-.ALEXANDRA MIDDLETON



P: 1300 688 522

E: info@nutripath.com.au A: PO Box 442 Ashburton VIC 3142 Date of Birth: 27-Nov-1998

Sex: F

Collected: 5/Apr/2022 Received: 06-Apr-2022 8/9 DARLEY ROAD MANLY NSW 95

Lab id: 3807713 UR#: 6603024

6 EDWARDS BAY ROAD MOSMAN NSW 2088

COMPLETE MICROBIOME MAPPING

General Macroscopic Description

	Result	Range	Markers	
Stool Colour	Brown		Colour - Brown is the colour of normal stool. Other colours may indicate abnormal GIT conditions.	
Stool Form	Semi-formed		Form -A formed stool is considered normal. Variations to this may indicate abnormal GIT conditions.	
Mucous	NEG	<+	Mucous - Mucous production may indcate the presence of an infection, inflammation or malignancy.	
Occult Blood	NEG	<+	Blood (Macro) - The presence of blood in the stool may indicate possible GIT ulcer, and must always be investigated immediately.	

GIT Functional Markers	Result	Range	Units	
Calprotectin.	15.0	0.0 - 50.0	ug/g	
Pancreatic Elastase	>500.0	> 200.0	ug/g	•
Faecal Secretory IgA	872.9	510.0 - 2010	.0 ug/g	
Faecal Zonulin	59.6	0.0 - 107.0	ng/g	•
Faecal B-Glucuronidase	4122.5	337.0 - 4433	.0 U/g	•
Steatocrit	1.0	0.0 - 15.0	%	
anti-Gliadin IgA	<20	0.0 - 100.0	units/L	

Microbiome Mapping Summary

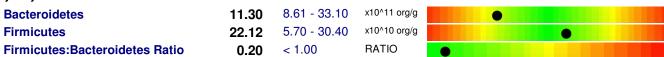
Parasites & Worms

Bacteria & Viruses

Enterococcus faecium Streptococcus species Proteus mirabilis. Bocavirus

Fungi and Yeasts

Key Phyla Microbiota



Page 1 of 7 Complete Microbiome Map Lab ID: 3807713 Patient Name: ANNIE GORYUNORA Printed: 13/Apr/22 08:38



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Cryptosporidium. Crypto
Entamoeba histolytica. Giardia lamblia. Blastocystis hominis. Dientamoeba fragilis. Endolimax nana Entamoeba coli. Pentatrichomonas hominis Acql < 5.0 Ancylostoma duodenale, Roundworm Ascaris lumbricoides, Roundworm Trichuris trichiura, Whipworm Trichuris trichiura, Whipworm Enterobius vermicularis, Pinworm Bacillus species. Enterococcus faecalis Enterococcus faecalis Das elected Trichococcus species Comment: Not Detected Not Det
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Bacillus species. <dl 1.5<="" <="" td=""> x10^5 org/g Enterococcus faecalis 0.8 < 1.0 x10^4 org/g Enterococcus faecium 7.7 *H < 1.0 x10^4 org/g Morganella species 0.4 < 1.0 x10^3 org/g Pseudomonas species <dl 1.0<="" <="" td=""> x10^4 org/g Pseudomonas aeruginosa. <dl 5.0<="" <="" td=""> x10^2 org/g Staphylococcus species <dl 1.0<="" <="" td=""> x10^4 org/g Staphylococcus aureus <dl 5.0<="" <="" td=""> x10^2 org/g Streptococcus species 11.8 *H < 1.0 x10^3 org/g Methanobacteriaceae 0.96 < 5.00 x10^9 org/g Desulfovibrio piger 1.0 0.0 - 18.0 x10^7 org/g Oxalobacter formigenes 126.1 > 15.0 x10^7 org/g</dl></dl></dl></dl></dl>
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Enterococcus faecium 7.7 *H < 1.0
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Streptococcus species 11.8 *H < 1.0
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Oxalobacter formigenes 126.1 > 15.0 x10^7 org/g Potential Autoimmune Triggers
Potential Autoimmune Triggers
Ottoch sates and a second seco
Citrobacter species. <dl 5.0="" <="" g<="" org="" th="" x10^5=""></dl>
Citrobacter freundii. 2.9 < 5.0 x10^5 org/g
Klebsiella species 2.0 < 5.0 x10^3 org/g
Klebsiella pneumoniae. 3.2 < 5.0 x10 ⁴ org/g ■
Prevotella copri <dl 1.0="" <="" g<="" org="" th="" x10^7=""></dl>
Proteus species 1.8 < 5.0
Proteus mirabilis. 1.0 *H < 1.0 x10^3 org/g
Fusobacterium species 0.71 < 10.00 x10^7 org/g
Fungi & Yeast Result Range Units
Candida species. 3.0 < 5.0
Candida albicans. <dl 5.0="" <="" g<="" org="" th="" x10^2=""></dl>
Geotrichum species. 0.3 < 3.0 x10^2 org/g
Microsporidium species <dl 5.0="" <="" g<="" org="" th="" x10^3=""></dl>
Rhodotorula species. <dl 1.0="" <="" x10<sup="">3 org/g</dl>



