

Microbiome Information for: hypercholesterolemia (High Cholesterol)

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

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of hypercholesterolemia (High Cholesterol)

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
Bacillaceae	family	High	186817	Odoribacter	genus	High	283168
Coriobacteriaceae	family	High	84107	Prevotella	genus	High	838
Erysipelotrichaceae	family	Low	128827	Rothia	genus	High	32207
Allobaculum	genus	High	174708	Rothia	genus	High	508215
Anaeroplasma	genus	Low	2086	Selenomonas	genus	Low	970
Anaerovibrio	genus	High	82373	Serratia	genus	High	613
Clostridium	genus	High	1485	Victivallis	genus	Low	172900
Enterococcus	genus	Low	1350	Chromatiales	order	High	135613
Faecalibacterium	genus	Low	216851	Eubacteriales	order	High	186802
Haemophilus	genus	Low	724	Akkermansia muciniphila	species	Low	239935
Leptotrichia	genus	High	32067	Chlamydia pneumoniae	species	High	83558
Megamonas	genus	High	158846	Enterococcus faecium	species	Low	1352
Methanosphaera	genus	High	2316	Escherichia coli	species	High	562
Mitsuokella	genus	Low	52225	Lactiplantibacillus plantarum	species	Low	1590
				Limosilactobacillus reuteri	species	Low	1598

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

Carrageenans {Carrageenan}

Ferrum {Iron Supplements} 400 mg/day

High-protein diet {Atkins low-carbohydrate diet}

Linum usitatissimum {Flaxseed} 30 mg/day

Nicotine, Nicotine Patch

Nitrogen Oxide x Particulate Matter {Urban air pollutant}

Sleep apnea {partial sleep deprivation}

tetracycline

Tobacco consumption {Smoking}

Under cooked animal protein {Rare meat}

VANCOMYCIN (ANTIBIOTIC)[CFS]

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]quinolinium {Berberine}
 (2->1)-beta-D-fructofuranan {Inulin}
 allium sativum {garlic}
 amikacin
 azithromycin,{CFS}
 bacillus subtilis {B.Subtilis }
 bacillus,lactobacillus,streptococcus,saccharomyces probiotic
 Bifidobacterium animalis subsp. lactis {B. Lactis}
 bifidobacterium bifidum {B. bifidum}
 Bovine Milk Products {Dairy}
 ceftazidime
 Coffee
 Curcuma amada {Mango ginger}
 Curcuma longa {Turmeric}
 D-(-)-Fructose {Fruit sugar}
 dietary fiber
 Diferuloylmethane {Curcumin}
 enterococcus faecium {E. faecium}
 Epicatechin {Green tea polyphenol}
 eugenol {Eugenic acid}
 Fiber, total dietary
 fructo-oligosaccharides
 fruit
 fruit/legume fibre
 Grape Polyphenols {Grape Flavonoids}
 grapes
 green tea
 High-fibre diet {Whole food diet}

Honey {Honey }
 Lactocaseibacillus casei {L. casei}
 lactobacillus acidophilus {L. acidophilus}
 Lactobacillus plantarum {L. plantarum}
 laminaria digitata {Oarweed}
 Limosilactobacillus fermentum {L. fermentum}
 Limosilactobacillus reuteri {L. Reuteri}
 long-term, moderate-intensity exercise {exercise}
 metformin (prescription)
 oligosaccharides {oligosaccharides}
 organum vulgare {oregano}
 polyphenols
 Probiotic Mixture 1 {Japanese Vet Probiotic}
 Probiotic Mixture 2 {Vetafarm Probiotic}
 Punica granatum {pomegranate}
 red wine polyphenols
 resistant starch
 resveratrol-pterostilbene {grapes, blueberries}
 resveratrol-pterostilbene x Quercetin {quercetin x resveratrol}
 rosmarinus officinalis {rosemary}
 Saccharomyces cerevisiae var boulardii {S. boulardii}
 Slow digestible carbohydrates. {Low Glycemic}
 soy
 β-glucan {Beta-Glucan}
 Thymus vulgaris {thyme}
 yogurt
 Zinc {Zinc Supplements}
 Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Acne

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ADHD

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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