



63 Zillicoa Street Asheville, NC 28801 © Genova Diagnostics



Patient: ARWA BAGER

DOB: March 31, 1981

Sex: F

MRN: 0002244586

Order Number: U3140108

Reported: March 26, 2025

Received: March 14, 2025

Collected: March 12, 2025

Parsley Health Navo Wills

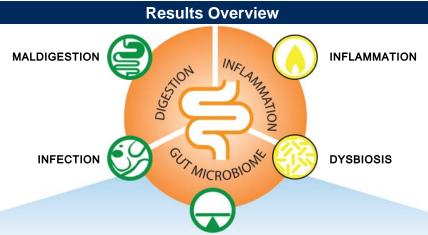
8550 Santa Monica Blvd

2nd Floor

West Hollywood, CA 90069-4496

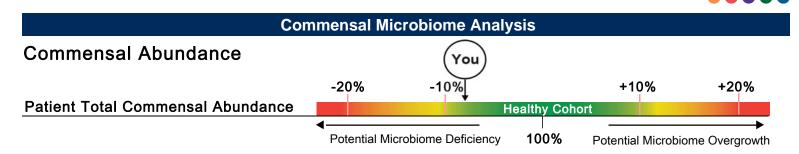
2200 GI Effects® Comprehensive Profile - Stool

Powered by **Genova Al**



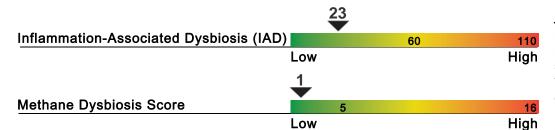
METABOLITE IMBALANCE **Functional Imbalance Scores** < 2): Low Need for Support (2-3) : Optional Need for Support 4-6): Moderate Need for Support (7-10): High Need for Support Key Need for **Need for Need for** Need for Need for **Digestive Support** Inflammation Modulation Microbiome Support **Prebiotic Support Antimicrobial Support MALDIGESTION** INFLAMMATION **DYSBIOSIS** METABOLIC IMBALANCE INFECTION Eosinophil Protein X Δ Reference Variance SCFA (%) Parasitic Infection Pancreatic Elastase ∇ Secretory IgA Δ IAD/Methane Score Beta-glucuronidase Pathogenic Bacteria Products of Protein Breakdown Calprotectin PP Bacteria/Yeast Total SCFA's PP Bacteria/Yeast Fecal Fats Occult Blood **Total Abundance** n-Butyrate Conc. Total Abundance • Elimination Diet/ Food • Pre-/Probiotics • Pre-/Probiotics Digestive Enzymes Antibiotics · Increased Dietary Fiber Sensitivity Testing · Increase Dietary Fiber • Betaine HCI (if warranted) · Bile Salts Mucosa Support: Slippery Intake Intake · Antimicrobial Herbal Elm, Althea, Aloe, DGL, etc. Consider SIBO Testing Increase Resistant · Apple Cider Vinegar Therapy Zinc Carnosine Increase Resistant Starches · Mindful Eating Habits Antiparasitic Herbal L-Glutamine Starches Increase Fermented · Digestive Bitters Therapy (if warranted) Quercetin Increase Fermented Foods · Saccharomyces Turmeric Foods · Calcium D-Glucarate boulardii · Omega-3's · Meal Timing (for high · GI Referral (If Calpro is beta-glucuronidase)

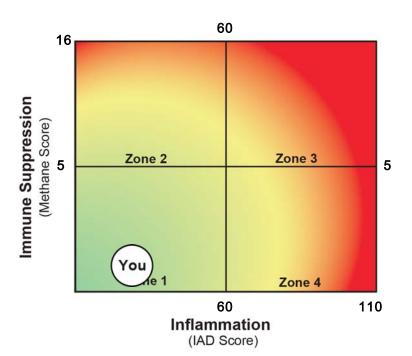
Elevated)



Total Commensal Abundance: The total commensal abundance is a sum-total of the reported commensal bacteria compared to a healthy cohort. Low levels of commensal bacteria are often observed after antimicrobial therapy, or in diets lacking fiber and/or prebiotic-rich foods and may indicate the need for microbiome support. Conversely, higher total commensal abundance may indicate potential bacteria overgrowth or probiotic supplementation.

