

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 believed 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 is 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

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

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

Dextrin 40 gram/day

D-ribofuranoside {Ribose} 10 gram/day

Ferrum {Iron Supplements} 400 mg/day

Lactose {Milk Sugar}

long-term, moderate-intensity exercise {exercise}

Prunus dulcis {Almonds} 90 gram/day

Saccharomyces cerevisiae var boulardii {S. boulardii} 6 BCFU/day

Sodium Chloride {Salt}

synthetic disaccharide derivative of lactose {Lactulose}

walnuts 75 gram/day

Retail Probiotics

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

microbiome labs / restorflora
Bromatech (IT) / Enterelle
florastor / florastor
imagilin / NutriLots Replenish
optibac / saccharomyces boulardii
spain (es) / ultralevura
organic 3 / yeastbiotic
Bromatech / ENTERELLE PLUS
SuperSmart / Saccharomyces Boulardii
Schwabe Pharma Italia / AxiBoulardi
Ombre / Metabolic Booster
spain (es) / axiboulardi
Eden's / 3-in-1 Synbiotic Superblend
Bulk Probiotics / Saccharomyces boulardii Probiotic Powder (Digestive Support)
nature's instincts / ultra spore probiotic

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}	grapes
3,3',4',5,7-pentahydroxyflavone {Quercetin}	green tea
allium sativum {garlic}	Honey {Honey }
Ayurvedic herbal formula {Triphala}	Lacticaseibacillus casei {L casei}
Azadirachta indica {Neem}	Lactobacillus plantarum {L plantarum}
bacillus	oligosaccharides {oligosaccharides}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	origanum vulgare {oregano}
Bifidobacterium animalis subsp. lactis {B. Lactis}	pectin {pectin}
bifidobacterium bifidum {B. bifidum}	polyphenols
Cinnamomum zeylanicum {Ceylon Cinnamon}	Propolis {Bee glue}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	Punica granatum {pomegranate}
Curcuma longa {Turmeric}	resveratrol-pterostilbene x Quercetin {quercetin x resveratrol}
Diferuloylmethane {Curcumin}	rosmarinus officinalis {rosemary}
Epicatechin {Green tea polyphenol}	β (1?4)-linked D-glucosamine and N-acetyl-D-glucosamine
fruit	{Chitosan}
fruit/legume fibre	syzygium aromaticum {clove}
fucoidan {Brown Algae Extract}	Thymus vulgaris {thyme}
Grape Polyphenols {Grape Flavonoids}	yogurt
	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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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

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-Hlactic 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