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## GI-MAP™ DNA Stool Analysis

Patient: Justyna Wiczorek  
Collected: 6/5/2022  
DOB: 1/24/1989

Accession: 20220613-0626  
Received: 6/13/2022  
Completed: 6/27/2022

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>               | <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> | <b>&lt;dl</b> | <1.0e3   |
| Virulence Factor, babA     | <b>N/A</b>    | Negative |
| Virulence Factor, cagA     | <b>N/A</b>    | Negative |
| Virulence Factor, dupA     | <b>N/A</b>    | Negative |
| Virulence Factor, iceA     | <b>N/A</b>    | Negative |
| Virulence Factor, oipA     | <b>N/A</b>    | Negative |
| Virulence Factor, vacA     | <b>N/A</b>    | Negative |
| Virulence Factor, virB     | <b>N/A</b>    | Negative |
| Virulence Factor, virD     | <b>N/A</b>    | Negative |

**Normal Bacterial Flora**

|                                     | Result        |            | Normal           |
|-------------------------------------|---------------|------------|------------------|
| <i>Bacteroides fragilis</i>         | <b>2.64e8</b> | <b>Low</b> | 1.60e9 - 2.50e11 |
| <i>Bifidobacterium spp.</i>         | <b>3.68e8</b> |            | >6.70e7          |
| <i>Enterococcus spp.</i>            | <b>6.54e6</b> |            | 1.9e5 - 2.00e8   |
| <i>Escherichia spp.</i>             | <b>2.23e5</b> | <b>Low</b> | 3.70e6 - 3.80e9  |
| <i>Lactobacillus spp.</i>           | <b>1.70e4</b> | <b>Low</b> | 8.6e5 - 6.20e8   |
| <i>Clostridia (class)</i>           | <b>4.94e5</b> | <b>Low</b> | 5.00e6 - 5.00e7  |
| <i>Enterobacter spp.</i>            | <b>2.05e5</b> | <b>Low</b> | 1.00e6 - 5.00e7  |
| <i>Akkermansia muciniphila</i>      | <b>4.25e4</b> |            | 1.00e1 - 5.00e4  |
| <i>Faecalibacterium prausnitzii</i> | <b>4.76e3</b> |            | 1.00e3 - 5.00e8  |

**Phyla Microbiota**

|                                       | Result        |             | Normal            |
|---------------------------------------|---------------|-------------|-------------------|
| <i>Bacteroidetes</i>                  | <b>5.69e9</b> | <b>Low</b>  | 8.61e11 - 3.31e12 |
| <i>Firmicutes</i>                     | <b>9.32e9</b> | <b>Low</b>  | 5.70e10 - 3.04e11 |
| <i>Firmicutes:Bacteroidetes Ratio</i> | <b>1.64</b>   | <b>High</b> | <1.00             |

**Opportunistic Bacteria****Additional Dysbiotic/Overgrowth Bacteria**

|                                     | Result        |             | Normal  |
|-------------------------------------|---------------|-------------|---------|
| <i>Bacillus</i> spp.                | <b>2.94e6</b> | <b>High</b> | <1.50e5 |
| <i>Enterococcus faecalis</i>        | <b>5.91e4</b> | <b>High</b> | <1.00e4 |
| <i>Enterococcus faecium</i>         | <dl           |             | <1.00e4 |
| <i>Morganella</i> spp.              | <dl           |             | <1.00e3 |
| <i>Pseudomonas</i> spp.             | <dl           |             | <1.00e4 |
| <i>Pseudomonas aeruginosa</i>       | <dl           |             | <5.00e2 |
| <i>Staphylococcus</i> spp.          | <dl           |             | <1.00e4 |
| <i>Staphylococcus aureus</i>        | <b>6.72e2</b> | <b>High</b> | <5.00e2 |
| <i>Streptococcus</i> spp.           | <dl           |             | <1.00e3 |
| <i>Methanobacteriaceae</i> (family) | <b>3.52e6</b> |             | <5.00e9 |

**Potential Autoimmune Triggers**

|                                                | Result        |  | Normal  |
|------------------------------------------------|---------------|--|---------|
| <i>Citrobacter</i> spp.                        | <dl           |  | <5.00e6 |
| <i>Citrobacter freundii</i>                    | <b>3.99e4</b> |  | <5.00e5 |
| <i>Klebsiella</i> spp.                         | <dl           |  | <5.00e3 |
| <i>Klebsiella pneumoniae</i>                   | <dl           |  | <5.00e4 |
| <i>M. avium</i> subsp. <i>paratuberculosis</i> | <dl           |  | <5.00e3 |
| <i>Prevotella</i> spp.                         | <b>4.30e4</b> |  | <1.00e8 |
| <i>Proteus</i> spp.                            | <dl           |  | <5.00e4 |
| <i>Proteus mirabilis</i>                       | <dl           |  | <1.00e3 |
| <i>Fusobacterium</i> spp.                      | <b>6.20e3</b> |  | <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**

| <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       | >750   | >200 ug/g |

**GI Markers**

|                    | Result      |             | Normal     |
|--------------------|-------------|-------------|------------|
| b-Glucuronidase    | <b>4130</b> | <b>High</b> | <2486 U/mL |
| Occult Blood - FIT | <b>0</b>    |             | <10 ug/g   |

**Immune Response**

|                  | Result     |            | Normal          |
|------------------|------------|------------|-----------------|
| Secretory IgA    | <b>210</b> | <b>Low</b> | 510 - 2010 ug/g |
| Anti-gliadin IgA | <b>31</b>  |            | 0 - 157 U/L     |

**Inflammation**

|              | Result    | Normal    |
|--------------|-----------|-----------|
| Calprotectin | <b>14</b> | <173 ug/g |

**Add-on Test**

|         | Result      | Normal    |
|---------|-------------|-----------|
| Zonulin | <b>69.5</b> | <107 ng/g |

**Antibiotic Resistance Genes, phenotypes**

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