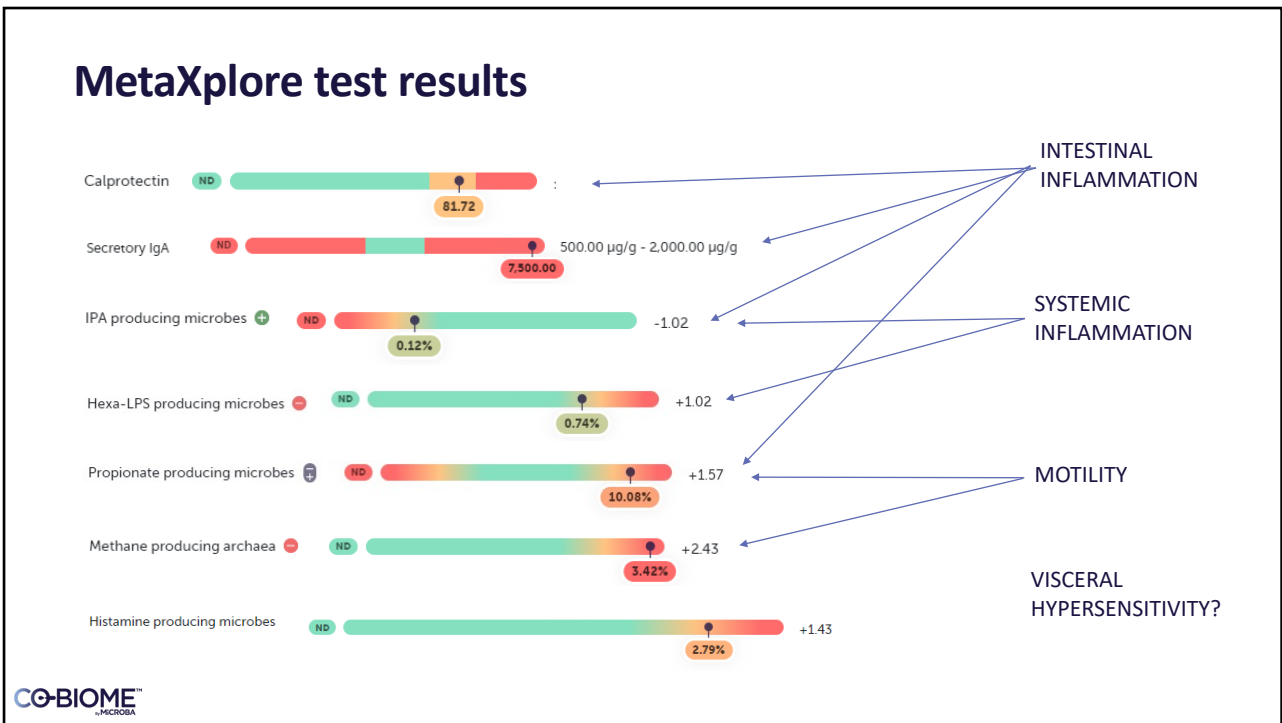
| Short-term | Medium-term | Long-term |
|--|--|---|
| <p>Alleviate symptoms</p> <p>Determine if gut microbiome or gut function aspects explains symptoms</p> | <p>Reduce gas and bloating by addressing gut-related mediators, promote effective bowel emptying</p> | <p>Optimise gut microbiome for gut and systemic health</p> <p>Continue to address underlying causes</p> |

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Species results

Could this suggest reduced upper gut secretory function (gastric acid)?

Oral Species

| | | | | | |
|---|--------------|--------------------------------------|-------|-------------|-------|
| ⊖ | Firmicutes | <i>Streptococcus salivarius</i> | 0.12% | Common | -0.29 |
| ○ | Firmicutes | <i>Lactobacillus crispatus</i> | 0.04% | Rare | |
| ⊖ | Firmicutes_A | <i>Peptostreptococcus anaerobius</i> | 0.04% | Less common | -0.53 |
| ⊕ | Firmicutes | <i>Lactobacillus_C paracasei</i> | 0.03% | Rare | |
| ○ | Firmicutes_A | <i>Peptoniphilus_A lacrimalis</i> | 0.03% | Less common | -1.08 |
| ○ | Bacteroidota | <i>Prevotella bivia</i> | 0.02% | Less common | -1.38 |



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What is making up her species richness?



Discussion topic

40 rare species.
15 of these are poor degraders of fibre.
6 oral species.



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Assess: Outcome of testing (summary)

| Red flags | Gut terrain | Dysbiosis |
|-----------|---|--|
| Nil | Borderline high calprotectin High secretory IgA High oral species | High methane-producers High hexa-LPS producers High histamine producers IPA producers present but low |



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Medium-term goal

SHORT-TERM GOAL: Alleviate symptoms, establish tolerance, collect further info



Enteric-coated peppermint oil
5-HTP

MEDIUM-TERM GOAL: Reduce gas and bloating by beginning to address gut-related mediators, promote effective bowel emptying



Lactobacillus reuteri DSM 17938 1/day
Betaine HCl x 1-2 tds
Matcha 1 tsp/day
Curcuma longa 1:1, Punica granatum 1:2
Defecation dynamics, pelvic floor physio

LONG-TERM GOAL: Improve microbiome



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Why the herbs?

Mentha x piperita

Systematic review level evidence - ↓pain, wind, bloating in IBS (Ingrosso et al 2022)
↓methane production in vitro/in ruminal fluid (Ozkan et al 2015)

Curcuma longa

↓ faecal calprotectin (Lang et al 2015)

