

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

[Our Facebook Discussion Page](#)

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

Negativicutes	class	High	909932
Lachnospiraceae	family	Low	186803
Peptococcaceae	family	High	186807
Akkermansia	genus	Low	239934
Anaerostipes	genus	Low	207244
Aspergillus	genus	High	5052
Bacteroides	genus	High	816
Bifidobacterium	genus	Low	1678
Blautia	genus	Low	572511
Butyrivibrio	genus	High	830
Catenibacterium	genus	High	135858
Clostridium	genus	High	1485
Coprococcus	genus	High	33042
Enterobacter	genus	High	547
Enterococcus	genus	High	1350
Escherichia	genus	High	561
Eubacterium	genus	Low	1730
Faecalibacterium	genus	Low	216851
Faecalitalea	genus	High	1573534
Flavonifractor	genus	High	946234
Holdemania	genus	High	1573535
Intestinimonas	genus	Low	1392389
Klebsiella	genus	High	570
Lachnospiraceae	genus	High	1506553
Lachnospira	genus	Low	28050
Mediterranea	genus	High	1926659
Megamonas	genus	High	158846
Mucispirillum	genus	Low	248038
Oscillibacter	genus	Low	459786
Oscillospira	genus	High	119852
Parabacteroides	genus	High	375288
Paraprevotella	genus	High	577309
Parasutterella	genus	High	577310
Pedobacter	genus	Low	84567

Bacteria Name Rank Shift Taxonomy ID

Phascolarctobacterium	genus	High	33024
Pseudobutyrvibrio	genus	Low	46205
Romboutsia	genus	High	1501226
Roseburia	genus	Low	841
Segatella	genus	High	2974251
Shigella	genus	High	620
Streptococcus	genus	High	1301
Wallenia	genus	High	148959
Bacillales	order	Low	1385
Selenomonadales	order	High	909929
Acinetobacter baumannii	species	High	470
Aerococcus urinae	species	High	1376
Agathobacter rectalis	species	Low	39491
Cardiobacterium hominis	species	High	2718
Chlamydia pneumoniae	species	High	83558
Clostridioides difficile	species	High	1496
Clostridium sporogenes	species	High	1509
Corynebacterium diphtheriae	species	High	1717
Dorea longicatena	species	Low	88431
Escherichia coli	species	High	562
Eubacterium oxidoreducens	species	High	1732
Faecalibacterium prausnitzii	species	Low	853
Fusobacterium nucleatum	species	High	851
Helicobacter pylori	species	High	210
Lachnospira eligens	species	High	39485
Mediterraneibacter gnavus	species	High	33038
Mycobacterium kansasii	species	High	1768
Mycoplasmoides pneumoniae	species	High	2104
Phocaeicola vulgatus	species	Low	821
Pseudomonas aeruginosa	species	High	287
Staphylococcus aureus	species	High	1280
Staphylococcus capitis	species	High	29388
Streptococcus pyogenes	species	High	1314
Streptococcus sanguinis	species	High	1305
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}	imipenem
(2->1)-beta-D-fructofuranan {Inulin}	Lactacaseibacillus casei {L. casei}
allium sativum {garlic}	Lactacaseibacillus paracasei {L.paracasei}
amikacin	Lactacaseibacillus rhamnosus {l. rhamnosus}
amoxicillin [CFS]	lactobacillus acidophilus {L. acidophilus}
bacillus	Lactobacillus plantarum {L. plantarum}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Limosilactobacillus fermentum {L. fermentum}
bifidobacterium bifidum {B. bifidum}	Limosilactobacillus reuteri {L. Reuteri}
bifidobacterium longum {B.Longum }	Metha family {Mint}
Bovine Milk Products {Dairy}	Moringa Oleifera
Cinnamomum zeylanicum {Ceylon Cinnamon}	oligosaccharides {oligosaccharides}
ciprofloxacin [CFS]	origanum vulgare {oregano}
Curcuma longa {Turmeric}	piperacillin-tazobactam
D-(-)-Fructose {Fruit sugar}	polyphenols
dietary fiber	Probiotic Mixture 1 {Japanese Vet Probiotic}
Diferuloylmethane {Curcumin}	Probiotic Mixture 2 {Vetafarm Probiotic}
enterococcus faecium {E. faecium}	Propolis {Bee glue}
Fiber, total dietary	Punica granatum {pomegranate}
fruit	rosmarinus officinalis {rosemary}
fruit/legume fibre	Saccharomyces cerevisiae var boulardii {S. boulardii}
gentamicin	Slow digestible carbohydrates. {Low Glycemic}
green tea	β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine {Chitosan}
High-fibre diet {Whole food diet}	Thymus vulgaris {thyme}
Honey {Honey }	yogurt
	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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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