

Microbiome Information for: Crohn's 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 Crohn's 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
Clostridia	class	Low	186801	Monoglobus	genus	Low	2039302
Halobacteria	class	High	183963	Mycobacterium	genus	High	1763
Sordariomycetes	class	Low	147550	Mycoplasma	genus	High	2093
Thermoplasmata	class	High	183967	Olsenella	genus	Low	133925
Thermoprotei	class	High	183924	Paenibacillus	genus	Low	44249
Aerococcaceae	family	High	186827	Papillibacter	genus	High	100175
Enterobacteriaceae	family	High	543	Parabacteroides	genus	High	375288
Lachnospiraceae	family	Low	186803	Parasutterella	genus	Low	577310
Prevotellaceae	family	High	171552	Parvimonas	genus	High	543311
Streptococcaceae	family	High	1300	Penicillium	genus	Low	5073
Abiotrophia	genus	Low	46123	Peptostreptococcus	genus	High	1257
Acetobacter	genus	Low	434	Phascolarctobacterium	genus	Low	33024
Acidaminococcus	genus	Low	904	Picrophilus	genus	High	46631
Acinetobacter	genus	High	469	Polynucleobacter	genus	High	44013
Actinobacillus	genus	High	713	Porphyromonas	genus	Low	836
Actinomyces	genus	High	1654	Prevotella	genus	Low	838
Adlercreutzia	genus	High	447020	Proteus	genus	High	583
Akkermansia	genus	Low	239934	Proteus	genus	High	210425
Alistipes	genus	High	239759	Pseudomonas	genus	High	286
Anaerofustis	genus	Low	264995	Romboutsia	genus	Low	1501226
Anaerotruncus	genus	High	244127	Roseburia	genus	Low	841
Aspergillus	genus	Low	5052	Rothia	genus	High	32207
Atopobium	genus	High	1380	Ruminococcus	genus	Low	1263
Bacteroides	genus	Low	816	Salmonella	genus	High	590
Bilophila	genus	High	35832	Sellimonas	genus	High	1769710
Blautia	genus	Low	572511	Shigella	genus	High	620
Burkholderia	genus	High	32008	Shinella	genus	High	323620
Butyrivibrio	genus	Low	830	Slackia	genus	Low	84108
Candida	genus	High	5475	Solobacterium	genus	High	123375
Candida	genus	High	1535326	Staphylococcus	genus	High	1279
Candidatus Soleaferrea	genus	High	1470353	Streptococcus	genus	High	1301
Capnocytophaga	genus	High	1016	Succinatimonas	genus	High	674963
Catenibacterium	genus	Low	135858	Sutterella	genus	Low	40544
Cedrovirus	genus	Low	186532	Thermoanaerobacter	genus	High	1754
Cetobacterium	genus	High	180162	Treponema	genus	Low	157
Clonostachys	genus	High	110564	Turidibacter	genus	Low	191303
Clostridium	genus	High	1485	Tyzzera	genus	High	1506577
Colidextribacter	genus	Low	1980681	Veillonella	genus	High	29465
Collinsella	genus	Low	102106	Vibrio	genus	High	662
Coprococcus	genus	Low	33042	Bacteroidales	order	High	171549
				Enterobacterales	order	High	91347

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Corynebacterium	genus	Low	1716	Eubacteriales	order	Low	186802
Defluviitalea	genus	Low	1185408	Lactobacillales	order	High	186826
Dehalobacterium	genus	Low	51514	Verrucomicrobiales	order	High	48461
Desulfovibrio	genus	Low	872	[Clostridium] leptum	species	Low	1535
Dialister	genus	High	39948	Agathobacter rectalis	species	Low	39491
Dielma	genus	High	1472649	Aggregatibacter	species	High	714
Dorea	genus	Low	189330	actinomycetemcomitans			
Eggerthella	genus	High	84111	Akkermansia muciniphila	species	Low	239935
Eisenbergiella	genus	High	1432051	Alistipes shahii	species	Low	328814
Enterobacter	genus	High	547	Anaerobutyricum hallii	species	Low	39488
Enterococcus	genus	High	1350	Bacteroides cellulosilyticus	species	High	246787
Escherichia	genus	High	561	Bacteroides fragilis	species	High	817
Eubacterium	genus	Low	1730	Bacteroides sp	species	Low	2778071
Facklamia	genus	Low	66831	Bacteroides uniformis	species	High	820
Faecalibacterium	genus	Low	216851	Blautia coccoides	species	Low	1532
Filifactor	genus	High	44259	Blautia faecis	species	High	871665
Fusicatenibacter	genus	Low	1407607	Candida albicans	species	High	5476
Fusobacterium	genus	High	848	Enterococcus faecium	species	High	1352
Gardnerella	genus	High	2701	Escherichia coli	species	High	562
Gemmiger	genus	Low	204475	Faecalibacterium prausnitzii	species	Low	853
Gordonibacter	genus	High	644652	Faecalicatena fissicatena	species	High	290055
Haemophilus	genus	High	724	Francisella tularensis	species	Low	263
Hafnia	genus	High	568	Fusobacterium nucleatum	species	High	851
Halococcus	genus	High	2249	Hoylella oralis	species	High	28134
Holdemana	genus	Low	1573535	Isoptericola variabilis	species	High	139208
Hungatella	genus	High	1649459	Klebsiella pneumoniae	species	High	573
Isoptericola	genus	High	254250	Lachnospira eligens	species	Low	39485
Jonquetella	genus	High	428711	Limosilactobacillus coleohominis	species	Low	181675
Lachnoclostridium	genus	High	1506553	Limosilactobacillus fermentum	species	High	1613
Lachnospira	genus	Low	28050	Malassezia restricta	species	High	76775
Lactobacillus	genus	High	1578	Mediterraneibacter gnavus	species	High	33038
Lactococcus	genus	Low	1357	Parabacteroides distasonis	species	High	823
Leucobacter	genus	High	55968	Phocaeicola vulgatus	species	High	821
Leuconostoc	genus	High	1243	Porphyromonas gingivalis	species	High	837
Malassezia	genus	High	55193	Prevotella intermedia	species	High	28131
Marvinbryantia	genus	Low	248744	Pseudodesulfovibrio aespoeensis	species	Low	182210
Methanobrevibacter	genus	Low	2172	Roseburia inulinivorans	species	High	360807
Methanosphaera	genus	High	2316	Roseburia sp.	species	Low	2049040
Methylobacterium	genus	High	407	Saccharomyces cerevisiae	species	High	4932
Mogibacterium	genus	High	86331	Serratia marcescens	species	Low	615
				Shigella flexneri	species	High	623
				Tannerella forsythia	species	High	28112

