

Microbiome Information for: Inflammatory Bowel Disease

For non-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	Sellimonas	genus	High	1769710
Chloroflexia	class	High	32061	Shigella	genus	High	620
Clostridia	class	High	186801	Staphylococcus	genus	High	1279
Deferribacteres	class	High	68337	Streptococcus	genus	High	1301
Chlamydiaceae	family	High	809	Subdoligranulum	genus	High	292632
Clostridiaceae	family	Low	31979	Sutterella	genus	High	40544
Desulfovibrionaceae	family	High	194924	Cytophagales	order	High	768507
Enterobacteriaceae	family	High	543	Eubacteriales	order	Low	186802
Lachnospiraceae	family	Low	186803	[Clostridium] colinum	species	Low	36835
Lactobacillaceae	family	Low	33958	[Clostridium] innocuum	species	High	1522
Muribaculaceae	family	Low	2005473	[Clostridium] leptum	species	Low	1535
Oxalobacteraceae	family	High	75682	[Clostridium] scindens	species	High	29347
Peptostreptococcaceae	family	High	186804	[Eubacterium] brachy	species	High	35517
Porphyromonadaceae	family	High	171551	[Eubacterium] siraeum	species	Low	39492
Prevotellaceae	family	Low	171552	Actinomyces graevenitzii	species	High	55565
Rikenellaceae	family	High	171550	Adlercreutzia equolifaciens	species	Low	446660
Ruminococcaceae	family	High	541000	Agathobacter rectalis	species	Low	39491
Actinomyces	genus	High	1654	Akkermansia muciniphila	species	Low	239935
Adlercreutzia	genus	Low	447020	Alistipes putredinis	species	Low	28117
Agathobacter	genus	Low	1766253	Anaerobutyricum hallii	species	Low	39488
Akkermansia	genus	Low	239934	Anaerostipes hadrus	species	Low	649756
Alistipes	genus	Low	239759	Bacteroides fragilis	species	High	817
Anaerostipes	genus	Low	207244	Bacteroides ovatus	species	High	28116
Bacteroides	genus	High	816	Bifidobacterium adolescentis	species	Low	1680
Barnesiella	genus	Low	397864	Bifidobacterium longum	species	Low	216816
Bifidobacterium	genus	High	1678	Bilophila wadsworthia	species	Low	35833
Blautia	genus	Low	572511	Blautia obeum	species	Low	40520
Campylobacter	genus	High	194	Butyricicoccus pullicaecorum	species	Low	501571
Candidatus Soleaferrea	genus	High	1470353	Campylobacter concisus	species	High	199
Catenibacterium	genus	High	135858	Clostridioides difficile	species	High	1496
Chlamydia	genus	High	810	Clostridium butyricum	species	Low	1492
Clostridium	genus	Low	1485	Clostridium perfringens	species	High	1502
Collinsella	genus	High	102106	Collinsella aerofaciens	species	Low	74426
Coprococcus	genus	Low	33042	Desulfovibrio piger	species	Low	901
Desulfovibrio	genus	High	872	Eggerthella lenta	species	High	84112
Eggerthella	genus	High	84111	Enterobacter hormaechei	species	High	158836
Enterobacter	genus	Low	547	Enterococcus faecalis	species	High	1351
Enterococcus	genus	High	1350	Escherichia coli	species	High	562
Erysipelatoclostridium	genus	High	1505663	Eubacterium ruminantium	species	Low	42322
Escherichia	genus	High	561	Eubacterium ventriosum	species	Low	39496
Faecalibacterium	genus	Low	216851	Eubacterium xylanophilum	species	Low	39497

Bacteria Name	Rank	Shift	Taxonomy ID
Faecalitalea	genus	High	1573534
Fenollaria	genus	Low	1686313
Flavobacterium	genus	Low	237
Flavonifractor	genus	High	946234
Gemella	genus	High	1378
Haemophilus	genus	High	724
Intestinibacter	genus	High	1505657
Intestinimonas	genus	Low	1392389
Klebsiella	genus	High	570
Lachnospira	genus	Low	28050
Lactobacillus	genus	High	1578
Lactococcus	genus	High	1357
Mycoplasma	genus	High	2093
Odoribacter	genus	Low	283168
Oscillospira	genus	Low	119852
Parabacteroides	genus	High	375288
Phascolarctobacterium	genus	Low	33024
Plasmodium	genus	High	5820
Porphyromonas	genus	High	836
Prevotella	genus	High	838
Proteus	genus	High	583
Pseudomonas	genus	High	286
Romboutsia	genus	High	1501226
Roseburia	genus	Low	841
Ruminococcus	genus	Low	1263
Salmonella	genus	High	590

