

Microbiome Information for: Metabolic Syndrome

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 Metabolic Syndrome

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	Morganella	genus	High	90690
Bacteroidia	class	Low	200643	Morganella	genus	High	108061
Clostridia	class	Low	186801	Olsenella	genus	Low	133925
Deltaproteobacteria	class	Low	28221	Oribacterium	genus	Low	265975
Gammaproteobacteria	class	High	1236	Oscillibacter	genus	Low	459786
Atopobiaceae	family	High	1643824	Oscillospira	genus	High	119852
Bacillaceae	family	High	186817	Oxalobacter	genus	High	846
Bifidobacteriaceae	family	High	31953	Paenibacillus	genus	Low	44249
Clostridiaceae	family	Low	31979	Pantoea	genus	High	53335
Comamonadaceae	family	High	80864	Parabacteroides	genus	High	375288
Coriobacteriaceae	family	High	84107	Paraprevotella	genus	Low	577309
Desulfovibrionaceae	family	Low	194924	Parasutterella	genus	Low	577310
Enterobacteriaceae	family	High	543	Parvimonas	genus	Low	543311
Lachnospiraceae	family	Low	186803	Peptococcus	genus	High	2740
Leptospiraceae	family	Low	170	Phocea	genus	High	1926663
Odoribacteraceae	family	Low	1853231	Porphyromonas	genus	High	836
Oscillospiraceae	family	Low	216572	Prevotella	genus	High	838
Peptococcaceae	family	High	186807	Propionibacterium	genus	Low	1743
Peptostreptococcaceae	family	Low	186804	Proteiniborus	genus	High	415014
Prevotellaceae	family	High	171552	Pseudoflavonifractor	genus	High	1017280
Syntrophomonadaceae	family	Low	68298	Pyramidobacter	genus	High	638847
Thermotogaceae	family	Low	188709	Quinella	genus	High	1567
Veillonellaceae	family	High	31977	Rhodococcus	genus	High	1827
Verrucomicrobiaceae	family	Low	203557	Rhodococcus	genus	High	1661425
Acetobacteroides	genus	High	1647173	Romboutsia	genus	Low	1501226
Acidaminococcus	genus	High	904	Roseburia	genus	Low	841
Acinetobacter	genus	High	469	Rothia	genus	High	32207
Adlercreutzia	genus	High	447020	Rothia	genus	High	508215
Aeriscardovia	genus	Low	240233	Ruminiclostridium	genus	Low	1508657
Aestuariispira	genus	High	1647175	Ruminococcus	genus	High	1263
Akkermansia	genus	Low	239934	Selenomonas	genus	Low	970
Allobaculum	genus	High	174708	Serratia	genus	High	613
Alloprevotella	genus	High	1283313	Shigella	genus	High	620
Anaeroplasma	genus	Low	2086	Staphylococcus	genus	High	1279
Anaerostipes	genus	High	207244	Streptococcus	genus	High	1301
Anaerotruncus	genus	High	244127	Subdoligranulum	genus	High	292632
Bacteroides	genus	Low	816	Succinivibrio	genus	High	83770
Barnesiella	genus	High	397864	Sutterella	genus	High	40544
Bifidobacterium	genus	Low	1678	Treponema	genus	Low	157
Bilophila	genus	High	35832	Turicibacter	genus	Low	191303
Blautia	genus	Low	572511	Vampirovibrio	genus	High	213484

