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GI-MAP™ DNA Stool Analysis

Patient: Ella Nielson
Collected: 6/20/2022
DOB: 10/21/1988

Accession: 20220627-0515
Received: 6/27/2022
Completed: 7/8/2022

Ordered By Amy Phillips, ND

Pathogens

Bacterial Pathogens

	Result	Normal
<i>Campylobacter</i>	<dl	<1.00e3
<i>C. difficile</i> , Toxin A	<dl	<1.00e3
<i>C. difficile</i> , Toxin B	<dl	<1.00e3
<i>Enterohemorrhagic E. coli</i>	<dl	<1.00e3
<i>E. coli</i> O157	<dl	<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>	<dl	<1.00e5

Parasitic Pathogens

	Result	Normal
<i>Cryptosporidium</i>	<dl	<1.00e6
<i>Entamoeba histolytica</i>	<dl	<1.00e4
<i>Giardia</i>	1.02e3	<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>	<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>	3.53e9		1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	4.32e9		>6.70e7
<i>Enterococcus spp.</i>	3.19e6		1.9e5 - 2.00e8
<i>Escherichia spp.</i>	1.91e7		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	1.25e6		8.6e5 - 6.20e8
<i>Clostridia (class)</i>	4.19e6	Low	5.00e6 - 5.00e7
<i>Enterobacter spp.</i>	4.92e5	Low	1.00e6 - 5.00e7
<i>Akkermansia muciniphila</i>	3.62e6	High	1.00e1 - 5.00e4
<i>Faecalibacterium prausnitzii</i>	4.01e2	Low	1.00e3 - 5.00e8

Phyla Microbiota

	Result		Normal
<i>Bacteroidetes</i>	4.71e10	Low	8.61e11 - 3.31e12
<i>Firmicutes</i>	1.01e10	Low	5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.22		<1.00

Opportunistic Bacteria**Additional Dysbiotic/Overgrowth Bacteria**

	Result		Normal
<i>Bacillus</i> spp.	2.95e5	High	<1.50e5
<i>Enterococcus faecalis</i>	1.64e4	High	<1.00e4
<i>Enterococcus faecium</i>	1.51e4	High	<1.00e4
<i>Morganella</i> spp.	6.32e4	High	<1.00e3
<i>Pseudomonas</i> spp.	1.66e8	High	<1.00e4
<i>Pseudomonas aeruginosa</i>	1.84e6	High	<5.00e2
<i>Staphylococcus</i> spp.	<dl		<1.00e4
<i>Staphylococcus aureus</i>	6.00e1		<5.00e2
<i>Streptococcus</i> spp.	3.42e3	High	<1.00e3
<i>Methanobacteriaceae</i> (family)	7.80e8		<5.00e9

Potential Autoimmune Triggers

	Result		Normal
<i>Citrobacter</i> spp.	<dl		<5.00e6
<i>Citrobacter freundii</i>	<dl		<5.00e5
<i>Klebsiella</i> spp.	<dl		<5.00e3
<i>Klebsiella pneumoniae</i>	1.69e2		<5.00e4
<i>M. avium</i> subsp. <i>paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella</i> spp.	2.45e6		<1.00e8
<i>Proteus</i> spp.	<dl		<5.00e4
<i>Proteus mirabilis</i>	<dl		<1.00e3
<i>Fusobacterium</i> spp.	2.25e5		<1.00e8

Fungi/Yeast

	Result		Normal
<i>Candida</i> spp.	<dl		<5.00e3
<i>Candida albicans</i>	<dl		<5.00e2
<i>Geotrichum</i> spp.	<dl		<3.00e2
<i>Microsporidium</i> spp.	<dl		<5.00e3
<i>Rhodotorula</i> spp.	<dl		<1.00e3

Viruses

	Result		Normal
Cytomegalovirus	<dl		<1.00e5
Epstein Barr Virus	<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>	6.80e4	<1.00e5
<i>Endolimax nana</i>	1.09e3	<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	>750	>200 ug/g

GI Markers

	Result	Normal
b-Glucuronidase	1293	<2486 U/mL
Occult Blood - FIT	0	<10 ug/g

Immune Response

	Result		Normal
Secretory IgA	210	Low	510 - 2010 ug/g
Anti-gliadin IgA	26		0 - 157 U/L

Inflammation

	Result		Normal
Calprotectin	620	High	<173 ug/g

Add-on Test

	Result	Normal
Zonulin	95.0	<107 ng/g

Antibiotic Resistance Genes, phenotypes

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