

Microbiome Information for: cystic fibrosis

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

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of cystic fibrosis

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
Oscillospiraceae	family	Low	216572	Melissococcus	genus	Low	33969
Bacteroides	genus	Low	816	Mycobacterium	genus	High	1763
Bifidobacterium	genus	Low	1678	Pseudomonas	genus	High	286
Burkholderia	genus	High	32008	Roseburia	genus	Low	841
Enterobacter	genus	High	547	Escherichia coli	species	High	562
Enterococcus	genus	High	1350	Pseudomonas aeruginosa	species	High	287
Escherichia	genus	High	561	Stenotrophomonas maltophilia	species	High	40324
Faecalibacterium	genus	Low	216851	Pseudomonas aeruginosa group	species group	High	136841

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.

Astragalus

bacitracin (antibiotic)

Dandelion

dibekacin (antibiotic)s

dirithromycin (antibiotic)

fluorine

gluten-free diet

grape polyphenols

hydromorphone

iron 400 mg/day

Kimchi

lactobacillus salivarius (probiotics) 9 BCFU/day

Lemon peel

loperamide hydrochloride,(prescription)

low carbohydrate diet

low fodmap diet

METRONIDAZOLE (ANTIBIOTIC)S[CFS]

omidazole (antibiotic)s

Parsley

penicillin-moxalactam (antibiotic)s

pentamidine isethionate,(prescription)

Piperine

proton-pump inhibitors (prescription) 60 mg/day

Red 40

Reishi Mushroom 3.4 gram/day

rhubarb

spectinomycin dihydrochloride (antibiotic)

Sriracha sauce

sucralose 340 mg/day

ymbioflor 2 e.coli probiotics

thiostrepton,(prescription)

troleandomycin (antibiotic)

tylosin,(prescription)

Retail Probiotics

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

symbiopharm / symbioflo 2
Wholesome Wellness / Raw Probiotic
HLH BIOPHARMA(DE) / LACTOBACT ® AAD
Bromatech (IT) / Acronelle
jamieson (can) / probiotic 10 bcfu
Bromatech (IT) / Lautoselle
custom probiotics / d-lactate free probiotics powder
klaire labs / target gb-x
Sash Vitality / Bio-Cultures Probiotics for Adults
SuperSmart / Vaginal Health
bravo europe / starter and complex
CustomProbiotics.com / L. Salivarius Probiotic Powder
bravo europe / freeze-dried bravo
Nu U (uk) / Bio-Cultures Complex
Maple Life Science™ / Lactobacillus salivarius
SuperSmart / Oral Health
wakamoto (jp) / strong wakamoto w
HLH BIOPHARMA(DE) / LACTOBACT ® OMNI FOS
Metabolics / Lactobacillus Salivarius Powder
NOW FOODS / Clinical GI Probiotic
ecology_allergycare

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	inulin (prebiotic)
amoxicillin (antibiotic)s[CFS]	lactobacillus plantarum (probiotics)
ampicillin (antibiotic)s[CFS]	meropenem (antibiotic)s
ceftazidime (antibiotic)s	oregano (origanum vulgare, oil)
ciprofloxacin (antibiotic)s[CFS]	piperacillin-tazobactam (antibiotic)s
gentamicin (antibiotic)s	thyme (thymol, thyme oil)
Human milk oligosaccharides (prebiotic, Holigos, Stachyose)	trimethoprim (antibiotic)s
imipenem (antibiotic)s	vancomycin (antibiotic)[CFS]

Sample of Literature Used

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

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Abdominal Aortic Aneurysm

Acne

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
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
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
Crohn's Disease
cystic fibrosis
deep vein thrombosis
Depression
Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy
erectile dysfunction
Fibromyalgia
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
Halitosis
Hashimoto's thyroiditis
Heart Failure
Hemorrhoidal disease, Hemorrhoids, Piles
Hidradenitis Suppurativa
Histamine Issues
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

Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
Low bone mineral density
Lung Cancer
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
Polycystic ovary syndrome
Postural orthostatic tachycardia syndrome
Premenstrual dysphoric disorder
primary biliary cholangitis
Psoriasis
rheumatoid arthritis (RA), Spondyloarthritis (SpA)
Rosacea
Schizophrenia
scoliosis
sensorineural hearing loss
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