

Patient: **Mohammed Banat**

Collected: 8/9/2020

DOB: 1/27/1978

Accession: **20200811-0195**

Received: 8/10/2020

Completed: 8/24/2020

Ordered by: **Mark Flannery, DC**

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>	2.63e4	High	<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	4.34e4	High	<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>	<dl		<5.00e3

Viral Pathogens

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

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H. pylori

	Result	Normal
<i>Helicobacter pylori</i>	4.3e2	<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>	6.35e10		1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	3.38e10		>6.70e7
<i>Enterococcus spp.</i>	4.93e7		1.9e5 - 2.00e8
<i>Escherichia spp.</i>	1.71e9		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	9.26e6		8.6e5 - 6.20e8
<i>Clostridia (class)</i>	6.93e7	High	5.00e6 - 5.00e7
<i>Enterobacter spp.</i>	7.24e6		1.00e6 - 5.00e7
<i>Akkermansia muciniphila</i>	<dl		1.00e1 - 5.00e4
<i>Faecalibacterium prausnitzii</i>	4.54e4		1.00e3 - 5.00e8

Phyla Microbiota

	Result		Normal
<i>Bacteroidetes</i>	1.23e11	Low	8.61e11 - 3.31e12
<i>Firmicutes</i>	6.61e10		5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	0.54		<1.00

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Opportunistic Bacteria

Additional Dysbiotic/Overgrowth Bacteria	Result		Normal
<i>Bacillus spp.</i>	4.36e6	High	<1.50e5
<i>Enterococcus faecalis</i>	2.03e6	High	<1.00e4
<i>Enterococcus faecium</i>	5.73e4	High	<1.00e4
<i>Morganella spp.</i>	1.82e4	High	<1.00e3
<i>Pseudomonas spp.</i>	4.34e6	High	<1.00e4
<i>Pseudomonas aeruginosa</i>	3.17e2		<5.00e2
<i>Staphylococcus spp.</i>	4.61e2		<1.00e4
<i>Staphylococcus aureus</i>	1.66e2		<5.00e2
<i>Streptococcus spp.</i>	2.32e3	High	<1.00e3
<i>Methanobacteriaceae</i> (family)	1.62e8		<5.00e9

Potential Autoimmune Triggers

	Result		Normal
<i>Citrobacter spp.</i>	<dl		<5.00e6
<i>Citrobacter freundii</i>	2.86e4		<5.00e5
<i>Klebsiella spp.</i>	<dl		<5.00e3
<i>Klebsiella pneumoniae</i>	2.98e3		<5.00e4
<i>M. avium subsp. paratuberculosis</i>	<dl		<5.00e3
<i>Prevotella spp.</i>	1.49e6		<1.00e8
<i>Proteus spp.</i>	<dl		<5.00e4
<i>Proteus mirabilis</i>	<dl		<1.00e3
<i>Fusobacterium spp.</i>	2.35e9	High	<1.00e8

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

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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	6	<15 %
Elastase-1	479	>200 ug/g

GI Markers	Result	Normal
b-Glucuronidase	1460	<2486 U/mL
Occult Blood - FIT	0	<10 ug/g

Immune Response	Result		Normal
Secretory IgA	148	Low	510 - 2010 ug/g
Anti-gliadin IgA	163	High	0 - 157 U/L

Inflammation	Result	Normal
Calprotectin	1	<173 ug/g

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Antibiotic Resistance Genes, phenotypes

Helicobacter		Result		Expected Result	
Amoxicillin		N/A		Negative	
A926G	N/A	AGA926-928TTC	N/A		
Clarithromycin		N/A		Negative	
A2142C	N/A	A2142G	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

Antibiotic Resistance Genes, genotypes**Universal Microbiota Resistance Genes**

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

The assays were developed and the performance characteristics determined by Diagnostic Solutions Laboratory.

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Medical Director - Diane Farhi, MD