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The starved microbiome

Gabriella Sassi

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Learning objectives

By the end of this session, you will be able to:

<p>01 RECOGNISE</p> <p>What a starved microbiome looks like</p> <ul style="list-style-type: none"> • Define the starved microbiome and how it differs from other forms of microbial imbalance • Identify early signs of diversity decline — before symptoms force investigation 	<p>02 INTERPRET</p> <p>Read markers across time, not snapshots</p> <ul style="list-style-type: none"> • Recognise the key microbiome marker clusters and how they progress across multiple reports • Use Species Explorer in Microba Microbiome Explore to read trajectory, not just current status
<p>03 MANAGE</p> <p>Rebuild a depleted gut in the right order</p> <ul style="list-style-type: none"> • Support the gut after pathogen exposure, antimicrobial use or dietary disruption — and know why sequence matters • Apply a staged rehabilitation framework mapped to the patient's specific marker deficits 	<p>04 COMMUNICATE</p> <p>Translate findings into patient action</p> <ul style="list-style-type: none"> • Distinguish symptom resolution from genuine microbiome recovery • Communicate longitudinal findings in a way that supports compliance and long-term follow-through

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Disclaimer

- 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 Microba.

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Speakers



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All participants have been muted



Questions will be answered at the end of the presentation



Add your questions to the Q&A tab to have them answered live

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Why it matters

Key themes

- Silent depletion beneath a clinically improving presentation
- Loss of microbial resilience through cumulative ecological insults
- Post-infectious dysbiosis and incomplete recovery
- The clinical value of trajectory interpretation over time

Key message

- The greatest clinical value of microbiome testing if my experience comes from reading it longitudinally not as an isolated snapshot, but as a trajectory across time.



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What is a starved microbiome?

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Defining the starved microbiome

A gut ecosystem chronically underfed not just from infection or dysbiosis, but from the sustained absence of the substrates beneficial microbes need to thrive. Remove fermentable fibre and keystone species decline, SCFA production falls, and the gut loses its capacity to sustain and protect itself.

KEY FEATURES

1 Reduced microbial richness

Lower species diversity across the gut ecosystem.

2 Depleted SCFA capacity

Butyrate, propionate and IPA pathways weakened.

3 Gram-negative dominance

Elevated Hexa-acylated LPS producers.

4 Persistent immune activation

Mucosal sIgA elevated.

5 Mucin layer degradation

Progressive thinning of the protective layer.

6 Protein fermentation shift

Elevated TMA and urease-producing microbes.

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How this differs from pathogen-driven dysbiosis

STARVED MICROBIOME

Driven by **ABSENCE**

Insufficient substrate. Beneficial microbes lose ecological footing – no single culprit.

ONSET	Silent, gradual
SYMPTOMS	Non-specific, often misattributed
TESTING	No dominant pathogen
TREATMENT	Ecological rebuilding

PATHOGEN-DRIVEN DYSBIOSIS

Driven by **PRESENCE**

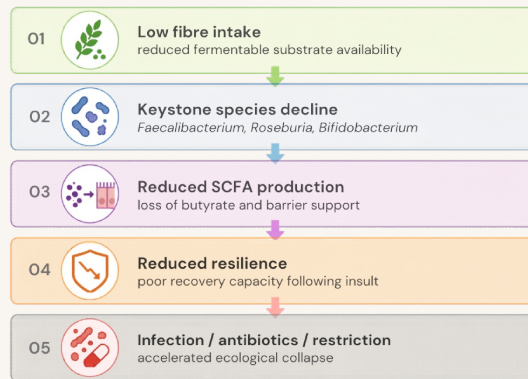
A pathogen or overgrowth disrupts the community – identifiable trigger.

ONSET	Acute, with clear trigger
SYMPTOMS	Patient symptomatic and aware
TESTING	Detectable organism out of range
TREATMENT	Pathogen management

Same patient presentation; opposite clinical logic.

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How does a starved microbiome develop?



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Symptoms of a starved microbiome

The combination — not any single symptom — defines the picture.

01 / GASTROINTESTINAL

What the gut shows

- Bloating and distension after meals
- Loose stools or IBS-type pattern
- Poor tolerance to fibre and fermentable foods
- Slow gut transit or constipation
- Nausea or early satiety

02 / SYSTEMIC

What the body shows

- Fatigue not explained by other causes
- Brain fog, poor cognitive clarity
- Frequent infections, slow immune recovery
- Skin changes — eczema, rashes, acne
- Progressive food intolerances

03 / CLINICAL PATTERN

The diagnostic signature

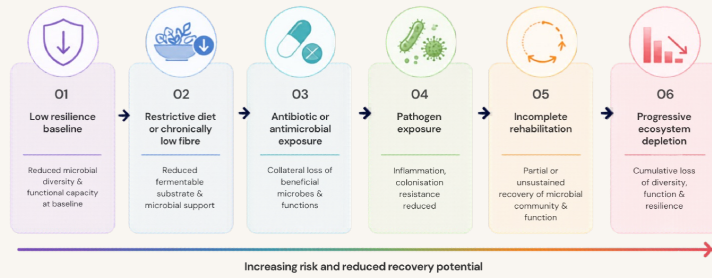
Partial treatment responses that never fully hold · gradual narrowing of food tolerance over months to years · fatigue that persists after GI symptoms improve.