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Bacterial Pathogens	Dogult	Dange	Units			
Aeromonas species.	Result <dl< th=""><th>Range < 1.0</th><th>x10^3 CFU/g</th><th></th><th></th></dl<>	Range < 1.0	x10^3 CFU/g			
Campylobacter.	<al> <al< li=""> </al<></al>	< 1.0	x10 3 CF U/g			
C. difficile, Toxin A	<dl< th=""><th>< 1.0</th><th>x10°3 CFU/g</th><th></th><th>_</th></dl<>	< 1.0	x10°3 CFU/g		_	
C. difficile, Toxin B	<dl< th=""><th>< 1.0</th><th>x10^3 CFU/g</th><th></th><th>_</th></dl<>	< 1.0	x10^3 CFU/g		_	
Enterohemorrhagic E. coli	<dl< th=""><th>< 1.0</th><th>x10^3 CFU/g</th><th></th><th></th></dl<>	< 1.0	x10^3 CFU/g			
E. coli O157	<dl< th=""><th>< 1.0</th><th>x10^2 CFU/g</th><th></th><th>_</th></dl<>	< 1.0	x10^2 CFU/g		_	
Enteroinvasive E. coli/Shigella	<dl< th=""><th>< 1.0</th><th>x10^3 CFU/g</th><th></th><th>_</th></dl<>	< 1.0	x10^3 CFU/g		_	
Enterotoxigenic E. coli LT/ST	<dl< th=""><th>< 1.0</th><th>x10^3 CFU/g</th><th></th><th></th></dl<>	< 1.0	x10^3 CFU/g			
Shiga-like Toxin E. coli stx1	<dl< th=""><th>< 1.0</th><th>x10^3 CFU/g</th><th></th><th></th></dl<>	< 1.0	x10^3 CFU/g			
Shiga-like Toxin E. coli stx2	<dl< th=""><th>< 1.0</th><th>x10^3 CFU/g</th><th>•</th><th></th></dl<>	< 1.0	x10^3 CFU/g	•		
Salmonella.	<dl< th=""><th>< 1.0</th><th>x10^4 CFU/g</th><th></th><th></th></dl<>	< 1.0	x10^4 CFU/g			
Vibrio cholerae	<dl< th=""><th>< 1.0</th><th>x10^5 CFU/g</th><th></th><th></th></dl<>	< 1.0	x10^5 CFU/g			
Yersinia enterocolitica.	<dl< th=""><th>< 1.0</th><th>x10^5 CFU/g</th><th></th><th></th></dl<>	< 1.0	x10^5 CFU/g			
Helicobacter pylori	<dl< th=""><th>< 1.0</th><th>x10^3 CFU/g</th><th></th><th></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 De	etected	H.pylori Viru	lence Factor, cagA	Not Detected	
H.pylori Virulence Factor, dupA	Not De	etected	H.pylori Viru	lence Factor, iceA	Not Detected	
H.pylori Virulence Factor, oipA	Not De	etected	H.pylori Viru	lence Factor, vacA	Not Detected	
H.pylori Virulence Factor, virB	Not De	etected	H.pylori Viru	lence Factor, virD	Not Detected	
Viral Pathogens	Result	Range	Units			
Adenovirus 40/41	<dl< th=""><th>< 1.0</th><th>x10^10 CFU/g</th><th></th><th></th></dl<>	< 1.0	x10^10 CFU/g			
Norovirus GI/II	<dl< th=""><th>< 1.0</th><th>x10^7 CFU/g</th><th></th><th></th></dl<>	< 1.0	x10^7 CFU/g			
Bocavirus	<i>38.2</i> *H	< 1.0	x10^10 CFU/g			
Normal Bacterial GUT Flora	Result	Range	Units			
Bacteroides fragilis	136.9	1.6 - 250.0	x10^9 CFU/g	•		
Bifidobacterium species	108.9	> 6.7	x10^7 CFU/g		•	
Bifidobacterium longum	99.0	> 5.2	x10^6 CFU/g			
Enterococcus species	73.0	1.9 - 2000.0	x10^5 CFU/g	•		
Escherichia species	2031.3	3.7 - 3800.0	x10^6 CFU/g	•		
Lactobacillus species	11.7	8.6 - 6200.0	x10^5 CFU/g	•		
Lactobacillus Rhamnosus	<i>5.0</i> *L	8.3 - 885.0	x10^4 CFU/g	•		
Clostridium species	18.1	5.0 - 50.0	x10^6 CFU/g	•		
Enterobacter species	29.5	1.0 - 50.0	x10^6 CFU/g			
Akkermansia muciniphila	5.05	0.01 - 50.00 1.0 - 500000	x10^3 CFU/g x10^3 CFU/g			
Faecalibacterium prausnitzii	776.9			•		
Short Chain Fatty Acids	Result	Range	Units			
Short Chain Fatty Acids, Beneficial	20.6	> 13.6	umol/g		•	
Butyrate	14.1	10.8 - 33.5	%	•		
Acetate	62.0	44.5 - 72.4	%			
Propionate Valerate	21.5	0.0 - 32.0	%		•	
	2.4	0.5 - 7.0	0/			

