

Microbiome Information for: Inflammatory Bowel Disease

For prescribing Medical professionals Review

The suggestions below are based on an Expert System (Artificial Intelligence) modelled after the MYCIN Expert System produced at Stanford University School of Medicine in 1972. The system uses over 1,800,000 facts with backward chaining to sources of information. The typical sources are studies published on the US National Library of Medicine.

Many recent studies has found that symptoms and symptom severity has strong associations to the microbiome for many conditions. Correcting the microbiome dysfunction is beleived to reduce the severity of symptoms. In some cases, this correction may cause symptoms to disappear.

These are *a priori suggestions* that are predicted to independently reduce microbiome dysfunction. Suggestions should *only be done after a review* by a medical professional factoring in patient's conditions, allergies and other issues.

This report may be freely shared by a patient to their medical professionals

Best practise for making microbiome adjustments is to obtain the individuals microbiome. The following are the best microbiome to use with this expert system model. The suggestions below are intended as temporary suggestions until a test result in received.

In the USA

Ombre (<https://www.ombrelab.com/>)

Thorne (<https://www.thorne.com/products/dp/gut-health-test>)

Worldwide: BiomeSight (<https://biomesight.com>) - Discount Code 'MICRO'

Analysis Provided by Microbiome Prescription

A Microbiome Analysis Company

892 Lake Samish Rd, Bellingham WA 98229

Email: Research@MicrobiomePrescription.com

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Inflammatory Bowel Disease

Nota Bena: Many studies are done with a small sample size or mixtures of condition subsets which can greatly diminish the ability to detect bacteria shifts.

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Betaproteobacteria	class	High	28216	Staphylococcus	genus	High	1279
Chloroflexia	class	High	32061	Streptococcus	genus	High	1301
Clostridia	class	High	186801	Subdoligranulum	genus	High	292632
Deferribacteres	class	High	68337	Sutterella	genus	High	40544
Chlamydiaceae	family	High	809	Thomasclavelia	genus	High	3025755
Clostridiaceae	family	Low	31979	Veillonella	genus	High	29465
Desulfovibrionaceae	family	High	194924	Yersinia	genus	High	629
Enterobacteriaceae	family	High	543	Cytophagales	order	High	768507
Lachnospiraceae	family	Low	186803	Eubacteriales	order	Low	186802
Lactobacillaceae	family	Low	33958	[Clostridium] colinum	species	Low	36835
Muribaculaceae	family	Low	2005473	[Clostridium] innocuum	species	High	1522
Oxalobacteraceae	family	High	75682	[Clostridium] leptum	species	Low	1535
Peptostreptococcaceae	family	High	186804	[Clostridium] scindens	species	High	29347
Porphyromonadaceae	family	High	171551	[Eubacterium] brachy	species	High	35517
Prevotellaceae	family	Low	171552	[Eubacterium] siraeum	species	Low	39492
Rikenellaceae	family	High	171550	Actinomyces graevenitzii	species	High	55565
Actinomyces	genus	High	1654	Adlercreutzia equolifaciens	species	Low	446660
Adlercreutzia	genus	Low	447020	Agathobacter rectalis	species	Low	39491
Agathobacter	genus	Low	1766253	Akkermansia muciniphila	species	Low	239935
Akkermansia	genus	Low	239934	Alistipes putredinis	species	Low	28117
Alistipes	genus	Low	239759	Anaerobutyricum hallii	species	Low	39488
Anaerostipes	genus	Low	207244	Anaerostipes hadrus	species	Low	649756
Bacteroides	genus	High	816	Bacteroides fragilis	species	High	817
Barnesiella	genus	Low	397864	Bacteroides ovatus	species	High	28116
Blautia	genus	Low	572511	Bacteroides thetaiotaomicron	species	High	818
Campylobacter	genus	High	194	Bifidobacterium adolescentis	species	Low	1680
Candida	genus	High	5475	Bifidobacterium longum	species	Low	216816
Candidatus Soleaferrea	genus	High	1470353	Bilophila wadsworthia	species	Low	35833
Catenibacterium	genus	High	135858	Blautia obeum	species	Low	40520
Chlamydia	genus	High	810	Butyricicoccus pullicaecorum	species	Low	501571
Clostridium	genus	Low	1485	Campylobacter concisus	species	High	199
Collinsella	genus	High	102106	Campylobacter jejuni	species	High	197
Coprococcus	genus	Low	33042	Clostridioides difficile	species	High	1496
Corynebacterium	genus	High	1716	Clostridium butyricum	species	Low	1492
Desulfovibrio	genus	High	872	Clostridium perfringens	species	High	1502
Eggerthella	genus	High	84111	Collinsella aerofaciens	species	Low	74426
Enterobacter	genus	Low	547	Desulfovibrio piger	species	Low	901
Enterococcus	genus	High	1350	Eggerthella lenta	species	High	84112
Erysipelatoclostridium	genus	High	1505663	Enterobacter hormaechei	species	High	158836
Escherichia	genus	High	561	Enterococcus faecalis	species	High	1351
Faecalibacterium	genus	Low	216851	Escherichia coli	species	High	562

