

Patient: **Mohammed Banat**

Collected: 11/7/2019

DOB: 1/27/1978

Accession: **20191108-0083**

Received: 11/8/2019

Completed: 11/19/2019

Ordered by: **Mark Flannery, DC**

**Pathogens**

**Bacterial Pathogens**

	Result		Normal
<i>Campylobacter</i>	<dl		<1.00e3
<i>C. difficile</i> , Toxin A	<b>2.33e3</b>	<b>High</b>	<1.00e3
<i>C. difficile</i> , Toxin B	<b>4.41e3</b>	<b>High</b>	<1.00e3
<i>Enterohemorrhagic E. coli</i>	<b>6.11e3</b>	<b>High</b>	<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>	<dl		<5.00e3

**Viral Pathogens**

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

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**H. pylori**

	Result		Normal
<i>Helicobacter pylori</i>	<b>3.6e2</b>		<1.0e3
Virulence Factor, babA	<b>Negative</b>		Negative
Virulence Factor, cagA	<b>Positive</b>		Negative
Virulence Factor, dupA	<b>Negative</b>		Negative
Virulence Factor, iceA	<b>Positive</b>		Negative
Virulence Factor, oipA	<b>Positive</b>		Negative
Virulence Factor, vacA	<b>Negative</b>		Negative
Virulence Factor, virB	<b>Positive</b>		Negative
Virulence Factor, virD	<b>Negative</b>		Negative

**Normal Bacterial Flora**

	Result		Normal
<i>Bacteroides fragilis</i>	<b>3.67e10</b>		1.60e9 - 2.50e11
<i>Bifidobacterium spp.</i>	<b>2.93e10</b>		>6.70e7
<i>Enterococcus spp.</i>	<b>7.14e3</b>	<b>Low</b>	1.9e5 - 2.00e8
<i>Escherichia spp.</i>	<b>6.63e7</b>		3.70e6 - 3.80e9
<i>Lactobacillus spp.</i>	<b>7.55e6</b>		8.6e5 - 6.20e8
<i>Clostridia (class)</i>	<b>4.13e8</b>	<b>High</b>	5.00e6 - 5.00e7
<i>Enterobacter spp.</i>	<b>4.17e7</b>		1.00e6 - 5.00e7
<i>Akkermansia muciniphila</i>	<b>&lt;dl</b>		1.00e1 - 5.00e4
<i>Faecalibacterium prausnitzii</i>	<b>1.60e4</b>		1.00e3 - 5.00e8

**Phyla Microbiota**

	Result		Normal
<i>Bacteroidetes</i>	<b>2.84e12</b>		8.61e11 - 3.31e12
<i>Firmicutes</i>	<b>4.05e11</b>	<b>High</b>	5.70e10 - 3.04e11
<i>Firmicutes:Bacteroidetes Ratio</i>	<b>0.14</b>		<1.00

**Opportunistic Bacteria**

<b>Additional Dysbiotic/Overgrowth Bacteria</b>	Result		Normal
<i>Bacillus spp.</i>	<b>2.55e5</b>	<b>High</b>	<1.50e5
<i>Enterococcus faecalis</i>	<dl		<1.00e4
<i>Enterococcus faecium</i>	<b>2.87e2</b>		<1.00e4
<i>Morganella spp.</i>	<dl		<1.00e3
<i>Pseudomonas spp.</i>	<dl		<1.00e4
<i>Pseudomonas aeruginosa</i>	<dl		<5.00e2
<i>Staphylococcus spp.</i>	<dl		<1.00e4
<i>Staphylococcus aureus</i>	<b>5.11e1</b>		<5.00e2
<i>Streptococcus spp.</i>	<dl		<1.00e3
<i>Methanobacteriaceae</i> (family)	<b>1.41e8</b>		<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 spp.</i>	<b>4.75e6</b>		<1.00e8
<i>Proteus spp.</i>	<dl		<5.00e4
<i>Proteus mirabilis</i>	<dl		<1.00e3
<i>Fusobacterium spp.</i>	<b>1.65e6</b>		<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**

<b>Protozoa</b>	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>	<b>Not Detected</b>	Not Detected
<i>Ascaris lumbricoides</i>	<b>Not Detected</b>	Not Detected
<i>Necator americanus</i>	<b>Not Detected</b>	Not Detected
<i>Trichuris trichiura</i>	<b>Not Detected</b>	Not Detected
<i>Taenia spp.</i>	<b>Not Detected</b>	Not Detected

**Intestinal Health**

<b>Digestion</b>	Result	Normal
Steatocrit	<dl	<15 %
Elastase-1	<b>306</b>	>200 ug/g

<b>GI Markers</b>	Result	Normal
b-Glucuronidase	<b>1354</b>	<2486 U/mL
Occult Blood - FIT	<b>0</b>	<10 ug/g

<b>Immune Response</b>	Result	Normal
Secretory IgA	<b>1027</b>	510 - 2010 ug/g
Anti-gliadin IgA	<b>118</b>	0 - 157 U/L

<b>Inflammation</b>	Result	Normal
Calprotectin	<b>1</b>	<173 ug/g

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**Antibiotic Resistance Genes, phenotypes**

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

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