

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 *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 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	Shigella	genus	High	620
Agaricomycetes	class	High	155619	Solobacterium	genus	High	123375
Bacilli	class	High	91061	Staphylococcus	genus	High	1279
Betaproteobacteria	class	High	28216	Streptococcus	genus	High	1301
Clostridia	class	Low	186801	Veillonella	genus	High	29465
Deltaproteobacteria	class	High	28221	Weissella	genus	High	46255
Fusobacteria	class	Low	203490	Dothideales	order	High	5014
Gammaproteobacteria	class	High	1236	Enterobacterales	order	High	91347
Spirochaetia	class	Low	203692	Lactobacillales	order	High	186826
Aerococcaceae	family	High	186827	Spirochaetales	order	Low	136
Aeromonadaceae	family	Low	84642	[Clostridium] colinum	species	Low	36835
Bacteroidaceae	family	Low	815	[Clostridium] innocuum	species	High	1522
Carnobacteriaceae	family	Low	186828	[Clostridium] leptum	species	Low	1535
Christensenellaceae	family	High	990719	[Clostridium] nexile	species	Low	29361
Clostridiaceae	family	Low	31979	[Clostridium] piliforme	species	High	1524
Coriobacteriaceae	family	Low	84107	Acinetobacter baumannii	species	High	470
Corynebacteriaceae	family	High	1653	Acinetobacter bereziniae	species	High	106648
Dermabacteraceae	family	High	85020	Actinomyces viscosus	species	High	1656
Desulfovibrionaceae	family	High	194924	Adlercreutzia equolifaciens	species	Low	446660
Enterobacteriaceae	family	High	543	Agathobacter rectalis	species	Low	39491
Erysipelotrichaceae	family	High	128827	Alistipes finegoldii	species	High	214856
Flavobacteriaceae	family	High	49546	Alistipes indistinctus	species	Low	626932
Lachnospiraceae	family	Low	186803	Alistipes onderdonkii	species	High	328813
Moraxellaceae	family	Low	468	Alistipes putredinis	species	Low	28117
Mycoplasmataceae	family	Low	2092	Alistipes shahii	species	Low	328814
Nitrospiraceae	family	Low	189779	Alloprevotella tanneriae	species	High	76122
Oscillospiraceae	family	Low	216572	Anaerobutyricum hallii	species	Low	39488
Peptococcaceae	family	High	186807	Anaerostipes hadrus	species	High	649756
Peptostreptococcaceae	family	High	186804	Aspergillus flavus	species	High	5059
Propionibacteriaceae	family	Low	31957	Aspergillus fumigatus	species	High	746128
Rikenellaceae	family	High	171550	Bacteroides caccae	species	Low	47678
Ruminococcaceae	family	Low	541000	Bacteroides cellulosilyticus	species	Low	246787
Staphylococcaceae	family	High	90964	Bacteroides eggerthii	species	Low	28111
Streptococcaceae	family	High	1300	Bacteroides graminisolvens	species	High	477666
Vibrionaceae	family	High	641	Bacteroides luti	species	Low	1297750
Acinetobacter	genus	High	469	Bacteroides nordii	species	High	291645
Actinomyces	genus	High	1654	Bacteroides ovatus	species	High	28116
Adlercreutzia	genus	Low	447020	Bacteroides salyersiae	species	Low	291644
Agathobacter	genus	Low	1766253	Bacteroides stercoris	species	High	46506
Akkermansia	genus	Low	239934	Bacteroides thetaiotaomicron	species	Low	818
Alistipes	genus	Low	239759				

