

-.RACHEAL LEE (NPINS) THRIVE HEALTH SHOP 6/115 SHINGLEY DRIVE AIRLIE BEACH QLD 4802

CASSEY CROOK 27-May-1982 Female

189 LEONA DRIVE BLOOMSBURY QLD 4799

LAB ID: 4022988

UR NO.:

Collection Date: 10-Sep-2024 Received Date: 12-Sep-2024



4022988

COMPLETE MICROBIOME MAPPING

General Macro	scopic Description	
	Result	Markers
Stool Colour	Brown	Colour - Brown is the colour of normal stool. Other colours may indicate abnormal gut health.
Stool Form	Semi-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.

Short Chain Fatty Acids	Result	Range	Units	
Methodology: GC/MS				
Short Chain Fatty Acids, Beneficial	48.0	> 13.6	umol/g	
Butyrate	25.5	10.8 - 33.5	%	
Acetate	52.8	44.5 - 72.4	%	•
Propionate	18.0	0.0 - 32.0	%	•
Valerate	3.7	0.5 - 7.0	%	

GII Functional Markers	Result	Range	Units	
Methodology: FEIA, EIA, CLIA, pH electrode				
Calprotectin.	<5.0	0.0 - 50.0	ug/g	
Pancreatic Elastase	681.0	> 200.0	ug/g	
Secretory (slgA)	<i>72.0</i> *L	510.0 - 2040	.0 ng/mL	•
Zonulin	55.0	0.0 - 107.0	ng/mL	
Beta glucuronidase	2583.1	368.0 - 6266	.0 U/g	
Steatocrit	1.0	0.0 - 10.0	%	
a-Transglutaminase IgA	<20	0.0 - 100.0	units/L	
pH	6.6	6.3 - 7.7		•

Microbiome Mapping Summary

Parasites & Worms

Blastocystis hominis. Dientamoeba fragilis.

Bacteria & Viruses

Fungi and Yeasts

Candida krusei. Candida parapsilosis.

Key Phyla Microbiota

Firmicutes:Bacteroidetes Ratio 0.93 < 1.00 RATIO

Relative Commensal Abundance of the 6 Phyla groups can be found on page 5 of this report



Enterocytozoon spp

Strongyloides spp, Roundworm

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Hymenolepis spp, Tapeworm

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Not Detected

Not Detected

Parasites and Worms.	Result	Range	Units		
Parasitic Organisms					
Cryptosporidium species	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td></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><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><td>_</td></dl<>	< 1.0	x10^5 org/g		_
Blastocystis hominis.	110.8 *H	< 1.0	x10^5 org/g		
Dientamoeba fragilis.	<i>910.8</i> *H	< 1.0	x10^5 org/g		
Endolimax nana	<dl< td=""><td>< 1.0</td><td>x10^5 org/g</td><td></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><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><td></td></dl<>	< 1.0	x10^5 org/g		
Worms					
Ancylostoma duodenale, Roundworn	n Not Dete	ected			
Ascaris lumbricoides, Roundworm	Not Dete	ected	Necator an	nericanus, Hookworm	Not Detected
Trichuris trichiura, Whipworm	Not Dete	ected	Enterobius	Not Detected	