Clinical trap: GI improvement with persistent fatigue is not recovery — it can signal a stable depleted state.

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The cumulative insult

A depleted microbiome cannot buffer the same insult a diverse microbiome absorbs easily. The same pathogen, the same antibiotic, the same dietary disruption hits differently when the ecosystem is already starved.



The insult is often unavoidable. The baseline is what we can influence.

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Why this matters 002

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Why microbial diversity matters clinically

What the microbiome regulates

- Immune regulation – Treg development, Th17-Treg balance, mucosal IgA
- Gut barrier integrity – butyrate as primary colonocyte fuel, tight junction maintenance
- Metabolic function – glucose metabolism, lipid signalling, bile acid recycling
- Neurological and mood – tryptophan metabolites, IPA, serotonin precursors
- Cardiovascular risk – TMA/TMAO pathway
- Pathogen defence – colonisation resistance



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Conditions consistently associated with low microbial diversity

IBD (Crohns & UC)

Depleted butyrate producers, elevated Hexa-LPS, reduced *F. prausnitzii*.

IBS

Reduced Shannon diversity in IBS-D & IBS-M. Low SCFA production & altered fermentation.

Depression & Anxiety

Depleted Bifidobacterium, impaired IPA/tryptophan metabolism.

Metabolic Syndrome & T2D

Altered fermentation, impaired insulin signalling, elevated inflammatory load.

Cardiovascular disease

Elevated TMA/TMAO production, LPS-driven systemic inflammation.

Autoimmune conditions

Impaired Treg function, increased permeability, LPS-mediated immune activation.

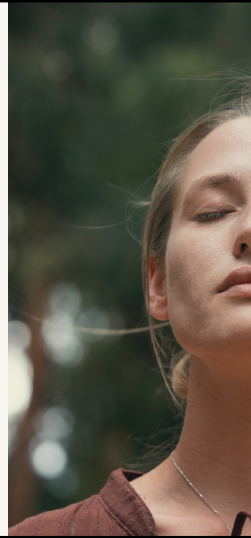
The starved microbiome is not a diagnosis. It is a low-resilience ecosystem state that increases vulnerability across all these systems.

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Why clinicians miss the starved microbiome

- Symptom improvement is interpreted as recovery
- Normal calprotectin creates false reassurance – it measures active mucosal inflammation, not microbial recovery
- Pathogen-focused models overlook ecosystem function – a negative pathogen screen says nothing about richness or butyrate producers
- Single-report interpretation misses trajectory decline
- Patients may appear health-conscious despite low microbial resilience
- Functional symptoms fluctuate while microbial depletion progresses silently

Key insight: The microbiome can continue deteriorating beneath a clinically improved presentation.



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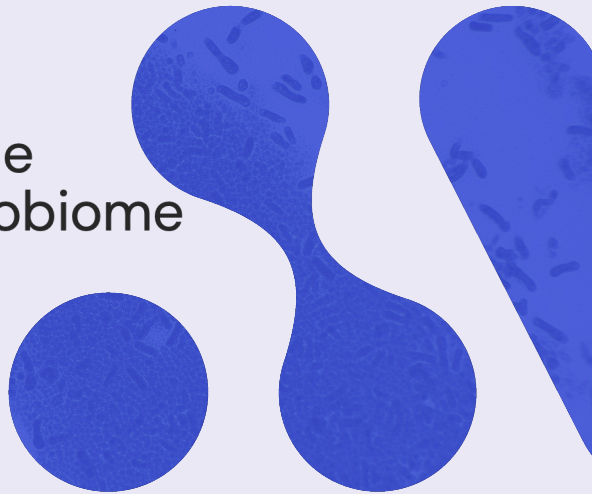
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Identifying the starved microbiome

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Clinical clues before testing

Red flags

- Restrictive dietary patterns — extended low-FODMAP, ketogenic, carnivore without reintroduction
- Repeated antibiotic exposure, even years prior
- Travel-related GI illness without post-course rehabilitation
- Long-term low fibre intake — common in health-conscious patients eating quality but not diverse food
- Ultra-processed food reliance
- Chronic stress physiology or burnout

Clinical patterns

- Fluctuating IBS-type symptoms that respond partially but never fully resolve
- Gradual narrowing of food tolerance over months
- Mood and GI overlap — anxiety alongside gut symptoms
- Relapse with food reintroduction
- Persistent fatigue despite normal standard pathology

Clinical question: "Has your diet, stress levels, travel history, or antimicrobial exposure changed significantly over the last 1–2 years?"



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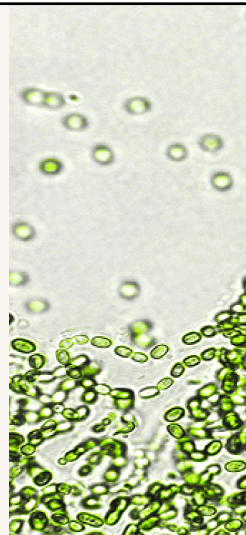
Reading the starved microbiome pattern

The characteristic cluster progression:

- Butyrate producers ↓ — the leading signal, almost always first
- IPA-producing microbes ↓ — tryptophan pathway begins to fail
- Microbial richness stagnates, then falls
- Mucin degradation ↑ — mucus layer loses protective substrate
- Hexa-LPS ↑ — gram-negative organisms fill the vacated space
- sIgA ↑ — mucosal immune system escalates

Read the cluster, not the single marker.