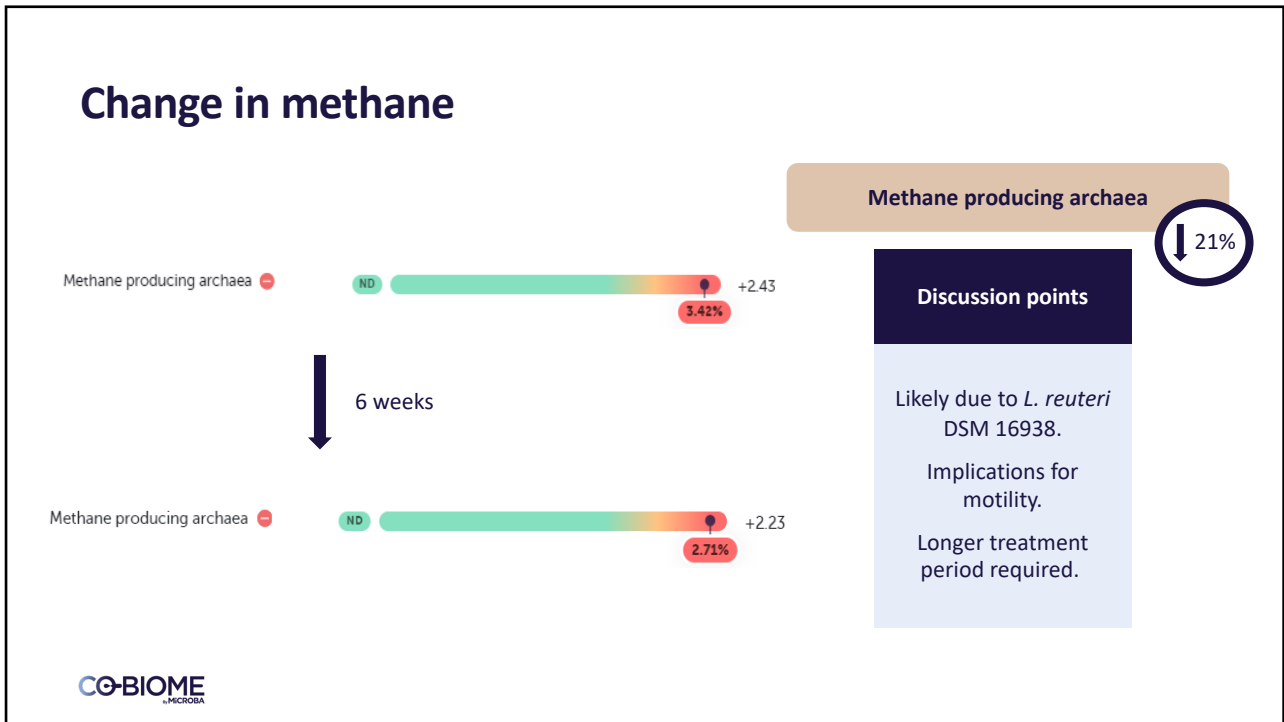
Punica granata

↑ IPA (Yang et al 2020)
↓ methane production in goats (Shilwant et al 2023)