Taenia species, Tapeworm 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

Not Detected

Not Detected

Opportunistic Bacteria/Overgrow		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 agalactiae.	<dl< th=""><td>< 3.00</td><td>x10^4 CFU/g</td></dl<>	< 3.00	x10^4 CFU/g
Streptococcus anginosus.	<dl< th=""><td>< 1.00</td><td>x10^6 CFU/g</td></dl<>	< 1.00	x10^6 CFU/g
Streptococcus mutans.	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th></dl<>	< 1.00	x10^4 CFU/g
Streptococcus oralis.	0.51	< 1.00	x10^6 CFU/g
Streptococcus salivarius.	0.82	< 5.00	x10^6 CFU/g
Methanobrevibacter smithii	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th></dl<>	< 1.00	x10^5 CFU/g
Desulfovibrio piger	<dl< th=""><th>< 18.00</th><th>x10^6 CFU/g</th></dl<>	< 18.00	x10^6 CFU/g
Enterobacter cloacae complex.	<dl< th=""><th>< 5.00</th><th>x10^5 CFU/g</th></dl<>	< 5.00	x10^5 CFU/g
Potential 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=""><th>< 5.00</th><th>x10^4 CFU/g</th></dl<>	< 5.00	x10^4 CFU/g
Klebsiella species	<dl< th=""><th>< 5.00</th><th>x10^3 CFU/g</th></dl<>	< 5.00	x10^3 CFU/g
Klebsiella pneumoniae.	<dl< th=""><th>< 5.00</th><th>x10^5 CFU/g</th></dl<>	< 5.00	x10^5 CFU/g
Prevotella copri	<dl< th=""><th>< 1.00</th><th>x10^9 CFU/g</th></dl<>	< 1.00	x10^9 CFU/g
Proteus species	<dl< th=""><th>< 5.00</th><th>x10^5 CFU/g</th></dl<>	< 5.00	x10^5 CFU/g
Proteus mirabilis.	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th></dl<>	< 1.00	x10^4 CFU/g
Fusobacterium species	2.47	< 10.00	x10^4 CFU/g



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Not Detected

Printed: 22/Sep/24 12:22

H.pylori Virulence Factor, virD

Units

ycology	Result	Range	Units	
Candida dubliniensis.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th><th></th></dl<>	< 1.00	x10^5 CFU/g	
Candida glabrata.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.00	x10^5 CFU/g	
Candida intermedia.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th><th></th></dl<>	< 1.00	x10^5 CFU/g	
Candida krusei.	1.24 *H	< 1.00	x10^5 CFU/g	•
Candida lambica.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.00	x10^5 CFU/g	
Candida lusitaniae.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.00	x10^5 CFU/g	
Candida parapsilosis.	1.80 *H	< 1.00	x10^5 CFU/g	
Candida albicans.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.00	x10^5 CFU/g	
Candida famata.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th><th></th></dl<>	< 1.00	x10^5 CFU/g	
Candida keyfr.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th><th></th></dl<>	< 1.00	x10^5 CFU/g	
Candida lipolytica.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th><th></th></dl<>	< 1.00	x10^5 CFU/g	
Geotrichum species.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th><th></th></dl<>	< 1.00	x10^5 CFU/g	
Rhodotorula species.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.00	x10^5 CFU/g	
Saccharomyces cerevisiae:	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.00	x10^5 CFU/g	
cterial Pathogens	Result	Range	Units	
Aeromonas hydrophila.	<dl< th=""><th>< 1.00</th><th>x10^3 CFU/g</th><th></th></dl<>	< 1.00	x10^3 CFU/g	
Campylobacter species.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.00	x10^5 CFU/g	
C. difficile, Toxin A	<dl< th=""><td>< 1.00</td><td>x10^4 CFU/g</td><td></td></dl<>	< 1.00	x10^4 CFU/g	
C. difficile, Toxin B	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th><th></th></dl<>	< 1.00	x10^4 CFU/g	
Enterohemorrhagic E. coli	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th><th></th></dl<>	< 1.00	x10^5 CFU/g	
Enteroinvasive E. coli/Shigella	<dl< th=""><th>< 1.00</th><th>x10^3 CFU/g</th><th></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><th></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><th></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><th></th></dl<>	< 1.00	x10^4 CFU/g	
Salmonella species.	<dl< th=""><th>< 1.00</th><th>x10^5 CFU/g</th><th></th></dl<>	< 1.00	x10^5 CFU/g	
Vibrio species.	<dl< th=""><th>< 1.00</th><th>x10^4 CFU/g</th><th></th></dl<>	< 1.00	x10^4 CFU/g	
Yersinia species.	<dl< th=""><td>< 1.00</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.00	x10^5 CFU/g	
Helicobacter pylori	<dl< th=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Comment: Helico Pylori virulenc	e factors v	vill be liste	ed below if detected POSITIVE	
H.pylori Virulence Factor, babA	Not Dete	ected	H.pylori Virulence Factor, cagA	Not Detected
H.pylori Virulence Factor, dupA	Not Dete		H.pylori Virulence Factor, iceA	Not Detected
H.pylori Virulence Factor, oipA	Not Dete		H.pylori Virulence Factor, vacA	Not Detected

