

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 have 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 individual's 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 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 intestinalis	species Low	1796634
Haemophilus	genus High	724	Murimonas intestinalis	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}

Sucratose {Splenda} 340 mg/day

Thiamine {Vitamin B1} 18 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]	Lacticaseibacillus 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}

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
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