-. ROWENA KISSUN (NPINS)



P: 1300 688 522

E: info@nutripath.com.au

A: PO Box 442 Ashburton VIC 3142

Date of Birth: 19-Jan-1952

Sex : F

Collected: 4/May/2021 Received: 07-May-2021 4/163 SHUTE HARBOUR ROAD CANNONVALE OLD 4802

CANNONVALE QLD 4802 Lab id: 3738598 UR#: KISSUN CLINICS

SHOP 4/163 SHUTE HARBOUR

ROAD

CANNONVALE QLD 4802

COMPLETE MICROBIOME MAPPING

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

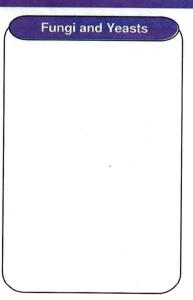
GIT Functional Markers	Result	Range	Units	to the Participant of the Partic
Calprotectin.	12.0	0.0 - 50.0	ug/g	STORY OF THE STORY
Pancreatic Elastase	>500.0	> 200.0	ug/g	
Faecal Secretory IgA	856.1	510.0 - 2010.0	ug/g	
Faecal Zonulin	36.0	0.0 - 107.0	ng/g	
Faecal B-Glucuronidase	1401.0	337.0 - 4433.0	U/g	
Steatocrit	16.0 *H	0.0 - 15.0	%	
anti-Gliadin IgA	<20	0.0 - 157.0	units/L	