vii ai Patilogelis	Result Ralige
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**

H.pylori Virulence Factor, virB

Bacteriology, Virology, Fungi, Parasites & Worms performed by PCR, qPCR. <dl = result below detectable limit. *H = Result greater than the reference range. *L = Result less than the reference range

Not Detected

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Normal Bacterial GUT Flora	Result	Range	Units
Bacteroides fragilis	67.8 1	.6 - 250.0	x10^5 CFU/g
Bifidobacterium adolescentis	294.1 4.	.6 - 1000.0	x10^5 CFU/g
Bifidobacterium bifidum.	<dl< b="">*L 4.</dl<>	.6 - 1000.0	x10^6 CFU/g
Bifidobacterium breve.	<i><di< i="">*L 4.</di<></i>	.6 - 1000.0	x10^3 CFU/g
Bifidobacterium longum	95.1 4.	.6 - 1000.0	x10^4 CFU/g
Enterococcus species	19.6 1.	.9 - 2000.0	x10^3 CFU/g
Escherichia species	503.4 3	3.7 - 3800.0	x10^4 CFU/g
Lactobacillus acidophilus.	<i><di< i="">*L 1.</di<></i>	.7 - 500.0	x10^3 CFU/g
Lactobacillus casei.	<dl< b="">*L 1.</dl<>	.7 - 500.0	x10^3 CFU/g
Lactobacillus delbrueckii	4.0 1.	.7 - 500.0	x10^3 CFU/g
Lactobacillus plantarum.	<di< b="">*L 1.</di<>	.7 - 500.0	x10^3 CFU/g
Lactobacillus rhamnosus	<i><di< i="">*L 1.</di<></i>	.7 - 500.0	x10^3 CFU/g
Lactobacillus salivarius	<i><di< i="">*L 1.</di<></i>	.7 - 500.0	x10^3 CFU/g
Clostridium species	67.8 *H 5	5.0 - 50.0	x10^7 CFU/g
Oxalobacter formigenes	7.63 >	5.00	x10^6 CFU/g
Akkermansia muciniphila	2.05 1	.00 - 50.00	x10^7 CFU/g
Faecalibacterium prausnitzii	344.3 2	200.0 - 3500.0) x10^6 CFU/g

Actions	L. plantarum HEAL9	L. paracasel 8700:2	L. plantarum HEAL19	L. plantarum 6595	L. plantarum 299V	L. rhamnosus GG	L. acidophilus LA02	nimals subsp. lactis BS01	L. casei LC03	B. breve BR03	L. fermentum LF08	L. crispatus strains	nimals subsp. lactis BA05	L. plantarum LP01	L. rhamnosus LR06	B. longum 04	L. fermentum LF16	L. salivarius LS01	B. breve B632	L. fermentum LF10	L. salivarius LS03	. helveticus Rosell-52	rhamnosus Rosell-11	B. longums Rosell-75	oulardii CNCM I-1079	S. thermophilus FP4
Intestinal epithelial barrier health				•	•	•			•	•								•				•	•		•	
Mucous membrane health				•		•																	•		•	
Normalisation of bowel movements					•	•	•	•		•				•								•				
Normalisation of bloating					•	•	•	•		•				•												
Normalisation of peristalsis					•	•	•	•		•				•											•	
Autoimmune immunomodulation	•	•	•		•	•																				
Inhibition of pathogenic overgrowth				•	•	•				•									•		•	•	•	•	•	
Inactivate microbial toxins																									•	
Increase infection resistance	•	•		•		•		•														•		•	•	
Th1/Th2 immune cell modulation						•				•								•	•			•	•			
Staphylococci inhibition										•								•								
Gut-brain axis support					•									•	•	•	•					•		•		
GABA production						•			•																	
Bone resorption inhibition	•	•	•																							
E. coli inhibition										•				•	•				•			•	•	•	•	
Oxalate degradation						•	•							•												



