

-.KATHRYN MOLONEY KATHRYN MOLONEY NATUROPATHY 22 YACCA WAY ALDINGA SA 5173

TAHLIA PARRISH 13-Dec-1985 Female

16 NELSON STREET
PORT NOARLUNGA SOUTH SA 5167

LAB ID : 3935968 UR NO. : 6201321 Collection Date : 20-Nov-2023 Received Date: 22-Nov-2023



3935968

COMPLETE MICROBIOME MAPPING

General Macroscopic Description							
	Result	Markers					
Stool Colour	Brown	Colour - Brown is the colour of normal stool. Other colours may indicate abnormal gut health.					
Stool Form	Formed	Form -Sample form is categorised using the Bristol stool chart. A comment on stool appearance can be found in the comments section.					
Mucous	Not Detected	Mucous - Mucous production may indicate the presence of an infection and/or inflammation.					
Occult Blood	Negative	Blood (Macro) - The presence of blood in the stool may be the result of several causes besides colorectal bleeding, including hemorrhoids or gastrointestinal infection.					

Range

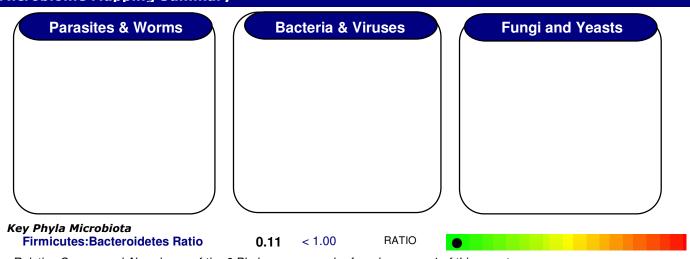
Units

Result

Short Chain Fatty Acids, Beneficial	75.1	> 13.6	umol/g	
Butyrate	10.7 *L	10.8 - 33.5	%	
Acetate	65.5	44.5 - 72.4	%	
Propionate	21.8	0.0 - 32.0	%	
Valerate	2.0	0.5 - 7.0	%	
GIT Functional Markers	Result	Range	Units	
Calprotectin.	<i>58.0</i> *H	0.0 - 50.0	ug/g	
Pancreatic Elastase	>800.0	> 200.0	ug/g	
Secretory (slgA)	1190.3	510.0 - 2040	.0 ng/mL	
Zonulin	76.5	0.0 - 107.0	ng/mL	
Beta glucuronidase	1640.3	368.0 - 6266	. 0 U/g	
Steatocrit	<1.0	0.0 - 15.0	%	
a-Transglutaminase IgA	31.0	0.0 - 100.0	units/L	

Microbiome Mapping Summary

Short Chain Fatty Acids



Relative Commensal Abundance of the 6 Phyla groups can be found on page 4 of this report

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Parasites and Worms.	Result	Range	Units	
Parasitic Organisms				
Cryptosporidium species	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td></td></dl<>	< 1.0	x10^5 org/g	
Entamoeba histolytica.	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td></td></dl<>	< 1.0	x10^5 org/g	
Giardia intestinalis	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td>•</td></dl<>	< 1.0	x10^5 org/g	•
Blastocystis hominis.	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td>•</td></dl<>	< 1.0	x10^5 org/g	•
Dientamoeba fragilis.	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td>•</td></dl<>	< 1.0	x10^5 org/g	•
Endolimax nana	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td></td></dl<>	< 1.0	x10^5 org/g	
Entamoeba coli.	<dl< td=""><td>< 5.0</td><td>x10^5 org/g</td><td></td></dl<>	< 5.0	x10^5 org/g	
Pentatrichomonas hominis	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td></td></dl<>	< 1.0	x10^5 org/g	

Ascaris lumbricoides, Roundworm

Trichuris trichiura, Whipworm

Enterocytozoon spp

Strongyloides spp, Roundworm

Not Detected
Not Detected
Not Detected
Not Detected
Not Detected

Necator americanus, Hookworm Enterobius vermicularis,Pinworm Hymenolepis spp, Tapeworm Taenia species, Tapeworm

