

Microbiome Information for: Hyperlipidemia (High Blood Fats)

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/>)

Thome (<https://www.thome.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 Hyperlipidemia (High Blood Fats)

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
Bacilli	class	Low	91061	Bilophila	genus	High	35832
Bacteroidia	class	Low	200643	Butyricococcus	genus	Low	580596
Betaproteobacteria	class	Low	28216	Chlamydia	genus	High	810
Gammaproteobacteria	class	High	1236	Colidextribacter	genus	High	1980681
Verrucomicrobiia	class	High	203494	Desulfovibrio	genus	High	872
Enterococcaceae	family	High	81852	Enterococcus	genus	High	1350
Helicobacteraceae	family	High	72293	Eubacterium	genus	High	1730
Lachnospiraceae	family	Low	186803	Faecalibacterium	genus	Low	216851
Lactobacillaceae	family	Low	33958	Faecalibaculum	genus	High	1729679
Porphyromonadaceae	family	Low	171551	Helicobacter	genus	High	209
Sutterellaceae	family	Low	995019	Lactobacillus	genus	Low	1578
Verrucomicrobiaceae	family	High	203557	Oscillibacter	genus	High	459786
Akkermansia	genus	High	239934	Parasutterella	genus	Low	577310
Alistipes	genus	Low	239759	Rothia	genus	Low	508215
Allobaculum	genus	High	174708	Lactobacillus johnsonii	species	Low	33959
Barnesiella	genus	Low	397864	Pediococcus pentosaceus	species	Low	1255
Bifidobacterium	genus	High	1678	Porphyromonas gingivalis	species	High	837

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->1)-beta-D-fructofuranan {Inulin} 32 gram/day

Agaricus bisporus {White button mushrooms}

Astragalus

Bifidobacterium breve {B. breve} 15 BCFU/day

cranberry bean flour

Epicatechin {Green tea polyphenol}

grape seed extract 6 gram/day

green tea

Grifola frondosa {Hen of the Woods Mushroom}

ketogenic diet

Lactose {Milk Sugar}

Linum usitatissimum {Flaxseed} 30 mg/day

low fodmap diet

metformin (prescription)

N-(phosphonomethyl)glycine {glyphosate}

partially hydrolysed guar gum

Phaseolus vulgaris {Boston bean}

Pleurotus ostreatus {Oyster mushroom}

Polyethylene oxide sorbitan mono-oleate {Polysorbate 80}

Pulvis ledebouriellae compositae {Bofutsushosan}

Sleep apnea {partial sleep deprivation}

Sodium Chloride {Salt}

Sodium Fluoride {Toothpaste fluoride}

Sucralose {Splenda} 340 mg/day

synthetic disaccharide derivative of lactose {Lactulose}

tea

Retail Probiotics

Over 260 retail probiotics were evaluated with the following deemed beneficial with no known adverse risks.

jarrow formulas / bifidus balance® + fos
naturopathica (au) / gastrohealth fibrepro
Lab One / N ° 1 SportBiotic
blackmore (au) / probiotics+ eczema relief
CustomProbiotics.com / B. Breve Probiotic Powder
blackmores (au) / probiotics+ immune defence
Maple Life Science™ / Bifidobacterium breve
nature's way (au) / restore probiotic 30 billion 30s
blackmore (au) / probiotics+ daily health
PharmExtracta (IT) / Brevicillin Stick
blackmores (au) / probiotics + adults daily (90 capsules)
nature's way (au) / restore probiotic daily health 90s
Bulk Probiotics / B. Breve Probiotic Powder

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.

2,3-dihydroxypropyl dodecanoate {Monolaurin}	Hordeum vulgare {Barley}
3,3',4',5,7-pentahydroxyflavone {Quercetin}	Lactocaseibacillus casei {L. casei}
Abstinence from eating {Fasting}	Lactobacillus delbrueckii subsp. bulgaricus {L. bulgaricus}
allium sativum {garlic}	Lactobacillus Johnsonii {Lactobacillus Johnsonii}
arabinogalactan {arabinogalactan}	Lactobacillus plantarum {L. plantarum}
bacillus	Limosilactobacillus reuteri {L. Reuteri}
bacillus licheniformis {b. licheniformis}	long-term, moderate-intensity exercise {exercise}
bacillus subtilis {B.Subtilis }	Malus domestica {apple}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Morinda citrifolia {Noni}
bifidobacterium longum {B.Longum }	Panax ... {Ginseng}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	pectin {pectin}
dietary fiber	Pediococcus pentosaceus {P. pentosaceus}
Diferuloylmethane {Curcumin}	polyphenols
Fiber, total dietary	Probiotic Mixture 2 {Vetafarm Probiotic}
fruit	Propolis {Bee glue}
fruit/legume fibre	Saccharomyces cerevisiae var boulardii {S. boulardii}
fucoidan {Brown Algae Extract}	Slow digestible carbohydrates. {Low Glycemic}
Ganoderma sichuanense {Reishi Mushroom}	β-glucan {Beta-Glucan}
High-fibre diet {Whole food diet}	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
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