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

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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

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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 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
Actinomycetes	*class*	High	*1760*
Agaricomycetes	*class*	High	*155619*
Bacilli	*class*	High	*91061*
Betaproteobacteria	*class*	High	*28216*
Deltaproteobacteria	*class*	High	*28221*
Fusobacteriia	*class*	Low	*203490*
Gammaproteobacteria	*class*	High	*1236*
Spirochaetia	*class*	Low	*203692*
Aerococcaceae	*family*	High	*186827*
Aeromonadaceae	*family*	Low	*84642*
Bacteroidaceae	*family*	Low	*815*
Carnobacteriaceae	*family*	Low	*186828*
Christensenellaceae	*family*	High	*990719*
Clostridiaceae	*family*	Low	*31979*
Coriobacteriaceae	*family*	Low	*84107*
Corynebacteriaceae	*family*	High	*1653*
Dermabacteraceae	*family*	High	*85020*
Desulfovibrionaceae	*family*	High	*194924*
Enterobacteriaceae	*family*	High	*543*
Erysipelotrichaceae	*family*	High	*128827*
Flavobacteriaceae	*family*	High	*49546*
Moraxellaceae	*family*	Low	*468*
Mycoplasmataceae	*family*	Low	*2092*
Nitrospiraceae	*family*	Low	*189779*
Oscillospiraceae	*family*	Low	*216572*
Peptococcaceae	*family*	High	*186807*
Peptostreptococcaceae	*family*	High	*186804*
Prevotellaceae	*family*	Low	*171552*
Propionibacteriaceae	*family*	Low	*31957*
Rikenellaceae	*family*	High	*171550*
Ruminococcaceae	*family*	Low	*541000*
Staphylococcaceae	*family*	High	*90964*
Streptococcaceae	*family*	High	*1300*
Vibrionaceae	*family*	High	*641*
Acinetobacter	*genus*	High	*469*
Actinomyces	*genus*	High	*1654*
Agathobacter	*genus*	Low	*1766253*
Akkermansia	*genus*	Low	*239934*
Alistipes	*genus*	Low	*239759*
Anaerococcus	*genus*	Low	*165779*
Anaerostipes	*genus*	Low	*207244*

Bacteria Name	Rank	Shift	Taxonomy ID
Dothideales	*order*	High	*5014*
Lactobacillales	*order*	High	*186826*
Spirochaetales	*order*	Low	*136*
[Clostridium] colinum	*species*	Low	*36835*
[Clostridium] innocuum	*species*	High	*1522*
[Clostridium] leptum	*species*	Low	*1535*
[Clostridium] nexile	*species*	Low	*29361*
[Clostridium] piliforme	*species*	High	*1524*
Acinetobacter bereziniae	*species*	High	*106648*
Actinomyces viscosus	*species*	High	*1656*
Adlercreutzia equolifaciens	*species*	Low	*446660*
Agathobacter rectalis	*species*	Low	*39491*
Akkermansia muciniphila	*species*	Low	*239935*
Alistipes finegoldii	*species*	High	*214856*
Alistipes indistinctus	*species*	Low	*626932*
Alistipes onderdonkii	*species*	High	*328813*
Alistipes putredinis	*species*	Low	*28117*
Alistipes shahii	*species*	Low	*328814*
Alloprevotella tannerae	*species*	High	*76122*
Anaerobutyricum hallii	*species*	Low	*39488*
Anaerostipes hadrus	*species*	High	*649756*
Aspergillus flavus	*species*	High	*5059*
Bacteroides caccae	*species*	Low	*47678*
Bacteroides cellulosilyticus	*species*	Low	*246787*
Bacteroides eggerthii	*species*	Low	*28111*
Bacteroides graminisolvens	*species*	High	*477666*
Bacteroides luti	*species*	Low	*1297750*
Bacteroides nordii	*species*	High	*291645*
Bacteroides ovatus	*species*	High	*28116*
Bacteroides salyersiae	*species*	Low	*291644*
Bacteroides stercoris	*species*	High	*46506*
Bacteroides thetaiotaomicron	*species*	Low	*818*
Bifidobacterium adolescentis	*species*	High	*1680*
Bifidobacterium bifidum	*species*	Low	*1681*
Bifidobacterium longum	*species*	High	*216816*
Bifidobacterium pseudocatenulatum	*species*	Low	*28026*
Blastocystis hominis	*species*	Low	*12968*
Blautia hominis	*species*	Low	*2025493*
Blautia obeum	*species*	Low	*40520*
Burkholderiales bacterium 1_1_47	*species*	Low	*469610*

