

Microbiome Information for: Chronic Obstructive Pulmonary Disease (COPD)

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 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

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Email: Research@MicrobiomePrescription.com

[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Chronic Obstructive Pulmonary Disease (COPD)

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
Clostridia	class	High	186801	Oscillibacter	genus	High	459786
Acidaminococcaceae	family	High	909930	Paludibacter	genus	High	346096
Aerococcaceae	family	Low	186827	Peptostreptococcus	genus	Low	1257
Christensenellaceae	family	Low	990719	Prevotella	genus	High	838
Desulfovibrionaceae	family	Low	194924	Pseudomonas	genus	High	286
Enterobacteriaceae	family	Low	543	Romboutsia	genus	High	1501226
Lachnospiraceae	family	High	186803	Roseburia	genus	Low	841
Oscillospiraceae	family	Low	216572	Rothia	genus	High	508215
Streptococcaceae	family	High	1300	Rothia	genus	High	32207
Acinetobacter	genus	High	469	Scardovia	genus	High	196081
Actinomyces	genus	High	1654	Stenotrophomonas	genus	High	40323
Aerococcus	genus	High	1375	Streptococcus	genus	High	1301
Aspergillus	genus	High	5052	Streptomyces	genus	High	1883
Butyrivibrio	genus	Low	574697	Veillonella	genus	High	29465
Campylobacter	genus	High	194	Acinetobacter baumannii	species	High	470
Corynebacterium	genus	High	1716	Acinetobacter calcoaceticus	species	High	471
Dialister	genus	High	39948	Brevibacterium aureum	species	High	233502
Eubacterium	genus	Low	1730	Candida albicans	species	High	5476
Faecalicatena	genus	High	2005359	Chlamydia pneumoniae	species	High	83558
Flavonifractor	genus	High	946234	Corynebacterium propinquum	species	High	43769
Gemella	genus	High	1378	Escherichia coli	species	High	562
Granulicatella	genus	High	117563	Haemophilus influenzae	species	High	727
Haemophilus	genus	High	724	Haemophilus parainfluenzae	species	High	729
Holdemanella	genus	High	1573535	Klebsiella pneumoniae	species	High	573
Holdemania	genus	High	61170	Moraxella catarrhalis	species	High	480
Intestinibacter	genus	High	1505657	Mycoplasmoides pneumoniae	species	High	2104
Lachnospirillum	genus	Low	1506553	Porphyromonas gingivalis	species	High	837
Lachnospira	genus	Low	28050	Prevotella melaninogenica	species	Low	28132
Lactobacillus	genus	High	1578	Pseudomonas aeruginosa	species	High	287
Lautropia	genus	High	47670	Rothia mucilaginosa	species	High	43675
Lawsonibacter	genus	High	2172004	Simkania negevensis	species	High	83561
Malassezia	genus	High	55193	Staphylococcus aureus	species	High	1280
Marvinbryantia	genus	Low	248744	Staphylococcus epidermidis	species	High	1282
Megasphaera	genus	High	906	Streptococcus parasanguinis	species	High	1318
Moraxella	genus	High	475	Streptococcus pneumoniae	species	High	1313
Moryella	genus	High	437755	Streptococcus salivarius	species	High	1304
Neisseria	genus	High	482	Streptococcus vestibularis	species	High	1343
				Streptococcus viridans	species	High	78535

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.