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	macrolide ()	
Ceratonia siliqua {carob}		Nitrogen Oxide x Particulate Matter {Urban air pollutant}	
D-ribofuranoside {Ribose}	10 gram/day	penicillin-moxalactam	
Escherichia coli cryodesiccata {colinfant probiotics}		Perna canaliculus {Green-lipped mussel}	
Escherichia coli:DSM 16441-16448 {symbioflor-2}		proton-pump inhibitors (prescription)	60 mg/day
Ethyl alcohol {Grain alcohol}		Quercetin-3-O-rutinoside {Rutin}	60 mg/day
Ferum {Iron Supplements}	400 mg/day	raffinose {sugar beet}	
High glycemic diet {High-sugar diet (HSD)}		Sleep apnea {partial sleep deprivation}	
high red meat		Sodium Fluoride {Toothpaste fluoride}	
high-fat diets		Sucralose {Splenda}	340 mg/day
High-protein diet {Atkins low-carbohydrate diet}		Tobacco consumption {Smoking}	
ketogenic diet		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}
 amikacin
 amoxicillin [CFS]
 bacillus
 bacillus subtilis {B.Subtilis }
 bacillus,lactobacillus,streptococcus,saccharomyces probiotic
 bifidobacterium bifidum {B. bifidum}
 bifidobacterium longum {B.Longum }
 Bovine Milk Products {Dairy}
 Cinnamomum zeylanicum {Ceylon Cinnamon}
 ciprofloxacin [CFS]
 Clostridium butyricum MIYAIRI 588 {Miyarisan}
 Curcuma longa {Turmeric}
 D-(-)-Fructose {Fruit sugar}
 dietary fiber
 Diferuloylmethane {Curcumin}
 enterococcus faecium {E. faecium}
 Fiber, total dietary
 fruit
 fruit/legume fibre
 gentamicin
 green tea

High-fibre diet {Whole food diet}
 Honey {Honey }
 imipenem
 Lactaseibacillus casei {L. casei}
 Lactaseibacillus paracasei {L.paracasei}
 Lactaseibacillus rhamnosus {L. rhamnosus}
 lactobacillus acidophilus {L. acidophilus}
 Lactobacillus plantarum {L. plantarum}
 lactobacillus rhamnosus gg,bifidobacterium animalis lactis
 ,lactobacillus paracasei {cvs maximum strength probiotic}
 Lavandula angustifolia {lavender}
 Limosilactobacillus reuteri {L. Reuteri}
 Metha family {Mint}
 Moringa Oleifera
 oligosaccharides {oligosaccharides}
 origanum vulgare {oregano}
 piperacillin-tazobactam
 Probiotic Mixture 1 {Japanese Vet Probiotic}
 Probiotic Mixture 2 {Vetafarm Probiotic}
 Propolis {Bee glue}
 rosmarinus officinalis {rosemary}
 Saccharomyces cerevisiae var boulardii {S. boulardii}
 Slow digestible carbohydrates. {Low Glycemic}
 β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine
 {Chitosan}
 Thymus vulgaris {thyme}
 whole-grain diet
 yogurt
 Zingiber officinale Roscoe {ginger}

Sample of Literature Used

The following are the most significant of the studies used to generate these suggestions.

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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
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