

Microbiome Information for: Allergic Rhinitis (Hay Fever)

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

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Allergic Rhinitis (Hay Fever)

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
Actinomycetes	class	Low	1760	[Clostridium] hylemonae	species	High	89153
Lachnospiraceae	family	Low	186803	Acetivibrio straminisolvans	species	Low	253314
Porphyromonadaceae	family	Low	171551	Acidaminococcus intestini	species	High	187327
Ruminococcaceae	family	High	541000	Agathobaculum butyriciproducens	species	Low	1628085
Acetobacter	genus	High	434	Anaerotruncus colihominis	species	High	169435
Acinetobacter	genus	High	469	Bifidobacterium adolescentis	species	Low	1680
Actinomyces	genus	High	1654	Bifidobacterium catenulatum	species	Low	1686
Akkermansia	genus	Low	239934	Bifidobacterium longum	species	Low	216816
Aspergillus	genus	High	5052	Clostridium butyricum	species	Low	1492
Bacteroides	genus	High	816	Coprococcus eutactus	species	Low	33043
Blautia	genus	High	572511	Dialister succinatiphilus	species	Low	487173
Burkholderia	genus	Low	32008	Enterocloster asparagiformis	species	Low	333367
Clostridium	genus	High	1485	Escherichia coli	species	Low	562
Dialister	genus	Low	39948	Eubacterium xylanophilum	species	Low	39497
Dorea	genus	High	189330	Intestinimonas butyriciproducens	species	Low	1297617
Enterobacter	genus	High	547	Lactobacillus iners	species	Low	147802
Enterococcus	genus	High	1350	Mediterraneibacter gnavus	species	High	33038
Escherichia	genus	High	561	Moraxella catarrhalis	species	High	480
Faecalibacterium	genus	Low	216851	Muricomes intestini	species	Low	1796634
Haemophilus	genus	High	724	Murimonas intestini	species	Low	1337051
Halomonas	genus	High	2745	Oscillibacter valericigenes	species	Low	351091
Lactobacillus	genus	Low	1578	Oxalobacter formigenes	species	Low	847
Mycoplasma	genus	High	2093	Phocaeicola massiliensis	species	Low	204516
Parabacteroides	genus	High	375288	Pseudomonas aeruginosa	species	High	287
Prevotella	genus	High	838	Rothia mucilaginosa	species	Low	43675
Pseudomonas	genus	Low	286	Ruminiclostridium papyrosolvans	species	Low	29362
Pyramidobacter	genus	High	638847	Staphylococcus aureus	species	High	1280
Rothia	genus	High	508215	Streptococcus parasanguinis	species	Low	1318
Staphylococcus	genus	High	1279	Streptococcus pneumoniae	species	High	1313
Zoogloea	genus	Low	349	Streptococcus pyogenes	species	High	1314
Bacteroidales	order	High	171549	Sutterella wadsworthensis	species	Low	40545
Pseudomonadales	order	Low	72274	Vibrio vulnificus	species	High	672

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.

Ethyl alcohol {Grain alcohol}

Ferrum {Iron Supplements} 400 mg/day

Glycine max x *Aspergillus oryzae* {Miso}

high-fat diets

ketogenic diet

low fodmap diet

N-(phosphonomethyl)glycine {glyphosate}

Sucralose {Splenda} 340 mg/day

Thiamine {Vitamin B1} 1.8 gram/day

Tobacco consumption {Smoking}

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.

(2->1)-beta-D-fructofuranan {Inulin}	green tea
2-Methyl-5-(1-methylethyl)phenol {Carvacrol}	Honey {Honey }
3,3',4',5,7-pentahydroxyflavone {Quercetin}	Hordeum vulgare {Barley}
allium sativum {garlic}	imipenem
ampicillin [CFS]	Lactacaseibacillus casei {L. casei}
Azadirachta indica {Neem}	Lactobacillus plantarum {L. plantarum}
bacillus	Limosilactobacillus fermentum {L. fermentum}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Moringa Oleifera
Bifidobacterium animalis subsp. lactis {B. Lactis}	oligosaccharides {oligosaccharides}
bifidobacterium bifidum {B. bifidum}	origanum vulgare {oregano}
Bovine Milk Products {Dairy}	Pimpinella anisum {Anise}
Cinnamomum zeylanicum {Ceylon Cinnamon}	piperacillin-tazobactam
ciprofloxacin [CFS]	polyphenols
Curcuma longa {Turmeric}	Propolis {Bee glue}
D-(-)-Fructose {Fruit sugar}	Punica granatum {pomegranate}
dietary fiber	rosmarinus officinalis {rosemary}
Diferuloylmethane {Curcumin}	Slow digestible carbohydrates. {Low Glycemic}
Fiber, total dietary	Thymus vulgaris {thyme}
foeniculum vulgare,fennel	vancomycin (antibiotic)[CFS]
fruit	whole-grain diet
fruit/legume fibre	yogurt
gentamicin	Zingiber officinale Roscoe {ginger}

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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
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