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Pathogen Summary:

Macroscopy Comment

BROWN coloured stool is considered normal in appearance.

Metabolism Comment

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

VALERATE:

Valerate is a short chain fatty acid that is important for gut health. Although Acetate, propionate, and butyrate make up the the most abundant SCFAs in gastrointestinal tract (95%), Valerate and other SCFA's make up the remaining and work optimally when within range.

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 produce on average 500 ug/g of PE-1. Thus, levels below 500 ug/g and above 200 ug/g suggest a deviation from optimal pancreatic function.

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.

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.

FAECAL SECRETORY IgA:

Production of sIgA is important to the normal function of the gastrointestinal mucosa as an immune barrier.

It represents the first line immune defense of the GIT.

Elevated levels are associated with an upregulated immune response.

Parasites/Worms Comment

BOCAVIRUS DETECTED:

Bocavirus are members of the Parvoviridae virus family, responsible for "Slap Cheek" syndrome. Bocavirus is found usually in infants and children with lower respiratory infections, pneumonia or diarrheal symptoms. Bocavirus is often detected in patients who are infected with other viruses.

As such it is mainly spread to other humans by respiratory secretions, however can also be found in stools and in blood, so these may be alternative ways for the virus to spread.

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Opportunistic Bacteria Comment

STREPTOCOCCUS SPECIES:

Description:

Streptococcus is a gram-positive bacteria in the Firmicutes phylum. Streptococcus is generally a common isolate from gut flora. However, emerging research suggests that high levels in the intestine may result from low stomach acid, PPI use, reduced digestive capacity, SIBO or constipation; Elevated levels may also be indicative of intestinal inflammatory activity, and may cause loose stools.

Sources:

Recent infections with streptococcus pyogenes or scarlet fever can be linked to the presence of this species in faeces.

Treatment:

Treatment of streptococcus in gut flora is not always recommended. A practitioner may take into consideration a range of patient factors and symptoms to determine if treatment is necessary. In this case please refer to the 4R treatment protocol located at the end of this report.

