

Microbiome Information for: Biofilm

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/>)

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 Biofilm

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
Haemophilus	genus	High	724	Listeria monocytogenes	species	High	1639
Klebsiella	genus	High	570	Mediterraneibacter gnavus	species	High	33038
Neisseria	genus	High	482	Moraxella catarrhalis	species	High	480
Porphyromonas	genus	High	836	Mycolicibacterium fortuitum	species	High	1766
Pseudomonas	genus	High	286	Mycoplasma pneumoniae	species	High	2104
Staphylococcus	genus	High	1279	Porphyromonas gingivalis	species	High	837
Streptococcus	genus	High	1301	Prevotella melaninogenica	species	High	28132
Veillonella	genus	High	29465	Proteus mirabilis	species	High	584
Acinetobacter baumannii	species	High	470	Pseudomonas aeruginosa	species	High	287
Actinomyces viscosus	species	High	1656	Pseudomonas fluorescens	species	High	294
Aggregatibacter actinomycetemcomitans	species	High	714	Pseudomonas putida	species	High	303
Bacillus cereus	species	High	1396	Saccharomyces cerevisiae	species	High	4932
Bacillus subtilis	species	High	1423	Salmonella enterica	species	High	28901
Bifidobacterium bifidum	species	High	1681	Staphylococcus aureus	species	High	1280
Burkholderia cenocepacia	species	High	95486	Staphylococcus carnosus	species	High	1281
Burkholderia pseudomallei	species	High	28450	Staphylococcus epidermidis	species	High	1282
Candida albicans	species	High	5476	Staphylococcus haemolyticus	species	High	1283
Cronobacter sakazakii	species	High	28141	Streptococcus agalactiae	species	High	1311
Cutibacterium acnes	species	High	1747	Streptococcus mutans	species	High	1309
Enterococcus faecalis	species	High	1351	Streptococcus parasanguinis	species	High	1318
Escherichia coli	species	High	562	Streptococcus pneumoniae	species	High	1313
Fusobacterium nucleatum	species	High	851	Streptococcus sanguinis	species	High	1305
Gardnerella vaginalis	species	High	2702	Tannerella forsythia	species	High	28112
Haemophilus influenzae	species	High	727	Vibrio cholerae	species	High	666
Klebsiella pneumoniae	species	High	573	Yersinia pestis	species	High	632

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

D-ribofuranoside {Ribose} 10 gram/day

Escherichia coli cryodesiccata {colinfant probiotics}

Ferrum {Iron Supplements} 400 mg/day

High-protein diet {Atkins low-carbohydrate diet}

hydromorphone

ketogenic diet

Mycotoxins {Home Dampness}

proton-pump inhibitors (prescription) 60 mg/day

Sleep apnea {partial sleep deprivation}

synthetic disaccharide derivative of lactose {Lactulose}

Titanium Dioxide {E171}

Tobacco consumption {Smoking}

Under cooked animal protein {Rare meat}

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}
 amoxicillin [CFS]
 ampicillin [CFS]
 Azadirachta indica {Neem}
 Cinnamomum zeylanicum {Ceylon Cinnamon}
 ciprofloxacin [CFS]
 Curcuma longa {Turmeric}
 D-(-)-Fructose {Fruit sugar}
 Diferuloylmethane {Curcumin}
 foeniculum vulgare,fennel
 gentamicin
 Honey {Honey }
 imipenem

Lactobacillus plantarum {L. plantarum}
 meropenem
 Metha family {Mint}
 Moringa Oleifera
 Nigella sativa {black cumin}
 Ocimum basilicum {Basil}
 origanum vulgare {oregano}
 piperacillin-tazobactam
 Propolis {Bee glue}
 Punica granatum {pomegranate}
 rosmarinus officinalis {rosemary}
 syzygium aromaticum {clove}
 Thymus vulgaris {thyme}
 vancomycin (antibiotic)[CFS]
 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-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