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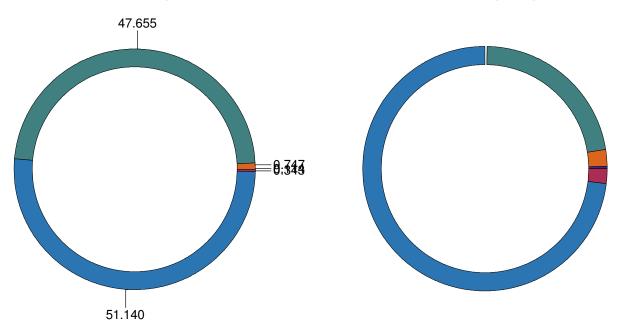
Introduction:

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.

Relative Commensal Abundance	Result	Range	Units
Bacteroidetes Phylum	51.140	50.000 - 95.000	%
Firmicutes Phylum	<i>47.655</i> *H	3.500 - 40.000	%
Proteobacteria Phylum	0.747	0.050 - 12.500	%
Actinobacteria Phylum	0.343	0.001 - 4.818	%
Verrucomicrobia Phylum	0.114	0.000 - 2.400	%
Euryarchaeota Phylum	0.000	0.000 - 0.010	%

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.



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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).

CALPROTECTIN Normal:

Faecal calprotectin values <50 ug/g are not indicative of inflammation in the gastrointestinal tract. Subjects with low faecal calprotectin levels normally do not need to be further investigated by invasive procedures. In patients with strong clinical indications of intestinal inflammation, repeat testing may be useful.

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

LOW SECRETORY IGA:

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.

Secretory IgA binds to invading microorganisms and toxins and entrap them in the mucus layer or within the epithelial cells, so inhibiting microbial motility, agglutinating the organisms, and neutralising their exotoxins and then assist in their harmless elimination from the body in the faecal flow. sIgA also 'tags' food as acceptable, so low sIgA leads to increased sensitivity to foods. Several studies link stress and emotionality with levels of sIgA. Production is adversely affected by stress, which is mediated by cortisol levels.

Often low levels of Secretory IgA correlates with low beneficial flora levels and an increase in pathogenic and parasitic organism being present.

Treatment: Investigate the root cause and rule out parasitic organisms or pathogenic bacteria. Consider the use of probiotics (saccharomyces boulardii), choline, essential fatty acids, glutathione, glycine, glutamine, phosphatidylcholine, Vitamin C and Zinc which are all required for efficient production of Secretory IgA.

PLEASE NOTE: A low Secretory IgA should be reviewed in conjunction with the stool formation. An artefactually low level may be due to fluid dilution effects in a watery or unformed/loose stool sample.

ZONULIN NORMAL:

Zonulin is a protein that modulates intestinal barrier function. This results is considered normal.

beta-GLUCORONIDASE NORMAL:

 $\ensuremath{\mathsf{B}}\text{-}\ensuremath{\mathsf{Glucuronidase}}$ is considered normal and is within reference range.



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Parasites/Worms Comment

ELEVATED BLASTOCYSTIS HOMINIS LEVEL:

Blastocystis hominis may be the cause of persistent, mild diarrhoea. Although considered endemic, it may also be associated with recent overseas travel. Detection suggests the ingestion of contaminated material or contact with farm animals. Continued symptoms may require further testing for the detection of bacterial, viral and/or parasitic co-pathogens.