A borderline-low marker trending downward over multiple reports is more clinically important than a single low result in isolation. Direction is the data. The value is context.



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Diversity, richness, functional markers & substrate species

Markers & what they tell you

Richness (200–250 optimal)

- Number of distinct species. Track direction across timepoints, not the single value.

Diversity

- Species count & relative balance. Persistent below-average scores with no upward trend indicate failed recovery.

Faecal pH (optimal 5.70–7.30)

- Measurable confirmation of fermentation capacity. Rising pH confirms carbohydrate fermentation has failed & protein fermentation dominates.

Calprotectin

- Active mucosal inflammation marker only — not a marker of microbial recovery. Normal calprotectin does not mean recovered ecosystem.



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Which species need which substrates

Key species	Primary substrate	Clinical food sources
<i>Faecalibacterium prausnitzii</i>	Resistant starch, arabinogalactan	Cooled cooked potato, green banana flour, legumes
<i>Roseburia / Eubacterium rectale</i>	Resistant starch, inulin-type fructans	Green banana flour, legumes, cooked-cooled grains
<i>Bifidobacterium spp.</i>	Inulin, FOS, GOS	Chicory root, onion, leek, Jerusalem artichoke, GOS supplement
<i>Akkermansia muciniphila</i>	Polyphenols, mucin substrate	Pomegranate, berries, green tea, olive oil

This is why ≥30 plant foods per week is recommended — different species require different substrates. Diversity of substrate sustains diversity of organisms.

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Clinical interpretation hierarchy

When interpreting a set of reports, work through this order:

- Red Flags first
- Trajectory over time — direction of change across reports before the isolated value
- Functional output — SCFA pathways and faecal pH confirming fermentation status
- Immune activity — sIgA persistence signals ongoing mucosal pressure
- Diversity and richness — in context of functional & immune markers
- Species-level interpretation — who is driving the pattern

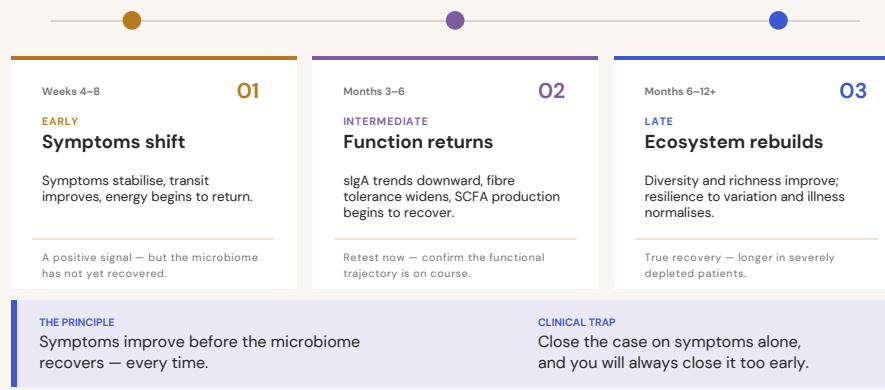
Direction of change across reports is more clinically valuable than the isolated value itself.



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What recovery actually looks like

A staged trajectory — symptoms shift first, the ecosystem rebuilds last.



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When to test & retest

When to test

- Persistent or incompletely resolving GI symptoms
- Post-antibiotic or post-infectious presentations
- Restrictive dietary history
- Chronic fatigue with GI history and normal standard pathology

When NOT to test

- During an acute GI flare — blood in stool distorts microbial reads
- Within 4–6 weeks of antibiotic course
- Within 2 weeks of colonoscopy prep

Retesting framework

- 8–12 weeks — SCFA and inflammatory trajectory
- 3–6 months — diversity and richness recovery
- Continue until improvement is sustained across consecutive reports

Retesting is not monitoring — it is clinical decision-making.
Every retest is a decision point: continue, escalate, or recalibrate.

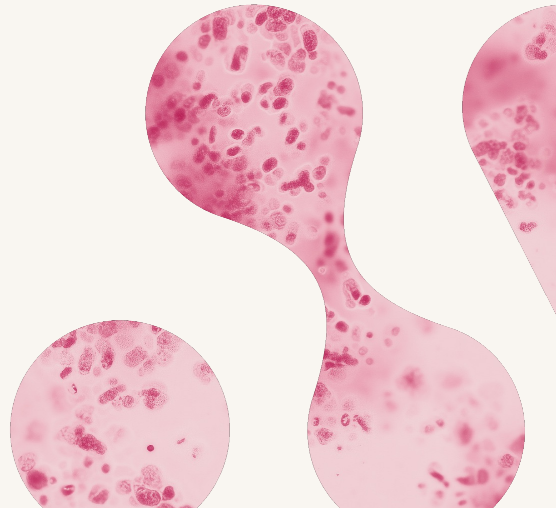
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Management framework 004

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Clinical rehabilitation framework

Step 1: Meet the patient

- Validate current effort — doing the right things and not fully recovering is frustrating
- Reduce fear around food — reintroduction is part of the therapy
- Set realistic expectations — months, not weeks, confirmed by data not symptoms



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Clinical rehabilitation framework

