

Microbiome Information for: COVID-19

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 COVID-19

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	High	1760	Salmonella	genus	High	590
Agaricomycetes	class	High	155619	Senegalimassilia	genus	Low	1473205
Bacilli	class	High	91061	Shigella	genus	High	620
Betaproteobacteria	class	High	28216	Slackia	genus	Low	84108
Clostridia	class	Low	186801	Solobacterium	genus	High	123375
Deltaproteobacteria	class	High	28221	Staphylococcus	genus	High	1279
Fusobacteriia	class	Low	203490	Streptococcus	genus	High	1301
Gammaproteobacteria	class	High	1236	Veillonella	genus	High	29465
Spirochaetia	class	Low	203692	Weissella	genus	High	46255
Acetobacteraceae	family	High	433	Dothideales	order	High	5014
Aerococcaceae	family	High	186827	Enterobacterales	order	High	91347
Aeromonadaceae	family	Low	84642	Lactobacillales	order	High	186826
Bacteroidaceae	family	Low	815	Spirochaetales	order	Low	136
Carnobacteriaceae	family	Low	186828	[Clostridium] colinum	species	Low	36835
Christensenellaceae	family	High	990719	[Clostridium] innocuum	species	High	1522
Clostridiaceae	family	Low	31979	[Clostridium] leptum	species	Low	1535
Coriobacteriaceae	family	Low	84107	[Clostridium] nexile	species	Low	29361
Corynebacteriaceae	family	High	1653	[Clostridium] piliforme	species	High	1524
Dermabacteraceae	family	High	85020	Acinetobacter baumannii	species	High	470
Desulfovibrionaceae	family	High	194924	Acinetobacter bereziniae	species	High	106648
Enterobacteriaceae	family	High	543	Actinomyces viscosus	species	High	1656
Erysipelotrichaceae	family	High	128827	Adlercreutzia equolifaciens	species	Low	446660
Flavobacteriaceae	family	High	49546	Agathobacter rectalis	species	Low	39491
Lactobacillaceae	family	High	33958	Alistipes finegoldii	species	High	214856
Methylobacteriaceae	family	High	119045	Alistipes indistinctus	species	Low	626932
Mycoplasmataceae	family	Low	2092	Alistipes onderdonkii	species	High	328813
Nitrobacteraceae	family	High	41294	Alistipes putredinis	species	Low	28117
Nitrospiraceae	family	Low	189779	Alistipes shahii	species	Low	328814
Oscillospiraceae	family	Low	216572	Alloprevotella tannerae	species	High	76122
Peptococcaceae	family	High	186807	Anaerobutyricum hallii	species	Low	39488
Peptostreptococcaceae	family	High	186804	Anaerostipes hadrus	species	High	649756
Rikenellaceae	family	High	171550	Aspergillus flavus	species	High	5059
Ruminococcaceae	family	Low	541000	Aspergillus fumigatus	species	High	746128
Staphylococcaceae	family	High	90964	Bacteroides caccae	species	Low	47678
Streptococcaceae	family	High	1300	Bacteroides cellulosilyticus	species	Low	246787
Vibrionaceae	family	High	641	Bacteroides eggerthii	species	Low	28111
Acinetobacter	genus	High	469	Bacteroides graminisolvans	species	High	477666
Actinomyces	genus	High	1654	Bacteroides luti	species	Low	1297750
Adlercreutzia	genus	Low	447020	Bacteroides nordii	species	High	291645
Agathobacter	genus	Low	1766253	Bacteroides ovatus	species	High	28116
Akkermansia	genus	Low	239934				

