

Microbiome Information for: Atherosclerosis

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 *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

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[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Atherosclerosis

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 | Actinomyces oris | species | High | 544580 |
| Chlamydiaceae | family | High | 809 | Bacteroides fragilis | species | High | 817 |
| Acidaminococcus | genus | High | 904 | Chlamydia pneumoniae | species | High | 83558 |
| Actinobacillus | genus | High | 713 | Coxiella burnetii | species | High | 777 |
| Akkermansia | genus | Low | 239934 | Dialister succinatiphilus | species | High | 487173 |
| Bacteroides | genus | High | 816 | Enterococcus faecalis | species | High | 1351 |
| Bifidobacterium | genus | High | 1678 | Escherichia coli | species | High | 562 |
| Chlamydia | genus | High | 810 | Eubacterium coprostanoligenes | species | Low | 290054 |
| Clostridium | genus | Low | 1485 | Eubacterium xylanophilum | species | Low | 39497 |
| Collinsella | genus | High | 102106 | Faecalibacterium prausnitzii | species | High | 853 |
| Edwardsiella | genus | High | 635 | Fusobacterium varium | species | High | 856 |
| Erwinia | genus | High | 551 | Helicobacter pylori | species | High | 210 |
| Eubacterium | genus | Low | 1730 | Limosilactobacillus fermentum | species | High | 1613 |
| Fusobacterium | genus | High | 848 | Mycoplasmoides pneumoniae | species | High | 2104 |
| Lactobacillus | genus | High | 1578 | Odoribacter splanchnicus | species | Low | 28118 |
| Prevotella | genus | High | 838 | Porphyromonas gingivalis | species | High | 837 |
| Proteus | genus | High | 583 | Prevotella intermedia | species | High | 28131 |
| Providencia | genus | High | 586 | Proteus mirabilis | species | High | 584 |
| Rikenella | genus | Low | 28138 | Pseudomonas aeruginosa | species | High | 287 |
| Roseburia | genus | Low | 841 | Roseburia intestinalis | species | Low | 166486 |
| Ruminococcus | genus | High | 1263 | Tannerella forsythia | species | High | 28112 |
| | | | | Treponema denticola | species | High | 158 |

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

bacillus subtilis {B.Subtilis } 10 BCFU/day

dietary fiber

Fiber, total dietary

High glycemic diet {High-sugar diet (HSD)}

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

long-term, moderate-intensity exercise {exercise}

oligosaccharides {oligosaccharides}

Outer Layers of Triticum aestivum {Wheat Bran}

partially hydrolysed guar gum

resistant starch

β-glucan {Beta-Glucan} 500 mg/day

synthetic disaccharide derivative of lactose {Lactulose}

β-lactoglobulin {Whey} 60 gram/day

Retail Probiotics

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

Global Healing Center / FloraTrex
 Realdose
 BIO-BOTANICAL RESEARCH / Megacidin
 reserveage nutrition / beautiflora
 amy meyers / primal earth probiotic
 Jetson / Gut Prep
 nature's way (au) / restore probiotic bowel & colon health 30s
 garden of life / primal defense
 Bromatech (IT) / Lautoselle
 naturopathica (au) / gastrohealth fibrepro
 blackmore (au) / probiotics+ eczema relief
 Jetson / FIT
 Prescript-Assist®/SBO Probiotic
 Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 Physician Choice /60 Billion Probiotics
 enviromedica terraflorea sbo probiotic
 Jetson (US) / Mood Probiotics
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 Bromatech (IT) / Serobiome
 corebiotic
 blackmores (au) / probiotics+ immune defence
 mwsb / candida yeast support
 microbiome labs/ megasporebiotic
 klaire labs / biospora
 Energybalance / ColoBiotica 28 Colon Support
 microbiome labs / hu58
 blackmore (au) / probiotics+ bowel support
 perfect pass / perfect pass probiotic bacillus spore
 global health trax / threelac
 nature's way (au) / restore probiotic 30 billion 30s
 Law of Nature / Best Days Formula
 bio-botanical research / proflorea4r restorative probiotic
 blackmore (au) / probiotics+ daily health
 nature's instincts / ultra spore probiotic
 powerlabs (au) / ultra blend
 Swiss BioEnergetics / Full Spectrum Probiotic Defence
 probiotic pur (de) / realdose nutrition
 Bulk Probiotics / Bacillus Subtilis Probiotic
 theramedix / probiotic
 blackmores (au) / probiotics + adults daily (90 capsules)
 aor / probiotic-3
 vitamin angels / just thrive
 nature's way (au) / restore probiotic daily health 90s
 microbiome labs / restorflora
 INVIVO THERAPEUTICS / Bio.Me IB +
 jarow formulas / bifidus balance® + fos
 organic 3 / primal soil
 SuperSmart / Bacillus Subtilis

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}
3,3',4',5,7-pentahydroxyflavone {Quercetin}
amoxicillin [CFS]
azithromycin,[CFS]
ciprofloxacin [CFS]
Diferuloylmethane {Curcumin}
doxycycline [CFS]

gentamicin
macrolide ()
Propolis {Bee glue}
resveratrol-pterostilbene {grapes, blueberries}
roxithromycin
schisandra chinensis {magnolia berry}
Thymus vulgaris {thyme}
Vaccinium {Cranberry}

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
cdk15 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