Microbiome Mapping Summary

Parasites & Worms

Bacteria & Viruses

Streptococcus species



Key Phyla Microbiota

 Bacteroidetes
 8.66
 8.61 - 33.10
 x10^11 org/g

 Firmicutes
 10.13
 5.70 - 30.40
 x10^10 org/g

 Firmicutes:Bacteroidetes Ratio
 0.12
 < 1.00</th>
 RATIO

Page 1 of 7 Complete Microbiome Map Lab ID: 3738598 Patient Name: JENNIE SMITH





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CANNONVALE QLD 4802

Parasites and Worms.	Result	Range	Units	
Parasitic Organisms				
Cryptosporidium.	<dl< th=""><th>< 1.0</th><th>x10^6 org/g</th><th></th></dl<>	< 1.0	x10^6 org/g	
Entamoeba histolytica.	<dl< th=""><th>< 1.0</th><th>x10^4 org/g</th><th></th></dl<>	< 1.0	x10^4 org/g	
Giardia lamblia.	<dl< th=""><th>< 5.0</th><th>x10/3 org/g</th><th></th></dl<>	< 5.0	x10/3 org/g	
Blastocystis hominis.	<dl< th=""><th>< 2.0</th><th>x10^3 org/g</th><th></th></dl<>	< 2.0	x10^3 org/g	
Dientamoeba fragilis.	<dl< th=""><th>< 1.0</th><th>x10^5 org/g</th><th></th></dl<>	< 1.0	x10^5 org/g	
Endolimax nana	<dl< th=""><th>< 1.0</th><th>x10^4 org/g</th><th></th></dl<>	< 1.0	x10^4 org/g	
Entamoeba coli.	<dl< th=""><th>< 5.0</th><th>x10^6 org/g</th><th></th></dl<>	< 5.0	x10^6 org/g	
Pentatrichomonas hominis	<dl< th=""><th>< 1.0</th><th>x10^2 org/g</th><th></th></dl<>	< 1.0	x10^2 org/g	
Worms	-		3.3	
Ancylostoma duodenale, Roundworm	Not D	etected		Comment: Not Detected results indicate
Ascaris lumbricoides, Roundworm		etected		the absence of detectable DNA in this
Necator americanus, Hookworm		etected		sample for the worms reported.
Trichuris trichiura, Whipworm		etected		cample for the worms reported.
Taenia species, Tapeworm	Not D	etected		
Enterobius vermicularis,Pinworm	Not D	etected		
Opportunistic Bacteria/Overgr	Result	Range	Units	Transfer of the second
Bacillus species.	<dl< th=""><th>< 1.5</th><th>x10^5 org/g</th><th>0</th></dl<>	< 1.5	x10^5 org/g	0
Enterococcus faecalis	0.6	< 1.0	x10^4 org/g	
Enterococcus faecium	<dl< th=""><th>< 1.0</th><th>x10^4 org/g</th><th></th></dl<>	< 1.0	x10^4 org/g	
Morganella species	<dl< th=""><th>< 1.0</th><th>x10^3 org/g</th><th></th></dl<>	< 1.0	x10^3 org/g	
Pseudomonas species	0.8	< 1.0	x10^4 org/g	
Pseudomonas aeruginosa.	<dl< th=""><th>< 5.0</th><th>x10^2 org/g</th><th></th></dl<>	< 5.0	x10^2 org/g	
Staphylococcus species	0.7	< 1.0	x10^4 org/g	
Staphylococcus aureus	<dl< th=""><th>< 5.0</th><th>x10^2 org/g</th><th></th></dl<>	< 5.0	x10^2 org/g	
Streptococcus species	8.6 *H		x10^3 org/g	
Methanobacteriaceae	0.84	< 5.00	x10^9 org/g	
Desulfovibrio piger	<dl< th=""><th>0.0 - 18.0</th><th>x10^7 org/g</th><th></th></dl<>	0.0 - 18.0	x10^7 org/g	
Oxalobacter formigenes	20.0	> 15.0	x10^7 org/g	•
Potential Autoimmune Triggers				*
Citrobacter species.	<dl< th=""><th>< 5.0</th><th>x10^5 org/g</th><th></th></dl<>	< 5.0	x10^5 org/g	
Citrobacter freundii.	<dl< th=""><th>< 5.0</th><th>x10^5 org/g</th><th></th></dl<>	< 5.0	x10^5 org/g	
Klebsiella species	<dl< th=""><th>< 5.0</th><th>x10^3 org/g</th><th></th></dl<>	< 5.0	x10^3 org/g	
Klebsiella pneumoniae.	<dl< th=""><th>< 5.0</th><th>x10^4 org/g</th><th></th></dl<>	< 5.0	x10^4 org/g	
Prevotella copri	<dl< th=""><th>< 1.0</th><th>x10^7 org/g</th><th></th></dl<>	< 1.0	x10^7 org/g	
Proteus species	<dl< th=""><th>< 5.0</th><th>x10^4 org/g</th><th></th></dl<>	< 5.0	x10^4 org/g	
Proteus mirabilis.	<dl< th=""><th>< 1.0</th><th>x10^3 org/g</th><th></th></dl<>	< 1.0	x10^3 org/g	
Fusobacterium species	0.30	< 10.00	x10^7 org/g	
	Result	Range	Units	2011年2月1日 (1985年)
Candida species.	<dl< th=""><th>< 5.0</th><th>x10^3 org/g</th><th></th></dl<>	< 5.0	x10^3 org/g	
Candida albicans.	<dl< th=""><th>< 5.0</th><th>x10^2 org/g</th><th></th></dl<>	< 5.0	x10^2 org/g	
Geotrichum species.	<dl< th=""><th>< 3.0</th><th>x10^2 org/g</th><th></th></dl<>	< 3.0	x10^2 org/g	
Microsporidium species	<dl< th=""><th>< 5.0</th><th>x10^3 org/g</th><th></th></dl<>	< 5.0	x10^3 org/g	
Rhodotorula species.	<dl< th=""><th>< 1.0</th><th>x10^3 org/g</th><th></th></dl<>	< 1.0	x10^3 org/g	