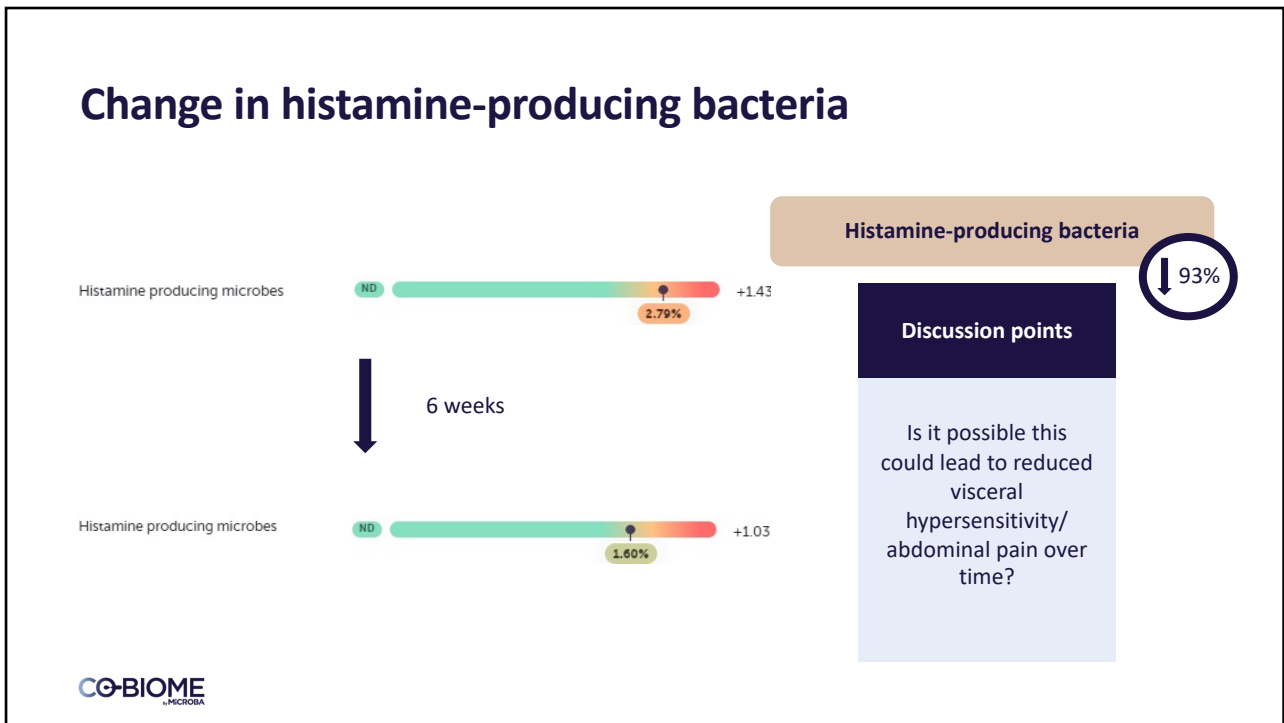
Results of re-testing

6 weeks between tests

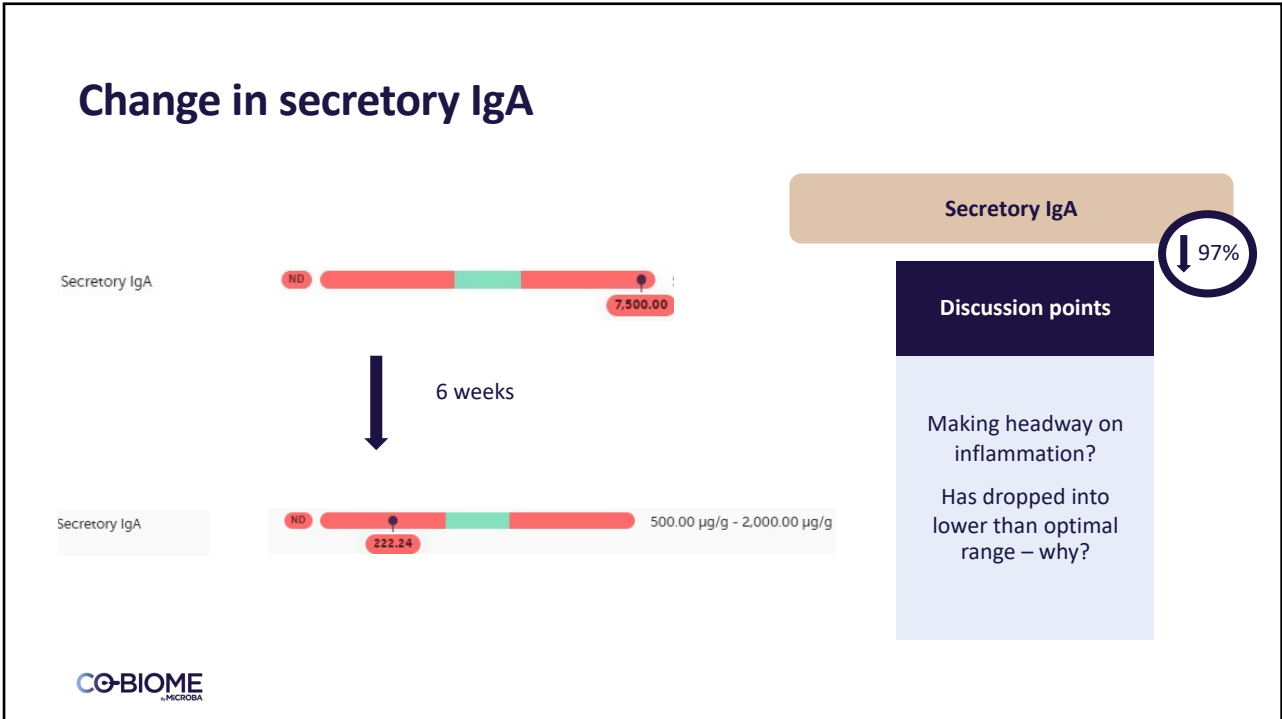




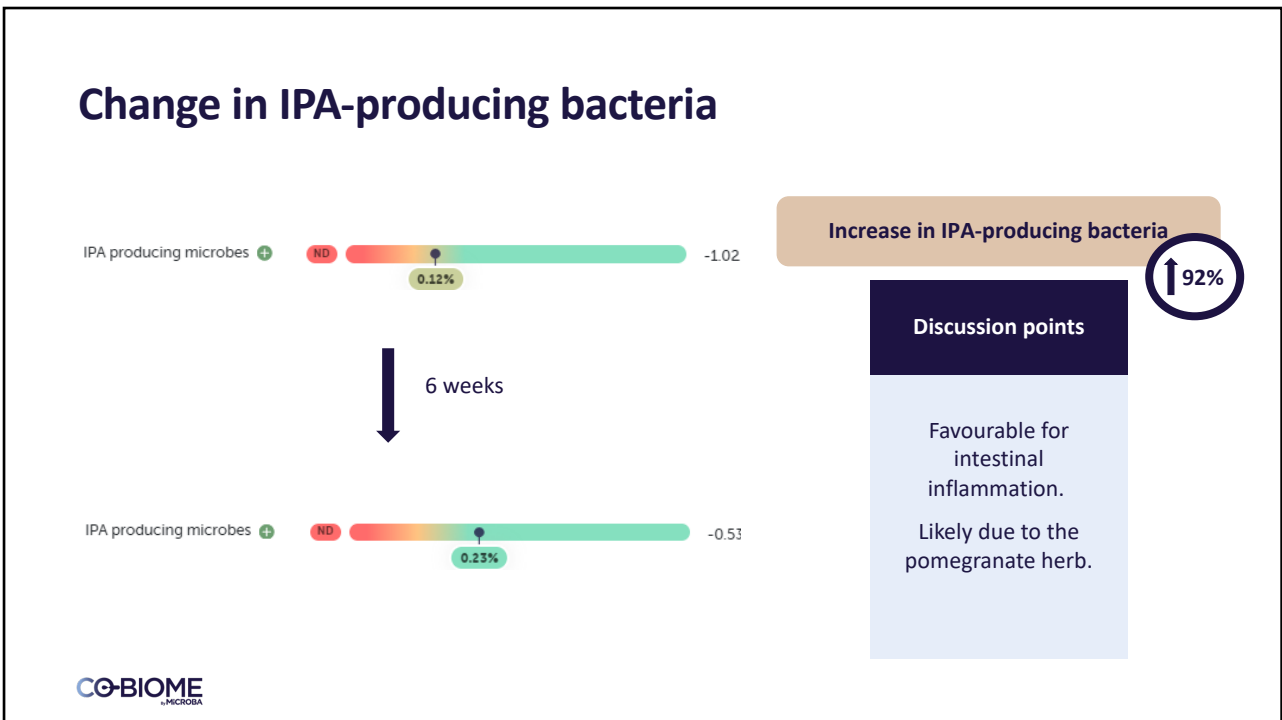
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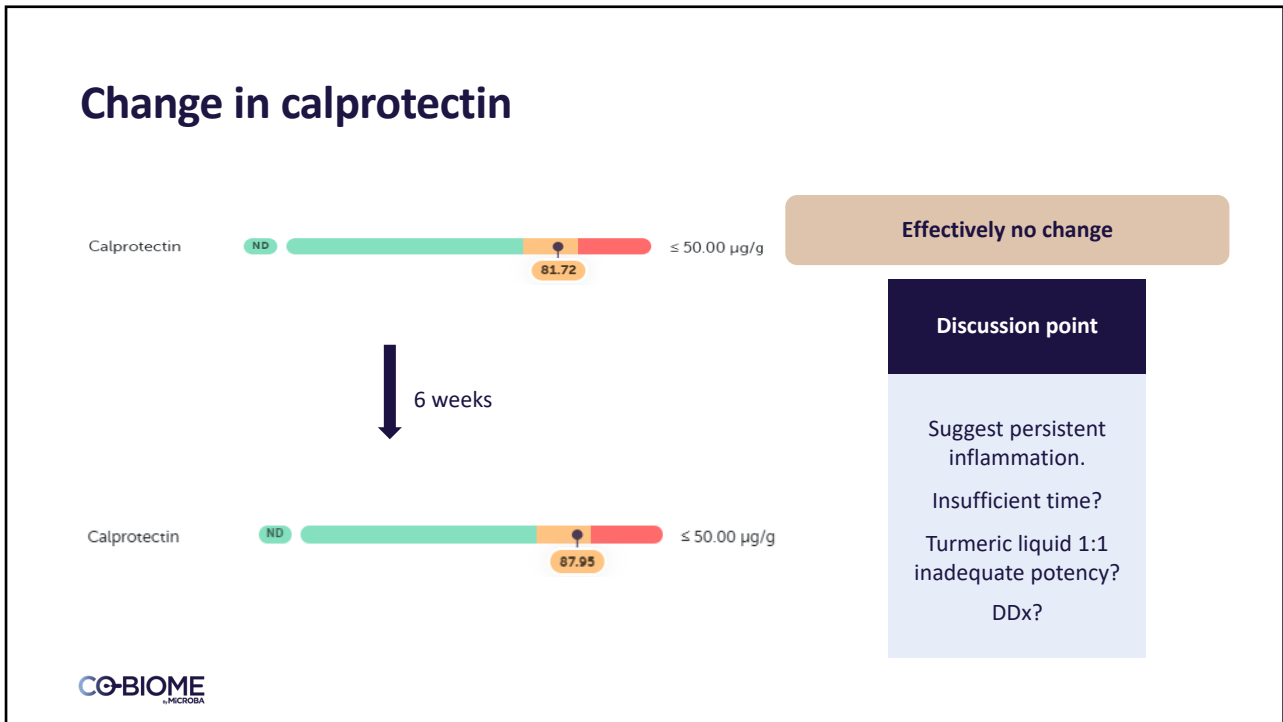
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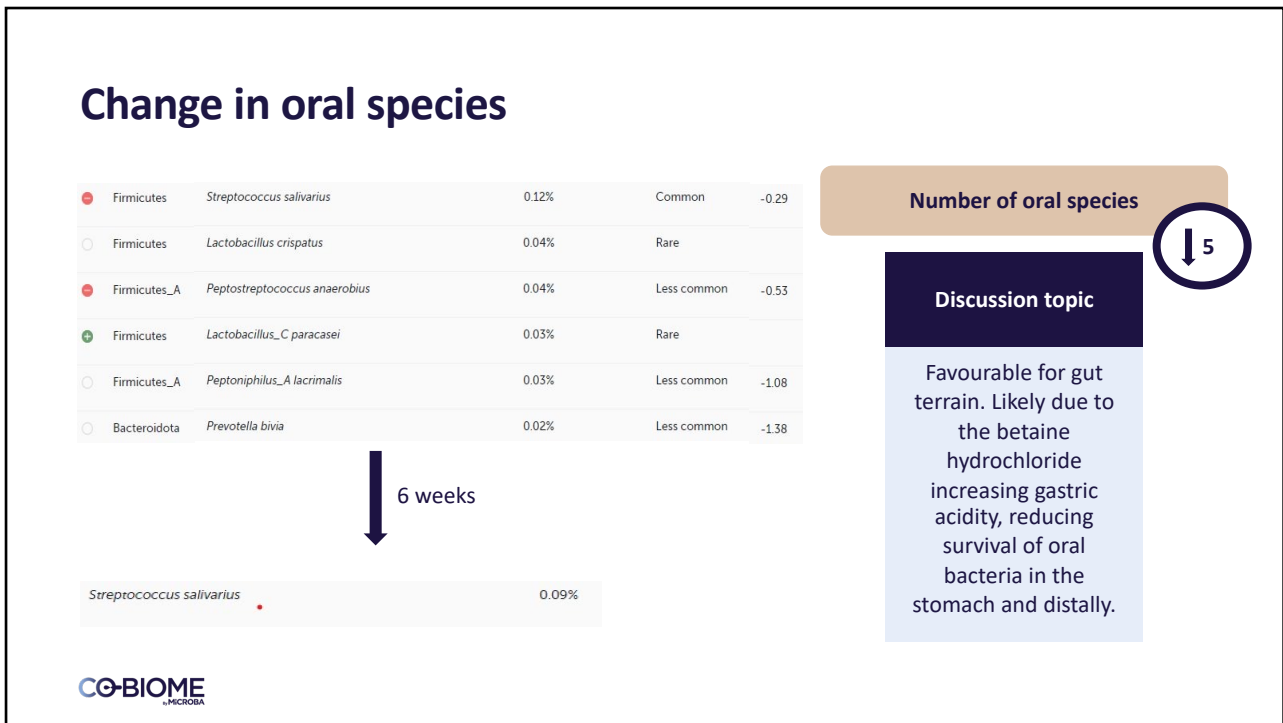
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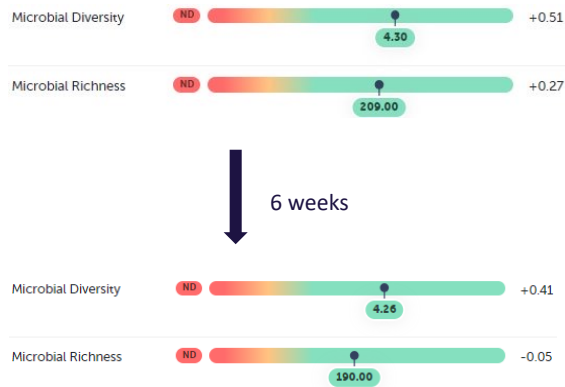


