

Microbiome Information for: primary biliary 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/>)

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

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of primary biliary 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
Coriobacteria	class	High	84998	Dorea	genus	High	189330
Deltaproteobacteria	class	Low	28221	Enterococcus	genus	High	1350
Acidaminococcaceae	family	Low	909930	Eubacterium	genus	High	1730
Bifidobacteriaceae	family	High	31953	Faecalibacterium	genus	Low	216851
Chitinophagaceae	family	High	563835	Fusobacterium	genus	Low	848
Comamonadaceae	family	High	80864	Gemmiger	genus	Low	204475
Enterococcaceae	family	Low	81852	Granulicatella	genus	Low	117563
Gracilibacteraceae	family	High	541019	Lactobacillus	genus	High	1578
Lachnospiraceae	family	High	186803	Prevotella	genus	High	838
Muribaculaceae	family	High	2005473	Pseudomonas	genus	High	286
Oscillospiraceae	family	Low	216572	Rothia	genus	Low	508215
Peptostreptococcaceae	family	Low	186804	Streptococcus	genus	High	1301
Pirellulaceae	family	High	2691357	Veillonella	genus	High	29465
Ruminococcaceae	family	Low	541000	Bacillales	order	Low	1385
Sphingomonadaceae	family	High	41297	Bifidobacteriales	order	High	85004
Veillonellaceae	family	High	31977	Coriobacteriales	order	High	84999
Acidaminococcus	genus	High	904	Lactobacillales	order	High	186826
Actinomyces	genus	Low	1654	Selenomonadales	order	High	909929
Campylobacter	genus	High	194	Bacteroides uniformis	species	Low	820
Clostridium	genus	Low	1485	Clostridium sporogenes	species	Low	1509
Collinsella	genus	Low	102106	Pichia kudriavzevii	species	High	4909

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}	1.5 gram/day	Lactobacillus plantarum {L. plantarum}	60 BCFU/day
(2->1)-beta-D-fructofuranan {Inulin}	32 gram/day	Lactose {Milk Sugar}	
3,3',4',5,7-pentahydroxyflavone {Quercetin}	2 gram/day	Ligilactobacillus salivarius {L. salivarius}	9 BCFU/day
Amorphophallus konjac {Konjaku flour}		Limosilactobacillus fermentum {L. fermentum}	12 BCFU/day
Avena sativa x Hordeum vulgare {barley,oat}		Limosilactobacillus reuteri {L. Reuteri}	22 BCFU/day
bacillus licheniformis {b. licheniformis}	10 BCFU/day	long-term, moderate-intensity exercise {exercise}	
Bifidobacterium animalis {B. animalis}		Mannan oligosaccharides {Mannooligosaccharide}	8 gram/day
Bovine Milk Products {Dairy}		Morus {Mulberry }	
dietary fiber		oligosaccharides {oligosaccharides}	
D-ribofuranoside {Ribose}	10 gram/day	Outer Layers of Triticum aestivum {Wheat Bran}	
Fagopyrum esculentum {Buckwheat}		polyphenols	3 gram/day
Fiber, total dietary		proton-pump inhibitors (prescription)	60 mg/day
fructo-oligosaccharides	15 gram/day	Prunus dulcis {Almonds}	90 gram/day
fruit		pseudo-cereals {amaranth,quinoa, taro,buckwheat}	
fruit/legume fibre		raffinose {sugar beet}	
Hordeum vulgare {Barley}	60 gram/day	Rheum x hybridum {Rhubarb}	
Human milk oligosaccharides (prebiotic, Holigos, Stachyose)	2 gram/day	Slow digestible carbohydrates. {Low Glycemic}	
Lactocaseibacillus casei {L. casei}	48 BCFU/day	Sulforaphane {Dark Greens}	
Lactocaseibacillus paracasei {L.paracasei}	40 BCFU/day	synthetic disaccharide derivative of lactose {Lactulose}	
Lactocaseibacillus rhamnosus {l. rhamnosus}	48 BCFU/day	wheat	
lactobacillus acidophilus {L. acidophilus}	20 BCFU/day	whole-grain diet	
lactobacillus paracasei,lactobacillus acidophilus,bifidobacterium animalis		yogurt	
		β-lactoglobulin {Whey}	60 gram/day