Not Detected Not Detected Not Detected Not Detected

Comment: Not Detected results indicate the absence of detectable DNA in the sample for the worms reported. NOTE: Reflex testing is performed on clinically indicated samples

portunistic Bacteria/Overgrow	th Result	Range	Units
Bacillus species.	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th></dl<>	< 1.00	x10^4 CFU/g
Enterococcus faecalis	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td></dl<>	< 1.00	x10^5 CFU/g
Enterococcus faecium	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td></dl<>	< 1.00	x10^5 CFU/g
Morganella species	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td></dl<>	< 1.00	x10^5 CFU/g
Pseudomonas species	<dl< th=""><td>< 1.00</td><td>x10^4 CFU/g</td></dl<>	< 1.00	x10^4 CFU/g
Pseudomonas aeruginosa.	<dl< th=""><td>< 3.00</td><td>x10^4 CFU/g</td></dl<>	< 3.00	x10^4 CFU/g
Staphylococcus species	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g
Staphylococcus aureus	<dl< th=""><td>< 5.00</td><td>x10^3 CFU/g</td></dl<>	< 5.00	x10^3 CFU/g
Streptococcus species	2.00	< 3.00	x10^6 CFU/g
Methanobrevibacter smithii	<dl< th=""><td>< 3.50</td><td>x10^5 CFU/g</td></dl<>	< 3.50	x10^5 CFU/g
Desulfovibrio piger	<dl< th=""><td>< 18.00</td><td>x10^7 CFU/g</td></dl<>	< 18.00	x10^7 CFU/g
Enterobacter cloacae complex.	<dl< th=""><td>< 5.00</td><td>x10^5 CFU/g</td></dl<>	< 5.00	x10^5 CFU/g
otential Autoimmune Triggers			
Citrobacter species.	<dl< th=""><th>< 5.00</th><th>x10^4 CFU/g</th></dl<>	< 5.00	x10^4 CFU/g
Citrobacter freundii.	<dl< th=""><td>< 5.00</td><td>x10^4 CFU/g</td></dl<>	< 5.00	x10^4 CFU/g
Klebsiella species	<dl< th=""><td>< 5.00</td><td>x10^3 CFU/g</td></dl<>	< 5.00	x10^3 CFU/g
Klebsiella pneumoniae.	<dl< th=""><td>< 5.00</td><td>x10^5 CFU/g</td></dl<>	< 5.00	x10^5 CFU/g
Prevotella copri	<dl< th=""><td>< 1.00</td><td>x10^9 CFU/g</td></dl<>	< 1.00	x10^9 CFU/g
Proteus species	<dl< th=""><td>< 5.00</td><td>x10^5 CFU/g</td></dl<>	< 5.00	x10^5 CFU/g
Proteus mirabilis.	<dl< th=""><td>< 1.00</td><td>x10^4 CFU/g</td></dl<>	< 1.00	x10^4 CFU/g
Fusobacterium species	<dl< th=""><td>< 10.00</td><td>x10^4 CFU/g</td></dl<>	< 10.00	x10^4 CFU/g
ngi & Yeast	Result	Range	Units
Candida species.	<dl< th=""><td>< 5.00</td><td>x10^5 CFU/g</td></dl<>	< 5.00	x10^5 CFU/g
Candida albicans.	<dl< th=""><td>< 5.00</td><td>x10^4 CFU/g</td></dl<>	< 5.00	x10^4 CFU/g
Geotrichum species.	<dl< th=""><td>< 3.00</td><td>x10^2 CFU/g</td></dl<>	< 3.00	x10^2 CFU/g
Saccharomyces cerevisiae.	<dl< th=""><td>< 3.00</td><td>x10^3 CFU/g</td></dl<>	< 3.00	x10^3 CFU/g
Rhodotorula species.	<dl< th=""><td>< 1.00</td><td>x10^3 CFU/g</td></dl<>	< 1.00	x10^3 CFU/g