Step 2: Rebuild substrate diversity

- Start low & go slow — gradual fibre escalation to avoid intolerance
- Target >30 plant foods per week
- Resistant starch — cooled cooked potato, green banana flour, legumes, oats
- Inulin & FOS sources — chicory root, Jerusalem artichoke, garlic, onion, leek
- Polyphenols — berries, pomegranate, green tea, extra virgin olive oil
- Fermented foods daily — yoghurt, kefir, kimchi, sauerkraut
- Omega-3 rich proteins — oily fish minimum 3x per week



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Clinical rehabilitation framework

Step 3: Targeted supplementation – map to markers

- Butyrate formally LOW – targeted dietary resistant starch, broad prebiotic substrate, & Bifidobacterium probiotics to stimulate endogenous butyrate production
- Richness depleted – high-strain diversity probiotic plus broad prebiotic substrate
- Hexa-LPS & TMA elevated – anti-inflammatory lipid therapy
- sIgA persistently elevated – mucosal immune modulation, barrier repair nutrients



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Clinical rehabilitation framework

Step 4: Retest & adjust

- Protocol is a clinical hypothesis – the retest confirms whether it is correct
- If markers are not moving as expected, recalibrate protocol along with dietary adherence – not the patient's effort



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Fibre has daily targets. Prebiotics do not.

Three reference points clinicians should know — and the gap between them.

FIBRE - AI

25–30g/day

Women 25 g · Men 30 g
NHMRC Adequate Intake — based on adequate laxation.

FIBRE - SDT

28–38g/day

Women 28 g · Men 38 g
NHMRC Suggested Dietary Target — to reduce chronic disease risk.

PREBIOTICS

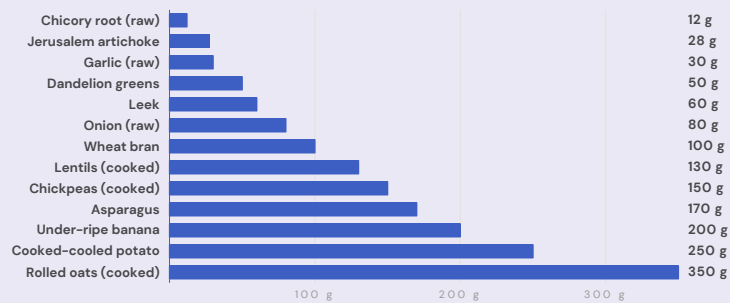
No formal RDI

ISAPP: ≥3 g/day; ~5 g/day target
No governing body has set an intake target. ISAPP offers the only working figure.

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What is 5g of prebiotics

Grams of food required to deliver ~5 g of prebiotic fibre, ordered by efficiency.

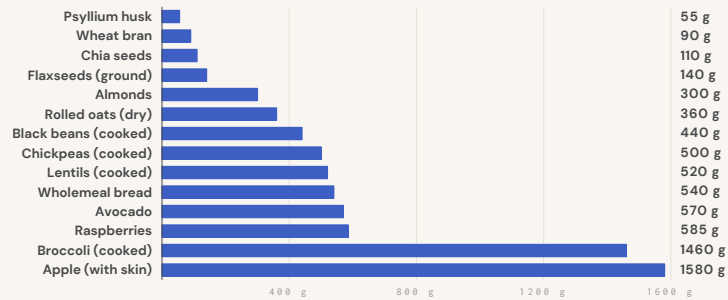


Values approximated from Moshfegh 1999, Van Loo 1995, Muir 2009, Costabile et al. — content varies with cultivar, season, & preparation.

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What is 38g of fibre

Grams of food required to deliver the NHMRC SDT of 38 g – the upper target for chronic disease prevention.



Values from USDA SR & FSANZ AUSNUT 2011-13. SDT for men = 38 g/day; women = 28 g/day. Scale servings to patient.

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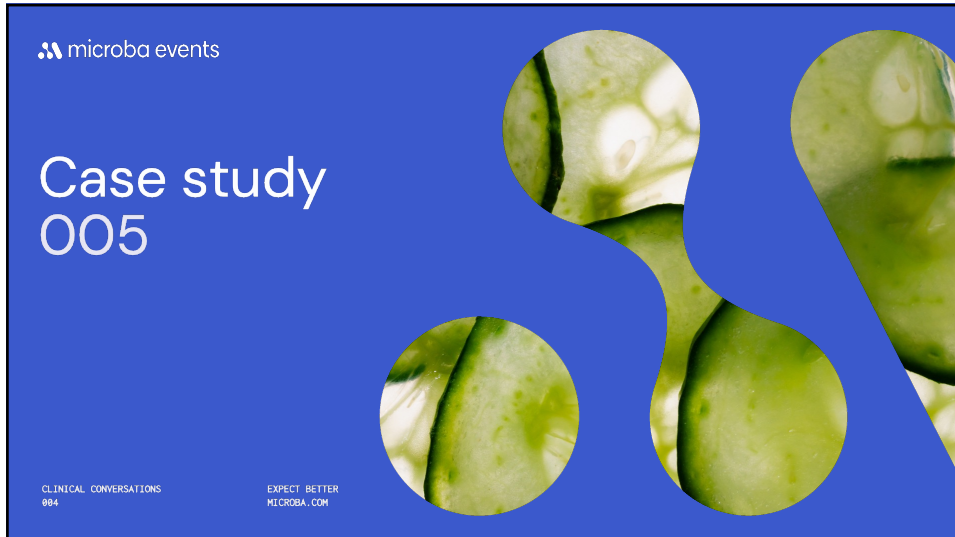
Common reasons for microbiome rehabilitation failure