Dysbiosis Patterns





<u>Dysbiosis Patterns:</u> Genova's data analysis has led to the development of unique dysbiosis patterns, related to key physiologic disruptions, such as immunosuppression and inflammation. These patterns may represent dysbiotic changes that could pose clinical significance. Please see Genova's published literature for more details: https://rdcu.be/bRhzv

Zone 1: The commensal profile in this zone does not align with profiles associated with intestinal inflammation or immunosuppression. If inflammatory biomarkers are present, other causes need to be excluded, such as infection, food allergy, or more serious pathology.

Zone 2: This pattern of bacteria is associated with impaired intestinal barrier function (low fecal sIgA and EPX). Patients in this zone have higher rates of opportunistic infections (e.g. *Blastocystis spp.* & *Dientamoeba fragilis*) as well as fecal fat malabsorption. Commensal abundance is higher in this group suggesting potential bacterial overgrowth.

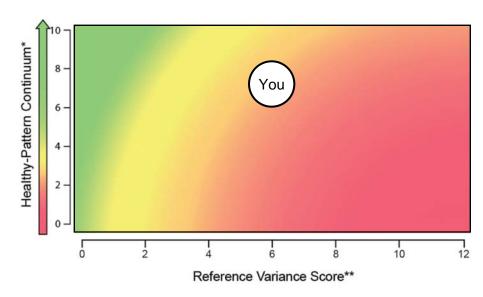
Zone 3: Patients in this zone may have more inflammation compared to those in zone 4. However, commensal abundance is usually higher making use of antimicrobial therapy relatively safer. Patients in this zone may have higher rates of pathogenic infections.

Zone 4: This commensal profile is associated with increased intestinal inflammation. IBD patients are more likely to have this pattern of bacteria. Commensal abundance is lower in this zone; therefore, antibiotic use for GI potential pathogens should be used with caution. In addition to standard treatment for intestinal inflammation, modulation of the commensal gut profile is encouraged.

Patient: ARWA BAGER ID: U3140108 Page 3

Commensal Microbiome Analysis

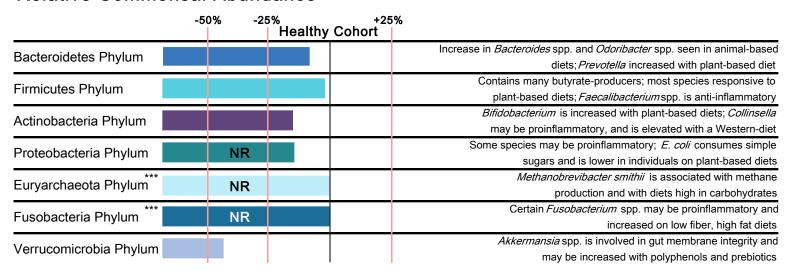
Commensal Balance





^{*}A progressive ranking scale based on a Genova proprietary algorithm that differentiates healthy and unhealthy commensal patterns.

Relative Commensal Abundance



Relative Abundance: The relative abundance compares the quantity of each of 7 major bacterial phyla to a healthy cohort. This can indicate broader variances in the patient's gut microbiome profile. Certain interventions may promote or limit individual phyla when clinically appropriate. Please refer to Genova's Stool Testing Support Guide for more information on modulation of commensal bacteria through diet & nutrient interventions. ***Approximately 70% of the healthy cohort had below detectable levels of *Methanobrevibacter smithii*. Approximately 90% of the healthy cohort had below detectable levels of *Fusobacterium spp*.

Physician Notes/Recommendations

^{**}The total number of commensal bacteria (qPCR) that are out of balance for this individual on a scale of 0 to >12.