TREATMENT SUGGESTIONS:

Mild symptoms are self-limiting.

If treatment is warranted, metronidazole 400 - 750mg (child 12-17mg/kg up to 750mg) three times daily for at least 10 days. Lower dosages are usually associated with treatment failure.

Paromomycin has also shown to be effective as an alternative treatment option.

Rule out allergy to above medication before prescribing/taking. Consult ID specialist if patient is showing severe symptoms or immunocompromised.

ELEVATED DIENTAMOEBA FRAGILIS LEVEL:

Dientamoeba fragilis appears to be extremely common and may have a cosmopolitan distribution, although there are large variations in prevalence. Dientamoeba fragilis has been linked to intestinal symptoms, especially in children. The most common symptoms associated with this organism are abdominal pain, intermittent diarrhoea, bloating and anorexia.

TREATMENT SUGGESTIONS:

Mild symptoms are self-limiting.

If treatment is warranted, metronidazole for 10 days or a single 2g dose of Tinidazole may be used. Tetracycline has also proven effective in adults.

Rule out allergy to above medication before prescribing/taking. Consult ID specialist if patient is showing severe symptoms or immunocompromised.

Phyla Microbiota Comment

FIRMICUTES (PHYLUM) ELEVATED:

DESCRIPTION:

Firmicutes are a phylum of diverse bacteria which are primarily grouped into classes, Bacilli, Clostridia, Erysipelotrichia and Negativicutes. They are found in various environments, including the intestinal tract, and the group includes some notable pathogens. Firmicutes are involved in energy resorption in the gut microbiome and levels may be affected by diet. Elevated levels and disturbance of gastrointestinal microbiome balance, particularly Firmicutes/Bacteroidetes ratio, have been associated with inflammation, obesity, diabetes and with a high sugar/ fat diet.

TREATMENT SUGGESTIONS: Consider using Bifidobacterium or Saccharomyces containing probiotics. It may also be suggested to optimise the patient diet. A lower fat diet may help to normalize Firmicutes levels.



-.RACHEAL LEE (NPINS) THRIVE HEALTH SHOP 6/115 SHINGLEY DRIVE AIRLIE BEACH QLD 4802

CASSEY CROOK 27-May-1982 Female

189 LEONA DRIVE BLOOMSBURY QLD 4799

LAB ID: 4022988

UR NO.:

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Normal Bacterial Flora Comment

BIFIDOBACTERIUM BIFIDUM LOW:

PHYLUM: Actinobacteria

DESCRIPTION:

Bifidobacterium bifidum is a Gram-positive, anaerobic bacterium integral to the human gut microbiota, especially in infants. It ferments a variety of carbohydrates, including human milk oligosaccharides, aiding in digestion, and promoting a healthy gut flora. B. bifidum produces short-chain fatty acids that lower gut pH and inhibit pathogenic bacteria while supporting intestinal cells. It also modulates the immune system, enhancing immune responses and reducing inflammation, and strengthens the intestinal barrier. Clinically, B. bifidum has shown promise in alleviating gastrointestinal disorders.

BIFIDOBACTERIUM BREVE LOW:

PHYLUM: Actinobacteria

DESCRIPTION:

Bifidobacterium breve is a Gram-positive, anaerobic bacterium that is commonly found in the human gastrointestinal tract, particularly in the intestines of infants. B. breve is known for its ability to metabolise various carbohydrates, including human milk oligosaccharides, which is essential for the development of a healthy gut flora in newborns.

Studies demonstrate that B. breve exhibits several beneficial properties, including the production of short-chain fatty acids (SCFAs) such as acetate, which contribute to gut health by lowering pH and inhibiting the growth of pathogenic bacteria.

Additionally, B. breve may alleviate symptoms of irritable bowel syndrome (IBS) and improve symptoms of atopic dermatitis.