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Bacterial Pathogens	Result	Range	Units
Aeromonas hydrophila.	<dl< th=""><th>< 1.00</th><th>x10^3 CFU/g</th></dl<>	< 1.00	x10^3 CFU/g
Campylobacter species.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th></dl<>	< 1.00	x10^5 CFU/g
C. difficile, Toxin A	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th></dl<>	< 1.00	x10^4 CFU/g
C. difficile, Toxin B	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th></dl<>	< 1.00	x10^4 CFU/g
Enterohemorrhagic E. coli	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th></dl<>	< 1.00	x10^5 CFU/g
Enteroinvasive E. coli/Shigella	<dl< th=""><th>< 1.00</th><th>x10^3 CFU/g</th></dl<>	< 1.00	x10^3 CFU/g
Enterotoxigenic E. coli LT/ST	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th></dl<>	< 1.00	x10^5 CFU/g
Shiga-like Toxin E. coli stx1	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th></dl<>	< 1.00	x10^4 CFU/g
Shiga-like Toxin E. coli stx2	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th></dl<>	< 1.00	x10^4 CFU/g
Salmonella species.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th></dl<>	< 1.00	x10^5 CFU/g
Vibrio species.	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th></dl<>	< 1.00	x10^4 CFU/g
Yersinia species.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th></dl<>	< 1.00	x10^5 CFU/g
Helicobacter pylori	<dl< th=""><th>< 1.0</th><th>x10^3 CFU/g</th></dl<>	< 1.0	x10^3 CFU/g

Comment: Helico Pylori virulence factors will be listed below if detected POSITIVE

H.pylori Virulence Factor, babA	Not Detected	H.pylori Virulence Factor, cagA	Not Detected
H.pylori Virulence Factor, dupA	Not Detected	H.pylori Virulence Factor, iceA	Not Detected
H.pylori Virulence Factor, oipA	Not Detected	H.pylori Virulence Factor, vacA	Not Detected
H.pylori Virulence Factor, virB	Not Detected	H.pylori Virulence Factor, virD	Not Detected

Units

Viral Pathogens	Result Range
Adenovirus 40/41	Not Detected
Norovirus GI/II	Not Detected
Rotavirus A	Not Detected
Sapovirus (I,II,IV,V)	Not Detected
Astrovirus (hAstro)	Not Detected

Normal Bacterial GUT Flora	Result	Range	Units	
Bacteroides fragilis	17.7	1.6 - 250.0	x10^5 CFU/g	
Bifidobacterium species	4.0 *L	> 6.7	x10^5 CFU/g	
Bifidobacterium longum	2.3 *L	> 5.2	x10^5 CFU/g	
Enterococcus species	20.8	1.9 - 2000.0	x10^3 CFU/g	
Escherichia species	2100.7	3.7 - 3800.0	x10^4 CFU/g	•
Lactobacillus species	1559.9	8.6 - 6200.0	x10^3 CFU/g	•
Lactobacillus rhamnosus	13.0	8.3 - 885.0	x10^3 CFU/g	•
Clostridium species	1.3 *L	5.0 - 50.0	x10^7 CFU/g	
Oxalobacter formigenes	<dl *l<="" th=""><th>> 5.00</th><th>x10^6 CFU/g</th><th></th></dl>	> 5.00	x10^6 CFU/g	
Akkermansia muciniphila	2.50	1.00 - 50.00	x10^7 CFU/g	
Faecalibacterium prausnitzii	181.0 *L	200.0 - 3500.0	x10^6 CFU/g	•

Methodology:

GIT Functional markers performed by GCMS,EIA,FEIA.

Bacteriology, Virology, Fungi, Parasites & Worms performed by PCR, gPCR.

<dl = result below detectable limit. *H = Result greater than the reference range. *L = Result less than the reference range



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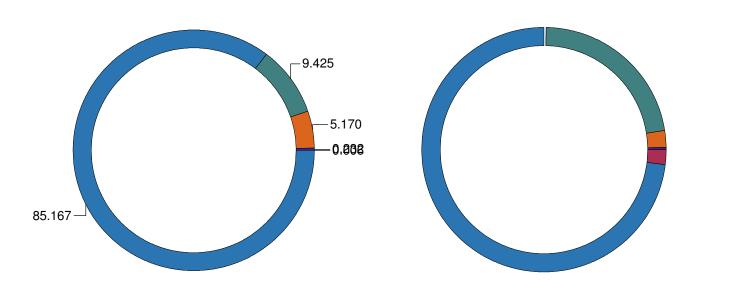
Introduction:

Your gut microbiome is a collective name for the 40 trillion cells and up to 1000 microbial species that include bacteria, viruses, fungi, parasites, and archaea and reside in our gut. The number of gut bacterial cells is approximately equal to the total number of human cells in our body, so if we consider only cell counts, we are only about half human. In terms of gene counts, the microbiome contains about 200 times more genes than the human genome, making bacterial genes responsible for over 99% of our body's gene content! Of all the microbial communities in the human body, the gut microbiome is by far the most dense, diverse, and physiologically important ecosystem to our overall health.

