

Microbiome Information for: Liver Cirrhosis

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 *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

Email: Research@MicrobiomePrescription.com

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
Enterobacteriaceae	family	High	543	Gordonibacter	genus	High	644652
Adlercreutzia	genus	High	447020	Klebsiella	genus	High	570
Bacteroides	genus	Low	816	Lactobacillus	genus	Low	1578
Blautia	genus	High	572511	Leuconostoc	genus	Low	1243
Butyricoccus	genus	Low	580596	Megamonas	genus	High	158846
Butyricimonas	genus	Low	574697	Methanobrevibacter	genus	High	2172
Butyrivibrio	genus	High	830	Odoribacter	genus	High	283168
Catenibacterium	genus	Low	135858	Oxalobacter	genus	High	846
Citrobacter	genus	High	544	Parabacteroides	genus	High	375288
Coprobacillus	genus	High	100883	Paraprevotella	genus	High	577309
Coprobacter	genus	Low	1348911	Parvimonas	genus	High	543311
Desulfovibrio	genus	High	872	Porphyromonas	genus	High	836
Enterobacter	genus	High	547	Pyramidobacter	genus	High	638847
Enterococcus	genus	High	1350	Slackia	genus	Low	84108
Escherichia	genus	High	561	Solobacterium	genus	High	123375
Fusobacterium	genus	High	848	Turidibacter	genus	Low	191303
Gemella	genus	Low	1378	Staphylococcus aureus	species	High	1280

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.

acriflavin (prescription)
 a-glucosidase inhibitors
 alcoholic beverages
 animal-based diet
 aspartame (sweetner)
 beef
 bifidobacterium pseudocatenulatum,(probiotics)
 catecholamines (polyphenol)
 cefoxitin (antibiotic)s
 cephamycin (antibiotic)s
 chemotherapy (prescription)
 colinfant e.coli probiotics
 cvs maximum strength probiotic
 Dandelion
 Dextrin 40 gram/day
 dibekacin (antibiotic)s
 Feric citrate
 fluorine
 fruit/legume fibre
 GABA 6 gram/day
 General Biotics Equilibrium
 gluten-free diet
 glycylicline (antibiotic)s
 Goji (berry,juice)
 green-lipped mussel
 helminth infection (prescription)
 high salt
 iron 400 mg/day
 isepamicin (antibiotic)s
 lactobacillus gasseri (probiotics) 10 BCFU/day
 lactulose
 l-glutamic acid
 lividomycin (antibiotic)s
 l-proline
 l-serine
 macrolide ((antibiotic)s)
 mannoiligosaccharide (prebiotic) 8 gram/day
 navy bean
 netilmicin (antibiotic)s
 non-starch polysaccharides
 penicillin-moxalactam (antibiotic)s
 proton-pump inhibitors (prescription) 60 mg/day
 red alga Laurencia tristicha
 rifampicin (antibiotic)s
 salt (sodium chloride)
 sodium butyrate
 sucralose 340 mg/day
 sulfonamide (antibiotic)s
 symbioflor 2 e.coli probiotics
 Tudca
 vitamin a 25000 IU/day
 Vitamin B9,folic acid 5 mg/day

Retail Probiotics

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

symbiopharm / symbioflo 2
spain (es) / muvagyn probiotico
philips / colon health
wakamoto (jp) / wakamoto pharmaceutical intestinal drug
CustomProbiotics.com / L. Gasseri Probiotic Powder
SuperSmart / Lactobacillus Gasseri

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.

amikacin (antibiotic)s
amoxicillin (antibiotic)s[CFS]
ampicillin (antibiotic)s[CFS]
benzylpenicillin sodium (antibiotic)
cinnamon (oil, spice)
ciprofloxacin (antibiotic)s[CFS]
clostridium butyricum (probiotics),Miya,Miyarisan
Curcumin
fluoroquinolone (antibiotic)s
foeniculum vulgare,fennel

gentamicin (antibiotic)s
imipenem (antibiotic)s
lactobacillus plantarum (probiotics)
lactobacillus reuteri (probiotics)
oregano (origanum vulgare, oil) |
piperacillin-tazobactam (antibiotic)s
syzygium aromaticum (clove)
thyme (thymol, thyme oil)
trimethoprim (antibiotic)s
triphala
vancomycin (antibiotic)[CFS]

Sample of Literature Used

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Acne
ADHD
Allergic Rhinitis (Hay Fever)
Allergies
Alopecia (Hair Loss)
Alzheimer's disease
Amyotrophic lateral sclerosis (ALS) Motor Neuron
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

Unhealthy Ageing