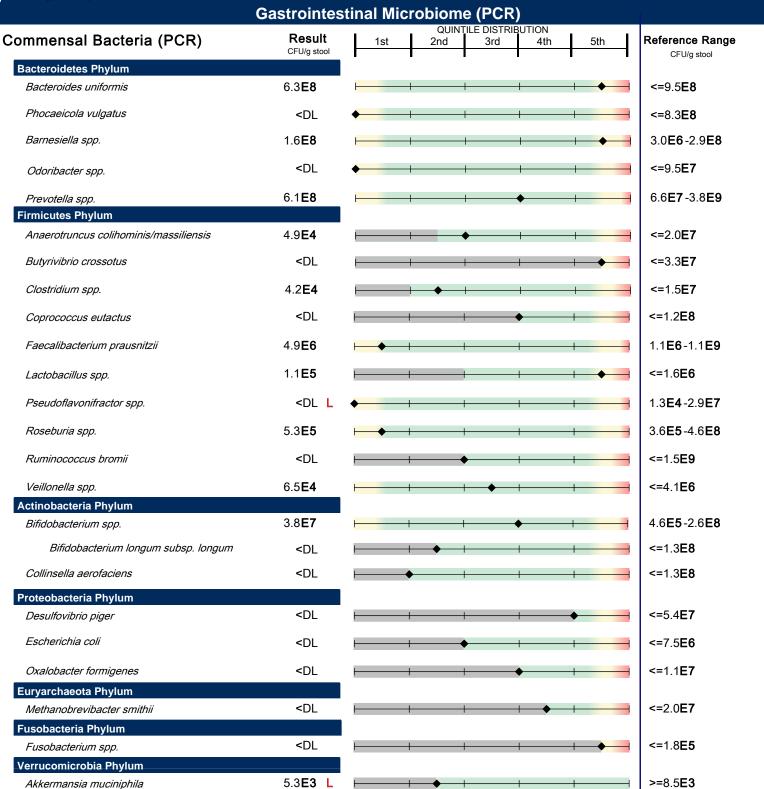


^{*}Total value is equal to the sum of all measurable parts.

[†]These results are not represented by quintile values.

Tests were developed and their performance characteristics determined by Genova Diagnostics. Unless otherwise noted with ◆, the assays have not been cleared by the U.S. Food and Drug Administration.

Methodology: DNA by qPCR



The gray-shaded portion of a quintile reporting bar represents the proportion of the reference population with results below detection limit.

Commensal results and reference range values are displayed in a computer version of scientific notation, where the capital letter "E" indicates the exponent value (e.g., 7.3E6 equates to 7.3 x 10° or 7,300,000).

The methodology for the PCR Commensal Bacteria has been updated to qPCR. The reference ranges have been updated accordingly.

The names of some of the bacteria have been updated as a result of taxonomy changes and method improvements.

Patient: ARWA BAGER ID: U3140108

Methodology: Culture/MALDI-TOF MS, Automated and Manual Biochemical Methods, Vitek® 2 System Microbial identification and Antibiotic susceptibility



Gastrointestinal Microbiome (Culture)

Human microflora is influenced by environmental factors and the competitive ecosystem of the organisms in the GI tract. Pathogenic significance should be based upon clinical symptoms.

Microbiology Legend NG NP PP Ρ No Growth **Potential** Non-Pathogen Pathogen Pathogen

Additional Bacteria

Non-Pathogen: Organisms that fall under this category are those that constitute normal, commensal flora, or have not been recognized as etiological agents of disease.

Potential Pathogen: Organisms that fall under this category are considered potential or opportunistic pathogens when present in heavy growth. Pathogen: The organisms that fall under this category have a wellrecognized mechanism of pathogenicity in clinical literature and are considered significant regardless of the quantity that appears in the culture.



Bifidobacterium (Anaerobic Culture)

Additional Bacteria

Lactobacillus spp.

Escherichia coli

Bacteriology (Culture)

Salmonella spp. Shigella spp.