Bacteria Name	Rank	Shift	Taxonomy ID
Aureobasidium	*genus*	High	*5579*
Bacteroides	*genus*	High	*816*
Bifidobacterium	*genus*	Low	*1678*
Blautia	*genus*	Low	*572511*
Burkholderia	*genus*	High	*32008*
Butyricicoccus	*genus*	Low	*580596*
Butyrivibrio	*genus*	Low	*830*
Campylobacter	*genus*	High	*194*
Candida	*genus*	High	*5475*
Candida	*genus*	High	*1535326*
Citrobacter	*genus*	High	*544*
Clostridium	*genus*	High	*1485*
Collinsella	*genus*	Low	*102106*
Coprobacillus	*genus*	High	*100883*
Coprobacter	*genus*	High	*1348911*
Coprococcus	*genus*	Low	*33042*
Corynebacterium	*genus*	High	*1716*
Debaryomyces	*genus*	High	*4958*
Dialister	*genus*	High	*39948*
Dorea	*genus*	Low	*189330*
Eggerthella	*genus*	High	*84111*
Erysipelatoclostridium	*genus*	High	*1505663*
Escherichia	*genus*	High	*561*
Eubacterium	*genus*	Low	*1730*
Faecalibacterium	*genus*	High	*216851*
Finegoldia	*genus*	High	*150022*
Fusicatenibacter	*genus*	Low	*1407607*
Fusobacterium	*genus*	High	*848*
Helicobacter	*genus*	High	*209*
Herbaspirillum	*genus*	High	*963*
Lactobacillus	*genus*	High	*1578*
Nakaseomyces	*genus*	High	*374468*
Neisseria	*genus*	High	*482*
Odoribacter	*genus*	High	*283168*
Parabacteroides	*genus*	High	*375288*
Parasutterella	*genus*	High	*577310*
Porphyromonas	*genus*	Low	*836*
Pseudomonas	*genus*	High	*286*
Romboutsia	*genus*	Low	*1501226*
Roseburia	*genus*	Low	*841*
Rothia	*genus*	High	*32207*
Rothia	*genus*	High	*508215*
Ruminococcus	*genus*	High	*1263*
Ruthenibacterium	*genus*	High	*1905344*
Shigella	*genus*	High	*620*
Streptococcus	*genus*	High	*1301*
Veillonella	*genus*	High	*29465*

Bacteria Name	Rank	Shift	Taxonomy ID
Candida albicans	*species*	High	*5476*
Candida parapsilosis	*species*	Low	*5480*
Clostridium butyricum	*species*	Low	*1492*
Collinsella aerofaciens	*species*	High	*74426*
Coprobacter fastidiosus	*species*	Low	*1099853*
Coprococcus catus	*species*	Low	*116085*
Dorea longicatena	*species*	Low	*88431*
Eggerthella lenta	*species*	High	*84112*
Enterobacter cloacae	*species*	Low	*550*
Enterocloster citroniae	*species*	High	*358743*
Enterocloster clostridioformis	*species*	Low	*1531*
Enterococcus avium	*species*	High	*33945*
Enterococcus durans	*species*	High	*53345*
Escherichia coli	*species*	High	*562*
Eubacterium limosum	*species*	Low	*1736*
Eubacterium ventriosum	*species*	Low	*39496*
Faecalibacterium prausnitzii	*species*	Low	*853*
Gemmiger formicilis	*species*	Low	*745368*
Hungatella hathewayi	*species*	High	*154046*
Klebsiella aerogenes	*species*	Low	*548*
Lachnospira eligens	*species*	Low	*39485*
Lachnospiraceae bacterium 1_1_57FAA	*species*	High	*658081*
Lachnospiraceae bacterium 1_4_56FAA	*species*	High	*658655*
Lachnospiraceae bacterium 2_1_58FAA	*species*	High	*658082*
Lawsonibacter asaccharolyticus	*species*	Low	*2108523*
Limosilactobacillus reuteri	*species*	Low	*1598*
Morganella morganii	*species*	High	*582*
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*
Phocaeicola vulgatus	*species*	Low	*821*
Prevotella bivia	*species*	High	*28125*
Pseudomonas veronii	*species*	High	*76761*
Roseburia intestinalis	*species*	Low	*166486*
Ruminococcus albus	*species*	High	*1264*
Ruminococcus bromii	*species*	Low	*40518*
Segatella copri	*species*	Low	*165179*
Staphylococcus epidermidis	*species*	High	*1282*

