

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 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

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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
Oscillospiraceae	family	Low	216572
Aspergillus	genus	High	5052
Bacteroides	genus	Low	816
Bifidobacterium	genus	Low	1678
Blautia	genus	Low	572511
Burkholderia	genus	High	32008
Enterobacter	genus	High	547
Enterococcus	genus	High	1350
Escherichia	genus	High	561
Faecalibacterium	genus	Low	216851
Melissococcus	genus	Low	33969
Mycobacterium	genus	High	1763
Pandoraea	genus	High	93217

Bacteria Name	Rank	Shift	Taxonomy ID
Pseudomonas	genus	High	286
Roseburia	genus	Low	841
Aspergillus fumigatus	species	High	746128
Bifidobacterium adolescentis	species	Low	1680
Burkholderia cepacia	species	High	292
Escherichia coli	species	High	562
Klebsiella pneumoniae	species	High	573
Mycobacteroides abscessus	species	High	36809
Prevotella melaninogenica	species	High	28132
Pseudomonas aeruginosa	species	High	287
Staphylococcus aureus	species	High	1280
Stenotrophomonas maltophilia	species	High	40324
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.

Ferum [Iron Supplements] 400 mg/day

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}
 amikacin
 ampicillin [CFS]
 Azadirachta indica {Neem}
 Cinnamomum zeylanicum {Ceylon Cinnamon}
 ciprofloxacin [CFS]
 Curcuma longa {Turmeric}
 Cymbopogon citratus {Lemongrass}
 D-(-)-Fructose {Fruit sugar}
 dietary fiber
 Diferuloylmethane {Curcumin}
 Fiber, total dietary
 foeniculum vulgare,fennel
 fruit
 gentamicin

Honey {Honey }
 imipenem
 Lactobacillus plantarum {L. plantarum}
 meropenem
 Ocimum basilicum {Basil}
 organum vulgare {oregano}
 Pimpinella anisum {Anise}
 piperacillin-tazobactam
 Propolis {Bee glue}
 Punica granatum {pomegranate}
 rosmarinus officinalis {rosemary}
 Slow digestible carbohydrates. {Low Glycemic}
 syzygium aromaticum {clove}
 Thymus vulgaris {thyme}
 vancomycin (antibiotic)[CFS]
 Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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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
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Mast Cell Issues / mastitis
ME/CFS with IBS
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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

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