- Fibre introduced too aggressively – symptoms triggered, patient stops
- Treatment stopped at first symptom improvement – the single most common reason for relapse
- Probiotics without prebiotic substrate – seeding without feeding
- Ongoing restrictive eating – fermentable fibre avoidance prevents diversity rebuilding
- Excessive fear of symptoms – reinforces restriction
- Lack of retesting – management defaults to symptoms
- Under-eating overall

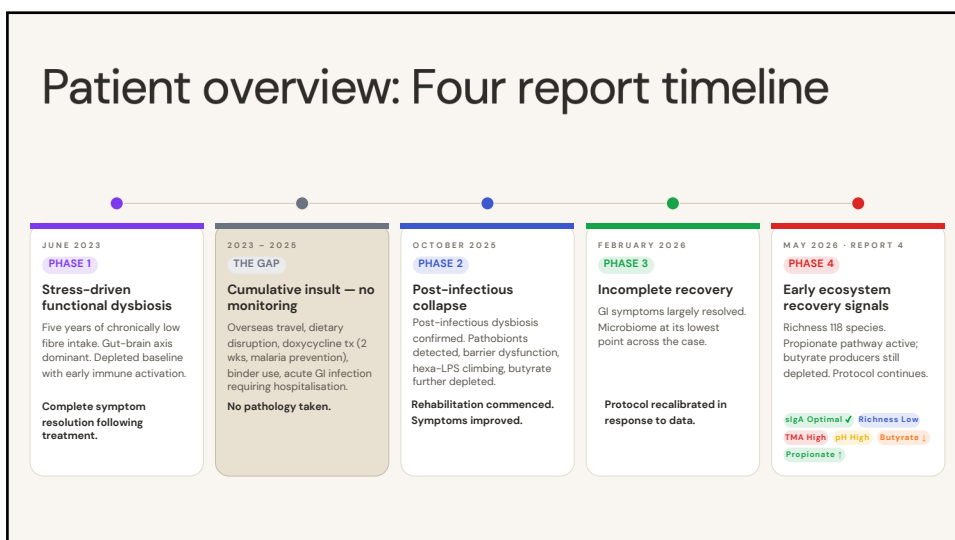
The goal is ecological rebuilding, not temporary symptom suppression.



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Report 1: June 2023

Functional dysbiosis

Clinical presentation

- Alternating loose stools and constipation
- High fat and high glycaemic food intolerance
- Stress-exacerbated GI symptoms – gut-brain axis involvement
- Burnout physiology and high exercise load
- Long-term low fibre intake (~5 years)
- Prior ad hoc antimicrobial use

Gastrointestinal Health Marker ^{†1}	Result	Reference Range
Calprotectin	62.39	< 50.00 µg/g
Faecal Occult Blood	NOT DETECTED	
Lactoferrin	1.03	< 7.20 µg/g
Secretory IgA	6,350.80	500.00 µg/g - 2,000.00 µg/g

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Report 1: June 2023

Functional dysbiosis

Key findings

- Richness: 139 species – borderline low
- sIgA: elevated – mucosal immune activation
- Calprotectin: borderline – colonoscopy returned normal
- BCAA producers: mildly elevated

Interpretation

- Gut-brain axis dysregulation driving functional, stress-responsive bowel pattern
- Early immune activation without overt IBD
- Low diversity with early metabolic imbalance

Intervention & outcome

- PHGG, multi-strain probiotic, *Saccharomyces boulardii*, fermented foods
- Stress response and nervous system regulation – introduced as primary treatment pillar
- Outcome: complete symptom resolution, normalised bowel pattern

Clinical decision point: Symptoms resolved completely. No retest was conducted. The baseline deficit – borderline richness, elevated sIgA – remained unconfirmed.

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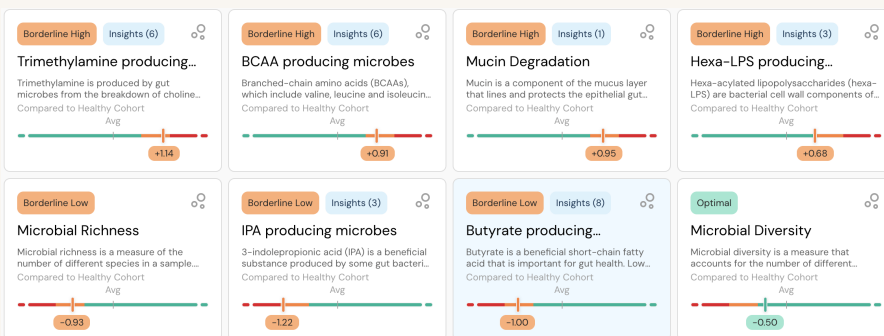
Report 2: October 2025 Post-infectious collapse

What happened between the reports - the gap

- Multiple overseas trips — significant dietary disruption
- Doxycycline 2-week course — documented Bifidobacterium-depleting effect, landed on already borderline-low richness
- Binders use during travel
- Acute GI infection — hospitalisation, IV fluids only, no PCR taken
- No microbiome monitoring throughout

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Report 2: October 2025 Post-infectious collapse



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Report 2: October 2025 Post-infectious collapse