Bacteria Name	Rank	Shift	Taxonomy ID
Faecalibacterium duncaniae	species	High	411483
Faecalibacterium prausnitzii	species	Low	853
Fusobacterium nucleatum	species	High	851
Gemmiger formicilis	species	Low	745368
Helicobacter pylori	species	High	210
Lactocaseibacillus rhamnosus	species	Low	47715
Mediterraneibacter gnavus	species	High	33038
Methanobrevibacter smithii	species	Low	2173
Methanosphaera stadtmanae	species	High	2317
Parabacteroides distasonis	species	Low	823
Phocaeicola vulgatus	species	High	821
Porphyromonas gingivalis	species	High	837
Roseburia hominis	species	High	301301
Roseburia intestinalis	species	Low	166486
Ruminococcus bromii	species	Low	40518
Segatella copri	species	Low	165179
Shigella flexneri	species	High	623
Shigella sonnei	species	High	624
Streptococcus gallolyticus	species	High	315405
Streptococcus salivarius	species	High	1304
Streptococcus thermophilus	species	Low	1308
Thomasclavelia ramosa	species	High	1547
Thomasclavelia saccharogumia	species	High	341225
Veillonella atypica	species	High	39777
Veillonella dispar	species	High	39778
Campylobacter concisus	13826 strain	High	360104
Adlercreutzia equolifaciens subsp. celatus	subspecies	Low	394340

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.

2-Amino-4-(methylthio)butanoic acid {Methionine} 5 gram/day

α -Gluco-oligosaccharides {GOS}

Escherichia coli cryodesiccata {colinfant probiotics}

Escherichia coli:DSM 16441-16448 {symbioflor-2}

Ethyl alcohol {Grain alcohol}

fat

Ferrum {Iron Supplements} 400 mg/day

high red meat

N-(aminoiminomethyl)-N methyl glycine {Creatine}

Perna canaliculus {Green-lipped mussel}

raffinose {sugar beet}

Sleep apnea {partial sleep deprivation}

Sucralose {Splenda} 340 mg/day

synthetic disaccharide derivative of lactose {Lactulose}

Tobacco consumption {Smoking}

Under cooked animal protein {Rare meat}

Retail Probiotics

Over 260 retail probiotics were evaluated with the following deemed beneficial with no known adverse risks.

 symbiopharm / symbioflo 2

Note: Some of these are only available regionally – search the web for sources.

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}
 (2->1)-beta-D-fructofuranan {Inulin}
 2-Methyl-5-(1-methylethyl)phenol {Carvacrol}
 3,3',4',5,7-pentahydroxyflavone {Quercetin}
 allium sativum {garlic}
 Azadirachta indica {Neem}
 bacillus
 bacillus,lactobacillus,streptococcus,saccharomyces probiotic
 bifidobacterium longum {B.Longum }
 Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}
 Cinnamomum zeylanicum {Ceylon Cinnamon}
 Clostridium butyricum MIYAIRI 588 {Miyarisan}
 Curcuma longa {Turmeric}
 D-(-)-Fructose {Fruit sugar}
 Diferuloylmethane {Curcumin}
 enterococcus faecium {E. faecium}
 fruit
 fruit/legume fibre
 green tea
 Lactacaseibacillus casei {L. casei}
 Lactacaseibacillus paracasei {L.paracasei}

Lactacaseibacillus rhamnosus {l. rhamnosus}
 lactobacillus acidophilus {L. acidophilus}
 Lactobacillus plantarum {L. plantarum}
 Lavandula angustifolia {lavender}
 Limosilactobacillus fermentum {L. fermentum}
 Limosilactobacillus reuteri {L. Reuteri}
 Metha family {Mint}
 Moringa Oleifera
 Ocimum gratissimum {Clove basil}
 origanum vulgare {oregano}
 pectin {pectin}
 Probiotic Mixture 2 {Vetafarm Probiotic}
 Propolis {Bee glue}
 Punica granatum {pomegranate}
 rosmarinus officinalis {rosemary}
 Saccharomyces cerevisiae var boulardii {S. boulardii}
 β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine
 {Chitosan}
 syzygium aromaticum {clove}
 Thymus vulgaris {thyme}
 Vaccinium {Cranberry}
 yogurt
 Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Abdominal Aortic Aneurysm

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
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