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

Abstention from eating {Fasting}

arabinogalactan {arabinogalactan} 21 gram/day

Avena sativa {Oats}

Avena sativa x Hordeum vulgare {barley,oat}

bacillus subtilis {B.Subtilis } 10 BCFU/day

bacillus subtilis natto {B.natto}

Escherichia coli cryodesiccata {colinfant probiotics}

Ferrum {Iron Supplements} 400 mg/day

Heyndrickxia coagulans {B. coagulans} 10 BCFU/day

High-amylose maize starch {HAMS}

Hordeum vulgare {Barley} 60 gram/day

Lactiseibacillus rhamnosus {l. rhamnosus} 48 BCFU/day

Lactose {Milk Sugar}

Nattokinase {Natto} 14000 fibrinolytic units/day

Outer Layers of Triticum aestivum {Wheat Bran}

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

Sleep apnea {partial sleep deprivation}

β-glucan {Beta-Glucan} 500 mg/day

synthetic disaccharide derivative of lactose {Lactulose}

Tobacco consumption {Smoking}

Tributylin

Vsl#3 {Visibiome}

Zea mays {maize}

Retail Probiotics

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

Next Generation
 Global Healing Center / FloraTrex
 vita miracle / ultra-30 probiotics
 biospec / probiotic-5
 corebiotic
 enviromedica terraflora sbo probiotic
 Jetson (US) / Mood Probiotics
 mwsb / candida yeast support
 microbiome labs/ megasporebiotic
 klair labs / biospora
 1 md / complete probiotics platinum
 perfect pass / perfect pass probiotic bacillus spore
 global health trax / threelac
 Law of Nature / Best Days Formula
 bio-botanical research / proflora4r restorative probiotic
 nature's instincts / ultra spore probiotic
 nature's way (au) / restore probiotic 100 billion
 powerlabs (au) / ultra blend
 BIO-BOTANICAL RESEARCH / Megacidin
 reserveage nutrition / beautiflora
 Jetson / FIT
 garden of life / primal defense
 probiotic pur (de) / realdose nutrition
 vitamin angels / just thrive
 LiveWell Nutrition / Pro-45
 Swiss BioEnergetics / Full Spectrum Probiotic Defence
 organic 3 / primal soil
 Realdose
 Metabolics / Lactobacillus Rhamnosus Powder
 Bromatech (IT) / Psicobrain
 Maple Life Science™ / Streptococcus faecalis butyricum mesentericus sporogenes
 Ombre / Mood Enhancer
 spain (es) / aquilea intimus
 SuperSmart / Bacillus Subtilis
 bioglan bio (au) / happy probiotic 100
 spain (es) / muvagyn probiotico
 Advanced Bio-Cultures / Advance Multi Strain Probiotics
 ProGoes® Forte
 INVIVO THERAPEUTICS / Bio.Me IB +
 elixa / probiotic
 bioray / cytoflora
 jarro formulas / fem dophilus
 renew life / ultimate flora
 up4 / ultra
 Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
 JGL / Lactogyn
 Bromatech(IT) / FEMELLE
 HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
 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
 udo's choice /super 8 gold

microbiome labs / restorflora
zint nutrition / probiotic collagen +
Krauterhaus / Lactopro
Bulk Probiotics / Bacillus Subtilis Probiotic
theramedix / probiotic
newrhythm / probiotics 20 stains
Lake Avenue Nutrition / Probiotics 10 Strain Blend
Pregnancy Care Probiotic
ASEA VIA / BIOME
Wholesome Wellness / Raw Probiotic
bio-k+
Biomed / Bacillus Coagulans
jarrow formula / jarro-dophilus original
aor / probiotic-3
jamieson (can) / probiotic 10 bcfu
optibac / for those on antibiotics
Bromatech (IT) / Lautoselle
Bioflora (MX) / BIOFLORAMX / 50 BILLION 10 Strains
Resbiotic/resB® Lung Support
SuperSmart / Full Spectrum Probiotic Formula
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
custom probiotics / d-lactate free probiotics powder
jarrow formulas / jarro-dophilus eps
spain (es) / ns defenbiotic kids
Sash Vitality / Bio-Cultures Probiotics for Adults
CustomProbiotics.com / L. Rhamnosus Probiotic Powder
blackmore (au) / probiotics+ eczema relief
SuperSmart / Vaginal Health
7 AM Ultra Probiotics
quantum wellness / restora flora
Probiotic 10 Billion Active Cells Daily Maintenance
Ombre / Endless Energy
bravo europe / starter and complex
optibac / for every day
Prescript-Assist®/SBO Probiotic
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
amy meyers / primal earth probiotic
Jetson / Gut Prep
Ombre / Restore
source naturals / duraflo
Northwest Natural Products / PB8
naturopathica (au) / gastrohealth probiotic dairy free 50 billion
thorne / bacillus coagulansvet 60 caps
blackmore (au) / probiotics+ womens flora balance
bravo europe / freeze-dried bravo
Bulk Probiotics / L. Rhamnosus Probiotic Powder
fürstenmed / lacto-bifido
seed / male version
solaray / mycrobome probiotic colon formula
lifted naturals / mood boosting probiotic
cytoplan(uk) / dentavital bifidophilus
bioglan bio (au) / happy probiotic 50
Biorela® Daily
NOW FOODS / Clinical GI Probiotic
hyperbiotics / pro-15
Eden's / 3-in-1 Synbiotic Superblend
Bromatech (IT) / Ramnoselle
Dr. Mercola / Complete Probiotics

