

Microbiome Information for: Celiac 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 Celiac 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
Bacteroidia	class	Low	200643	Megamonas	genus	Low	158846
Fusobacteriia	class	Low	203490	Megasphaera	genus	High	906
Christensenellaceae	family	Low	990719	Methanobrevibacter	genus	Low	2172
Desulfovibrionaceae	family	High	194924	Neisseria	genus	High	482
Enterobacteriaceae	family	High	543	Parabacteroides	genus	Low	375288
Fusobacteriaceae	family	Low	203492	Parvimonas	genus	Low	543311
Oxalobacteraceae	family	High	75682	Romboutsia	genus	High	1501226
Peptostreptococcaceae	family	High	186804	Rothia	genus	Low	32207
Ruminococcaceae	family	Low	541000	Ruminiclostridium	genus	Low	1508657
Staphylococcaceae	family	High	90964	Ruminococcus	genus	Low	1263
Streptococcaceae	family	Low	1300	Senegalimassilia	genus	Low	1473205
Actinomyces	genus	Low	1654	Slackia	genus	Low	84108
Akkermansia	genus	Low	239934	Staphylococcus	genus	High	1279
Alistipes	genus	Low	239759	Streptococcus	genus	High	1301
Allisonella	genus	High	209879	Subdoligranulum	genus	Low	292632
Anaerostipes	genus	Low	207244	Sutterella	genus	High	40544
Anaerotruncus	genus	Low	244127	Actinomycetales	order	High	2037
Barnesiella	genus	Low	397864	Campylobacteriales	order	Low	213849
Bifidobacterium	genus	Low	1678	Candidatus Gastranaerophilales	order	High	1906119
Bilophila	genus	Low	35832	Bacteroides acidifaciens	species	High	85831
Blautia	genus	Low	572511	Bacteroides fragilis	species	High	817
Butyrivibrio	genus	Low	574697	Bifidobacterium angulatum	species	High	1683
Candidatus Soleaferrea	genus	High	1470353	Bifidobacterium animalis	species	Low	28025
Catenibacterium	genus	High	135858	Bifidobacterium bifidum	species	High	1681
Dialister	genus	Low	39948	Bifidobacterium breve	species	High	1685
Dorea	genus	Low	189330	Bifidobacterium longum	species	Low	216816
Eisenbergiella	genus	Low	1432051	Bifidobacterium pseudocatenulatum	species	Low	28026
Enterococcus	genus	High	1350	Candida albicans	species	High	5476
Enterorhabdus	genus	Low	580024	Clostridium celatum	species	High	36834
Erysipelatoclostridium	genus	Low	1505663	Escherichia coli	species	High	562
Faecalibacterium	genus	Low	216851	Eubacterium coprostanoligenes	species	Low	290054
Gemella	genus	Low	1378	Helicobacter pylori	species	High	210
Gemmiger	genus	Low	204475	Klebsiella oxytoca	species	High	571
Granulicatella	genus	Low	117563	Phocaeicola vulgatus	species	High	821
Haemophilus	genus	High	724	Roseburia intestinalis	species	High	166486
Helicobacter	genus	High	209	Rothia mucilaginosa	species	High	43675
Lachnoclostridium	genus	High	1506553	Saccharomyces cerevisiae	species	High	4932
Lachnospira	genus	Low	28050	Staphylococcus epidermidis	species	High	1282
Lactobacillus	genus	Low	1578	Staphylococcus pasteurii	species	High	45972

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.

Ethyl alcohol {Grain alcohol}

Ferrum {Iron Supplements} 400 mg/day

high-fat diets

High-protein diet {Atkins low-carbohydrate diet}

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}

bifidobacterium longum {B.Longum }

dietary fiber

Fiber, total dietary

fruit

fruit/legume fibre

Hordeum vulgare {Barley}

Lactobacillus plantarum {L. plantarum}

oligosaccharides {oligosaccharides}

Slow digestible carbohydrates. {Low Glycemic}

whole-grain diet

yogurt

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
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