Mycology (Culture)

Patient: ARWA BAGER ID: U3140108 Page 7



Parasitology

Microscopic O&P Results

Microscopic O&P is capable of detecting all described gastrointestinal parasites. The organisms listed in the box represent those commonly found in microscopic stool analysis. Should an organism be detected that is not included in the list below, it will be reported in the Additional Results section. These results were obtained using wet preparation(s) and trichrome stained smear. For an extensive reference of all potentially detectable organisms, please visit www.gdx.net/product/gi-effects-comprehensive-stool-test

Genus/species	Result				
Nematodes - roundworms					
Ancylostoma/Necator (Hookworm)	Not Detected				
Ascaris lumbricoides	Not Detected				
Capillaria philippinensis	Not Detected				
Enterobius vermicularis	Not Detected				
Strongyloides stercoralis	Not Detected				
Trichuris trichiura	Not Detected				
Cestodes - tapeworms					
Diphyllobothrium latum	Not Detected				
Dipylidium caninum	Not Detected				
Hymenolepis diminuta	Not Detected				
Hymenolepis nana	Not Detected				
Taenia spp.	Not Detected				
Trematodes - flukes					
Clonorchis/Opisthorchis spp.	Not Detected				
Fasciola spp./ Fasciolopsis buski	Not Detected				
Heterophyes/Metagonimus	Not Detected				
Paragonimus spp.	Not Detected				
Schistosoma spp.	Not Detected				
Protozoa					
Balantidium coli	Not Detected				
Blastocystis spp.	Not Detected				
Chilomastix mesnili	Not Detected				
Cryptosporidium spp.	Not Detected				
Cyclospora cayetanensis	Not Detected				
Dientamoeba fragilis	Not Detected				
Entamoeba coli	Not Detected				
Entamoeba histolytica/dispar	Not Detected				
Entamoeba hartmanii	Not Detected				
Entamoeba polecki	Not Detected				
Endolimax nana	Not Detected				
Giardia	Not Detected				
Iodamoeba buetschlii	Not Detected				
Cystoisospora spp.	Not Detected				
Trichomonads (e.g. Pentatrichomonas)	Not Detected				
Additional Findings					
White Blood Cells	Not Detected				
Charcot-Leyden Crystals	Not Detected				
Other Infectious Findings					

Patient: ARWA BAGER ID: U3140108



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Methodologies: DNA by PCR

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PCR Parasitology - Protozoa

Organism Units Result **Expected Result** Quantity Blastocystis spp. <2.14e2 femtograms/microliter C&S stool Not Detected Not Detected Not Detected Cryptosporidium parvum/hominis <1.76e2 Not Detected genome copies/microliter C&S stool <2.65e2 Not Detected Cyclospora cayetanensis Not Detected genome copies/microliter C&S stool Not Detected Dientamoeba fragilis <1.84e2 Not Detected genome copies/microliter C&S stool Not Detected Entamoeba histolytica <9.64e1 Not Detected genome copies/microliter C&S stool <1.36e1 Not Detected Not Detected Giardia genome copies/microliter C&S stool

Additional Results

Methodology: Fecal Immunochemical Testing (FIT)

Result Expected Value

Fecal Occult Blood◆ Negative Negative

Color†† Brown

Consistency†† Loose

^{††}Results provided from patient input.

Tests were developed and their performance characteristics determined by Genova Diagnostics. Unless otherwise noted with •, the assays have not been cleared by the U.S. Food and Drug Administration.

Commentary

Please note the reference range for Calprotectin has changed.

A modified version of the assay cleared by the US Food and Drug Administration is used to measure PE1. Performance characteristics were confirmed or determined by Genova Diagnostics, Inc. in a manner consistent with CLIA requirements.

Commentary is provided to the practitioner for educational purposes and should not be interpreted as diagnostic or as treatment recommendations. Diagnosis and treatment decisions are the practitioner's responsibility.

For more information regarding GI Effects clinical interpretation, please refer to the GI Effects Support Guide at www.gdx.net/gieffectsguide.