METHANOBACTERIACEAE:

Family of bacteria-like microbes that produce methane. Facilitates carbohydrate fermentation and short-chain fatty acid production by beneficial bacteria.

LOW levels may indicate reduced production of short-chain fatty acids and may be associated with inflammation.

HIGH levels linked to chronic constipation, as well as some types of SIBO and IBS.

DESULFOVIBRIO COMMENT:

Sulfate is present in different concentrations in the intestine dependent on diet. Remnants not absorbed, alongside the presence of lactate, promote the growth of Sulfate reducing bacteria (SRB). Desulfovibrio Piger is the dominant SRB genus and has been implicated in gastrointestinal disorders such as ulcerative colitis via the reduction of sulfate to hydrogen sulphide in the gut. High Delsulfovibrio piger levels serves as an indicator of inflammatory bowel disease.

Treatment options include lowering the intake of sulfate rich foods such as some breads, dried fruits, beers, ciders and wines. Reference: Kushkevych et. Al., J. Clin. Med. 2019, 8, 1054; doi:10.3390/jcm8071054

OXALOBACTER COMMENT:

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. Levels of O. Formigenes tends to decrease with age as well as with the use of antibiotics or other drugs, with low levels identified as a risk factor for calcium oxide stone formation. Treatment options include probiotic treatment and low oxalate diet modification. Urinary oxalate levels can also be monitored by test code 4025 (oxalate urinary).

Reference: Duncan et. al., Applied and Environmental Microbiology, Aug. 2002, p. 3841-3847

Kaufman et. al., J Am Soc Nephrol. 2008 Jun; 19(6): 1197-1203.

Potential Autoimmune Comments

ELEVATED PROTEUS MIRABILIS LEVEL:

Sources:

Food has been implicated as a vehicle of infection.

Pathogenicity;

Part of the normal flora of the GI tract, though has been shown to be an independent causative agent of intestinal disorders. May also play a role as an opportunistic organism in enteric infection due to other pathogens.

Symptoms

Occasionally implicated in diarrheal disorders.

Recently, it has been suggested that P. mirabilis may be an etiological agent in rheumatoid arthritis.

The mechanism may be related to the molecular cross reactivity between P. mirabilis and the HLA antigens, specifically HLA-DR4.

Treatment

Currently, standard texts provide no specific antimicrobial guidelines for GI overgrowth of Proteus.

Ampicillin is recommended for extra-intestinal infections of P. mirabilis, followed by trimethoprim/sulfamethoxazole.

For further treatment suggestions, refer to the 4R treatment protocol located at the end of this report.

FUSOBACTERIUM SPECIES:

Fusobacterium species is a gram-negative bacteria in the Fusobacteria phylum. The bacteria is a common member of the human oral microbiome, this pro-inflammatory bacterium can also be found in the human gut. In the mouth, high levels are strongly linked to oral hygiene. In the gut, high levels have been observed in individuals with colon cancer and appendicitis. Sources:

It primarily uses protein as its main source. However, research also shows that it can thrive from sugar.

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Treatment:

Antimicrobial botanicals such as berberine, oregano, quercetin, curcumin, green and black tea extracts, blueberry extract, cinnamon and rosemary have shown to decrease levels.

Normal Bacterial Flora Comment

LOW LACTOBACILLUS RHAMNOSUS LEVEL:

Lactobacullus Rhamnosus is a bacteria in the Firmicutes phylum. Lactobacillus rhamnosus is one of the most widely used probiotic strains. Various health effects are well documented including the prevention and treatment of gastro-intestinal infections and diarrhea, and stimulation of immune responsesL. Low levels may be linked to poor digestive health, diarrhea and IBS symptoms.

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The Four "R" Treatment Protocol

REMOVE	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
	also be necessary to remove offending foods, gluten, or medication that may be acting as antagonists.	ANTIFUNGAL	Oil of oregano, caprylic acid, berberine, black walnut
		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
Supplem probiotic of prebio	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
REPAIR & REBALANCE	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
	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
		SUPPORT CONSIDERATION	Seep, diet, exercise, and stress management