Retail Probiotics

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

SuperSmart / Full Spectrum Probiotic Formula
Garden of Life / Dr. Formulated Once Daily Women's
hyperbiotics / pro-15
newrhythm / probiotics 20 strains
Wholesome Wellness / Raw Probiotic
Lake Avenue Nutrition / Probiotics 10 Strain Blend
Advanced Bio-Cultures / Advance Multi Strain Probiotics
elixa / probiotic
bioray / cytoflora
renew life / ultimate flora
bioglan bio (au) / happy probiotic 100
garden of life / primal defense
7 AM Ultra Probiotics
quantum wellness / restora flora
Physician Choice /60 Billion Probiotics
seed / female version
jarrow formulas / jarro-dophilus® ultra
organic 3 / primal gut
OMNI-BIOTIC®/ TRAVEL
vinco / probiotic eight 65
Physis / Advance Probiotics
Dr. Mercola / Complete Probiotics
OMNI-BIOTIC®/ 10 AAD
nature's bounty / probioti 10
MegaFood / MegaFlora
solaray / microbiome probiotic colon formula
bioglan bio (au) / happy probiotic 50
Northwest Natural Products / PB8
naturopathica (au) / gastrohealth probiotic dairy free 50 billion
Probiotic 10 Billion Active Cells Daily Maintenance
renew life men's probiotic - ultimate
douglas laboratories / multi probiotic 40 billion
up4 / ultra
fürstenmed / lacto-bifido
Winclove Probiotics / Ecologic®825
ASEA VIA / BIOME
udo's choice /super 8 gold
naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
jarrow formula / jarro-dophilus original
HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
custom probiotics / four strain lactobacilli
Jetson (US) / Immunity Probiotics
jamieson (can) / probiotic 10 bcfu
SuperSmart / Vaginal Health
Sash Vitality /Bio-Cultures Probiotics for Adults
bravo europe / starter and complex
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
custom probiotics / six strain probiotic powder
bravo europe / freeze-dried bravo
seed / male version
Wakunaga / Max Probiotic
Invivo / Bio.Me Femme UT
young living/life 9
NOW FOODS / Clinical GI Probiotic

Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 ecology_allergycare
 blackmore (au) / probiotics+ daily health
 HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS
 up4 / women's
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 Nu U (uk) / Bio-Cultures Complex
 SuperSmart / Oral Health
 ISCON Elegance/ Ochek Capsule 10
 just for tummies / live bacteria
 SuperSmart / Derma Relief
 Bioflora(MX) / Woman
 fairvital / microflora basic
 naturopathica (au) / gastrohealth women's probiotic with cranberry
 lifted naturals / mood boosting probiotic
 HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
 Symprove™
 optibac / for every day
 SuperSmart / Probio Forte
 klair labs / target gb-x
 jarro formulas / jarro-dophilus eps
 nature's way (au) / restore probiotic bowel & colon health 30s
 visbiome
 ferring / vsl#3
 Resbiotic / resB® Lung Support
 Thryve L.PCasei Th1, L.PCasei Th2, L.Ferm IBF1, Lacidoph
 spain (es) / vivomixx
 SuperSmart / Lactoxira
 Bromatech (IT) / Psicobrain
 SuperSmart / Candalb
 Bromatech(IT) / FEMELLE
 zint nutrition / probiotic collagen +
 Krauterhaus / Lactopro
 bio-k+
 blackmores (au) / probiotics + adults daily (90 capsules)
 Swiss BioEnergetics / Full Spectrum Probiotic Defence
 Bromatech (IT) / Rotanelle plus
 Immune Defense Daily Chewable Probiotic
 Smidge / Sensitive Probiotic
 Bromatech (IT) / Aflugenex
 solgar / advanced multi-billion dophilus
 nature's way (au) / restore probiotic daily health 90s
 up4 / adult
 Ombre / Restore
 Bromatech (IT) / Acronelle
 HLH BIOPHARMA(DE) / LACTOBACT ® AAD
 naturopathica (au) / gastrohealth probiotic adults 50+
 ProbioMax® Daily DF
 JGL / Lactogyn
 jarro formulas / fem dophilus
 jarro formulas / bifidus balance® + fos
 custom probiotics / d-lactate free probiotics powder
 Ombre / Mood Enhancer
 spain (es) / aquilea intimus
 optibac / for those on antibiotics
 blackmore (au) / probiotics+ eczema relief
 naturopathica (au) / gastrohealth fibrepro
 Schwabe Pharma Italia / EnteroDophilus

UltraFlora® Restore
organic 3 / gutpro
blackmore (au) / probiotics+ womens flora balance
Seeking Health / Probiota HistaminX
solgar / advanced 40+ acidophilus
jarrow formula / ideal bowel support® lp299v®
Bromatech (IT) / Citogenex
Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support
cytoplan(uk) / dentavital bifidophilus
Bromatech (IT) / Milonet
UltraFlora® Immune Booster
CVSHealth / Daily Probiotic
RepHresh / Pro-B Probiotic Supplement for Women
Ombre / Harmony
Bromatech (IT) / Adomelle
HMF Metabolic
blackmores (au) / probiotics+ immune defence
Biorela® Daily
Bromatech (IT) / Ramnoselle
ImmuneBiotech Medical Sweden AB / GutMagnific®
NaturalPharma / Profit Probiotics
jarrow formulas / fem-dophilus®
optibac / for women
nature's way (au) / restore probiotic 30 billion 30s
SuperSmart / H. Pylori Fight
wakamoto (jp) / strong wakamoto w
HMF IBS Relief
BioGaia / BioGaia Osfortis
Wakunaga / Pro+ Synbiotic
Pädia GmbH (DE)/Mambiotic Kapseln
quality health (au) / fridge free* probiotic 60s
Floradapt Cardio
speer labs / emuaid first defense
solgar / advanced acidophilus plus
UltraFlora® Intensive Care
spain (es) / ns florabiotic instant
Bulk Probiotics / L. Reuteri Probiotic Powder
natren / healthy trinity probiotic
Purica Probiotic Cardio
Bulk Probiotics / L. Acidophilus Probiotic Powder
spain (es) / lactanza hereditum
gnc / ultra probiotic complex
naturopathica (au)/ gastrohealth probiotic daily care
Metabolics / Lactobacillus Salivarius Powder
CustomProbiotics.com / L. Plantarum Probiotic Powder
Bulk Probiotics / L. Paracasei Probiotic Powder
Maple Life Science™ / Lactobacillus salivarius
danactive drink
Bulk Probiotics / L. Salivarius Probiotic Powder
PharmExtracta (IT) / INatal Sachets
CustomProbiotics.com / L. Reuteri Probiotic Powder
jarrow formulas / jarro-dophilus mood
spain (es) / profaes4 edad escolar
anabolic laboratories / probiotic complete
BioGaia / Elactia
Energybalance / ColoBiotica 28 Colon Support
HMF Forte
optibac / bifidobacteria & fibre