Key findings

- Richness: 146 species — borderline low (numerical increase, not clinically meaningful)
- *Aeromonas* spp. detected — indeterminate, consistent with acute GI history
- Dominant pathobiont: *Bacteroides vulgatus*
- ↑ hexa-LPS, ↑ *Bilophila wadsworthia*, ↑ *E. coli* (flexneri)
- ↑ mucin degradation, ↓ butyrate producers, ↑ TMA producers
- sIgA persistently elevated — uninterrupted since Report 1
- Calprotectin: normal

Interpretation

- Post-infectious dysbiosis — barrier dysfunction, endotoxin dominance, persistent immune activation
- Functional fatigue emerging despite normal standard pathology

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Report 2: October 2025 Post-infectious collapse

Management - phase 2

- Barrier support first — L-glutamine, targeted probiotics, fermented foods
- Graded fibre reintroduction — GOS and PHGG at low starting doses
- Omega-3 fatty acids — anti-inflammatory LPS burden
- Mediterranean dietary pattern

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Report 3: February 2026

Incomplete recovery

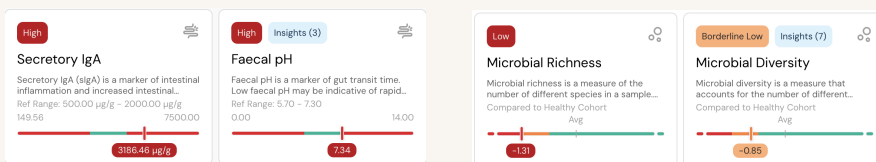
Clinical status

- GI symptoms largely resolved
- Persistent fatigue — morning fatigue and afternoon energy crashes
- Mild ongoing intolerance to legumes and high-fibre loads
- Fully compliant with protocol

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Report 3: February 2026

Incomplete recovery



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Report 3: February 2026

Incomplete recovery

Key findings

- Richness: 130 species — lowest recorded, below 2023 baseline
- Butyrate producers: formally LOW — lowest value across all three reports
- Hexa-LPS: HIGH — first time across the case
- TMA: HIGH — first time across the case
- Faecal pH: above range — alkaline shift confirming SCFA fermentation has failed
- sIgA: persistently elevated — three years of continuous mucosal immune activation
- *E. coli dysenteriae* elevated — strain shift from flexneri in Report 2
- Propionate producers: borderline high — compensatory shift, slower transit

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Report 3: February 2026

Incomplete recovery

Interpretation

- Chronic post-infectious dysbiosis phenotype
- Persistent immune activation despite symptom improvement
- Incomplete barrier repair — low butyrate state
- Fatigue driven by gut-immune-mitochondrial axis interaction

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Phase 3 protocol









Each intervention mapped directly to the specific marker deficit identified in February 2026.

Target marker	Intervention	Product/approach	Dose
Elevated sIgA — mucosal immune activation	Multi-strain probiotic	LGG, BB-12, Saccharomyces boulardii	1 daily
Richness 130 species — depleted diversity	High-strain diversity probiotic	30B CFU, multi-strain	1 daily
Richness + butyrate — substrate support	Broad prebiotic blend	Oats 2g, RS65 green banana 2g, 2'-fucosyllactose 1g, GOS 1g, PHGG 1g, pomegranate ext 0.5g	7.5g twice daily
Transit — elevated propionate, slow transit	Spore + PHGG synbiotic	B. coagulans IS2, B. subtilis HU58, PHGG	1 tablespoon with food
Hexa-LPS HIGH, TMA HIGH	Anti-inflammatory lipid therapy	High-strength omega-3	4020mg total daily
Barrier dysfunction — sIgA + low butyrate	Gut barrier repair nutrients	L-glutamine, turmeric, zinc carnosine, quercetin	1 scoop 2 per day

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Report 3: February 2026 Incomplete recovery

Phase 3 | Dietary strategy

 <p>Mediterranean high-diversity pattern</p> <p>DAILY</p>	 <p>>30 plant foods per week</p> <p>WEEKLY TARGET</p>	 <p>Resistant starch daily</p> <p>Cooled cooked potato, green banana flour, legumes</p>	 <p>Polyphenol-rich foods</p> <p>Berries, pomegranate, green tea, olive oil</p>
 <p>Fermented foods rotation</p> <p>DAILY</p>	 <p>Omega-3 rich proteins</p> <p>Oily fish minimum 3x per week</p>	 <p>Strict reduction of ultra-processed foods & artificial sweeteners</p>	 <p>Hydration 2–2.5 L daily</p> <p>DAILY</p>

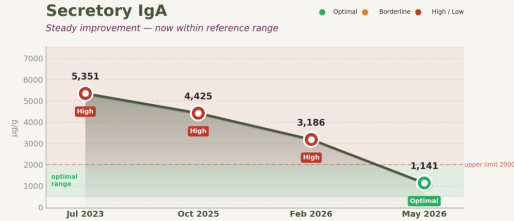
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Report 4: Inflammation & barrier — resolving

The diagnostic markers that drove the case are now within range

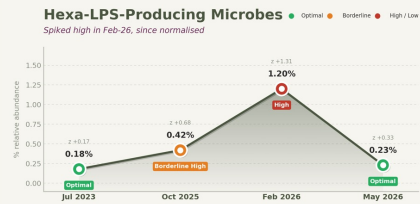
Secretory IgA

Steady improvement — now within reference range



Hexa-LPS-Producing Microbes

Spiked high in Feb-26, since normalised



Both inflammatory and barrier markers normalised by May 2026. Secretory IgA fell from 5351 to 1141 µg/g — optimal for the first time across all four reports, signalling that mucosal immune activation has resolved. Hexa-LPS producers spiked to a High 1.20% in Feb 2026, then returned to an optimal 0.23%, confirming the endotoxin burden is controlled.