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Change in diversity



Richness

↓ 19

Discussion topic

Remains in healthy range.
Rare species dropped from 40 to 24. Many of these were poor fibre degraders.

Change in hexa-LPS producing bacteria



Hexa-LPS producing archaea

↓ 93%

Discussion topic

Favourable for intestinal and systemic inflammation.
Effect of herbs?

Long-term goal

| | | |
|--|---|---|
| <p>SHORT-TERM GOAL: Alleviate symptoms, establish tolerance, collect further info</p> | → | <p>Enteric-coated peppermint oil 5-HTP</p> |
| <p>MEDIUM-TERM GOAL: Reduce gas, pain and bloating and promote regular, complete BMs</p> | → | <p><i>Lactobacillus reuteri</i> DSM 17938 1/day Betaine HCl x 1-2 tds</p> |
| <p>LONG-TERM GOAL: Continue to address underlying drivers and support microbiome for optimal health</p> | → | <p><i>Passiflora incarnata</i> 1:2, <i>Glycyrrhiza glabra</i> 1:1 Visceral mobilisation, transcutaneous auricular vagal nerve stimulation</p> |

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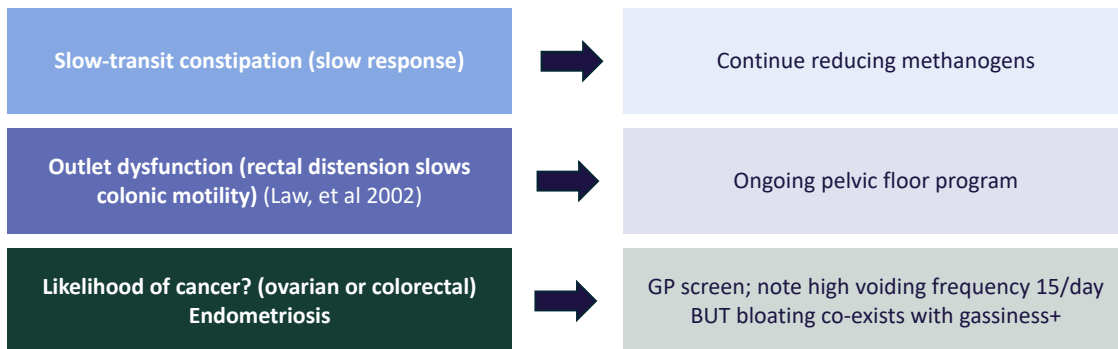
Adapt: Outcome-based goals and ongoing management plan

| | |
|--|---|
| <p>Continue to reduce methanogens (may have impact on constipation/slow transit picture with longer treatment)</p> | <p>Continue <i>L. reuteri</i> 17938</p> |
| <p>Continue to support digestion</p> | <p>Continue betaine HCl Later, switch to bitters/ginger</p> |
| <p>Promote parasympathetic tone</p> | <p>Nervous system support herbs (passionflower, licorice) Transcutaneous auricular vagus nerve stimulation; visceral mobilisation</p> |
| <p>Slower response to treatment Consider DDx</p> | <p>Refer to GP for further screening</p> |

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Differential diagnosis considerations



Results of pelvic ultrasound

The right ovary has a volume of 11ml and contains two corpus luteum cysts measuring up to 19mm. The left ovary has a volume of 7ml. **Both ovaries are fixed to their respective adnexae** and are tender on probe palpation. Trace volume of fluid in the pouch of Douglas, within physiological limits. No adnexal mass.

CONCLUSION:

Both ovaries are immobile and tender in the adnexae raising the possibility of an adhesive element from occult endometriosis, PID, or adhesions. No other definite cause of the patient's symptoms seen.

