

Microbiome Information for: Ulcerative colitis

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 have found that symptoms and symptom severity has strong associations to the microbiome for many conditions. Correcting the microbiome dysfunction is believed 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 individual's 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 is 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 Ulcerative colitis

Nota Benia: 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
Actinomycetes	class High	1760	Morganella	genus High	90690
Bacilli	class High	91061	Morganella	genus High	108061
Bacteroidia	class Low	200643	Negativibacillus	genus High	1980693
Clostridia	class Low	186801	Neisseria	genus High	482
Coriobacteriia	class Low	84998	Odoribacter	genus Low	283168
Deferrribacteres	class High	68337	Olsenella	genus High	133925
Gammaproteobacteria	class High	1236	Oribacterium	genus High	265975
Negativicutes	class Low	909932	Oscillibacter	genus High	459786
Bacteroidaceae	family Low	815	Oscillospira	genus Low	119852
Bifidobacteriaceae	family High	31953	Oxalobacter	genus Low	846
Christensenellaceae	family Low	990719	Pantoea	genus High	53335
Enterobacteriaceae	family High	543	Parabacteroides	genus Low	375288
Enterococcaceae	family High	81852	Parvimonas	genus Low	543311
Gemmellaceae	family High	539738	Peptoniphilus	genus High	162289
Lachnospiraceae	family Low	186803	Peptostreptococcus	genus High	1257
Lactobacillaceae	family High	33958	Phascolarctobacterium	genus Low	33024
Muribaculaceae	family High	2005473	Porphyromonas	genus High	836
Prevotellaceae	family Low	171552	Prevotella	genus High	838
Rikenellaceae	family High	171550	Pseudomonas	genus Low	286
Ruminococcaceae	family Low	541000	Roseburia	genus Low	841
Streptococcaceae	family High	1300	Rothia	genus High	32207
Acinetobacter	genus High	469	Rothia	genus High	508215
Actinomyces	genus High	1654	Ruminococcus	genus Low	1263
Adlercreutzia	genus Low	447020	Shigella	genus High	620
Aeromonas	genus High	642	Solobacterium	genus High	123375
Akkermansia	genus Low	239934	Staphylococcus	genus High	1279
Alistipes	genus High	239759	Streptococcus	genus High	1301
Alloprevotella	genus Low	1283313	Subdoligranulum	genus High	292632
Anaerofilum	genus High	52784	Veillonella	genus High	29465
Anaerostipes	genus High	207244	Victivallis	genus Low	172900
Anaerotruncus	genus High	244127	Weissella	genus High	46255
Angelakisella	genus Low	1935176	Yersinia	genus Low	629
Atopobium	genus High	1380	Bacteroidales	order Low	171549
Bacillus	genus High	1386	Bifidobacteriales	order High	85004
Bacillus	genus High	55087	Coriobacteriales	order High	84999
Bacteroides	genus High	816	Enterobacteriales	order High	91347
Bifidobacterium	genus High	1678	Eubacteriales	order Low	186802
Bilophila	genus Low	35832	Lactobacillales	order High	186826
Blautia	genus High	572511	Methanomassiliicoccales	order Low	1235850
Bordetella	genus High	517	[Clostridium] innocuum	species High	1522
Brevundimonas	genus Low	41275			