LACTOBACILLUS ACIDOPHILUS LOW:

PHYLUM: Firmicutes

DESCRIPTION:

Lactobacillus acidophilus is a Gram-positive, rod-shaped, non-spore-forming bacterium commonly found in the human gut and fermented foods. It plays a key role in oxalate degradation, bowel normalisation and may assist patients with bloating.

TREATMENT SUGGESTIONS:

Consider probiotic supplementation containing L. acidophilus.

LACTOBACILLUS CASEI LOW:

PHYLUM: Firmicutes

DESCRIPTION:

Lactobacillus casei is a Gram-positive, rod-shaped, non-spore-forming, anaerobic probiotic bacterium involved in the fermentation of foods like cheese and yogurt. It produces antimicrobial substances, enhances gut barrier function, reduces pathogenic bacteria, and modulates the immune system. This bacterium is used to prevent and may assist various forms of diarrhea, including infectious diarrhea, traveller's diarrhea, and antibiotic-associated diarrhea.

TREATMENT SUGGESTIONS:

Consider probiotic supplementation containing L. casei and consuming fermented foods such as cheese and yogurt.

LACTOBACILLUS PLANTARUM LOW:

PHYLUM: Firmicutes

DESCRIPTION:

Lactobacillus plantarum is a Gram-positive, non-spore-forming, rod-shaped bacterium. L. plantarum plays a crucial role in gut health by enhancing intestinal barrier function, modulating the immune system, and inhibiting pathogenic bacteria. Additionally, it is beneficial for conditions such as irritable bowel syndrome, ulcerative colitis, and high cholesterol.

TREATMENT SUGGESTIONS:

Consider probiotic supplementation containing L. plantarum.

LACTOBACILLUS RHAMNOSUS LOW:

PHYLUM: Firmicutes



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DESCRIPTION:

Lactobacillus Rhamnosus is a Gram-positive anaerobic bacterium and is one of the most widely used probiotic strains, of which various health effects are well documented including the prevention and treatment of gastro-intestinal infections and diarrhea and even preventing certain allergic symptoms.

Decreased Lactobacillus rhamnosus colonisation has been shown to decrease gastro-intestinal health, increasing the risk of gastro-intestinal infections and diarrhea as well as extra-intestinal infections including oral and respiratory health. Studies have also revealed that chronic psychological stress and alcohol use may be associated with a decrease in Lactobacillus species, as well as antibiotic / medication use.

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

LACTOBACILLUS SALIVARIUS LOW:

PHYLUM: Firmicutes

DESCRIPTION:

Lactobacillus salivarius is a Gram-positive, rod-shaped, non-spore-forming bacterium predominantly found in the human oral cavity, gastrointestinal tract, and vagina. It plays a significant role in maintaining oral and gut health by producing lactic acid and bacteriocins, which inhibit the growth of pathogenic bacteria. L. salivarius enhances gut barrier function, modulates the immune system, and helps in the digestion of proteins and complex carbohydrates. It has been studied for its potential benefits in managing conditions such as irritable bowel syndrome (IBS), periodontal disease, and atopic dermatitis, highlighting its importance in promoting overall health and preventing infections.

TREATMENT SUGGESTIONS:

Consider L. salivarius as a probiotic strain which may improve intestinal permeability and immune response.

CLOSTRIDIUM SPECIES ELEVATED:

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. However, some species may act as potential pathogens. Elevated Clostridium species may indirectly damage the intestinal epithelial cells. Another symptom may include constipation.

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



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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	ANTIBAC TERIAL	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						
	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, beneficial bacteria.	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 animalis sup lactise, lactobacillus acidophilus, lactobacillus plantarum, lactobacillus casei, bifidobacterium breve, bifidobacterium bifidum, bifidobacterium longum, lactobacillus salivarius sep salivarius, lactobacillus paracasei, lactobacillus rhamnosus, Saccaromyces boulardii						
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						
REPAIR & REBAL	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						
REP/		SUPPORT CONSIDERATION	Seep, diet, exercise, and stress management						