Case 2 key takeaways

1. Favourable microbiome changes can be made even before (or in the absence of) significant change to symptoms

2. Multiple mechanisms can co-exist; perseverance is required in order to target these for a response both clinically and via testing parameters

3. Reduction in diversity is not always a bad thing

4. When progress is slow, consider differential diagnoses such as endometriosis



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Q&A: Case 2



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Case 3: Constipation and Bloating

Dr Brad Leech

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Age/Gender: 42/Female

Diagnosed conditions: Fibromyalgia

Case history:

- Bloating after eating grains, beans and legumes
- Inconsistent stool. Movement most days but constipation after eating grains, beans and legumes, sometimes difficult to pass

Medication/supplements: 5-HTP 100mg, tyrosine 200mg, taurine 200mg, B vitamins, vitamin C 1g, Vitamin D 3000IU, calcium 150mg, magnesium 200mg, Co-Q10 100mg, carnitine 500mg

Diet: Modified autoimmune paleo plus eggs, nuts, seeds, chia, ghee, small amounts of sugar

Avoiding: Gluten, dairy, nightshades, grains, beans, legumes



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Patient treatment goals



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MetaXplore test results



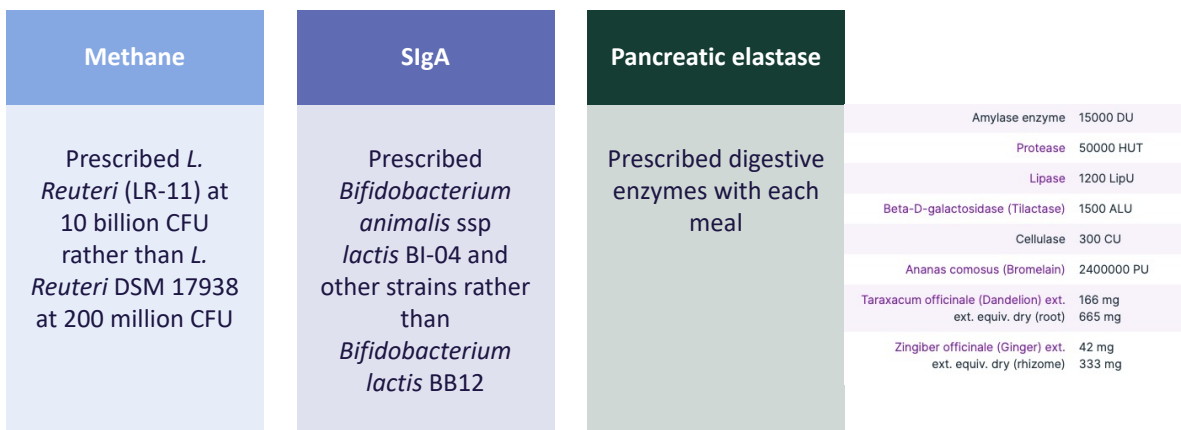
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Assess: Outcome of testing



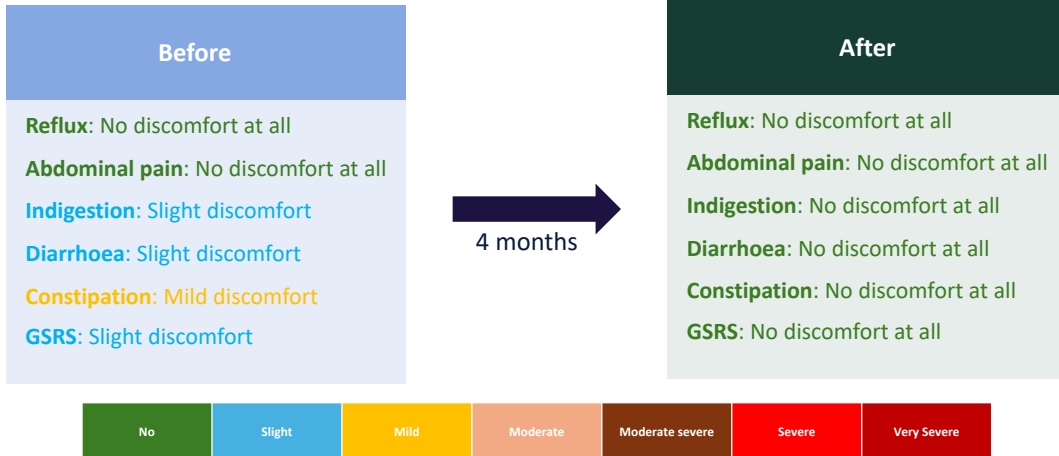
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Management



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Gastrointestinal Symptom Rating Scale



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“The bloating and constipation I was experiencing after eating grains and legumes has gone.”

“I tested some of my food sensitivities a few weeks ago. Initially I did not react, but the following week I ate gluten again and had stiff joints within hours.”



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Results of re-testing

4 months between tests



Change in methane

Methane producing archaea - ND 1.11% +1.46

| Phylum | Species | Abundance | Prevalence | Distance from Average |
|---------------|-------------------------------------|-----------|------------|-----------------------|
| Euryarchaeota | <i>Methanobrevibacter_A smithii</i> | 1.25% | Common | +0.61 |
| Euryarchaeota | <i>Methanosphaera cuniculi</i> | 0.38% | Rare | |

4 months

Methane producing archaea - ND 0.25% +0.19

| Phylum | Species | Abundance | Prevalence | Distance from Average |
|---------------|-------------------------------------|-----------|------------|-----------------------|
| Euryarchaeota | <i>Methanobrevibacter_A smithii</i> | 0.28% | Common | -0.58 |
| Euryarchaeota | <i>Methanosphaera cuniculi</i> | 0.21% | Rare | |

Methane producing archaea

↓ 77%

Discussion topic

L. Reuteri (LR-11) is suggested to reduce methane.

Change in secretory IgA



Secretory IgA increased

↑216%

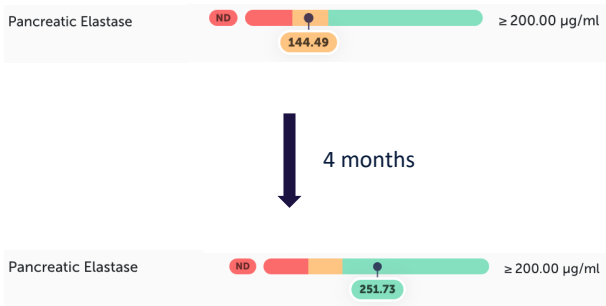
Discussion topic

Probiotic containing *Bifidobacterium animalis ssp lactis* BI-04 had slight impact; further interventions are required.

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Change in pancreatic elastase



Pancreatic elastase increased

↑74%

Discussion topic

Digestive enzymes and herbs may support stomach acid and digestion.