Bacteria Name	Rank Shift	Taxonomy ID	Bacteria Name	Rank Shift	Taxonomy ID
Butyricicoccus	genus Low	580596	Adlercreutzia equolifaciens	species Low	446660
Butyricimonas	genus Low	574697	Akkermansia muciniphila	species Low	239935
Candidatus Pelagibacter	genus High	198251	Alistipes putredinis	species Low	28117
Catenibacterium	genus Low	135858	Bacteroides acidifaciens	species High	85831
Cedecea	genus High	158483	Bacteroides ovatus	species Low	28116
Cetobacterium	genus High	180162	Bacteroides thetaiotaomicron	species Low	818
Clostridium	genus Low	1485	Bacteroides uniformis	species Low	820
Coprobacillus	genus High	100883	Bifidobacterium animalis	species Low	28025
Coprococcus	genus Low	33042	Bifidobacterium bifidum	species Low	1681
Cutibacterium	genus High	1912216	Blautia producta	species Low	33035
Dehalobacterium	genus Low	51514	Campylobacter concisus	species High	199
Desulfovibrio	genus Low	872	Clostridioides difficile	species Low	1496
Dialister	genus Low	39948	Clostridium butyricum	species Low	1492
Dorea	genus High	189330	Clostridium perfringens	species High	1502
Eisenbergiella	genus High	1432051	Enterococcus faecalis	species High	1351
Enterobacter	genus Low	547	Enterococcus faecium	species High	1352
Enterococcus	genus High	1350	Escherichia coli	species High	562
Enterorhabdus	genus High	580024	Eubacterium ventriosum	species Low	39496
Escherichia	genus High	561	Faecalibacterium prausnitzii	species Low	853
Faecalibacterium	genus Low	216851	Francisella tularensis	species High	263
Finegoldia	genus High	150022	Fusicatenibacter saccharivorans	species Low	1150298
Flavonifractor	genus High	946234	Fusobacterium nucleatum	species High	851
Fusicatenibacter	genus Low	1407607	Haemophilus parainfluenzae	species High	729
Gemella	genus High	1378	Helicobacter pylori	species High	210
Gemmiger	genus Low	204475	Lactiplantibacillus plantarum	species Low	1590
Gordonibacter	genus High	644652	Lactobacillus intestinalis	species Low	151781
Granulicatella	genus High	117563	Latilactobacillus sakei	species Low	1599
Haemophilus	genus High	724	Mucispirillum schaedleri	species High	248039
Klebsiella	genus High	570	Peptostreptococcus anaerobius	species High	1261
Lachnospira	genus High	28050	Phascolarctobacterium succinatutens	species High	626940
Lacticaseibacillus	genus High	2759736	Phocaeicola vulgatus	species Low	821
Lactobacillus	genus High	1578	Porphyromonas asaccharolytica	species Low	28123
Lactococcus	genus High	1357	Proteus mirabilis	species High	584
Massilia	genus High	149698	Roseburia hominis	species Low	301301
Megamonas	genus Low	158846	Saccharomyces cerevisiae	species High	4932
Methanobrevibacter	genus Low	2172	Segatella copri	species Low	165179
Methanospaera	genus Low	2316	Streptococcus gallolyticus	species High	315405
Morganella	genus High	581	Sutterella wadsworthensis	species High	40545
			Thomasclavelia ramosa	species High	1547
			Veillonella dispar	species High	39778

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.

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

D-ribofuranoside {Ribose} 10 gram/day

Escherichia coli cryodesiccata {colinfant probiotics}

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

Ethyl alcohol {Grain alcohol}

High glycemic diet {High-sugar diet (HSD)}

high red meat

high-fat diets

High-protein diet {Atkins low-carbohydrate diet}

Morphine

N(aminoiminomethyl)-N methyl glycine {Creatine}

Nitrogen Oxide x Particulate Matter {Urban air pollutant}

Perna canaliculus {Green-lipped mussel}

Polyethylene oxide sorbitan mono-oleate {Polysorbate 80}

proton-pump inhibitors (prescription) 60 mg/day

raffinose {sugar beet}

Sleep apnea {partial sleep deprivation}

Sucratose {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.

3,3',4',5,7-pentahydroxyflavone {Quercetin}	green tea
bacillus	High-fibre diet {Whole food diet}
bacillus subtilis {B.Subtilis }	Lacticaseibacillus casei {L. casei}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Lactobacillus plantarum {L. plantarum}
bifidobacterium longum {B.Longum }	origanum vulgare {oregano}
Cinnamomum zeylanicum {Ceylon Cinnamon}	Propolis {Bee glue}
dietary fiber	Saccharomyces cerevisiae var boulardii {S. boulardii}
Diferuloylmethane {Curcumin}	Slow digestible carbohydrates. {Low Glycemic}
Fiber, total dietary	β -(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine {Chitosan}
fruit	Thymus vulgaris {thyme}
fruit/legume fibre	whole-grain diet
gentamicin	yogurt

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
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