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KISSUN CLINICS SHOP 4/163 SHUTE HARBOUR ROAD CANNONVALE QLD 4802

acterial Pathogens	Result	Range	Units	
Aeromonas species.	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Campylobacter.	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
C. difficile, Toxin A	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
C. difficile, Toxin B	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/a</td><td></td></dl<>	< 1.0	x10^3 CFU/a	
Enterohemorrhagic E. coli	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
E. coli O157	<dl< td=""><td>< 1.0</td><td>x10^2 CFU/g</td><td></td></dl<>	< 1.0	x10^2 CFU/g	
Enteroinvasive E. coli/Shigella	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Enterotoxigenic E. coli LT/ST	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Shiga-like Toxin E. coli stx1	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Shiga-like Toxin E. coli stx2	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	
Salmonella.	<dl< td=""><td>< 1.0</td><td>x10^4 CFU/g</td><td></td></dl<>	< 1.0	x10^4 CFU/g	
Vibrio cholerae	<dl< td=""><td>< 1.0</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.0	x10^5 CFU/g	
Yersinia enterocolitica.	<dl< td=""><td>< 1.0</td><td>x10^5 CFU/g</td><td></td></dl<>	< 1.0	x10^5 CFU/g	
Helicobacter pylori	<dl< td=""><td>< 1.0</td><td>x10^3 CFU/g</td><td></td></dl<>	< 1.0	x10^3 CFU/g	

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

H.pylori Virulence Factor, babA H.pylori Virulence Factor, dupA H.pylori Virulence Factor, oipA H.pylori Virulence Factor, virB	Not Detected Not Detected Not Detected Not Detected		H.pylori Virulence Factor, cagA H.pylori Virulence Factor, iceA H.pylori Virulence Factor, vacA H.pylori Virulence Factor, virD	Not Detected Not Detected Not Detected Not Detected	
Viral Pathogens	Result	Range	Units	TO MAKE THE	
Adenovirus 40/41	∠dI	< 1.0	x10^10 CFU/a		

Norovirus GI/II Bocavirus	<dl< th=""><th>< 1.0 < 1.0</th><th>x10^7 CFU/g x10^10 CFU/g</th><th></th><th></th></dl<>	< 1.0 < 1.0	x10^7 CFU/g x10^10 CFU/g		
Normal Bacterial GUT Flora	Result	Range	Units	NAME OF TAXABLE PARTY.	
Bacteroides fragilis	38.3	1.6 - 250.0	x10^9 CFU/g		
Bifidobacterium species	3.8 *L	> 6.7	x10^7 CFU/g		
Bifidobacterium longum	2.2 *L	> 5.2	x10^6 CFU/g		
Enterococcus species	6.1	1.9 - 2000.0	x10^5 CFU/g		
Escherichia species	478.3	3.7 - 3800.0	x10^6 CFU/g		
Lactobacillus species	73.2	8.6 - 6200.0	x10^5 CFU/g		
Lactobacillus Rhamnosus	5.5 *L	8.3 - 885.0	x10^4 CFU/g		
Clostridium species	8.9	5.0 - 50.0	x10^6 CFU/g		
Enterobacter species	3.1	1.0 - 50.0	x10^6 CFU/g		
Akkermansia muciniphila	<dl*l< th=""><th>0.01 - 50.00</th><th>x10^3 CFU/g</th><th></th><th></th></dl*l<>	0.01 - 50.00	x10^3 CFU/g		
Faecalibacterium prausnitzii	741.4	1.0 - 500000	x10^3 CFU/g		
Short Chain Fatty Acids	Result	Range	Units		

<d1 *l<="" th=""><th>0.01 - 50.00</th><th>x10^3 CFU/g</th><th></th><th></th></d1>	0.01 - 50.00	x10^3 CFU/g		
741.4	1.0 - 500000	x10^3 CFU/g		
Result	Range	Units		
71.0	> 13.6	umol/g		A CHANNE
13.3	10.8 - 33.5	%		
67.3	44.5 - 72.4	%		
18.1	0.0 - 32.0	%	BARRIOTE AND A	
1.3	0.5 - 7.0	%	•	
	741.4 Result 71.0 13.3 67.3 18.1	Result Range 71.0 > 13.6 13.3 10.8 - 33.5 67.3 44.5 - 72.4 18.1 0.0 - 32.0	741.4 1.0 - 500000 x10^3 CFU/g Result Range Units 71.0 > 13.6 umol/g 13.3 10.8 - 33.5 % 67.3 44.5 - 72.4 % 18.1 0.0 - 32.0 %	741.4 1.0 - 500000 x10^3 CFU/g Result Range Units 71.0 > 13.6 umol/g 13.3 10.8 - 33.5 % 67.3 44.5 - 72.4 % 18.1 0.0 - 32.0 %