Bacteria Name	Rank Shift	Taxonomy ID	Bacteria Name	Rank Shift	Taxonomy ID
Alloprevotella	genus High	1283313	Bifidobacterium adolescentis	species High	1680
Anaerococcus	genus Low	165779	Bifidobacterium bifidum	species Low	1681
Anaerostipes	genus Low	207244	Bifidobacterium longum	species High	216816
Aspergillus	genus High	5052	Bifidobacterium pseudocatenulatum	species Low	28026
Atopobium	genus High	1380	Blastocystis hominis	species Low	12968
Aureobasidium	genus High	5579	Blautia hominis	species Low	2025493
Bacillus	genus High	1386	Blautia obeum	species Low	40520
Bacteroides	genus High	816	Burkholderia cepacia	species High	292
Bifidobacterium	genus Low	1678	Burkholderiales bacterium 1_1_47	species Low	469610
Blastocystis	genus High	12967	Candida albicans	species High	5476
Blautia	genus Low	572511	Candida parapsilosis	species Low	5480
Burkholderia	genus High	32008	Clostridium butyricum	species Low	1492
Butyricoccus	genus Low	580596	Collinsella aerofaciens	species High	74426
Butyrivibrio	genus Low	830	Coprobacter fastidiosus	species Low	1099853
Campylobacter	genus High	194	Coprococcus catus	species Low	116085
Candida	genus High	5475	Dientamoeba fragilis	species High	43352
Candida	genus High	1535326	Dorea longicatena	species Low	88431
Citrobacter	genus High	544	Eggerthella lenta	species High	84112
Clostridium	genus High	1485	Elizabethkingia meningoseptica	species High	238
Collinsella	genus Low	102106	Enterobacter cloacae	species Low	550
Coprobacillus	genus High	100883	Enterocloster citroniae	species High	358743
Coprobacter	genus High	1348911	Enterocloster clostridioformis	species Low	1531
Coprococcus	genus Low	33042	Enterococcus avium	species High	33945
Corynebacterium	genus High	1716	Enterococcus durans	species High	53345
Cutibacterium	genus Low	1912216	Escherichia coli	species High	562
Debaryomyces	genus High	4958	Eubacterium limosum	species Low	1736
Desulfovibrio	genus High	872	Eubacterium ventriosum	species Low	39496
Dialister	genus High	39948	Faecalibacterium prausnitzii	species Low	853
Dorea	genus Low	189330	Gemmiger fornicilis	species Low	745368
Eggerthella	genus High	84111	Hungatella hathewayi	species High	154046
Enterococcus	genus High	1350	Klebsiella pneumoniae	species High	573
Erysipelatoclostridium	genus High	1505663	Lachnospira eligens	species Low	39485
Escherichia	genus High	561	Lachnospiraceae bacterium 1_1_57FAA	species High	658081
Eubacterium	genus Low	1730	Lachnospiraceae bacterium 1_4_56FAA	species High	658655
Faecalibacterium	genus Low	216851	Lachnospiraceae bacterium 2_1_58FAA	species High	658082
Fingoldia	genus High	150022	Lawsonibacter asaccharolyticus	species Low	2108523
Fusicatenibacter	genus Low	1407607	Limosilactobacillus reuteri	species Low	1598
Fusobacterium	genus High	848	Listeria monocytogenes	species High	1639
Gemella	genus High	1378	Mediterraneibacter gnavus	species Low	33038
Granulicatella	genus High	117563	Morganella morganii	species High	582
Helicobacter	genus High	209	Mycoplasmoides pneumoniae	species High	2104
Herbaspirillum	genus High	963	Odoribacter splanchnicus	species Low	28118
Howardella	genus High	404402	Parabacteroides merdae	species High	46503
Lactobacillus	genus High	1578			
Lawsonella	genus Low	1847725			
Mogibacterium	genus High	86331			
Moraxella	genus High	475			

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Mycoplasma	genus	High	2093	Parasutterella excrementihominis	species	Low	487175
Nakaseomyces	genus	High	374468	Penicillium citrinum	species	Low	5077
Neisseria	genus	High	482	Phocaeicola coprophilus	species	High	387090
Odoribacter	genus	High	283168	Phocaeicola dorei	species	Low	357276
Oscillospira	genus	Low	119852	Phocaeicola massiliensis	species	Low	204516
Parabacteroides	genus	High	375288	Phocaeicola plebeius	species	High	310297
Parasutterella	genus	High	577310	Prevotella bivia	species	High	28125
Peptostreptococcus	genus	High	1257	Pseudomonas aeruginosa	species	High	287
Porphyromonas	genus	Low	836	Pseudomonas veronii	species	High	76761
Prevotella	genus	High	838	Roseburia intestinalis	species	Low	166486
Pseudomonas	genus	High	286	Ruminococcus albus	species	High	1264
Romboutsia	genus	Low	1501226	Ruminococcus bromii	species	Low	40518
Roseburia	genus	Low	841	Segatella copri	species	Low	165179
Rothia	genus	High	32207	Serratia marcescens	species	High	615
Rothia	genus	High	508215	Staphylococcus aureus	species	High	1280
Ruminiclostridium	genus	High	1508657	Staphylococcus epidermidis	species	High	1282
Ruminococcus	genus	Low	1263	Stenotrophomonas maltophilia	species	High	40324
Ruthenibacterium	genus	High	1905344	Streptococcus infantis	species	High	68892
Salmonella	genus	High	590	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}	green tea
bacillus	High-fibre diet {Whole food diet}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Hordeum vulgare {Barley}
bifidobacterium	Lactaseibacillus casei {L. casei}
bifidobacterium longum {B.Longum }	Lactobacillus plantarum {L. plantarum}
Cinnamomum zeylanicum {Ceylon Cinnamon}	oligosaccharides {oligosaccharides}
dietary fiber	origanum vulgare {oregano}
Diferuloylmethane {Curcumin}	Propolis {Bee glue}
Fiber, total dietary	Slow digestible carbohydrates. {Low Glycemic}
fruit	Thymus vulgaris {thyme}
fruit/legume fibre	wheat
gentamicin	whole-grain diet
	yogurt

Sample of Literature Used

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

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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

cdk15 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