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Change in diversity



Increase in microbial richness

↑ 13

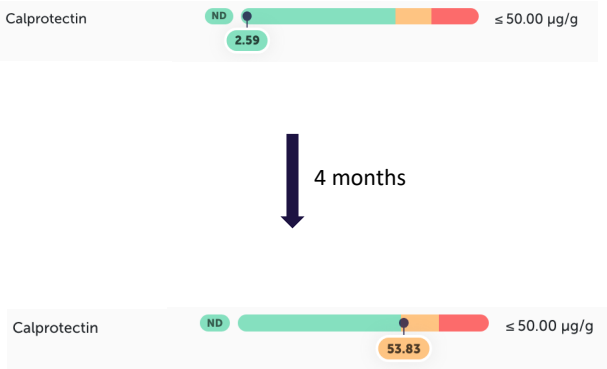
Discussion topic

Increase in diet diversity, especially the introduction of some brown rice and lentils. Also added kefir into diet.

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Change in calprotectin



Calprotectin increased

Discussion topic

With improvement of symptoms, reported vaping.

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Assess: Outcome of testing

| Red flags | Gut terrain | Dysbiosis |
|------------------------|-------------------------|-----------|
| Calprotectin increased | Secretory IgA still low | N/A |



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Clinical outcome and ongoing management plan

| | |
|-------------------------|--|
| Low secretory IgA | Switch probiotic to <i>Bifidobacterium lactis</i> BB12 Add 4g of GOS daily for 3 months Add <i>Saccharomyces boulardii</i> |
| Borderline calprotectin | Avoid nicotine No need for referral or supplements |
| Normal range methane | Stop probiotic Slowly increase beans and lentils |



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Case 3 key takeaways

1. Clinical symptoms improved with a change in microbial markers most likely methane

2. Microbial diversity increased alongside diet diversity

3. Measuring at 4 months directed where further treatment is required

4. Re-testing the microbiome encouraged the patient to stop vaping



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Q&A: Case 3

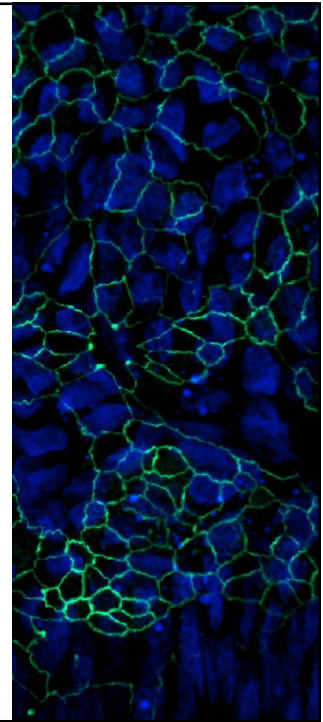


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Case 4: Ankylosing Spondylitis without GI symptoms

Alyssa Tait

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Age: 37 **Gender:** Male

Diagnosed conditions: Ankylosing spondylitis, HLA B27+ve, uveitis (episodic flares) accompanied by diarrhoea (episodic); no baseline GI symptoms.

Case history: 1st episode uveitis and joint pain in 2016

Medication/supplements: previously meloxicam (NSAID), now nil

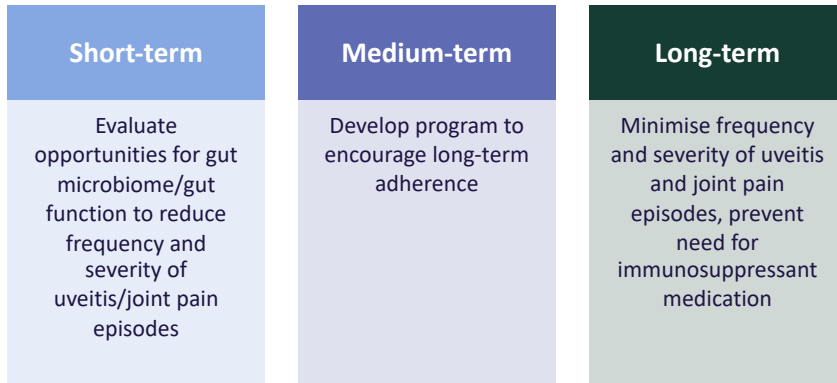
Diet: Mixed diet. Late breakfast, CHO-dominant (oats/WeetBix, banana or peanut butter/banana toastie); Lunch and Dinner: stir fries (Basmati rice), protein and veg. Low seafood (1x fortnight), low whole grains



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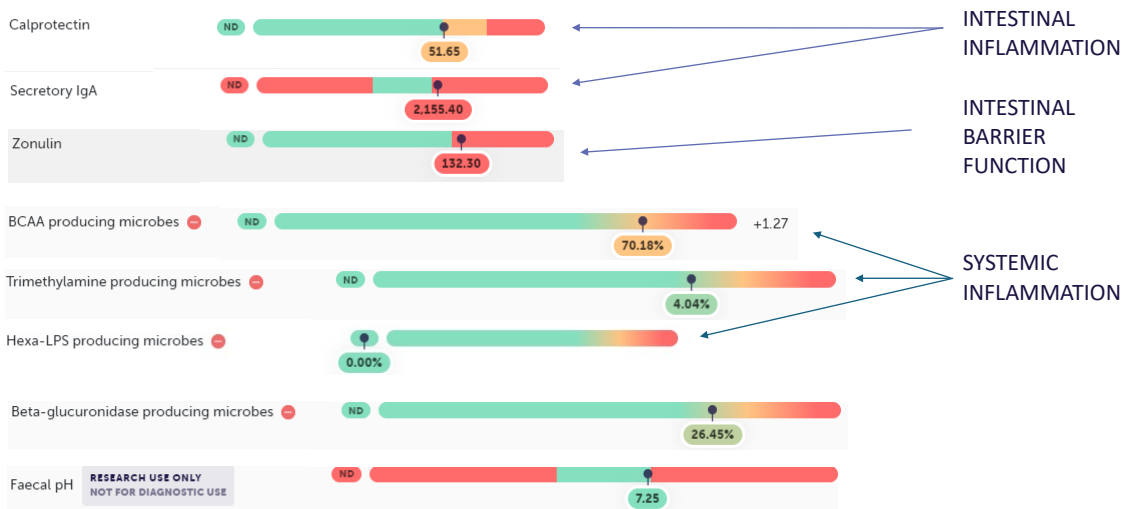
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Patient treatment goals



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MetaXplore test results



No detectable *Bifidobacteria*



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Assess: Outcome of testing

| Red flags | Gut terrain | Dysbiosis |
|---|---|---|
| No red flags (calprotectin borderline) | High zonulin High secretory IgA Borderline high faecal pH | Borderline high BCAA Borderline high beta-glucuronidase Borderline high TMA |



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Goal-directed treatment strategies

| Reduce intestinal inflammation | Support gut barrier integrity | Control systemic inflammation | Gut terrain |
|---|---|-------------------------------|-----------------------|
| Swap bread to 100% rye Inulin (1tsp->1tb/day) Blue polyphenol powder (1tsp->1tb)* | Glutamine (4g->16g/day) Zinc carnosine (=34mg Zn)+HMOs | 550mg/day EPA+DHA* | Inulin to ↓ faecal pH |

N.B. Fish oil was supposed to be double this and blue powder 25% of this!



