

## 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 *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**

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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](mailto:Research@MicrobiomePrescription.com)

## 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.

<b>Bacteria Name</b>	<b>Rank</b>	<b>Shift</b>	<b>Taxonomy ID</b>	<b>Bacteria Name</b>	<b>Rank</b>	<b>Shift</b>	<b>Taxonomy ID</b>
Lactobacillaceae	family	High	33958	Faecalibacterium	genus	Low	216851
Alistipes	genus	Low	239759	Fusobacterium	genus	Low	848
Anaerostipes	genus	High	207244	Helicobacter	genus	High	209
Anaerotruncus	genus	High	244127	Oscillospira	genus	High	119852
Barnesiella	genus	Low	397864	Parabacteroides	genus	High	375288
Bifidobacterium	genus	Low	1678	Paraprevotella	genus	High	577309
Blautia	genus	High	572511	Roseburia	genus	Low	841
Clostridium	genus	High	1485	Ruminococcus	genus	High	1263
Dorea	genus	High	189330	Salmonella	genus	High	590
Escherichia	genus	High	561	Veillonella	genus	High	29465
Eubacterium	genus	Low	1730	Vibrio	genus	High	662

## 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.

aspartame (sweetner)

**berberine** 1.5 gram/day

bile (acid/salts)

carob

**cellulose (prebiotic)**

chitosan,(sugar) 3 gram/day

dairy

d-ribose 10 gram/day

fat

galactose (milk sugar)

high red meat

lactulose

navy bean

non-starch polysaccharides

**oligosaccharides (prebiotic)**

**omega-3 fatty acids** 4 gram/day

rhubarb

**saccharomyces boulardii (probiotics)** 6 BCFU/day

**saccharomyces cerevisiae (probiotics)**

**sodium butyrate**

**symbioflor 2 e.coli probiotics**

**Tributylin**

vegetarians

**vitamin a** 25000 IU/day

**Vitamin B9,folic acid** 5 mg/day

**vitamin d** 50000 UI/day

## **Retail Probiotics**

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

spain (es) / ultralevura

spain (es) / axiboulardi

organic 3 / yeastbiotic

Ombre / Harmony

SuperSmart / Saccharomyces Boulardii

naturopathica (au) / gastrohealth probiotics

naturopathica (au) / gastrohealth probiotic daily care

nature's instincts / ultra spore probiotic

symbiopharm / symbioflo 2

probiotic pur (de) / realdose nutrition

microbiome labs / restorflora

Realdose

florastor / florastor

optibac / saccharomyces boulardii

**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.

apple	lactobacillus paracasei (probiotics)
arabinogalactan (prebiotic)	lactobacillus rhamnosus gg (probiotics)
Arbutin (polyphenol)	luteolin (flavonoid)
bacillus licheniformis,(probiotics)	Moringa Oleifera
Baicalin	neem
Cacao	pediococcus acidilactic (probiotic)
cinnamon (oil. spice)	polyphenols
clostridium butyricum (probiotics),Miya,Miyarisan	PreforPro
cranberry bean flour	Psyllium (Plantago Ovata Husk)
Curcumin	retinoic acid,(Vitamin A derivative)
diosmin,(polyphenol)	rosmarinus officinalis,rosemary
enterococcus faecium (probiotic)	soy
fructo-oligosaccharides (prebiotic)	syzygium aromaticum (clove)
galacto-oligosaccharides (prebiotic)	thyme (thymol, thyme oil)
gluten	Vitamin B1,thiamine hydrochloride
green tea	Vitamin B-12
Hesperidin (polyphenol)	Vitamin B6,pyridoxine hydrochloride
Human milk oligosaccharides (prebiotic, Holigos, Stachyose)	Vitamin C (ascorbic acid)
inulin (prebiotic)	wheat
lactobacillus casei (probiotics)	whey
	xylan (prebiotic)

## Sample of Literature Used

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Allergies  
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Ankylosing spondylitis  
Anorexia Nervosa  
Antiphospholipid syndrome (APS)  
Asthma  
Atherosclerosis  
Autism  
Autoimmune Disease  
Barrett esophagus cancer  
Bipolar Disorder  
Brain Trauma  
Carcinoma  
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  
Colorectal Cancer  
Constipation  
Coronary artery disease  
COVID-19  
Crohn's Disease  
cystic fibrosis  
deep vein thrombosis  
Depression  
Dermatomyositis  
Eczema  
Endometriosis  
Eosinophilic Esophagitis  
Epilepsy  
Fibromyalgia  
Functional constipation / chronic idiopathic constipation  
gallstone disease (gsd)  
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus  
Generalized anxiety disorder  
Gout  
Graves' disease  
Hashimoto's thyroiditis  
Hidradenitis Suppurativa  
Histamine Issues From Ubiome  
Histamine Issues, Mast Cell Issue, DAO Insufficiency  
hypercholesterolemia (High Cholesterol)  
hyperglycemia  
Hyperlipidemia (High Blood Fats)  
hypersomnia  
hypertension (High Blood Pressure)  
Hypoxia  
IgA nephropathy (IgAN)  
Inflammatory Bowel Disease  
Insomnia  
Intelligence  
Irritable Bowel Syndrome  
Juvenile idiopathic arthritis  
Liver Cirrhosis  
Long COVID  
Lung Cancer  
ME/CFS with IBS  
ME/CFS without IBS  
Menopause  
Metabolic Syndrome  
Mood Disorders  
Multiple Sclerosis  
Multiple system atrophy (MSA)  
Neuropathy (all types)  
neuropsychiatric disorders (PANDAS, PANS)  
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic  
NonCeliac Gluten Sensitivity  
Obesity  
obsessive-compulsive disorder  
Osteoarthritis  
Osteoporosis  
Parkinson's Disease  
Postural orthostatic tachycardia syndrome  
Premenstrual dysphoric disorder

**Psoriasis**  
**rheumatoid arthritis (RA), Spondyloarthritis (SpA)**  
**Rosacea**  
**Schizophrenia**  
**Sjögren syndrome**  
**Sleep Apnea**  
**Small Intestinal Bacterial Overgrowth (SIBO)**  
**Stress / posttraumatic stress disorder**  
**Systemic Lupus Erythematosus**  
**Tic Disorder**  
**Tourette syndrome**  
**Type 1 Diabetes**  
**Type 2 Diabetes**  
**Ulcerative colitis**  
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