Rel	ative Commensal Abunda	Range	Units	
	Bacteroidetes Phylum	85.167	50.000 - 95.000	%
	Firmicutes Phylum	9.425	3.500 - 40.000	%
	Proteobacteria Phylum	5.170	0.500 - 12.500	%
	Verrucomicrobia Phylum	0.232	0.000 - 2.400	%
	Actinobacteria Phylum	0.006	0.001 - 4.818	%
	Euryarchaeota Phylum	0.000	0.000 - 0.017	%

Your Phyla:

Healthy Phyla:



References

NOTE: Relative abundance reference ranges have been based on a healthy population study.

King CH, et., al. (2019) Baseline human gut microbiota profile in healthy people and standard reporting template. PLoS One. 2019 Sep 11;14(9):e0206484.



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Pathogen Summary:

Macroscopy Comment

BROWN coloured stool is considered normal in appearance.

Faecal Occult Blood Negative:

Faecal occult blood has not been detected in this specimen. If the test result is negative and clinical symptoms persist, additional follow-up testing using other clinical methods is recommended.

Metabolism Comment

In a healthy gut Short Chain Fatty Acids (SCFAs) exhibited in the following proportions; Butyrate, Acetate, Propionate (16%:60%:24%).

The primary SCFAs butyrate, propionate and acetate are produced by predominant commensal bacteria via fermentation of soluble dietary fibre and intestinal mucus glycans.

Key producers of SCFAs include Faecalibacterium prausnitzii, Akkermansia mucinphila, Bacteroides fragilis, Bifidobacterium, Clostridium and Lactobacillus Spp.

The SCFAs provide energy for intestinal cells and regulate the actions of specialised mucosal cells that produce anti-inflammatory and antimicrobial factors, mucins that constitute the mucus barriers, and gut active peptides that facilitate appetite regulation and euglycemia. Abnormal SCFAs may be associated with dysbiosis, intestinal barrier dysfunction and inflammatory conditions.

LOW BUTYRATE LEVEL:

Butyrate is a short chain fatty acid that is extremely important for gut health. It is the main fuel source for gut cells, which helps keep the gut cell barrier intact, can reduce inflammation, and helps control appetite. Low levels of butyrate production have been observed in individuals with inflammatory bowel diseases, insufficient fibre intake, slow transit time, recent antibiotic therapy. Low butyrate may also be associated with an increased risk of colon cancer & constipation.

Consuming foods high in resistant starch has been shown to increase butyrate levels.

SCFA PRODUCTION TABLE

BACTERIA	BUTYRATE	PROPRIONATE	ACETATE
Akkermansia muciniphila		**	**
Anaerostipes caccae	**		
Bacteroides spp.		**	
Bifidobacterium spp.		A	**
Blautia obeum		A A	**
Coprococcus eutactus	A		
Escherichia coli			A
Eubacterium rectale	A A		
Faecalibacterium prausnitzii	**		
Lactobacillus spp.	A	A	A
Roseburia homini	A A		
Ruminococcus bromii	A		A
Subdoligranulum variabile	A		



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GIT Markers Comment

PANCREATIC ELASTASE: Normal exocrine pancreatic function.

Pancreatic Elastase reflects trypsin, chymotrypsin, amylase and lipase activity.

This test is not affected by supplements of pancreatic enzymes.

Healthy individuals should be producing >500 ug/g of PE-1 under normal/healthy conditions.

PE-1 levels between 200 - 500 ug/g may indicate suboptimal production.

PE-1 levels <200 ug/g indicate clear inadequate production.

The clinician should therefore consider digestive enzyme supplementation if one or more of the following conditions is present: Loose watery stools, Undigested food in the stools, Post-prandial abdominal pain, Nausea or colicky abdominal pain, Gastroesophageal reflux symptoms, Bloating or food intolerance.

Testing performed by chemiluminescence immunosassay (CLIA).

