

Microbiome Information for: gallstone disease (gsd)

For non-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/>)

Thorne (<https://www.thorne.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	Bacteria Name	Rank	Shift	Taxonomy ID
Lactobacillaceae	family	High	33958	Parabacteroides	genus	High	375288
Akkermansia	genus	Low	239934	Paraprevotella	genus	High	577309
Alistipes	genus	Low	239759	Roseburia	genus	Low	841
Anaerostipes	genus	High	207244	Ruminococcus	genus	High	1263
Anaerotruncus	genus	High	244127	Salmonella	genus	High	590
Barnesiella	genus	Low	397864	Veillonella	genus	High	29465
Bifidobacterium	genus	Low	1678	Vibrio	genus	High	662
Blautia	genus	High	572511	Aeromonas hydrophila	species	High	644
Clostridium	genus	High	1485	Bacteroides fragilis	species	High	817
Dorea	genus	High	189330	Cutibacterium acnes	species	High	1747
Escherichia	genus	High	561	Enterococcus casseliflavus	species	High	37734
Eubacterium	genus	Low	1730	Enterococcus faecium	species	High	1352
Fusobacterium	genus	Low	848	Escherichia coli	species	High	562
Helicobacter	genus	High	209	Klebsiella pneumoniae	species	High	573
Lactobacillus	genus	Low	1578	Mediterraneibacter gnavus	species	High	33038
Microbacterium	genus	High	33882	Proteus mirabilis	species	High	584
Oscillospira	genus	High	119852	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.

d-galactose {milk sugar}	Sucralose {Splenda} 340 mg/day
D-glucose {Glucose}	Sus domesticus {Pork}
Ferrum {Iron Supplements} 400 mg/day	Ulmus rubra {slippery elm}
high red meat	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}	Lactocaseibacillus paracasei {L.paracasei}
3,3',4',5,7-pentahydroxyflavone {Quercetin}	Lactocaseibacillus rhamnosus {l. rhamnosus}
allium sativum {garlic}	lactobacillus acidophilus {L. acidophilus}
bacillus	lactobacillus paracasei,lactobacillus acidophilus,bifidobacterium animalis
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Lactobacillus plantarum {L. plantarum}
Bifidobacterium animalis subsp. lactis {B. Lactis}	Lavandula angustifolia {lavender}
bifidobacterium bifidum {B. bifidum}	Limosilactobacillus fermentum {L. fermentum}
Bovine Milk Products {Dairy}	Limosilactobacillus reuteri {L. Reuteri}
Cinnamomum zeylanicum {Ceylon Cinnamon}	oligosaccharides {oligosaccharides}
Curcuma longa {Turmeric}	origanum vulgare {oregano}
D-(-)-Fructose {Fruit sugar}	polyphenols
Diferuloylmethane {Curcumin}	Probiotic Mixture 2 {Vetafarm Probiotic}
enterococcus faecium {E. faecium}	Propolis {Bee glue}
fruit	Punica granatum {pomegranate}
fruit/legume fibre	rosmarinus officinalis {rosemary}
green tea	β-glucan {Beta-Glucan}
Hordeum vulgare {Barley}	Thymus vulgaris {thyme}
Lactocaseibacillus casei {L. casei}	yogurt
	Zingiber officinale Roscoe {ginger}

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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