

Microbiome Information for: ME/CFS without IBS

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 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 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

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of ME/CFS without IBS

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
Clostridiaceae	<i>family</i>	High	31979	Pseudomonadales	order	High	72274
Pseudomonadaceae	<i>family</i>	High	135621	[Clostridium] scindens	species	High	29347
Bacteroides	<i>genus</i>	Low	816	[Clostridium] symbiosum	species	High	1512
Bifidobacterium	<i>genus</i>	Low	1678	Clostridiales bacterium 1_7_47FAA	species	High	457421
Clostridium	<i>genus</i>	High	1485	Clostridiales bacterium L2-14	species	High	620860
Coprobacillus	<i>genus</i>	High	100883	Coprococcus catus	species	Low	116085
Dorea	<i>genus</i>	Low	189330	Dorea formicigenerans	species	Low	39486
Eggerthella	<i>genus</i>	High	84111	Dorea longicatena	species	High	88431
Pseudoflavonifractor	<i>genus</i>	High	1017280	Eggerthella lenta	species	High	84112
Pseudomonas	<i>genus</i>	High	286	Mediterraneibacter gnavus	species	High	33038
Streptococcus	<i>genus</i>	High	1301	Parabacteroides distasonis	species	Low	823
				Pseudoflavonifractor capillosus	species	High	106588

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

a-Amino-3-indolepropionic acid {Tryptophan} 3 gram/day

d-galactose {milk sugar}

Ferrum {Iron Supplements} 400 mg/day

High-protein diet {Atkins low-carbohydrate diet}

Iicosamide

macrolide ()

Nitrogen Oxide x Particulate Matter {Urban air pollutant}

proton-pump inhibitors (prescription) 60 mg/day

Rheum x hybridum {Rhubarb}

Tributyrin

Ulmus rubra {slippery elm}

vegetarians

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
bifidobacterium	Human milk oligosaccharides (prebiotic, Holigos, Stachyose)
Bifidobacterium animalis subsp. lactis {B. Lactis}	Lacticaseibacillus casei {L. casei}
ciprofloxacin [CFS]	Lactobacillus plantarum {L. plantarum}
dietary fiber	long-term, moderate-intensity exercise {exercise}
Fiber, total dietary	oligosaccharides {oligosaccharides}
fruit	Outer Layers of Triticum aestivum {Wheat Bran}
fruit/legume fibre	resistant starch
gentamicin	Slow digestible carbohydrates. {Low Glycemic}
	yogurt

Sample of Literature Used

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

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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