

Microbiome Information for: Asthma

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

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Asthma

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
Verrucomicrobiia	class	Low	203494	Mycoplasma	genus	High	2093
Acidaminococcaceae	family	Low	909930	Odoribacter	genus	High	283168
Bacteroidaceae	family	High	815	Oxalobacter	genus	High	846
Bifidobacteriaceae	family	Low	31953	Parvimonas	genus	High	543311
Chlamydiaceae	family	High	809	Penicillium	genus	High	5073
Christensenellaceae	family	High	990719	Peptoniphilus	genus	Low	162289
Clostridiaceae	family	High	31979	Porphyromonas	genus	High	836
Dermabacteraceae	family	Low	85020	Prevotella	genus	High	838
Erysipelotrichaceae	family	High	128827	Rothia	genus	High	508215
Lachnospiraceae	family	High	186803	Sediminibacterium	genus	Low	504481
Lactobacillaceae	family	Low	33958	Slackia	genus	High	84108
Prevotellaceae	family	High	171552	Sneathia	genus	High	168808
Ruminococcaceae	family	Low	541000	Staphylococcus	genus	High	1279
Veillonellaceae	family	High	31977	Streptococcus	genus	High	1301
Actinomyces	genus	High	1654	Sutterella	genus	High	40544
Aggregatibacter	genus	Low	416916	Turidibacter	genus	Low	191303
Akkermansia	genus	Low	239934	Aggregatibacter segnis	species	High	739
Alloiococcus	genus	High	1651	Akkermansia muciniphila	species	Low	239935
Alternaria	genus	High	5598	Aspergillus fumigatus	species	High	746128
Aspergillus	genus	High	5052	Bacteroides fragilis	species	High	817
Bacteroides	genus	Low	816	Bacteroides stercoris	species	Low	46506
Bifidobacterium	genus	High	1678	Bifidobacterium adolescentis	species	Low	1680
Blautia	genus	High	572511	Bifidobacterium longum	species	High	216816
Butyricicoccus	genus	Low	580596	Candida albicans	species	High	5476
Butyrivibrio	genus	Low	830	Chlamydia pneumoniae	species	High	83558
Campylobacter	genus	High	194	Clostridium disporicum	species	Low	84024
Candidatus Arthromitus	genus	Low	49082	Eggerthella lenta	species	High	84112
Capnocytophaga	genus	High	1016	Enterobacter hormaechei	species	High	158836
Catonella	genus	Low	43996	Escherichia coli	species	High	562
Chlamydia	genus	High	810	Faecalibacterium prausnitzii	species	Low	853
Clostridium	genus	High	1485	Haemophilus influenzae	species	High	727
Corynebacterium	genus	High	1716	Klebsiella pneumoniae	species	High	573
Dialister	genus	Low	39948	Moraxella catarrhalis	species	High	480
Dorea	genus	High	189330	Mycoplasmoides pneumoniae	species	High	2104
Faecalibacterium	genus	Low	216851	Neisseria cinerea	species	High	483
Faecalibaculum	genus	High	1729679	Phocaeicola plebeius	species	High	310297
Fusobacterium	genus	High	848	Prevotella bivia	species	High	28125
Haemophilus	genus	High	724	Prevotella nigrescens	species	Low	28133
Holdemanella	genus	High	1573535	Pseudomonas aeruginosa	species	High	287
Lachnospira	genus	High	28050	Roseburia inulinivorans	species	Low	360807
				Staphylococcus aureus	species	High	1280

Bacteria Name	Rank	Shift	Taxonomy ID
Lactobacillus	<i>genus</i>	High	1578
Lawsonella	<i>genus</i>	High	1847725
Leptotrichia	<i>genus</i>	High	32067
Malassezia	<i>genus</i>	High	55193
Megasphaera	<i>genus</i>	High	906
Moraxella	<i>genus</i>	High	475

Bacteria Name	Rank	Shift	Taxonomy ID
Staphylococcus epidermidis	<i>species</i>	High	1282
Streptococcus pneumoniae	<i>species</i>	High	1313
Streptococcus pyogenes	<i>species</i>	High	1314
Streptococcus salivarius	<i>species</i>	High	1304
Sutterella wadsworthensis	<i>species</i>	Low	40545
Haemophilus influenzae 10810	<i>strain</i>	Low	862964

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.

(2->1)-beta-D-fructofuranan {Inulin} 32 gram/day

2-hydroxyethyl)trimethylazanium {choline} 1 g/day

Avena sativa x Hordeum vulgare {barley,oat}

Bovine Milk Products {Dairy}

Cichorium intybus {Chicory} 1800 mg/day

fructo-oligosaccharides 15 gram/day

Hordeum vulgare {Barley} 60 gram/day

Lactose {Milk Sugar}

Nitrogen Oxide x Particulate Matter {Urban air pollutant}

oligosaccharides {oligosaccharides}

Outer Layers of Triticum aestivum {Wheat Bran}

proton-pump inhibitors (prescription) 60 mg/day

pseudo-cereals {amaranth,quinoa, taro,buckwheat}

raffinose {sugar beet}

synthetic disaccharide derivative of lactose {Lactulose}

Tobacco consumption {Smoking}

wheat

whole-grain diet

Zea mays {maize}

Retail Probiotics

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

jarrow formulas / bifidus balance® + fos
Physician Choice / 60 Billion Probiotics
naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
blackmores (au) / probiotics+ immune defence
ISCON Elegance/ Ochek Capsule 10
Nutrition Essentials / Probiotic (900 BCFU)
optibac / bifidobacteria & fibre
Bio Schwartz / Advance Strength Probiotics (40 BCFU)
nature's way (au) / restore probiotic 30 billion 30s
blackmore (au) / probiotics+ daily health
Global Healing Center / FloraTrex
nature's way (au) / restore probiotic bowel & colon health 30s
naturopathica (au) / gastrohealth fibrepro
blackmore (au) / probiotics+ eczema relief
optibac / for every day
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
naturopathica (au) / gastrohealth probiotic dairy free 50 billion
Swiss BioEnergetics / Full Spectrum Probiotic Defence
theramedix / probiotic
blackmores (au) / probiotics + adults daily (90 capsules)
Wholesome Wellness / Raw Probiotic
nature's way (au) / restore probiotic daily health 90s

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.

allium sativum {garlic}	meropenem
amoxicillin [CFS]	Metha family {Mint}
ampicillin [CFS]	minocycline [CFS]
Azadirachta indica {Neem}	Moringa Oleifera
azithromycin,[CFS]	origanum vulgare {oregano}
benzylpenicillin sodium (antibiotic)	Pimpinella anisum {Anise}
Cinnamomum zeylanicum {Ceylon Cinnamon}	piperacillin-tazobactam
ciprofloxacin [CFS]	Propolis {Bee glue}
Curcuma longa {Turmeric}	Punica granatum {pomegranate}
D-(-)-Fructose {Fruit sugar}	rosmarinus officinalis {rosemary}
Diferuloylmethane {Curcumin}	syzygium aromaticum {clove}
gentamicin	Thymus vulgaris {thyme}
Honey {Honey }	tobramycin
imipenem	vancomycin (antibiotic)[CFS]
	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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Esgmac

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Additional APriori Analysis Available

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