Bacteria Name	Rank	Shift	Taxonomy ID
Weissella	*genus*	High	*46255*

Bacteria Name	Rank	Shift	Taxonomy ID
Streptococcus infantis	*species*	High	*68892*
Streptococcus oralis	*species*	High	*1303*
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.

amiodarone hydrochloride,(prescription)
anethole-trithione,(prescription)
aripiprazole,(prescription)
astemizole,(prescription)
azaguanine-8,(prescription)
candida albicans (prescription)
Clomiphene citrate (Z,E)
clomipramine hydrochloride,(prescription)
dairy
deptropine citrate,(prescription)
DOXYCYCLINE (ANTIBIOTIC)S[CFS]
entacapone,(prescription)
ERYTHROMYCIN (ANTIBIOTIC)S[CFS]
ethaverine hydrochloride,(prescription)
fendiline hydrochloride,(prescription)
gefitinib,(prescription)
gluten-free diet
gynostemma pentaphyllum (Jiaogulan)
low carbohydrate diet
macrolide ((antibiotic)s)
mefloquine hydrochloride,(prescription)
metixene hydrochloride,(prescription)
METRONIDAZOLE (ANTIBIOTIC)S[CFS]
naftopidil dihydrochloride,(prescription)
omeprazole,(prescription)
perphenazine,(prescription)
pinaverium bromide,(prescription)
pizotifen malate,(prescription)
proadifen hydrochloride non-drug
propidium iodide non-drug
proton-pump inhibitors (prescription) 60 mg/day
quercetin,resveratrol
saquinavir mesylate,(prescription)
sertraline,(prescription)
sisomicin sulfate (antibiotic)
smoking
spectinomycin dihydrochloride (antibiotic)
suloctidil,(prescription)
tenatoprazole non-drug
thiethylperazine dimalate,(prescription)
thioridazine hydrochloride,(prescription)
toremifene,(prescription)
Tributyrin
trifluoperazine dihydrochloride,(prescription)
triflupromazine hydrochloride,(prescription)
vinpocetine,(prescription) 60 mg/day
zotepine,(prescription)
zuclopenthixol dihydrochloride,(prescription)

Substance to Consider Reducing or Eliminating

These are the most signigicant 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.

amikacin (antibiotic)s
amoxicillin (antibiotic)s[CFS]
ampicillin (antibiotic)s[CFS]
arabinogalactan (prebiotic)
bacillus subtilis (probiotics)
benzylpenicillin sodium (antibiotic)
Cacao
cinnamon (oil. spice)
ciprofloxacin (antibiotic)s[CFS]
fluoroquinolone (antibiotic)s
fructo-oligosaccharides (prebiotic)
garlic (allium sativum)
gentamicin (antibiotic)s
Human milk oligosaccharides (prebiotic, Holigos, Stachyose)
imipenem (antibiotic)s
inulin (prebiotic)
lactobacillus acidophilus (probiotics)
lactobacillus casei (probiotics)
lactobacillus paracasei (probiotics)
lactobacillus plantarum (probiotics)
lactobacillus rhamnosus gg (probiotics)
Limosilactobacillus fermentum (probiotic)
minocycline (antibiotic)s[CFS]
oregano (origanum vulgare, oil) |
piperacillin-tazobactam (antibiotic)s
resistant starch
rosmarinus officinalis,rosemary
soy
syzygium aromaticum (clove)
thyme (thymol, thyme oil)
trimethoprim (antibiotic)s
vitamin d
wheat
wheat bran