ELEVATED CALPROTECTIN:

Elevated faecal calprotectin indicates a high probability of intestinal inflammation.

For patients with known inflammatory bowel disease in remission, faecal calprotectin above 50 ug/g is associated with an increased risk of relapse over the next 12 months. In patients with faecal calprotectin below 50u/g with strong clinical indications of intestinal inflammation, repeat testing may be useful. In small bowel Crohn's disease, the faecal calprotectin may not be elevated. Elevated faecal calprotectin may occur with other conditions including colorectal cancer, NSAID ulceration, coeliac disease, diverticulitis and chronic inflammation.

Further investigative procedures are necessary to determine the cause of inflammation.

Test performed by Phadia EliA Fluorescence enzyme immunoassay (FEIA).

SECRETORY IGA NORMAL:

Secretory IgA is within range.

Secretory IgA represents the first line of defence of the gastrointestinal mucosa and is central to the normal function of the gastrointestinal tract as an immune barrier. Review this level with other pathogenic bacteria and normal commensal flora. Lower levels within reference range should be interpreted clinically.

ZONULIN HIGH NORMAL:

Zonulin is a protein that modulates intestinal barrier function and can also be considered as a potential inflammatory marker. Although this result is within range, the result should be interpreted with patient clinical symptoms as well as reviewing the presence of other proteobacteria that may be the result of increased Zonulin.

beta-GLUCORONIDASE NORMAL:

B-Glucuronidase is considered normal and is within reference range.

Opportunistic Bacteria Comment

METHANOBREVIBACTER SMITHII:

PHYLUM: Euryarchaeota

DESCRIPTION:

Methanobrevibacter smithii is a methane-producing microbe that plays an important role in the gut ecosystem by facilitating carbohydrate fermentation and production of short-chain fatty acids by commensal bacteria. Approximately 70% of the healthy cohort has below detectable levels of Methanobrevibacter smithii.

Page 6 of 9 Complete Microbiome Map Lab ID: 3935968 Patient Name: TAHLIA PARRISH Printed: 29/Nov/23 15:29



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Normal Bacterial Flora Comment

BIFIDOBACTERIUM SPECIES LOW:

PHYLUM: Actinobacteria

DESCRIPTION:

Bifidobacterium is a genus of gram-positive, nonmotile anaerobic bacteria that are ubiquitous inhabitants of the gastrointestinal tract and considered a probiotic. Bifidobacterium species prevent diarrhea and intestinal infections, alleviate constipation, and stimulate the immune system. Low levels may be associated with irritable bowel syndrome, asthma, autism, depressive disorder and with pathogenic bacterial infection.

TREATMENT SUGGESTIONS: Treatment may involve the use of Bifidobacterium containing probiotics and treatment of any intestinal infection.

BIFIDOBACTERIUM LONGUM LOW:

PHYLUM: Actinobacteria

DESCRIPTION:

Bifidobacterium longum is a Gram-positive, catalase-negative, rod-shaped bacterium present in the human gastrointestinal tract and one of the Bifidobacterium species. It can induce and regulate immune responses, reduce the expression of inflammatory cytokines, and maintain the normal intestinal barrier function.

Bifidobacterium longum is a clinically effective, well-established, multifunctional probiotic that has a long history of human use in alleviating gastrointestinal, immunological, and infectious diseases such as constipation, antibiotic associated diarrhoea, irritable bowel syndrome and ulcerative colitis. Low levels may be associated with irritable bowel syndrome, asthma, autism, depressive disorder and with pathogenic bacteria infection.

TREATMENT SUGGESTIONS: Treatment may involve the use of Bifidobacterium longum containing probiotics and treatment of any intestinal infections.

CLOSTRIDIUM SPECIES LOW:

PHYLUM: Firmicutes

DESCRIPTION:

Clostridium is a genus of anaerobic, Gram-positive bacteria found in the environment and the intestinal tract. This genus includes several species and can utilize large amounts of nutrients that cannot be digested by host and produce short-chain fatty acids (SCFAs), which play a noticeable role in intestinal homeostasis. Colonisation of Clostridium species may be affected by diet (carbohydrate and protein in diet) and general health and may be protective against inflammation and infection. Decreased levels may be associated with ulcerative colitis and other intestinal disorders as well as an increased risk of pathogenic infection.