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SHOP 4/163 SHUTE HARBOUR ROAD

CANNONVALE QLD 4802

KISSUN CLINICS

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 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

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.

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.

ELEVATED STEATOCRIT:

The presence of steatorrhea is an indirect indicator of incomplete fat digestion. Consider high dietary fat intake, cholestasis, malabsorption and digestion (diarrhoea, pancreatic or bile salt insufficiency), intestinal dysbiosis, parasites, NSAIDs use, short bowel syndrome, whipple disease, crohn's disease, food allergies & sensitivities. Treatment:

- o Prebiotic and probiotic supplementation
- o Supplement hydrochloride, digestive enzymes or other digestive aids
- o Investigate underlying causes
- o Investigate food sensitivities and allergies
- o Remove potential irritants
- o Review markers such as pancreatic elastase 1 and calprotectin

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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.

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

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

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.

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 BIFIDOBACTERIUM LEVEL:

Organism of the Actinobacteria phylum.

Low levels may result from low fiber intake or reduced mucosal health. Thrives on a wide variety of prebiotic fibers.

LOW BIFIDOBACTERIUM LONGUM LEVEL:

Bifidobacterium longum is one of the well-established probiotic strains with numerous profound health benefits in humans. Supplementing with Bifidobacterium longum has been effective in alleviating gastrointestinal, immunological and infectious diseases.

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Increasingly, evidence is accumulating which shows beneficial effects of supplementation with bifidobacteria for the improvement of human health conditions ranging from protection against infection to different extra- and intra-intestinal positive effects. Moreover, bifidobacteria have been associated with the production of a number of potentially health promoting metabolites including short chain

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.

LOW AKKERMANSIA MUCINIPHILA LEVEL:

Akkermansia muciniphila is an organism that lives in the mucus lining of your gut and uses mucus as its primary energy source. This species plays an important role in regulating mucus turnover in the gut so that there is a good balance between mucus breakdown and mucus production. Akkermansia muciniphila promotes healthy intestinal barrier and modulates immune responses.

Low levels of Akkermansia muciniphila has been observed in individuals with IBS, high fat diets, obesity, and type 2 diabetes. Reducing intake of high fat foods may help increase levels of this bacteria.

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The Four "R" Treatment Protocol

Using a course of antimic robial, antibacterial, antiviral or anti parastic therapies in cases where organisms are present. It may		ANTIMICROBIAL	Oil of oregano, berberine, caprylic acid	
	antiviral or anti parastic	ANTIBAC TERIAL	Liquorice, zinc carnosine, 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. Consider testing IgG96 foods as a tool for removing offending foods.	ANTIPARASTIC	Artemesia, black walnut, berbenne, oil of oregano	
		ANTIVIRAL	Cat's claw, berberine, echinacea, vitamin C, vitamin D3, zinc, reishi mushrooms	
		BOFILM	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	
Recolonisation with healthy, beneficial bacteria. Supplementation with probiotics, along with the use of prebiotics helps re-establish the proper microbial balance.		PREBIOTICS	Sippery elm, pectin, larch arabinogalactans	
	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		
mucosa by giv healthy mucos immune suppo body health ar	Restore the integrity of the gut mucosa by giving support to healthy mucosal cells, as well as immune support. Address whole body health and lifestyle factors so as to prevent future GI dysfunction.	INTESTINAL MUCOSA IMMUNE SUPPORT	Saccaromyces boulardii, lauric acid	
		INTESTINAL BARRIER REPAIR	L-Glutamine, aloe 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 stressmanagement	