Sample of Literature Used

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

The causal relationship between gut microbiota and COVID-19: A two-sample Mendelian randomization analysis.
Medicine , Volume: 103 Issue: 5 2024 Feb 2
Authors Tian S,Huang W

Explore the changes of intestinal flora in patients with coronavirus disease 2019 based on bioinformatics.
Frontiers in cellular and infection microbiology , Volume: 13 2023
Authors Huang G,Mao Y,Zhang W,Luo Q,Xie R,Huang D,Liang Y

Profiles of gut microbiota associated with clinical outcomes in patients with different stages of SARS-CoV-2 infection.
Life sciences , 2023 Sep 30
Authors Krasaewes K,Chaiwarith R,Chattipakorn N,Chattipakorn SC

Gut microbiota in COVID-19: new insights from inside.
Gut microbes , Volume: 15 Issue: 1 2023 Jan-Dec
Authors Zhou B,Pang X,Wu J,Liu T,Wang B,Cao H

Gut microbiota composition in COVID-19 hospitalized patients with mild or severe symptoms.
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Authors Mazzarelli A,Giancola ML,Fontana A,Piselli P,Binda E,Trivieri N,Mencarelli G,Marchioni L,Vulcano A,De Giuli C,Panebianco C,Villani A,Copetti M,Perri F,Fontana C,Nicastri E,Pazienza V

The Gut Microbiome of Children during the COVID-19 Pandemic.
Microorganisms , Volume: 10 Issue: 12 2022 Dec 13
Authors Bacorn M,Romero-Soto HN,Levy S,Chen Q,Hourigan SK

Gut Microbial Disruption in Critically Ill Patients with COVID-19-Associated Pulmonary Aspergillosis.
Journal of fungi (Basel, Switzerland) , Volume: 8 Issue: 12 2022 Nov 30
Authors Maurer HC,Schult D,Koyumdzhieva P,Reitmeier S,Middelhoff M,Rasch S,List M,Janssen KP,Steiger K,Protzer U,Schmid RM,Neuhaus K,Haller D,Quante M,Lahmer T

Characteristic alterations of gut microbiota in uncontrolled gout.
Journal of microbiology (Seoul, Korea) , Volume: 60 Issue: 12 2022 Dec
Authors Ul-Haq A,Lee KA,Seo H,Kim S,Jo S,Ko KM,Moon SJ,Kim YS,Choi JR,Song HY,Kim HS

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Frontiers in microbiology , Volume: 13 2022
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The Relationship Between Pediatric Gut Microbiota and SARS-CoV-2 Infection.
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Chemico-biological interactions , Volume: 358 2022 May 1
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Barrett esophagus cancer
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Breast Cancer
Cancer (General)
Carcinoma
cdkl5 deficiency disorder
Celiac Disease
Cerebral Palsy
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Depression
Dermatomyositis
Eczema
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Epilepsy
erectile dysfunction
Fibromyalgia
Functional constipation / chronic idiopathic constipation
gallstone disease (gsd)
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus
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giant cell arteritis
Glioblastoma
Gout
Graves' disease
Halitosis
Hashimoto's thyroiditis
Heart Failure
Hemorrhoidal disease, Hemorrhoids, Piles
Hidradenitis Suppurativa
Histamine Issues
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
Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
Low bone mineral density
Lung Cancer
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
Polycystic ovary syndrome
Postural orthostatic tachycardia syndrome
Premenstrual dysphoric disorder
primary biliary cholangitis
Psoriasis
rheumatoid arthritis (RA),Spondyloarthritis (SpA)
Rosacea
Schizophrenia

scoliosis
sensorineural hearing loss
Sjögren syndrome
Sleep Apnea
Small Intestinal Bacterial Overgrowth (SIBO)
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Tourette syndrome
Type 1 Diabetes
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Ulcerative colitis
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