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Apply: Patient management plan

| Dietary prescription | Specific prebiotic prescription | Personalised supplement recommendations | Patient education |
|--|--|---|--|
| Swap bread to 100% rye to ↓BCAA-producing microbes (Lankinen et al 2009) | Inulin to ↓faecal calprotectin and ↓beta-glucuronidase activity (Valcheva, et al 2018; Slavin & Feirtag, 2010) | Matcha and concentrated blueberry powder to ↓faecal calprotectin (Dryden, et al, 2013; Biedermann, et al, 2013) Marine omega-3s to ↓faecal calprotectin (Scaoli, et al 2018) Glutamine to ↓intestinal permeability (Zhou, et al 2019) | Intestinal permeability (↑zonulin) precedes arthritis (rat model) (Hecquet, et al 2023) ↑calprotectin – possible enthesitis, ongoing and current symptoms (Kang, et al 2020) Calprotectin predicts disease activity in AS and risk of developing Crohn's disease (Klingberg, et al 2017) |



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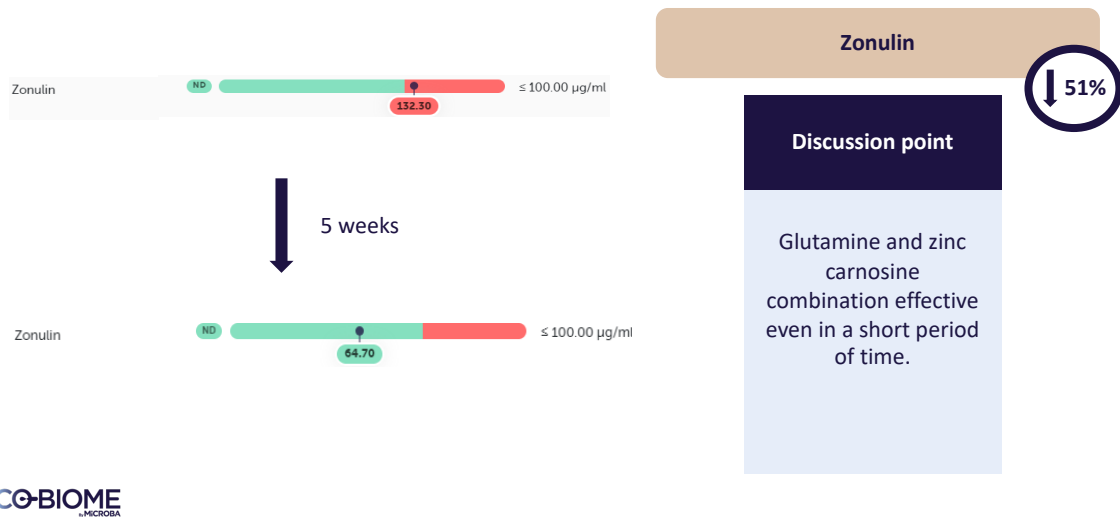
Results of re-testing

5 weeks between tests



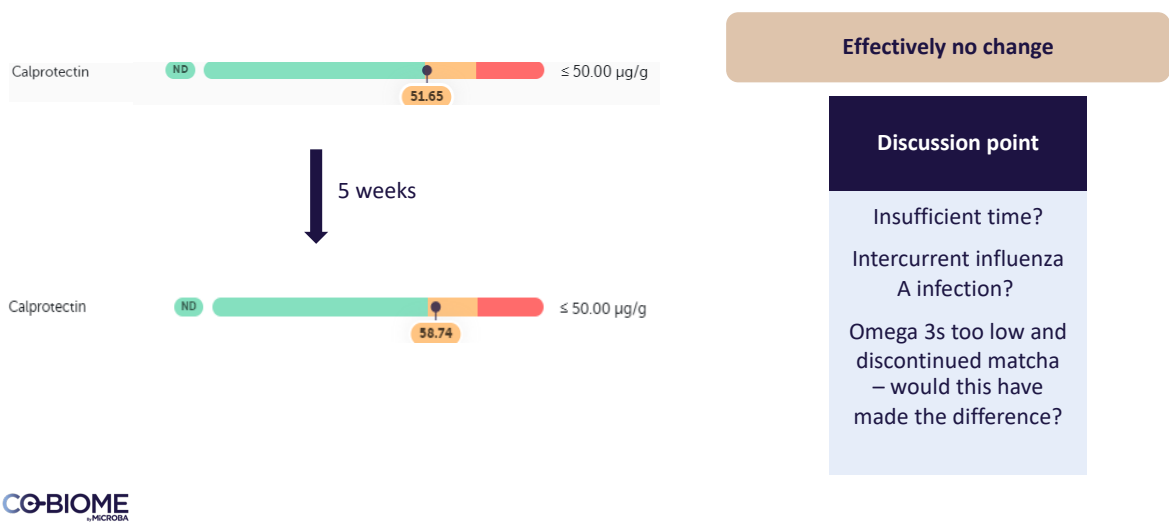
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Change in markers of barrier function: Zonulin



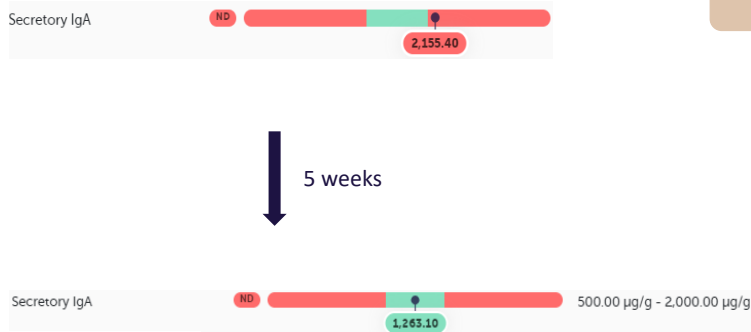
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Change in markers of intestinal inflammation: Calprotectin



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Changes in markers intestinal inflammation: Secretory IgA



Secretory IgA normalised

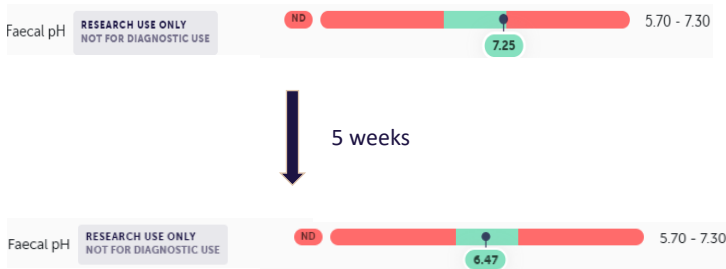
Discussion point

Lack of good evidence on what reduces excessively high sIgA, but suggests some benefit of combined approach on normalising mucosal immune response.

