

Microbiome Information for: Halitosis

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 Halitosis

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
Actinomyces	genus	High	1654	Porphyromonas	genus	High	836
Aggregatibacter	genus	High	416916	Prevotella	genus	High	838
Alloprevotella	genus	High	1283313	Rothia	genus	Low	32207
Bacteroides	genus	High	816	Rothia	genus	Low	508215
Campylobacter	genus	High	194	Selenomonas	genus	High	970
Capnocytophaga	genus	High	1016	Solobacterium	genus	High	123375
Corynebacterium	genus	Low	1716	Streptococcus	genus	Low	1301
Dialister	genus	High	39948	Tannerella	genus	High	195950
Eubacterium	genus	High	1730	Treponema	genus	High	157
Fusobacterium	genus	High	848	Veillonella	genus	High	29465
Gemella	genus	Low	1378	Eubacteriales	order	High	186802
Haemophilus	genus	Low	724	Aggregatibacter segnis	species	High	739
Kingella	genus	Low	32257	Alloprevotella rava	species	High	671218
Leptotrichia	genus	High	32067	Bacillus altitudinis	species	High	293387
Megasphaera	genus	High	906	Fusobacterium nucleatum	species	High	851
Moryella	genus	Low	437755	Helicobacter pylori	species	High	210
Neisseria	genus	High	482	Porphyromonas gingivalis	species	High	837
Oribacterium	genus	Low	265975	Prevotella melaninogenica	species	High	28132
Parvimonas	genus	High	543311	Prevotella pallens	species	High	60133
Peptococcus	genus	High	2740	Rothia dentocariosa	species	Low	2047
Peptostreptococcus	genus	High	1257	Solobacterium moorei	species	High	102148
				Tannerella forsythia	species	High	28112

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}	1.5 gram/day	long-term, moderate-intensity exercise {exercise}	
Abstinence from eating {Fasting}		oligosaccharides {oligosaccharides}	
arabinogalactan {arabinogalactan}	21 gram/day	Outer Layers of Triticum aestivum {Wheat Bran}	
Avena sativa {Oats}		pectin {pectin}	
bacillus		Phaseolus vulgaris {Boston bean}	
bacillus,lactobacillus,streptococcus,saccharomyces probiotic		Poly[β-D-xylopyranose(1->4)] {Xylan}	
dietary fiber		polyphenols	3 gram/day
Fiber, total dietary		pseudo-cereals {amaranth,quinoa, taro,buckwheat}	
fruit		Punica granatum {pomegranate}	1 gram/day
fruit/legume fibre		red wine	250 ml/day
Ganoderma sichuanense {Reishi Mushroom}	3.4 gram/day	Slow digestible carbohydrates. {Low Glycemic}	
Heyndrickxia coagulans {B. coagulans}	10 BCFU/day	β-glucan {Beta-Glucan}	500 mg/day
High-fibre diet {Whole food diet}		steviol glycosides {Stevia}	800 mg/day
hypocaloric hyperproteic diet		Tobacco consumption {Smoking}	
Lactobacillus plantarum {L. plantarum}	60 BCFU/day	Traditional Mediterranean diet {Mediterranean diet}	
Linum usitatissimum {Flaxseed}	30 mg/day	β-lactoglobulin {Whey}	60 gram/day

Retail Probiotics

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

Next Generation
theramedix / probiotic
LiveWell Nutrition / Pro-45
1 md / complete probiotics platinum
biospec / probiotic-5
jarrow formula / ideal bowel support® Ip299v®
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
Immune Defense Daily Chewable Probiotic
corebiotic
HMF Metabolic
CustomProbiotics.com / L. Plantarum Probiotic Powder
Bulk Probiotics / Bacillus Coagulans Probiotic
Ombre / Healthy Gut
UltraFlora® Immune Booster
Nutrition Essentials / Probiotic (900 BCFU)
OMNI-BIOTIC®/ 10 AAD
up4 /women's
nature's bounty / probioti 10
mwsb / candida yeast support
microbiome labs/ megasporebiotic
klair labs / biospora
SuperSmart / Derma Relief
MegaFood / MegaFlora
Invivo / Bio.Me Femme UT
perfect pass / perfect pass probiotic bacillus spore
NaturalPharma / Profit Probiotics
Bio Schwartz / Advance Strength Probiotics (40 BCFU)
UltraFlora® Intensive Care
OMNI-BIOTIC®/ TRAVEL
global health trax / threelac
Law of Nature / Best Days Formula
Floradapt Cardio
bio-botanical research / proflora4r restorative probiotic
Eden's / 3-in-1 Synbiotic Superblend
Dr. Mercola / Complete Probiotics
nature's instincts / ultra spore probiotic
Purica Probiotic Cardio
Maple Life Science™ / Lactobacillus plantarum
lifted naturals / mood boosting probiotic
bioglan bio (au) / happy probiotic 50
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio
Ombre / Ultimate Immunity
bioray / cytoflora
Purica Probiotic Intensive GI
optibac / for your cholesterol
ProbioMax® Daily DF
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
organic 3 / primal soil
Floradapt Gut Comfort
bioglan bio (au) / happy probiotic 100
Nature's Lab Intensive GI
SuperSmart / Lactoxira

Maple Life Science™ / Streptococcus faecalis butyricum mesentericus sporogenes
 Ombre / Mood Enhancer
 BIO-BOTANICAL RESEARCH / Megacidin
 reserveage nutrition / beautiflora
 up4 / adult
 nature's way (au) / restore probiotic bowel & colon health 30s
 Bulk Probiotics / L. Plantarum Probiotic Powder
 spain (es) / I3.1
 Resbiotic / resB® Lung Support
 7 AM Ultra Probiotics
 Jetson / FIT
 Seeking Health / Probiota HistaminX
 Windlove Probiotics / Ecologic®825
 Biomed / Bacillus Coagulans
 jarro formula / jarro-dophilus original
 vitamin angels / just thrive
 Bromatech(IT) / FEMELLE
 Sun Wave Pharma/Bio Sun Instant
 SuperSmart / Candalb
 custom probiotics / four strain lactobacilli
 naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
 nature's way (au) / adult vita gummies daily probiotic 80s
 Krauterhaus / Lactopro
 source naturals / duraf flora
 Northwest Natural Products / PB8
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 SuperSmart / Probio Forte
 thorne / bacillus coagulansvet 60 caps
 goodbelly drink
 enviromedica terraflora sbo probiotic
 schiff / digestive advantage
 Ombre / Heart Health
 Symprove™
 daiichi sankyo healthcare (jp) / panlacmin tablet
 custom probiotics / six strain probiotic powder
 ImmuneBiotech Medical Sweden AB / GutMagnific®
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu

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.

(2S)-2-amino-5-carbamimidamidopentanoic acid {arginine}

2H-1,6,2-benzothiazol-1,1,3-trione {Saccharin}

Actinidia deliciosa/chinensis {kiwifruit}

azithromycin,[CFS]

Bifidobacterium breve {B. breve}

cefoxitin

Cichorium intybus {Chicory}

clindamycin [CFS]

doxycycline [CFS]

high red meat

isoflavones {Dietary phytoestrogens}

Lactobacillus helveticus,Lactobacillus rhamnosus

metronidazole [CFS]

Morus {Mulberry }

nicotinic acid {Vitamin B-3}

Nitazoxanide

Pistacia lentiscus {mastic gum}

soy

Vaccinium {Cranberry}

Vsl#3 {Visibiome}

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