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Alistipes	genus	Low	239759	Bacteroides salyersiae	species	Low	291644
Alloprevotella	genus	High	1283313	Bacteroides stercoris	species	High	46506
Anaerococcus	genus	Low	165779	Bacteroides thetaiotaomicron	species	Low	818
Anaerostipes	genus	Low	207244	Bifidobacterium adolescentis	species	High	1680
Aspergillus	genus	High	5052	Bifidobacterium bifidum	species	Low	1681
Atopobium	genus	High	1380	Bifidobacterium longum	species	High	216816
Aureobasidium	genus	High	5579	Bifidobacterium pseudocatenulatum	species	Low	28026
Bacillus	genus	High	1386	Blastocystis hominis	species	Low	12968
Bacteroides	genus	High	816	Blautia hominis	species	Low	2025493
Bifidobacterium	genus	Low	1678	Blautia obeum	species	Low	40520
Blastocystis	genus	High	12967	Burkholderia cepacia	species	High	292
Blautia	genus	Low	572511	Burkholderiales bacterium 1_1_47	species	Low	469610
Burkholderia	genus	High	32008	Candida albicans	species	High	5476
Butyrivicoccus	genus	Low	580596	Candida parapsilosis	species	Low	5480
Butyrivibrio	genus	Low	830	Clostridium butyricum	species	Low	1492
Campylobacter	genus	High	194	Collinsella aerofaciens	species	High	74426
Candida	genus	High	5475	Coprobacter fastidiosus	species	Low	1099853
Candida	genus	High	1535326	Coprococcus catus	species	Low	116085
Citrobacter	genus	High	544	Dientamoeba fragilis	species	High	43352
Clostridium	genus	High	1485	Dorea longicatena	species	Low	88431
Collinsella	genus	Low	102106	Eggerthella lenta	species	High	84112
Coprobacillus	genus	High	100883	Elizabethkingia meningoseptica	species	High	238
Coprobacter	genus	High	1348911	Enterobacter cloacae	species	Low	550
Coprococcus	genus	Low	33042	Enterocloster citroniae	species	High	358743
Corynebacterium	genus	High	1716	Enterocloster clostridioformis	species	Low	1531
Cutibacterium	genus	Low	1912216	Enterococcus avium	species	High	33945
Debaryomyces	genus	High	4958	Enterococcus durans	species	High	53345
Desulfovibrio	genus	High	872	Escherichia coli	species	High	562
Dialister	genus	High	39948	Eubacterium limosum	species	Low	1736
Dorea	genus	Low	189330	Eubacterium ventriosum	species	Low	39496
Eggerthella	genus	High	84111	Faecalibacterium prausnitzii	species	Low	853
Enterococcus	genus	High	1350	Gemmiger fornicilis	species	Low	745368
Enterorhabdus	genus	Low	580024	Hungatella hathewayi	species	High	154046
Erysipelatoclostridium	genus	High	1505663	Klebsiella pneumoniae	species	High	573
Escherichia	genus	High	561	Lachnospira eligens	species	Low	39485
Eubacterium	genus	Low	1730	Lachnospiraceae bacterium 1_1_57FAA	species	High	658081
Faecalibacterium	genus	Low	216851	Lachnospiraceae bacterium 1_4_56FAA	species	High	658655
Fingoldia	genus	High	150022	Lachnospiraceae bacterium 2_1_58FAA	species	High	658082
Fusicatenibacter	genus	Low	1407607	Lawsonibacter asaccharolyticus	species	Low	2108523
Fusobacterium	genus	High	848	Limosilactobacillus reuteri	species	Low	1598
Gemella	genus	High	1378	Listeria monocytogenes	species	High	1639
Granulicatella	genus	High	117563	Mediterraneibacter gnavus	species	Low	33038
Helicobacter	genus	High	209	Morganella morganii	species	High	582
Herbaspirillum	genus	High	963	Mycoplasmoides pneumoniae	species	High	2104
Holdmania	genus	High	61170				
Howardella	genus	High	404402				
Lactobacillus	genus	High	1578				

Bacteria Name	Rank	Shift	Taxonomy ID
Lawsonella	genus	Low	1847725
Mogibacterium	genus	High	86331
Moraxella	genus	High	475
Mycoplasma	genus	High	2093
Nakaseomyces	genus	High	374468
Neisseria	genus	High	482
Odoribacter	genus	High	283168
Oscillospira	genus	Low	119852
Parabacteroides	genus	High	375288
Parasutterella	genus	High	577310
Peptostreptococcus	genus	High	1257
Phascolarctobacterium	genus	Low	33024
Porphyromonas	genus	Low	836
Prevotella	genus	High	838
Pseudomonas	genus	High	286
Romboutsia	genus	Low	1501226
Roseburia	genus	Low	841
Rothia	genus	High	32207
Rothia	genus	High	508215
Ruminiclostridium	genus	High	1508657
Ruminococcus	genus	Low	1263
Ruthenibacterium	genus	High	1905344

Bacteria Name	Rank	Shift	Taxonomy ID
Odoribacter splanchnicus	species	Low	28118
Parabacteroides merdae	species	High	46503
Parasutterella excrementihominis	species	Low	487175
Penicillium citrinum	species	Low	5077
Phocaeicola coprophilus	species	High	387090
Phocaeicola dorei	species	Low	357276
Phocaeicola massiliensis	species	Low	204516
Phocaeicola plebeius	species	High	310297
Prevotella bivia	species	High	28125
Pseudomonas aeruginosa	species	High	287
Pseudomonas veronii	species	High	76761
Roseburia intestinalis	species	Low	166486
Rothia mucilaginosa	species	High	43675
Ruminococcus albus	species	High	1264
Ruminococcus bromii	species	Low	40518
Segatella copri	species	Low	165179
Serratia marcescens	species	High	615
Staphylococcus aureus	species	High	1280
Staphylococcus epidermidis	species	High	1282
Stenotrophomonas maltophilia	species	High	40324
Streptococcus infantis	species	High	68892
Streptococcus oralis	species	High	1303
Streptococcus pneumoniae	species	High	1313
Streptococcus salivarius	species	Low	1304
Streptococcus thermophilus	species	High	1308
Thomasclavelia ramosa	species	High	1547
Veillonella dispar	species	Low	39778

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

high red meat

high-fat diets

High-protein diet {Atkins low-carbohydrate diet}

macrolide ()

Nitrogen Oxide x Particulate Matter {Urban air pollutant}

proton-pump inhibitors (prescription) 60 mg/day

Sucralose {Splenda} 340 mg/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}	gentamicin
allium sativum {garlic}	green tea
bacillus	High-fibre diet {Whole food diet}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Lactisacibacillus casei {L. casei}
bifidobacterium	Lactobacillus plantarum {L. plantarum}
bifidobacterium longum {B.Longum }	oligosaccharides {oligosaccharides}
Cinnamomum zeylanicum {Ceylon Cinnamon}	organum vulgare {oregano}
ciprofloxacin [CFS]	Propolis {Bee glue}
dietary fiber	Slow digestible carbohydrates. {Low Glycemic}
Diferuloylmethane {Curcumin}	Thymus vulgaris {thyme}
Fiber, total dietary	whole-grain diet
fruit	yogurt
fruit/legume fibre	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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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