

Microbiome Information for: Eosinophilic Esophagitis

For non-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 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 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 Eosinophilic Esophagitis

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
Bacteroidia	class	High	200643
Clostridia	class	Low	186801
Actinomyces	genus	Low	1654
Aggregatibacter	genus	High	416916
Corynebacterium	genus	High	1716
Filifactor	genus	Low	44259
Fusobacterium	genus	High	848
Haemophilus	genus	High	724
Parvimonas	genus	Low	<u>543311</u>
Pasteurella	genus	High	745
Porphyromonas	genus	Low	836
Prevotella	genus	High	838
Rothia	genus	Low	508215
Rothia	genus	Low	32207
Streptococcus	genus	Low	1301
Veillonella	genus	Low	29465
Eubacteriales	order	Low	186802
Helicobacter pylori	species	High	210

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.

(2S)-2-amino-4-carbamoylbutanoic acid {Glutamine}	5 gram/day	Litchi chinensis {lychee fruit}
2-Amino-5-(carbamoylamino)pentanoic acid {Citrulline}		Lonicera periclymenum {Epazote}
Abstention from eating {Fasting}		non-starch polysaccharides
Azadirachta indica {Neem}	120 mg/day	oligosaccharides {oligosaccharides}
bacillus subtilis natto {B.natto}		oolong teas
bifidobacterium		origanum vulgare {oregano}
bifidobacterium lactis,streptococcus thermophilus probiotic		partially hydrolysed guar gum
Bifidobacterium longum subsp. longum BB536 {BB536}		pectin {pectin}
chlorhexidine		Phaseolus vulgaris {Boston bean}
Citrus limon {Lemon}		Phyllanthus emblica {Chinese gall}
Crataegus {Hawthorn}		Pulses, Beans
Cucurbita pepo {Pumpkin}		red wine 250 ml/day
Epicatechin {Green tea polyphenol}		Riboflavin {Vitamin B2} 400 mg/day
Ethanoic acid {Vinegar}		Rubus fruticosus {Blackberry}
Fagopyrum esculentum {Buckwheat}		β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine
Human milk oligosaccharides (prebiotic, Holigos, Stachyose)	2 gram/day	{Chitosan} 3 gram/day
Lacticaseibacillus rhamnosus {l. rhamnosus}	48 BCFU/day	β-glucan {Beta-Glucan} 500 mg/day
lactobacillus helveticus,lactobacillus rhamnosus		steviol glycosides {Stevia} 800 mg/day
Lactobacillus plantarum {L. plantarum}	60 BCFU/day	Sucralose {Splenda} 340 mg/day
Lactilactobacillus sakei {Lactobacillus sakei}		syzygium aromaticum {clove}
Linum usitatissimum {Flaxseed}	30 mg/day	Thiamine {Vitamin B1} 18 gram/day
		Tobacco consumption {Smoking}
		β-lactoglobulin {Whey} 60 gram/day

Retail Probiotics

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

jarro formulas / jarro-dophilus eps
jarro formula / ideal bowel support® Isp299v®
SuperSmart / Derma Relief
biospec / probiotic-5
CustomProbiotics.com / L Plantarum Probiotic Powder
UltraFlora® Immune Booster
UltraFlora® Intensive Care
spain (es) / ns florabiotic instant
Floradapt Cardio
NASOBIOTEX / L SAKEI POWDER
Purica Probiotic Cardio
Maple Life Science™ / Lactobacillus plantarum
SuperSmart / Bifidobacterium longum (BB536)
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
Lanto Health / Lanto Sinus Probiotic Powder
goodbelly drink
Bulk Probiotics / L Rhamnosus Probiotic Powder
ImmuneBiotech Medical Sweden AB / GutMagnific®
spain (es) / ns defenbiotic kids
Lab One / N ° 1 SportBiotic
Kimchi Power / Lactobacillus Sakei
CustomProbiotics.com / L Rhamnosus Probiotic Powder
Ombre / Endless Energy
Metabolics / Streptococcus Thermophilus Powder
Immune Defense Daily Chewable Probiotic
spain (es) / muvagyn probiotico
Lanto Sinus
Pregnancy Care Probiotic
CustomProbiotics.com / S. Thermophilus Probiotic Powder
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio
ProGoes® Forte
Ombre / Ultimate Immunity
Purica Probiotic Intensive GI
optibac / for your cholesterol
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
Floradapt Gut Comfort
Nature's Lab Intensive GI
Metabolics / Lactobacillus Rhamnosus Powder
Bulk Probiotics / L Sakei Probiotic Powder (Sinus Support)
Bulk Probiotics / L Plantarum Probiotic Powder
spain (es) / I3.1

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.

(2->1)-beta-D-fructofuranan {Inulin}	enterococcus faecium {E. faecium}
5,6-dihydroxy-7-O-glucuronide flavone {Baicalin }	high red meat
ascorbic acid {Vitamin C}	lactobacillus acidophilus {L. acidophilus}
bacillus subtilis {B.Subtilis }	Limosilactobacillus reuteri {L. Reuteri}
bacillus subtilis,lactobacillus acidophilus	Metha family {Mint}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	N-Acetyl Cysteine {NAC}
Below normal temperature {Cold exposure}	Nicotine, Nicotine Patch
bifidobacterium longum {B.Longum }	olive oil {olive oil}
bismuth subsalicylate {Pepto-Bismol}	Plantago {Psyllium}
blueberry	Probiotic Mixture 1 {Japanese Vet Probiotic}
Bovine Milk Products {Dairy}	Probiotic Mixture 2 {Vetafarm Probiotic}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	Rheum × hybridum {Rhubarb}
Decoction of Four Noble Drugs {Sijunzi Decoction (SJZD)}	Vaccinium myrtillus {Bilberry}
	walnuts

Sample of Literature Used

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Available at: <https://microbiomeprescription.com/Library/PubMed>

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