

Patient: Ima Sample
Collected: 2/10/2018
DOB: 7/11/1981

Accession: 20180212-0001
Received: 2/12/2018
Completed: 1/9/2019

Ordered by: Diane Farhi, MD

Pathogens			
Bacterial Pathogens	Result		Normal
<i>Campylobacter</i>	<dl		<1.00e3
<i>C. difficile</i> , Toxin A	1.21e5	High	<1.00e3
<i>C. difficile</i> , Toxin B	2.27e5	High	<1.00e3
<i>Enterohemorrhagic E. coli</i>	<dl		<1.00e3
<i>E. coli</i> O157	8.60e0		<1.00e3
<i>Enteroinvasive E. coli/Shigella</i>	<dl		<1.00e2
<i>Enterotoxigenic 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>	4.46e1		<1.00e5
Parasitic Pathogens	Result		Normal
<i>Cryptosporidium</i>	<dl		<1.00e6
<i>Entamoeba histolytica</i>	<dl		<1.00e4
<i>Giardia</i>	<dl		<5.00e3
Viral Pathogens	Result		Normal
<i>Adenovirus</i> 40/41	<dl		<1.00e10
<i>Norovirus</i> GI/II	<dl		<1.00e7

H. pylori

	Result		Normal
<i>Helicobacter pylori</i>	2.9e3	High	<1.0e3
Virulence Factor, babA	Positive		Negative
Virulence Factor, cagA	Positive		Negative
Virulence Factor, dupA	Negative		Negative
Virulence Factor, iceA	Negative		Negative
Virulence Factor, oipA	Negative		Negative
Virulence Factor, vacA	Negative		Negative
Virulence Factor, virB	Positive		Negative
Virulence Factor, virD	Positive		Negative

Normal Bacterial Flora

	Result		Normal
<i>Akkermansia muciniphilia</i>	3.1e4		1.0e1 - 1.0e5
<i>Bacteroides spp.</i>	1.1e11		1.6e9 - 2.5e11
<i>Bifidobacterium spp.</i>	2.4e10		>6.7e7
<i>Clostridia (class)</i>	8.3e6		1.2e3 - 1.0e7
<i>Enterococcus spp.</i>	4.9e7		1.9e5 - 2.0e8
<i>Escherichia spp.</i>	6.1e5	Low	3.7e6 - 3.5e9
<i>Faecalibacterium prausnitzii</i>	1.1e7	High	1.8e4 - 2.0e6
<i>Lactobacillus spp.</i>	6.25e6		8.6e5 - 6.2e8
<i>Enterobacter spp.</i>	9.16e6		1.0e6 - 5.0e7

Phyla Microbiota

	Result		Normal
<i>Bacteroidetes</i>	4.33e11	Low	8.61e11 - 3.31e12
<i>Firmicutes</i>	1.25e11		5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.29		<1.00

Opportunistic Bacteria**Additional Dysbiotic/Overgrowth Bacteria**

	Result		Normal
<i>Bacillus spp.</i>	8.30e4		<1.50e5
<i>Enterococcus faecalis</i>	2.56e3		<1.00e4
<i>Enterococcus faecium</i>	1.11e3		<1.00e4
<i>Methanobacteriaceae</i> (family)	8.1e6	High	<1.00e4
<i>Morganella spp.</i>	<dl		<1.00e3
<i>Pseudomonas spp.</i>	7.37e4	High	<1.00e4
<i>Pseudomonas aeruginosa</i>	<dl		<5.00e2
<i>Staphylococcus spp.</i>	1.93e4	High	<1.00e4
<i>Staphylococcus aureus</i>	1.23e1		<5.00e2
<i>Streptococcus spp.</i>	1.34e3	High	<1.00e3

Potential Autoimmune Triggers

	Result		Normal
<i>Citrobacter spp.</i>	<dl		<5.00e6
<i>Citrobacter freundii</i>	<dl		<5.00e5
<i>Fusibacterium spp.</i>	1.41e3		<1.00e4
<i>Klebsiella spp.</i>	2.48e4	High	<5.00e3
<i>Klebsiella pneumoniae</i>	1.41e4		<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

Fungi/Yeast

	Result		Normal
<i>Candida spp.</i>	<dl		<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
Elastase-1	388	>200 ug/g
Steatocrit	6	<15 %

GI Markers	Result	Normal
b-Glucuronidase	2584 High	<2486 U/mL
Occult Blood - FIT	4	<10 ug/g

Immune Response	Result	Normal
Secretory IgA	1873	510 - 2010 ug/g
Anti-gliadin IgA	15	0 - 157 U/L

Inflammation	Result	Normal
Calprotectin	22	<173 ug/g

Add-on Test	Result	Normal
Zonulin	186.4 High	<107 ng/g

Antibiotic Resistance Genes, phenotypes

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

Antibiotic Resistance Genes, genotypes

Universal Microbiota Resistance Genes

b-lactamase		Positive		Absent	
TEM-70	Absence	CTXM3	Presence	SHV-24	Presence
VEB-1	Absence	OXA-30	Absence	CTXM35	Absence
toho-3	Absence	CTXM63	Absence	PER-1	Absence
PER-2	Presence	GES-3	Absence	NDM-1	Absence
Fluoroquinolones		Negative		Absent	
qnrA2	Absence	qnrB	Absence		
Macrolides		Positive		Absent	
ermA	Absence	ermB	Presence	ermC	Absence
mefE	Absence				
Vancomycin		Negative		Absent	
vanA1	Absence	vanA2	Absence	vanB	Absence
vanC	Absence				