

Patient: **Sample Patient**
Collected: 7/16/2019
DOB: 1/19/1995

Accession: **20190725-0287**
Received: 7/25/2019
Completed: 8/6/2019

Ordered by: **Darren Dubyak, DC**

Pathogens

Bacterial Pathogens

	Result		Normal
<i>Campylobacter</i>	<dl		<1.00e3
<i>C. difficile</i> , Toxin A	3.40e4	High	<1.00e3
<i>C. difficile</i> , Toxin B	<dl		<1.00e3
Enterohemorrhagic <i>E. coli</i>	<dl		<1.00e3
<i>E. coli</i> O157	<dl		<1.00e3
Enteroinvasive <i>E. coli</i> /Shigella	<dl		<1.00e2
Enterotoxigenic <i>E. coli</i> LT/ST	<dl		<1.00e3
Shiga-like Toxin <i>E. coli</i> stx1	<dl		<1.00e3
Shiga-like Toxin <i>E. coli</i> stx2	<dl		<1.00e3
<i>Salmonella</i>	<dl		<1.00e4
<i>Vibrio cholerae</i>	<dl		<1.00e5
<i>Yersinia enterocolitica</i>	<dl		<1.00e5

Parasitic Pathogens

	Result		Normal
<i>Cryptosporidium</i>	4.81e13	High	<1.00e6
<i>Entamoeba histolytica</i>	3.52e11	High	<1.00e4
<i>Giardia</i>	<dl		<5.00e3

Viral Pathogens

	Result		Normal
Adenovirus 40/41	2.27e10	High	<1.00e10
Norovirus GI/II	<dl		<1.00e7

H. pylori

	Result	Normal
<i>Helicobacter pylori</i>	<dl	<1.0e3
Virulence Factor, babA	N/A	Negative
Virulence Factor, cagA	N/A	Negative
Virulence Factor, dupA	N/A	Negative
Virulence Factor, iceA	N/A	Negative
Virulence Factor, oipA	N/A	Negative
Virulence Factor, vacA	N/A	Negative
Virulence Factor, virB	N/A	Negative
Virulence Factor, virD	N/A	Negative

Normal Bacterial Flora

	Result		Normal
<i>Bacteroides fragilis</i>	1.04e11		1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	6.01e8		>6.70e7
<i>Enterococcus spp.</i>	8.72e7		1.9e5 - 2.00e8
<i>Escherichia spp.</i>	2.26e8		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	7.00e7		8.6e5 - 6.20e8
<i>Clostridium spp.</i>	2.99e6	High	1.20e3 - 1.00e6
<i>Enterobacter spp.</i>	2.60e7		1.00e6 - 5.00e7
<i>Akkermansia muciniphila</i>	<dl		1.0e1 - 5.0e4
<i>Faecalibacterium prausnitzii</i>	1.29e4		1.0e3 - 5.0e8

Phyla Microbiota

	Result		Normal
<i>Bacteroidetes</i>	4.21e12	High	8.61e11 - 3.31e12
<i>Firmicutes</i>	3.74e11	High	5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.09		<1.00

Opportunistic Bacteria**Additional Dysbiotic/Overgrowth Bacteria**

	Result		Normal
<i>Bacillus spp.</i>	2.06e6	High	<1.50e5
<i>Enterococcus faecalis</i>	2.35e4	High	<1.00e4
<i>Enterococcus faecium</i>	1.37e5	High	<1.00e4
<i>Morganella spp.</i>	<dl		<1.00e3
<i>Pseudomonas spp.</i>	1.75e3		<1.00e4
<i>Pseudomonas aeruginosa</i>	<dl		<5.00e2
<i>Staphylococcus spp.</i>	<dl		<1.00e4
<i>Staphylococcus aureus</i>	<dl		<5.00e2
<i>Streptococcus spp.</i>	2.49e3	High	<1.00e3
<i>Methanobacteriaceae</i> (family)	5.25e7		<5.00e9

Potential Autoimmune Triggers

	Result		Normal
<i>Citrobacter spp.</i>	<dl		<5.00e6
<i>Citrobacter freundii</i>	<dl		<5.00e5
<i>Klebsiella spp.</i>	<dl		<5.00e3
<i>Klebsiella pneumoniae</i>	<dl		<5.00e4
<i>M. avium subsp. paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella copri</i>	<dl		<1.00e7
<i>Proteus spp.</i>	<dl		<5.00e4
<i>Proteus mirabilis</i>	<dl		<1.00e3
<i>Fusobacterium spp.</i>	3.46e6		<1.00e8

Fungi/Yeast

	Result		Normal
<i>Candida spp.</i>	1.93e4	High	<5.00e3
<i>Candida albicans</i>	<dl		<5.00e2
<i>Geotrichum spp.</i>	<dl		<3.00e2
<i>Microsporidium spp.</i>	<dl		<5.00e3
<i>Rodotorula spp.</i>	<dl		<1.00e3

Viruses

	Result		Normal
<i>Cytomegalovirus</i>	<dl		<1.00e5
<i>Epstein Barr Virus</i>	<dl		<1.00e7

Parasites

Protozoa	Result	Normal
<i>Blastocystis hominis</i>	<dl	<2.00e3
<i>Chilomastix mesnili</i>	<dl	<1.00e5
<i>Cyclospora spp.</i>	<dl	<5.00e4
<i>Dientamoeba fragilis</i>	<dl	<1.00e5
<i>Endolimax nana</i>	<dl	<1.00e4
<i>Entamoeba coli</i>	<dl	<5.00e6
<i>Pentatrichomonas hominis</i>	<dl	<1.00e2

Worms	Result	Normal
<i>Ancylostoma duodenale</i>	Not Detected	Not Detected
<i>Ascaris lumbricoides</i>	Not Detected	Not Detected
<i>Necator americanus</i>	Not Detected	Not Detected
<i>Trichuris trichiura</i>	Not Detected	Not Detected
<i>Taenia spp.</i>	Not Detected	Not Detected

Intestinal Health

Digestion	Result	Normal
Steatocrit	<dl	<15 %
Elastase-1	887	>200 ug/g

GI Markers	Result	Normal
b-Glucuronidase	312	<2486 U/mL
Occult Blood - FIT	1	<10 ug/g

Immune Response	Result	Normal
Secretory IgA	418 Low	510 - 2010 ug/g
Anti-gliadin IgA	72	0 - 157 U/L

Inflammation	Result	Normal
Calprotectin	48	<173 ug/g

Add-on Test	Result	Normal
Zonulin	343.3 High	<107 ng/g

Antibiotic Resistance Genes, phenotypes

Helicobacter		Result		Expected Result	
Amoxicillin		Negative		Absent	
A926G	N/A	AGA926-928TTC N/A			
Clarithromycin		Negative		Absent	
A2142C	N/A	A2142G	N/A	A2143G	N/A
Fluoroquinolones		Negative		Absent	
gyrA N87K	N/A	gyrA D91N	N/A	gyrA D91G	N/A
gyrB S479N	N/A	gyrB R484K	N/A		
Tetracycline		Negative		Absent	
PBP1A S414R	N/A	PBP1A T556S	N/A	PBP1A N562Y	N/A