TREATMENT SUGGESTIONS: Treatment may involve the use of probiotics, treatment of any intestinal infections and dietary modification (diets enriched in different fibres, such as inulin, oligofructose, arabinoxylan, guar gum and starch).

OXOLOBACTER FORMIGENES LOW:

PHYLUM: Proteobacterium

DESCRIPTION:

Oxalobacter formigenes is a Gram negative oxalate-degrading anaerobic bacterium. Oxolate is formed in the liver by amino acid catabolism as well as present in a wide range of foods including tea, coffee, chocolate and certain fruits and vegetables. High concentration of oxalate in the urine is related to the potential formation of calcium oxalate kidney stones. Oxolobacter Formigenes is the main known bacterial species involved in oxalate degradation in the gut and maintains oxalate homeostasis. Levels of O. Formigenes tends to decrease with age as well as with the use of antibiotics or other drugs. Low levels may be associated with calcium oxide stone formation, inflammatory bowel disease or Crohn's.

TREATMENT SUGGESTIONS:

Treatment options include probiotic treatment and low oxalate diet modification. Urinary oxalate levels may also need to be investigated.

FAECALIBACTERIUM PRAUSNITZII LOW:

PHYLUM: Firmicutes



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DESCRIPTION:

Faecalibacterium prausnitzii is gram-positive, rod-shaped, anaerobic and is one of the most abundant and important commensal bacteria of the human gut microbiota. It is a key producer of Short Chain Fatty acids, has anti-inflammatory properties and may improve the imbalance in intestinal bacteria that leads to dysbiosis. Decreased colonisation of F. prausnitzii in the intestines have been associated with Crohn's disease, obesity, asthma, and major depressive disorders.

TREATMENT SUGGESTIONS: Treatment may involve the use of probiotics, treatment of any intestinal infections and dietary modification.



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The Four "R" Treatment Protocol

	Using a course of	ANTIMICROBIAL	Oil of oregano, berberine, caprylic acid
	antimicrobial, antibacterial, antiviral or anti parastic therapies in cases where organisms are present. It may	ANTIBACTERIAL	Liquorice, zinc camosine, mastic gum, tribulus, berberine, black walnut, caprylic acid, oil of oregano
REMOVE	also be necessary to remove offending foods, gluten, or	ANTIFUNGAL	Oil of oregano, caprylic acid, berberine, black walnut
HEM	medication that may be acting as antagonists.	ANTIPARASTIC	Artemesia, black walnut, berberine, oil of oregano
	Consider testing IgG96 foods as a tool for removing offending foods.	ANTIVIRAL	Cat's claw, berberine, echinacea, vitamin C, vitamin D3, zinc, reishi mushrooms
		BIOFILM	Oil of oregano, protease
REPLACE	In cases of maldigestion or malabsorption, it may be necessary to restore proper digestion by supplementing with digestive enzymes.	DIGESTIVE SUPPORT	Betaine hydrochloride, tilactase, amylase, lipase, protease, apple cider vinegar, herbal bitters
ш	Recolonisation with healthy,	PREBIOTICS	Sippery elm, pectin, larch arabinogalactans
RENOCULATE	Supplementation with probiotics, along with the use of prebiotics helps re-establish the proper microbial balance.	PROBIOTICS	Bifidobacterium animalissup lactise, lactobacillus acidophilus, lactobacillusplantarum, lactobacillus casei, bifidobacterium breve, bifidobacterium bifidum, bifidobacterium longum, lactobacillus salivarius sep salivarius, lactobacillusparacasei, lactobacillus rhamnosus, Saccaromycesboulardii
EBALANCE	Restore the integrity of the gut mucosa by giving support to healthy mucosal cells, as well as immune support. Address whole	INTESTINAL MUCOSA IMMUNE SUPPORT	Saccaromyces boulardii, lauric acid
~ 조	body health and lifestyle factors so asto prevent future GI dysfunction.	INTESTINAL BARRIER REPAIR	L-Glutamine, a loe vera, liquorice, marshmallow root, okra, quercetin, slippery elm, zinc camosine, Saccaromyces boulardii, omega 3 essential fatty acids, B vitamins
REPAIR		SUPPORT CONSIDERATION	Seep, diet, exercise, and stress management