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Report 4: Akkermansia bloom — regeneration

One constructive counter-signal within a depleted ecosystem

Akkermansia muciniphila

species relative abundance — Δavg = distance from cohort

Absent in 2023, bloomed to 5.66% — linked to the propionate rise



Absent in 2023, now 5.66%

Akkermansia muciniphila was undetected in 2023 and bloomed to 5.66% by May 2026 (Δ +2.19 from the cohort mean).

As a mucin-associated keystone and propionate producer, its emergence is consistent with recovery of the mucin layer and tracks the propionate rise. Within an otherwise depleted functional ecosystem, this is a genuinely constructive signal — and consistent with the polyphenol strategy.

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Report 4: May 2026

Early recovery signals

Clinical interpretation – early recovery trajectory

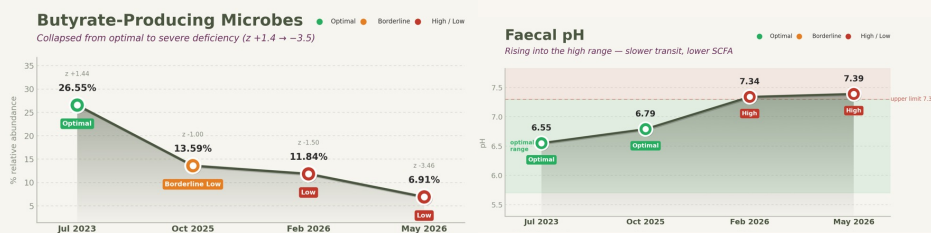
- Propionate pathway active – the ecosystem is beginning to rebuild SCFA capacity, starting with propionate before butyrate
- Akkermansia emergence – mucin layer activity recovering, polyphenol strategy having effect
- Fibre-fermenting Bacteroides species rising – dietary substrate strategy taking hold
- Butyrate producers still depleted – the most important producers (Agathobacter, Agathobaculum) remain below average

Interpretation: This is early-stage ecosystem recovery. Propionate before butyrate is the expected sequence. The protocol is working but butyrate restoration requires continued substrate and dietary support.

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As butyrate falls, faecal pH rises

Butyrate is a short-chain fatty acid that acidifies the colon

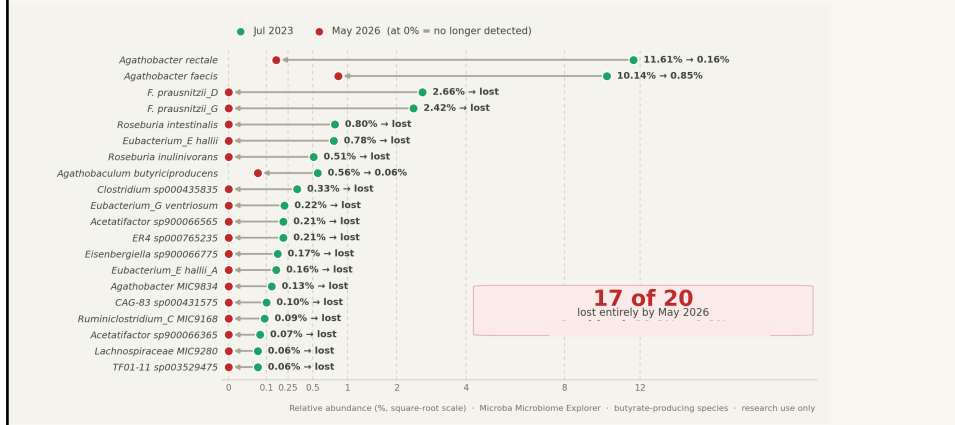


As butyrate-producing microbes decline, faecal pH rises. Butyrate is a short-chain fatty acid; it is acidic and acidifies the bowel. Without sufficient butyrate, the bowel becomes more alkaline – shifting faecal pH from an optimal 6.55 into the high range at 7.39 as butyrate producers collapsed from 26.6% to 6.9%.

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Twenty butyrate producers in decline

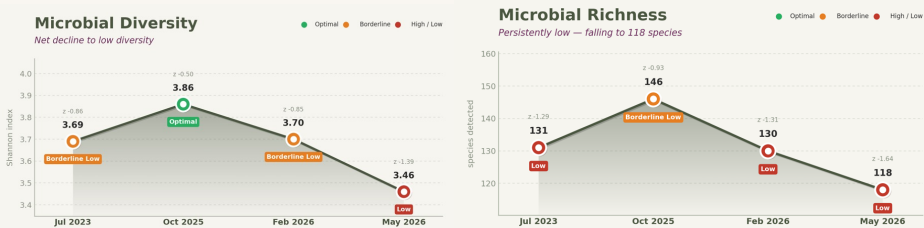
The most-depleted producers across all four reports



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Microbial diversity and richness

Both ecological measures peaked in 2025, then declined to low



The ecosystem has narrowed over three years. Shannon diversity rose to 3.86 in Oct 2025, then fell to a low 3.46, and richness followed the same arc — 131 → 146 → 130 → 118 named species. Fewer species and lower evenness mean less functional redundancy and resilience, consistent with the loss of butyrate-producing taxa.

