

Microbiome Information for: gallstone disease (gsd)

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 gallstone disease (gsd)

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

Lactobacillaceae	family	High	33958
Akkermansia	genus	Low	239934
Alistipes	genus	Low	239759
Anaerostipes	genus	High	207244
Anaerotruncus	genus	High	244127
Barnesiella	genus	Low	397864
Bifidobacterium	genus	Low	1678
Blautia	genus	High	572511
Clostridium	genus	High	1485
Dorea	genus	High	189330
Escherichia	genus	High	561
Eubacterium	genus	Low	1730
Fusobacterium	genus	Low	848
Helicobacter	genus	High	209
Lactobacillus	genus	Low	1578
Microbacterium	genus	High	33882
Oscillospira	genus	High	119852

Bacteria Name Rank Shift Taxonomy ID

Parabacteroides	genus	High	375288
Paraprevotella	genus	High	577309
Roseburia	genus	Low	841
Ruminococcus	genus	High	1263
Salmonella	genus	High	590
Veillonella	genus	High	29465
Vibrio	genus	High	662
Aeromonas hydrophila	species	High	644
Bacteroides fragilis	species	High	817
Cutibacterium acnes	species	High	1747
Enterococcus casseliflavus	species	High	37734
Enterococcus faecium	species	High	1352
Escherichia coli	species	High	562
Klebsiella pneumoniae	species	High	573
Mediterraneibacter gnavus	species	High	33038
Proteus mirabilis	species	High	584
Pseudomonas aeruginosa	species	High	287

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.

d-galactose {milk sugar}	
D-glucose {Glucose}	
Ferrum {Iron Supplements}	400 mg/day
High glycemic diet {High-sugar diet (HSD)}	
high red meat	
	high-fat diets
	Sucralose {Splenda}
	340 mg/day
	Sus domesticus {Pork}
	Ulmus rubra {slippery elm}
	vegetarians

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->1)-beta-D-fructofuranan {Inulin}	imipenem
3,3',4',5,7-pentahydroxyflavone {Quercetin}	Lactacisibacillus casei {L. casei}
allium sativum {garlic}	Lactacisibacillus paracasei {L.paracasei}
amikacin	Lactacisibacillus rhamnosus {l. rhamnosus}
amoxicillin [CFS]	lactobacillus acidophilus {L. acidophilus}
ampicillin [CFS]	Lactobacillus plantarum {L. plantarum}
bacillus	Limosilactobacillus fermentum {L. fermentum}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Limosilactobacillus reuteri {L. Reuteri}
Bifidobacterium animalis subsp. lactis {B. Lactis}	meropenem
Bovine Milk Products {Dairy}	oligosaccharides {oligosaccharides}
ceftazidime	organum vulgare {oregano}
Cinnamomum zeylanicum {Ceylon Cinnamon}	piperacillin-tazobactam
ciprofloxacin [CFS]	polyphenols
Curcuma longa {Turmeric}	Probiotic Mixture 2 {Vetafarm Probiotic}
D-(-)-Fructose {Fruit sugar}	Propolis {Bee glue}
dietary fiber	Punica granatum {pomegranate}
Diferuloylmethane {Curcumin}	rosmarinus officinalis {rosemary}
enterococcus faecium {E. faecium}	Slow digestible carbohydrates. {Low Glycemic}
Fiber, total dietary	β-glucan {Beta-Glucan}
fruit	Thymus vulgaris {thyme}
fruit/legume fibre	trimethoprim
gentamicin	whole-grain diet
green tea	yogurt
Hordeum vulgare {Barley}	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Additional APriori Analysis Available

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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