Garden of Life / Dr. Formulated Once Daily Women's
vinco / probiotic eight 65
Wakunaga / Pro+ Synbiotic
organic 3 / primal gut
naturopathica (au)/ gastrohealth probiotic daily care
Physis / Advance Probiotics
Ombre / Metabolic Booster
spain (es) / ns florabiotic instant
optibac / for women
OMNI-BIOTIC®/ TRAVEL
jarrow formulas / fem-dophilus®
Nutrition Essentials / Probiotic (900 BCFU)
OMNI-BIOTIC®/ 10 AAD
up4 /women's
RepHresh /Pro-B Probiotic Supplement for Women
Ombre / Harmony
young living/life 9
SuperSmart / Derma Relief
Bioflora(MX) / Woman
Energybalance / ColoBiotica 28 Colon Support
naturopathica (au) / gastrohealth women's probiotic with cranberry
Wakunaga / Max Probiotic
jarrow formulas / jarro-dophilus mood
MegaFood / MegaFlora
microbiome labs /hu58
schiff / digestive advantage
Symprove™
daiichi sankyo healthcare (jp) / panlacmin tablet
seed / female version
jarrow formulas / jarro-dophilus® ultra
custom probiotics / six strain probiotic powder
CVSHealth / Daily Probiotic
Bromatech (IT) / Serobiome
Nu U (uk) /Bio-Cultures Complex
SuperSmart / Oral Health
Bulk Probiotics / Bacillus Coagulans Probiotic
Ombre / Healthy Gut
ISCON Elegance/ Ochek Capsule 10
just for tummies / live bacteria
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
naturopathica (au) / gastrohealth probiotic adults 50+

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.

3,3',4',5,7-pentahydroxyflavone {Quercetin}
Azadirachta indica {Neem}
Cinnamomum zeylanicum {Ceylon Cinnamon}
Curcuma longa {Turmeric}
Cymbopogon citratus {Lemongrass}
D-(-)-Fructose {Fruit sugar}
Diferuloylmethane {Curcumin}
Honey {Honey }

Metha family {Mint}
Ocimum basilicum {Basil}
origanum vulgare {oregano}
Pimpinella anisum {Anise}
Propolis {Bee glue}
rosmarinus officinalis {rosemary}
syzygium aromaticum {clove}
Thymus vulgaris {thyme}
Zingiber officinale Roscoe {ginger}

Sample of Literature Used

The following are the most significant of the studies used to generate these suggestions.

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ADHD

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Allergic Rhinitis (Hay Fever)

Allergies

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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
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Cerebral Palsy
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Chronic Lyme
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Coagulation / Micro clot triggering bacteria
Cognitive Function
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
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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
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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
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Polycystic ovary syndrome
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Primary sclerosing cholangitis
Psoriasis
rheumatoid arthritis (RA),Spondyloarthritis (SpA)
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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