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Faecalitalea	genus	High	1573534	Eubacterium ruminantium	species	Low	42322
Fenollaria	genus	Low	1686313	Eubacterium ventriosum	species	Low	39496
Flavobacterium	genus	Low	237	Eubacterium xylanophilum	species	Low	39497
Flavonifractor	genus	High	946234	Faecalibacterium duncaniae	species	High	411483
Gemella	genus	High	1378	Faecalibacterium prausnitzii	species	Low	853
Haemophilus	genus	High	724	Fusobacterium nucleatum	species	High	851
Intestinibacter	genus	High	1505657	Gemmiger formicilis	species	Low	745368
Intestinimonas	genus	Low	1392389	Helicobacter pylori	species	High	210
Klebsiella	genus	High	570	Intestinibacter bartlettii	species	High	261299
Lactobacillus	genus	High	1578	Lactocaseibacillus rhamnosus	species	Low	47715
Lactococcus	genus	High	1357	Mediterraneibacter gnavus	species	High	33038
Ligilactobacillus	genus	Low	2767887	Methanobrevibacter smithii	species	Low	2173
Malassezia	genus	High	55193	Methanosphaera stadtmanae	species	High	2317
Mycoplasma	genus	High	2093	Parabacteroides distasonis	species	Low	823
Odoribacter	genus	Low	283168	Phocaeicola vulgatus	species	High	821
Oscillospira	genus	Low	119852	Porphyromonas gingivalis	species	High	837
Parabacteroides	genus	High	375288	Roseburia hominis	species	High	301301
Phascolarctobacterium	genus	Low	33024	Roseburia intestinalis	species	Low	166486
Plasmodium	genus	High	5820	Ruminococcus bromii	species	Low	40518
Porphyromonas	genus	High	836	Segatella copri	species	Low	165179
Prevotella	genus	High	838	Shigella flexneri	species	High	623
Proteus	genus	High	583	Shigella sonnei	species	High	624
Pseudomonas	genus	High	286	Streptococcus gallolyticus	species	High	315405
Romboutsia	genus	High	1501226	Streptococcus salivarius	species	High	1304
Roseburia	genus	Low	841	Streptococcus thermophilus	species	Low	1308
Ruminococcus	genus	Low	1263	Thomasclavelia ramosa	species	High	1547
Saccharomyces	genus	Low	4930	Thomasclavelia saccharogumia	species	High	341225
Salmonella	genus	High	590	Veillonella atypica	species	High	39777
Sellimonas	genus	High	1769710	Veillonella dispar	species	High	39778
Shigella	genus	High	620	Campylobacter concisus 13826	strain	High	360104
Sphingomonas	genus	Low	13687	Adlercreutzia equolifaciens subsp. celatus	subspecies	Low	394340
				Eukaryota	superkingdom	High	2759

Substance to Consider Adding or Taking

These are the most significant substances that are likely to improve the microbiome dysfunction. Dosages are based on the dosages used in clinical studies. For more information see: <https://microbiomeprescription.com/library/dosages>. These are provided as examples only

Colors indicates the type of substance: i.e. probiotics and prebiotics, herbs and spices, etc. There is no further meaning to them.

Antibiotics annotated with [CFS] have been used with various degree of success with Myalgic Encephalomyelitis, Chronic Fatigue Syndrome, Chronic Lyme, Chronic Q-Fever and Long COVID conditions. Rotation of antibiotics with 3 weeks off between courses is recommended.

Escherichia coli cryodesiccata {colinfant probiotics}

Ethyl alcohol {Grain alcohol}

fat

Ferrum {Iron Supplements} 400 mg/day

high red meat

high-fat diets

High-protein diet {Atkins low-carbohydrate diet}

proton-pump inhibitors (prescription) 60 mg/day

Sleep apnea {partial sleep deprivation}

Sucralose {Splenda} 340 mg/day

Tobacco consumption {Smoking}

Under cooked animal protein {Rare meat}

Substance to Consider Reducing or Eliminating

These are the most significant substances have been identified as probably contributing to the microbiome dysfunction.

In some cases blood work may show low levels of some vitamins, etc. listed below. This may be due to *greedy* bacteria reported at a high level above. Viewing bacteria data on the Kyoto Encyclopedia of Genes and Genomes (<https://www.kegg.jp/>) may provide better insight on the course of action to take.