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Clinical lessons from the case

- Recovery is nonlinear — the trend across multiple reports is the signal; any single report is a snapshot
- Symptom trajectory and microbiome trajectory can diverge — the data is the only way to know which direction the ecosystem is actually moving
- Report 1 showed borderline diversity and depleted keystone species, yet the patient was discharged on negative colonoscopy and symptom resolution. Given the dietary history, a clear protocol for microbiome rehabilitation could have been established. As well as a repeat test 3–6 months later.
- Retesting changes management — in this case it changed the entire therapeutic approach at every stage
- Barrier repair takes time — sustained support is required, not a short course
- Low resilience magnifies every future insult — building resilience protects future trajectory
- Early recovery shows propionate before butyrate — expect this sequence; continue protocol until butyrate producers recover

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Key learnings

Eight learnings, four shifts in practice.

01 RECOGNISE

Spot the starved-microbiome picture early

- Define starved microbiome — substrate absence, not pathogen presence.
- Catch early clinical signals before symptoms force investigation.

02 INTERPRET

Read the marker cluster, not isolated values

- Sequence the cluster — butyrate, then IPA, then richness, then LPS & sIgA.
- Connect dietary recommendations to specific species and substrates.

03 MANAGE

Rebuild the gut in the right order

- Support in sequence after insult — barrier first, then substrate, then diversity.
- Apply staged rehabilitation mapped to markers — not generic supplementation.

04 COMMUNICATE

Translate findings into realistic expectations

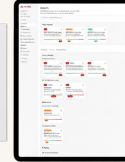
- Distinguish symptom resolution from genuine recovery — confirm with data.
- Frame longitudinal findings to support realistic expectations and compliance.

THE THROUGH-LINE

Treat substrate, sequence, and structure — not symptoms alone.

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Our Clinical Range



Microbiome Explorer Essentials

Insights about the microbiome's impact on systemic health.

- Intestinal permeability
- Autoimmunity concerns
- Mental health issues
- Hormonal issues
- Systemic inflammation

Panels: Microbiome Profile (mNGS)

Microbiome Explorer Extended

Insights about the microbiome's impact on systemic health.

- Intestinal permeability
- Autoimmunity concerns
- Mental health issues
- Hormonal issues
- Systemic inflammation

Panels Microbiome Profile (mNGS)
GI Health Panel (ELISA)

Microbiome Explorer Comprehensive

Insights about the microbiome's impact on systemic health.

- Intestinal permeability
- Autoimmunity concerns
- Mental health issues
- Hormonal issues
- Systemic inflammation

Panels Microbiome Profile (mNGS) GI Health Panel (ELISA) Pathogen Panel (PCR)

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Supporting resources



DOWNLOAD

The Usual Suspects Species Guide

Beneficial and detrimental metabolites and their associated species

Download ↓



GUIDE

Prebiotic Guide

Make the connection between beneficial gut species and the prebiotics that nurture them.

Download ↓



GUIDE

Polyphenols Clinical Guide

Discover the plant power of polyphenols and their interaction with health and disease.

Download ↓



GUIDE

Low FODMAP Prebiotic Guide

Discover some well-tolerated, low FODMAP prebiotic fibres that may help manage gut symptoms.

Download ↓

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Questions & Answers 006

CLINICAL CONVERSATIONS
004

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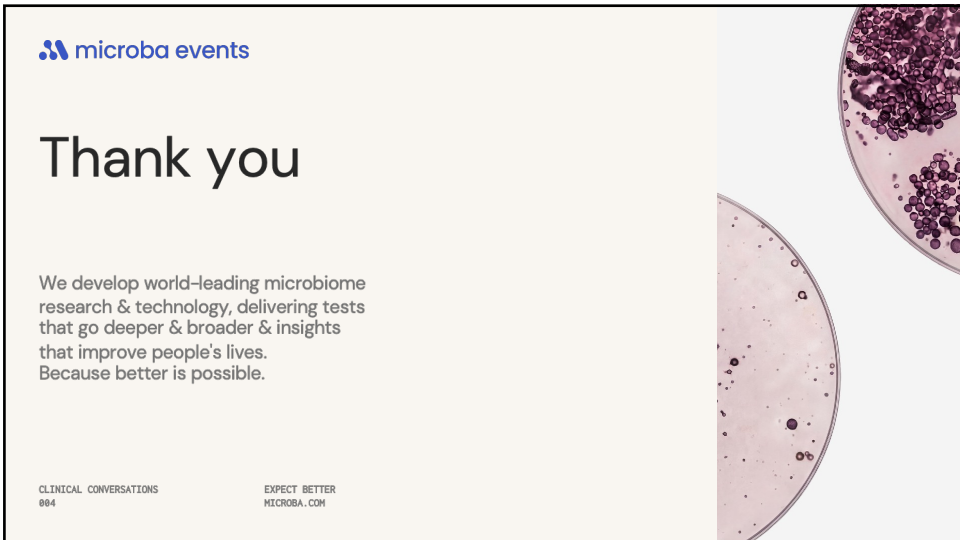
 microba events

Thank you

We develop world-leading microbiome research & technology, delivering tests that go deeper & broader & insights that improve people's lives. Because better is possible.

CLINICAL CONVERSATIONS
004

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