

Microbiome Information for: Liver Cirrhosis

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/>)

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 Liver Cirrhosis

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	Gordonibacter	genus	High	644652
Akkermansiaceae	family	Low	1647988	Hungatella	genus	Low	1649459
Chlamydiaceae	family	High	809	Klebsiella	genus	High	570
Enterobacteriaceae	family	High	543	Lactobacillus	genus	Low	1578
Lachnospiraceae	family	High	186803	Leuconostoc	genus	Low	1243
Lactobacillaceae	family	Low	33958	Marvinbryantia	genus	Low	248744
Microbacteriaceae	family	High	85023	Megamonas	genus	High	158846
Porphyromonadaceae	family	High	171551	Methanobrevibacter	genus	High	2172
Rhodospirillaceae	family	High	41295	Odoribacter	genus	High	283168
Actinomyces	genus	Low	1654	Oxalobacter	genus	High	846
Adlercreutzia	genus	High	447020	Parabacteroides	genus	High	375288
Agathobacter	genus	High	1766253	Paraprevotella	genus	High	577309
Akkermansia	genus	Low	239934	Parvimonas	genus	High	543311
Anaerostipes	genus	High	207244	Porphyromonas	genus	High	836
Bacteroides	genus	Low	816	Pyramidobacter	genus	High	638847
Bilophila	genus	Low	35832	Ralstonia	genus	High	48736
Blautia	genus	High	572511	Slackia	genus	Low	84108
Butyrivibrio	genus	Low	574697	Solobacterium	genus	High	123375
Butyrivibrio	genus	High	830	Staphylococcus	genus	High	1279
Catenibacterium	genus	Low	135858	Streptococcus	genus	High	1301
Chlamydia	genus	High	810	Subdoligranulum	genus	High	292632
Citrobacter	genus	High	544	Sutterella	genus	High	40544
Clostridium	genus	Low	1485	Turicibacter	genus	Low	191303
Coprobacillus	genus	High	100883	Veillonella	genus	High	29465
Coprobacter	genus	Low	1348911	Bacillales	order	High	1385
Desulfovibrio	genus	High	872	Rhodospirillales	order	High	204441
Dorea	genus	High	189330	Akkermansia muciniphila	species	Low	239935
Eggerthella	genus	High	84111	Bacteroides fragilis	species	High	817
Enterobacter	genus	High	547	Clostridium paraputrificum	species	High	29363
Enterococcus	genus	High	1350	Escherichia coli	species	High	562
Erysipelatoclostridium	genus	Low	1505663	Eubacterium coprostanoligenes	species	High	290054
Escherichia	genus	High	561	Roseburia hominis	species	High	301301
Eubacterium	genus	High	1730	Staphylococcus aureus	species	High	1280
Faecalibacterium	genus	Low	216851	Streptococcus salivarius	species	High	1304
Gemella	genus	Low	1378	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.

2-aminoacetic acid {glycine} 15 gram/day

cholic,taurocholic ,chenodeoxycholic,glycocholic acids {Bile supplements}

Dextrin 40 gram/day

D-ribofuranoside {Ribose} 10 gram/day

Ethyl alcohol {Grain alcohol}

Ferum {Iron Supplements} 400 mg/day

Lactose {Milk Sugar}

long-term, moderate-intensity exercise {exercise}

Outer Layers of Triticum aestivum {Wheat Bran}

Prunus dulcis {Almonds} 90 gram/day

Rheum × hybridum {Rhubarb}

Sodium Chloride {Salt}

synthetic disaccharide derivative of lactose {Lactulose}

Vsl#3 {Visibiome}

walnuts 75 gram/day

wheat

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}
 3,3',4',5,7-pentahydroxyflavone {Quercetin}
 allium sativum {garlic}
 Azadirachta indica {Neem}
 Bifidobacterium animalis subsp. lactis {B. Lactis}
 Cinnamomum zeylanicum {Ceylon Cinnamon}
 Curcuma longa {Turmeric}
 D-(-)-Fructose {Fruit sugar}
 Diferuloylmethane {Curcumin}
 Epicatechin {Green tea polyphenol}
 fruit
 fruit/legume fibre
 Grape Polyphenols {Grape Flavonoids}
 grapes
 green tea
 Honey {Honey }

Lactocaseibacillus casei {L. casei}
 Lactobacillus plantarum {L. plantarum}
 Menta × piperita {peppermint}
 Metha family {Mint}
 oligosaccharides {oligosaccharides}
 organum vulgare {oregano}
 pectin {pectin}
 polyphenols
 Propolis {Bee glue}
 Punica granatum {pomegranate}
 resveratrol-pterostilbene x Quercetin {quercetin x resveratrol}
 rosmarinus officinalis {rosemary}
 β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine
 {Chitosan}
 Thymus vulgaris {thyme}
 yogurt
 Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Additional sources and private correspondance**Private Correspondance , Volume: 1 Issue: 2018**Effects of probiotic administration upon the composition and enzymatic activity of human fecal microbiota in patients with irritable bowel syndrome or functional diarrhea**Research in Microbiology , Volume: 152 Issue: 8 2001 Oct***Authors Patrizia Brigdia, Beatrice Vitalia, Erwin Swennena, Gabriele Bazzocchib, Diego Matteuzzia*Effects of probiotic Enterococcus faecium NCIMB 11181 administration on swine fecal microbiota diversity and composition using barcoded pyrosequencing**Animal Feed Science and Technology , Volume: 201 2015 Mar***Authors Edward Alain B. Pajarillo, Dae-Kyung Kang, Chan-Soo Park, Hyeun Bum Kim, Marilen P Balolong*Curated database of commensal, symbiotic and pathogenic microbiota**Generative Bioinformatics , Volume: Issue: 2014 Jun***Authors D'Adamo Peter*Curcumin consumption reduces gut microbial diversity among patients with colorectal adenomas**The FASEB Journal , Volume: 26 Issue: 1 2012 Apr 1***Authors April McLauchlin, Felix Araujo-Perez, Nikki McCoy, Kevin Smith, Bob Sandler, Gary Asher, Temitope Keku*

Additional APriori Analysis Available

Available at: <https://microbiomeprescription.com/Library/PubMed>

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
liver fibrosis
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