(2->1)-beta-D-fructofuranan {Inulin}	green tea
bacillus	High-fibre diet {Whole food diet}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Lactacaseibacillus casei {L. casei}
bifidobacterium	Lactacaseibacillus rhamnosus {l. rhamnosus}
bifidobacterium longum {B.Longum }	Lactobacillus plantarum {L. plantarum}
Bovine Milk Products {Dairy}	oligosaccharides {oligosaccharides}
Cinnamomum zeylanicum {Ceylon Cinnamon}	origanum vulgare {oregano}
ciprofloxacin [CFS]	Propolis {Bee glue}
dietary fiber	Saccharomyces cerevisiae var boulardii {S. boulardii}
Diferuloylmethane {Curcumin}	Slow digestible carbohydrates. {Low Glycemic}
Fiber, total dietary	Thymus vulgaris {thyme}
fruit	whole-grain diet
fruit/legume fibre	yogurt
gentamicin	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Acne

Addison's Disease (hypocortisolism)

ADHD

Age-Related Macular Degeneration and Glaucoma

Allergic Rhinitis (Hay Fever)

Allergies

Allergy to milk products

Alopecia (Hair Loss)

Alzheimer's disease

Amyotrophic lateral sclerosis (ALS) Motor Neuron

Ankylosing spondylitis

Anorexia Nervosa

Antiphospholipid syndrome (APS)

Asthma

Atherosclerosis

Atrial fibrillation

Autism

Autoimmune Disease

Barrett esophagus cancer

benign prostatic hyperplasia

Biofilm

Bipolar Disorder

Brain Trauma

Breast Cancer
Cancer (General)
Carcinoma
cdkl5 deficiency disorder
Celiac Disease
Cerebral Palsy
Chronic Fatigue Syndrome
Chronic Kidney Disease
Chronic Lyme
Chronic Obstructive Pulmonary Disease (COPD)
Chronic Urticaria (Hives)
Coagulation / Micro clot triggering bacteria
Cognitive Function
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
Crohn's Disease
Cushing's Syndrome (hypercortisolism)
cystic fibrosis
d-lactic acidosis (one form of brain fog)
deep vein thrombosis
Denture Wearers Oral Shifts
Depression
Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy
erectile dysfunction
Fibromyalgia
Food Allergy
Functional constipation / chronic idiopathic constipation
gallstone disease (gsd)
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus
Generalized anxiety disorder
giant cell arteritis
Glioblastoma
Gout
Graves' disease
Gulf War Syndrome
Halitosis
Hashimoto's thyroiditis
Heart Failure
hemorrhagic stroke
Hemorrhoidal disease, Hemorrhoids, Piles
Hidradenitis Suppurativa
High Histamine/low DAO
hypercholesterolemia (High Cholesterol)
hyperglycemia
Hyperlipidemia (High Blood Fats)
hypersomnia
hypertension (High Blood Pressure)
Hypothyroidism
Hypoxia
IgA nephropathy (IgAN)
Inflammatory Bowel Disease
Insomnia

Intelligence
Intracranial aneurysms
Irritable Bowel Syndrome
ischemic stroke
Juvenile idiopathic arthritis
Liver Cirrhosis
liver fibrosis
Long COVID
Low bone mineral density
Lung Cancer
Lymphoma
Mast Cell Issues / mastitis
ME/CFS with IBS
ME/CFS without IBS
membranous nephropathy
Menopause
Metabolic Syndrome
Mood Disorders
multiple chemical sensitivity [MCS]
Multiple Sclerosis
Multiple system atrophy (MSA)
myasthenia gravis
neuropathic pain
Neuropathy (all types)
neuropsychiatric disorders (PANDAS, PANS)
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic
NonCeliac Gluten Sensitivity
Obesity
obsessive-compulsive disorder
Osteoarthritis
Osteoporosis
pancreatic cancer
Parkinson's Disease
Peanut Allergy
Polycystic ovary syndrome
Postural orthostatic tachycardia syndrome
Premenstrual dysphoric disorder
primary biliary cholangitis
Primary sclerosing cholangitis
Psoriasis
rheumatoid arthritis (RA), Spondyloarthritis (SpA)
Rosacea
Schizophrenia
scoliosis
sensorineural hearing loss
Sjögren syndrome
Sleep Apnea
Slow gastric motility / Gastroparesis
Small Intestinal Bacterial Overgrowth (SIBO)
Stress / posttraumatic stress disorder
Systemic Lupus Erythematosus
Tic Disorder
Tourette syndrome
Type 1 Diabetes
Type 2 Diabetes
Ulcerative colitis
Unhealthy Ageing
Vitiligo