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Changes in markers of gut terrain: Faecal pH



↓ faecal pH

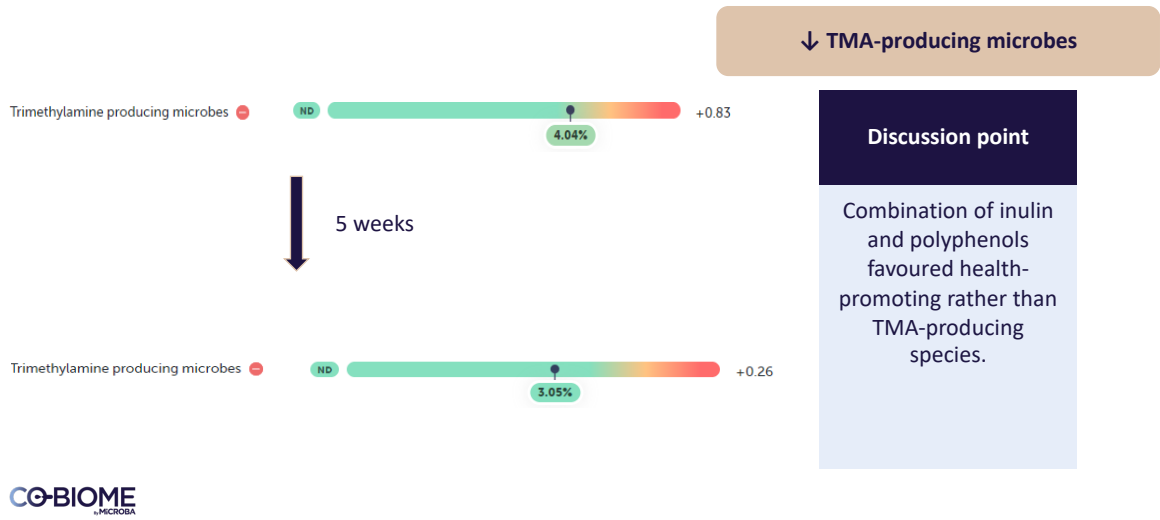
Discussion point

Effect of inulin?
Intercurrent influenza A with rapid transit?
Of likely benefit in butyrate production and absorption.

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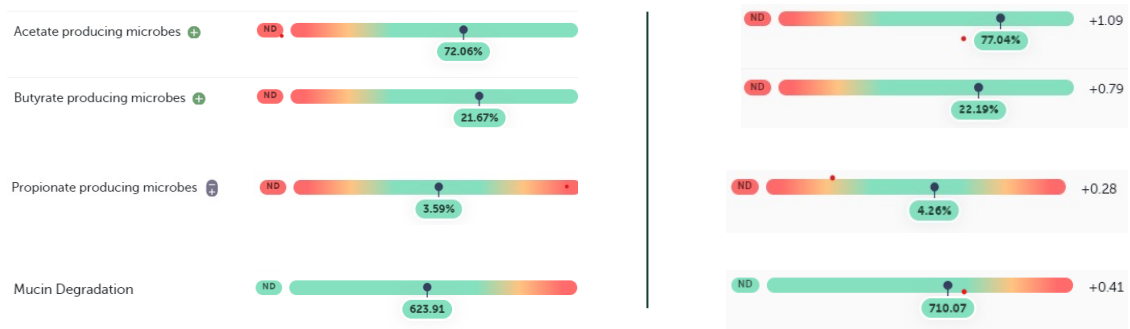
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Changes in markers of gut dysbiosis: TMA microbes



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Impact on short-chain fatty acids



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Clinical outcome and ongoing management plan

Continue to work on reducing inflammation (aim for calprotectin <50)

Continue to promote good intestinal barrier function

Further testing and maintain/strengthen therapeutic relationship

↑dose of inulin to 2tb (10g)
↑omega 3 dosage; continue blue polyphenols
Re-test 3-6 months when well

a/a; continue glutamine for 6/12 due to typical timeframe between uveitis flares; continue 100% rye to promote butyrate

Plasma zinc; serum vitamin D; maintain contact

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Case 4 key takeaways

1. Dysbiosis (and health risk factors) can occur in the absence of specific GI symptoms

2. Gut microbiome testing can guide risk-reduction approach effectively, and re-testing can help evaluate effect of management

3. Gut terrain can be improved even over the short term (as demonstrated by changes in zonulin, secretory IgA, faecal pH)

4. Prebiotics and polyphenols can reduce dysbiosis (TMA-, SCFA-producing species)

5. Simple interventions can improve intestinal barrier function

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Q&A: Case 4



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Key highlights

- Assessing a patient's gut microbiome and gastrointestinal health should be a consideration for many of your patients
- Gut imbalances such as functional dysbiosis may present with no direct gastrointestinal symptoms
- Understanding your patient's unique microbiome can help direct a personalised dietary, prebiotic and supplement prescription to shift their microbial and GI health markers
- Using Co-Biome's MetaXplore™ range of tests combined with your clinical expertise can support informed improved patient outcomes
- Re-testing the microbiome between 3-6 months is optimal



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Questions?


Hayley Parcell
Dr Brad Leech
Alyssa Tait



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The MetaXplore™ range

| | | |
|---|---|-------|
|  | MetaXplore™ Provides a metagenomic driven gut microbiome profile, together with the latest research insights for healthcare professionals. Technology: metagenomics | \$369 |
|  | MetaXplore™ GI Provides the same comprehensive microbiome profile as MetaXplore™ plus reports on seven gastrointestinal health markers and science backed clinical insights to assist clinical decision-making and intervention. Technology: metagenomics + diagnostic GI health markers + faecal pH | \$489 |
|  | MetaXplore™ GI Plus Co-Biome's most comprehensive functional gut microbiome profile. It provides all the features found in MetaXplore™ and MetaXplore™ GI, plus targeted pathogen panels. Technology: metagenomics + diagnostic GI health markers + faecal pH + RT-PCR | \$529 |



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When would you consider using gut microbiome and gastrointestinal testing?

Gastrointestinal disorder

- IBS
- Constipation
- IBD
- Abdominal pain
- Diverticular disease
- Non-infectious diarrhoea
- Intestinal methanogen overgrowth
- Pathogen infection - loose stools, frequent defecation, weight loss, bloating, abdominal pain, nausea, vomiting



Non-gastrointestinal disorder

- PCOS
- Hormonal imbalance
- Recurrent kidney stones
- Autoimmunity
- Chronic inflammation
- Metabolic disease
- Obesity and weight loss
- Oxalate processing
- Chemical sensitivities



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Thank you for attending

Visit the Co-Education Hub All Resources page for additional resources and to watch the webinar replay. You can access this via your Practitioner Portal.

Register as a Co-Biome Clinician today for microbiome educational resources at your fingertips!

Additional resources:

- *New* Prebiotic Guide
- Low FOMAP Prebiotic Guide
- Dietary Impacts on the Gut Microbiome Guide
- Pathogen and Pathobiont Management Guide
- Interpretation Guide
- MetaXplore Range Report Interpretation Checklist
- Patient Referral Letter Template
- Testing Your Microbiome Patient Brochure
- Patient Handouts – Ellagic acid; Arabinosylin; Beta-glucan; Inulin; FOS; GOS; Pectin; Resistant starch



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