

Microbiome Information for: Primary sclerosing cholangitis

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

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Primary sclerosing cholangitis

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
Alphaproteobacteria	class	High	28211	Rothia	genus	High	508215
Bacteroidia	class	High	200643	Ruminococcus	genus	Low	1263
Fusobacteriia	class	High	203490	Streptococcus	genus	High	1301
Gammaproteobacteria	class	High	1236	Succinivibrio	genus	Low	83770
Christensenellaceae	family	Low	990719	Veillonella	genus	High	29465
Lachnospiraceae	family	Low	186803	Eubacteriales	order	Low	186802
Sphingomonadaceae	family	High	41297	Hyphomicrobiales	order	High	356
Anaerostipes	genus	Low	207244	Lactobacillales	order	High	186826
Bacteroides	genus	High	816	Anaerostipes hadrus	species	Low	649756
Blautia	genus	Low	572511	Blautia obeum	species	Low	40520
Coprococcus	genus	Low	33042	Coprococcus catus	species	Low	116085
Desulfovibrio	genus	Low	872	Enterococcus faecium	species	High	1352
Enterococcus	genus	High	1350	Enterococcus gallinarum	species	High	1353
Faecalibacterium	genus	Low	216851	Faecalibacterium prausnitzii	species	Low	853
Fusobacterium	genus	High	848	Klebsiella pneumoniae	species	High	573
Haemophilus	genus	High	724	Mediterraneibacter gnavus	species	Low	33038
Holdemanella	genus	Low	1573535	Parabacteroides distasonis	species	Low	823
Lachnospirillum	genus	Low	1506553	Proteus mirabilis	species	High	584
Lactobacillus	genus	High	1578	Streptococcus parasanguinis	species	High	1318
Phascolarctobacterium	genus	Low	33024	Veillonella dispar	species	High	39778
Rothia	genus	High	32207	Veillonella parvula	species	High	29466

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.

Abstention from eating {Fasting}	high-saturated fat diet
a-Gluco-oligosaccharides {GOS}	lactobacillus acidophilus {L. acidophilus} 20 BCFU/day
amaranthus {amaranth}	Lactose {Milk Sugar}
Avena sativa {Oats}	laminaria digitata {Oarweed}
bacillus subtilis {B.Subtilis} 10 BCFU/day	Malus domestica {apple}
bifidobacterium bifidum {B. bifidum} 1.BCFU/day	Mannan oligosaccharides {Mannooligosaccharide} 8 gram/day
Bovine Milk Products {Dairy}	methiazole,(prescription)
Camellia Linnaeus {camellia}	oligosaccharides {oligosaccharides}
candida albicans (prescription)	polyphenols 3 gram/day
d-galactose {milk sugar}	proton-pump inhibitors (prescription) 60 mg/day
Enterococcus faecalis {Streptococcus faecalis}	pseudo-cereals {amaranth,quinoa, taro,buckwheat}
Ethyl alcohol {Grain alcohol}	raffinose {sugar beet}
Fagopyrum esculentum {Buckwheat}	red wine 250 ml/day
Fermented Brassica oleracea {Sauerkraut}	red wine polyphenols 600 mg/day
Fiber, total dietary	resveratrol-pterostilbene {grapes, blueberries} 2 gram/day
Grape Polyphenols {Grape Flavonoids}	resveratrol-pterostilbene x Quercetin {quercetin x resveratrol}
grapes	Sesamum indicum {Sesame}
henopodium quinoa {Quinoa}	Slow digestible carbohydrates. {Low Glycemic}
high-fat diets	synthetic disaccharide derivative of lactose {Lactulose}
High-protein diet {Atkins low-carbohydrate diet}	Tobacco consumption {Smoking}
	β -lactoglobulin {Whey} 60 gram/day

Retail Probiotics

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

genestra brands® hm
 HMF Intensive
 Bromatech (IT) / Acronelle
 shin biofermin (jp) /s
 spain (es) / profaes4 viajeros
 HMF Metabolic
 spain (es) / profaes4 edad escolar
 HMF Forte
 speer labs / emuaid first defense
 HMF IBS Relief
 gnc / ultra probiotic complex
 natren / healthy trinity probiotic
 powerlabs (au) / ultra blend
 trubiotics / one a day
 Bulk Probiotics / L. Acidophilus Probiotic Powder
 solgar / advanced acidophilus plus
 Energybalance / ColoBiotica 28 Colon Support
 custom probiotics / b. lactis & b. bifidum probiotic powder
 microbiome labs /hu58
 anabolic laboratories / probiotic complete
 Bromatech (IT) / Milonet
 natren / bifido factor
 NaturalPharma / Profit Probiotics
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 quality health (au) / fridge free* probiotic 60s
 Metabolics / Bifidobacterium Bifidum Powder
 Bromatech (IT) / Adomelle
 nature's way (au) / restore probiotic choc balls 60s
 Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support
 optibac / for every day max
 FloraVantage® Balance
 Thryve LPCasei Th1, LPCasei Th2,L.Ferm IBF1, Lacidoph
 ferring / vsl#3
 bioglan bio (au/ happy probiotic 25
 Metabolics / Lactobacillus Acidophilus
 Schwabe Pharma Italia / EnteroDophilus
 UltraFlora® Restore
 Nature's Bounty / Acidophilus Probiotic
 bioglan (au) / healthy kids probiotic choc balls 50s
 Prescript-Assist®/SBO Probiotic
 solgar / advanced 40+ acidophilus
 Bulk Probiotics / B. Bifidum Probiotic Powder (Anxiety Support)
 amy meyers / primal earth probiotic
 Jetson / Gut Prep
 UltraFlora® Balance
 INVIVO THERAPEUTICS / Bio.Me IB +
 CustomProbiotics.com / L. Acidophilus Probiotic Powder
 quality health(au)/ fridge free probiotic 25b
 bayer / trubiotics daily probiotic
 SuperSmart / Bacillus Subtilis
 customprobiotics.com / B. Bifidum Probiotic Powder
 Bulk Probiotics / Bacillus Subtilis Probiotic
 natren / megadophilus
 VSL Pharmaceuticals / Oxadrop

PharmExtracta (IT) / FG5 Forte In Sachets
aor / probiotic-3
solgar / advanced multi-billion dophilus
Bromatech (IT) / Aflugenex
Bromatech (IT) / Piloorex
Maple Life Science™ / Bifidobacterium Bifidum

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.

(2->1)-beta-D-fructofuranan {Inulin}	Lactacaseibacillus casei {L. casei}
allium sativum {garlic}	Lactacaseibacillus rhamnosus {l. rhamnosus}
amoxicillin [CFS]	low protein diet
ampicillin [CFS]	Menta × piperita {peppermint}
Ayurvedic herbal formula {Triphala}	meropenem
Azadirachta indica {Neem}	minocycline [CFS]
benzylpenicillin sodium (antibiotic)	Ocimum tenuiflorum {Tulsi}
bifidobacterium	Pentahydroxypentane {Xylitol}
bifidobacterium longum {B.Longum }	piperacillin-tazobactam
Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}	Propolis {Bee glue}
Cinnamomum zeylanicum {Ceylon Cinnamon}	resistant starch
ciprofloxacin [CFS]	Rheum × hybridum {Rhubarb}
Diferuloylmethane {Curcumin}	Saccharomyces cerevisiae var boulardii {S. boulardii}
gentamicin	Sodium Chloride {Salt}
Hericium erinaceus {Lion's Mane Mushroom }	syzygium aromaticum {clove}
Heyndrickxia coagulans {B. coagulans}	Thymus vulgaris {thyme}
imipenem	vitamin d
	walnuts

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