nature's way (au) / restore probiotic choc balls 60s
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
powerlabs (au) / ultra blend
trubiotics / one a day
Maple Life Science™ / Lactobacillus plantarum
Maple Life Science™ / Lactobacillus reuteri
spain (es) / gum periobalance
Jetson (US) / Mood Probiotics
Bulk Probiotics / L Casei Probiotic Powder (Candida Support)
Ombre / Heart Health
BioGaia / BioGaia Products
spain (es) / profaes4 viajeros
spain (es) / casenbiotic
FloraVantage® Balance
Maple Life Science™ / Lactobacillus fermentum
optibac / for every day max
goodbelly drink
Bulk Probiotics / L Rhamnosus Probiotic Powder
spain (es) / reuteri gotas
Nature's Bounty / Acidophilus Probiotic
bioglan (au) / healthy kids probiotic choc balls 50s
naturopathica (au) / gastrohealth antacid
CustomProbiotics.com / L. Salivarius Probiotic Powder
SuperSmart / Lactobacillus reuteri
Microbiome Plus+™ Gastrointestinal
Microbiome Labs / MEGA Genesis
Metabolics / Lactobacillus Acidophilus
CustomProbiotics.com / L. Rhamnosus Probiotic Powder
spain (es) / ns defenbiotic kids
Materna® Opti-Lac® Breast Feeding Support
shin biofermin (jp) /s
Good Start® by Gerber® Breastfeeding Comfort Plus Probiotics
UltraFlora® Balance
bioglan bio (au/ happy probiotic 25
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
Bulk Probiotics / L. Plantarum Probiotic Powder
spain (es) / I3.1
bayer / trubiotics daily probiotic
Purica Probiotic Intensive GI
quality health(au)/ fridge free probiotic 25b
optibac / for your cholesterol
genestra brands® hm
reg'activ / immune & vitality
ProGoes® Forte
CustomProbiotics.com / L. Acidophilus Probiotic Powder
Ombre / Ultimate Immunity
Floradapt Gut Comfort
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
HMF Intensive
Nature's Lab Intensive GI
Metabolics / Lactobacillus Rhamnosus Powder
spain (es) / gastrus
CustomProbiotics.com / L. Paracasei Probiotic Powder
optibac / for daily immunity
CustomProbiotics.com / L. Casei Probiotic Powder
Botica Alternativa / Lactobacilos Reuteri
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio

Bromatech (IT) / Pimorex
spain (es) / muvagyn probiotico
natren / megadophilus
Pregnancy Care Probiotic
VSL Pharmaceuticals / Oxadrop
Bulk Probiotics / L. Fermentum Probiotic Powder
PharmExtracta (IT) / FG5 Forte In Sachets

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.

acetylsalicylic acid,aspirin	low protein diet
amoxicillin [CFS]	meropenem
ampicillin [CFS]	nicotinic acid {Vitamin B-3}
Azadirachta indica {Neem}	piperacillin-tazobactam
benzylpenicillin sodium (antibiotic)	Polydextrose {polydextrose}
bifidobacterium pseudocatenulatum {B. pseudocatenulatum }	resistant starch
bifidobacterium pseudocatenulatum li09,bifidobacterium	Riboflavin {Vitamin B2}
catenulatum li10	rifaximin
Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}	Saccharomyces cerevisiae var boulardii {S. boulardii}
ciprofloxacin [CFS]	Sodium Bicarbonate {Baking Soda}
Disodium fumarate {Fumaric acid disodium salt}	Sus domesticus {Pork}
enterococcus durans {Streptococcus durans}	terpenophenolics {cannabinoids}
Finnish Probiotic {Valio Probiotic}	Thymus vulgaris {thyme}
gentamicin	Vaccinium {Cranberry}
Heyndrickxia coagulans {B. coagulans}	vegetarians
High-protein diet {Atkins low-carbohydrate diet}	vitamin d
imipenem	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

The following are the most significant of the studies used to generate these suggestions.

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Microbes and infection , 2024 May 24

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[Association between gut microbiota and autoimmune cholestatic liver disease, a Mendelian randomization study.](#)

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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

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