

Microbiome Information for: Heart Failure

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 Heart Failure

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
Negativicutes	class	High	909932	Phascolarctobacterium	genus	High	33024
Lachnospiraceae	family	Low	186803	Pseudobutyrvibrio	genus	Low	46205
Peptococcaceae	family	High	186807	Romboutsia	genus	High	1501226
Akkermansia	genus	Low	239934	Roseburia	genus	Low	841
Anaerostipes	genus	Low	207244	Shigella	genus	High	620
Aspergillus	genus	High	5052	Streptococcus	genus	High	1301
Bacteroides	genus	High	816	Walleria	genus	High	148959
Bifidobacterium	genus	Low	1678	Bacillales	order	Low	1385
Blautia	genus	Low	572511	Selenomonadales	order	High	909929
Butyrivibrio	genus	High	830	Acinetobacter baumannii	species	High	470
Catenibacterium	genus	High	135858	Aerococcus urinae	species	High	1376
Clostridium	genus	High	1485	Agathobacter rectalis	species	Low	39491
Coprococcus	genus	High	33042	Cardiobacterium hominis	species	High	2718
Enterobacter	genus	High	547	Chlamydia pneumoniae	species	High	83558
Enterococcus	genus	High	1350	Clostridioides difficile	species	High	1496
Escherichia	genus	High	561	Clostridium sporogenes	species	High	1509
Eubacterium	genus	Low	1730	Corynebacterium diphtheriae	species	High	1717
Faecalibacterium	genus	Low	216851	Dorea longicatena	species	Low	88431
Faecalitalea	genus	High	1573534	Escherichia coli	species	High	562
Flavonifractor	genus	High	946234	Eubacterium oxidoreducens	species	High	1732
Holdemania	genus	High	1573535	Faecalibacterium prausnitzii	species	Low	853
Intestinimonas	genus	Low	1392389	Fusobacterium nucleatum	species	High	851
Klebsiella	genus	High	570	Helicobacter pylori	species	High	210
Lachnospiraceae	genus	High	1506553	Lachnospira eligens	species	High	39485
Mediterranea	genus	High	1926659	Mediterraneibacter gnavus	species	High	33038
Megamonas	genus	High	158846	Mycobacterium kansasii	species	High	1768
Mucispirillum	genus	Low	248038	Mycoplasmoides pneumoniae	species	High	2104
Oscillibacter	genus	Low	459786	Pseudomonas aeruginosa	species	High	287
Oscillospira	genus	High	119852	Staphylococcus aureus	species	High	1280
Parabacteroides	genus	High	375288	Staphylococcus capitis	species	High	29388
Paraprevotella	genus	High	577309	Streptococcus pyogenes	species	High	1314
Parasutterella	genus	High	577310	Streptococcus sanguinis	species	High	1305
Pedobacter	genus	Low	84567	Sutterella wadsworthensis	species	Low	40545

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 red meat

high-fat diets

High-protein diet {Atkins low-carbohydrate diet}

proton-pump inhibitors (prescription) 60 mg/day

Sleep apnea {partial sleep deprivation}

Sucralose {Splenda} 340 mg/day

Tobacco consumption {Smoking}

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}
 (2->1)-beta-D-fructofuranan {Inulin}
 3,3',4',5,7-pentahydroxyflavone {Quercetin}
 allium sativum {garlic}
 amikacin
 amoxicillin [CFS]
 ampicillin [CFS]
 Azadirachta indica {Neem}
 bacillus
 bacillus,lactobacillus,streptococcus,saccharomyces probiotic
 benzylpenicillin sodium (antibiotic)
 Bifidobacterium animalis subsp. lactis {B. Lactis}
 bifidobacterium longum {B.Longum }
 ceftazidime
 Cinnamomum zeylanicum {Ceylon Cinnamon}
 ciprofloxacin [CFS]
 D-(-)-Fructose {Fruit sugar}
 dietary fiber
 Diferuloylmethane {Curcumin}
 enterococcus faecium {E. faecium}
 Fiber, total dietary
 fruit
 fruit/legume fibre
 gentamicin
 green tea
 Honey {Honey }
 imipenem

Lactacaseibacillus casei {L. casei}
 Lactacaseibacillus paracasei {L.paracasei}
 Lactacaseibacillus rhamnosus {l. rhamnosus}
 lactobacillus acidophilus {L. acidophilus}
 Lactobacillus plantarum {L. plantarum}
 Limosilactobacillus fermentum {L. fermentum}
 Limosilactobacillus reuteri {L. Reuteri}
 meropenem
 Metha family {Mint}
 Moringa Oleifera
 oligosaccharides {oligosaccharides}
 origanum vulgare {oregano}
 piperacillin-tazobactam
 polyphenols
 Propolis {Bee glue}
 Punica granatum {pomegranate}
 rosmarinus officinalis {rosemary}
 Saccharomyces cerevisiae var boulardii {S. boulardii}
 Slow digestible carbohydrates. {Low Glycemic}
 β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine {Chitosan}
 syzygium aromaticum {clove}
 Thymus vulgaris {thyme}
 trimethoprim
 vancomycin (antibiotic)[CFS]
 whole-grain diet
 yogurt
 Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Acne

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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