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Butyricoccus	genus	Low	580596	Vibrio	genus	High	662
Butyrivibrio	genus	Low	830	Victivallis	genus	Low	172900
Campylobacter	genus	High	194	Weissella	genus	High	46255
Catabacter	genus	High	270497	Chromatiales	order	High	135613
Cellulosibacter	genus	High	1246649	Eubacteriales	order	High	186802
Cellulosilyticum	genus	Low	698776	[Ruminococcus] gnavus	species	High	33038
Christensenella	genus	High	990721	Akkermansia muciniphila	species	Low	239935
Collinsella	genus	High	102106	Bacteroides caccae	species	High	47678
Coprobacillus	genus	High	100883	Bacteroides fragilis	species	Low	817
Coprococcus	genus	Low	33042	Bacteroides intestinalis	species	High	329854
Desulfovibrio	genus	High	872	Bacteroides stercoris	species	High	46506
Dorea	genus	High	189330	Bacteroides uniformis	species	Low	820
Eggerthella	genus	High	84111	Bifidobacterium adolescentis	species	Low	1680
Eisenbergiella	genus	Low	1432051	Bifidobacterium animalis	species	Low	28025
Elusimicrobium	genus	Low	423604	Bifidobacterium longum	species	Low	216816
Escherichia	genus	High	561	Bifidobacterium pseudolongum	species	Low	1694
Eubacterium	genus	Low	1730	Clostridium butyricum	species	Low	1492
Faecalibacterium	genus	Low	216851	Collinsella aerofaciens	species	High	74426
Faecalibaculum	genus	High	1729679	Corynebacterium ammoniagenes	species	High	1697
Faecalitalea	genus	High	1573534	Enterococcus faecalis	species	High	1351
Finegoldia	genus	Low	150022	Enterococcus faecium	species	Low	1352
Flavonifractor	genus	High	946234	Escherichia coli	species	High	562
Fusobacterium	genus	High	848	Faecalibacterium prausnitzii	species	Low	853
Geosporobacter	genus	High	390805	Klebsiella pneumoniae	species	High	573
Gordonibacter	genus	High	644652	Lactiplantibacillus plantarum	species	Low	1590
Haemophilus	genus	Low	724	Lactobacillus intestinalis	species	High	151781
Holdemania	genus	High	61170	Ligilactobacillus ruminis	species	High	1623
Intestinimonas	genus	High	1392389	Limosilactobacillus reuteri	species	Low	1598
Klebsiella	genus	High	570	Micrococcus luteus	species	High	1270
Lactobacillus	genus	Low	1578	Phascolarctobacterium faecium	species	Low	33025
Lactococcus	genus	High	1357	Phocaeicola vulgatus	species	Low	821
Leptotrichia	genus	High	32067	Roseburia hominis	species	Low	301301
Leuconostoc	genus	Low	1243	Ruminococcus flavefaciens	species	High	1265
Megamonas	genus	High	158846	Anaerobutyricum hallii DSM 3353	strain	Low	411469
Megasphaera	genus	High	906	Clostridium beijerinckii NCIMB 8052	strain	Low	290402
Methanosphaera	genus	High	2316	Clostridium beijerinckii NRRL B-598	strain	Low	1428454
Morganella	genus	High	581	Bifidobacterium longum subsp. infantis	subspecies	Low	1682

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.

acetopromazine maleate salt,(prescription)
 amoxapine,(prescription)
 aspartame (sweetner)
 astemizole,(prescription)
 colinfant e.coli probiotics
 dairy
 dirithromycin (antibiotic)
DOXYCYCLINE (ANTIBIOTIC)S[CFS]
 fat
 fluorine
 gluten-free diet
 high animal protein diet
 josamycin (antibiotic)
 lactobacillus gasseri (probiotics) 10 BCFU/day
 linseed(flaxseed) 30 mg/day
 loperamide hydrochloride,(prescription)
 low carbohydrate diet
 low fodmap diet
 loxapine succinate,(prescription)
 methiothepin maleate,(prescription)
 methotrexate,(prescription)
 metixene hydrochloride,(prescription)
METRONIDAZOLE (ANTIBIOTIC)S[CFS]
 monensin sodium salt,(prescription)
 Morphine
 navy bean
 nefazodone hcl,(prescription)
 norcyclobenzaprine,(prescription)
 omega-3 fatty acids 4 gram/day
 omidazole (antibiotic)s
 penicillin-moxalactam (antibiotic)s
 perphenazine,(prescription)
 phenethicillin potassium salt (antibiotic)
 pimethixene maleate,(prescription)
 promethazine hydrochloride,(prescription)
 proton-pump inhibitors (prescription) 60 mg/day
 pyrimethamine,(prescription)
 rifampicin (antibiotic)s
 risperidone,(prescription)
 secnidazole,(prescription)
 smoking
 sucralose 340 mg/day
 sulfamethizole (antibiotic)
 sulfaphenazole (antibiotic)
 symbioflor 2 e.coli probiotics
 triflupromazine hydrochloride,(prescription)
 troleandomycin (antibiotic)
 tylosin,(prescription)
 Vitamin B9,folic acid 5 mg/day
 zotepine,(prescription)
 zuclopenthixol dihydrochloride,(prescription)

Retail Probiotics

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

symbiopharm / symbioflo 2
spain (es) / muvagyn probiotico
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
philips / colon health
Probiotic 10 Billion Active Cells Daily Maintenance
wakamoto (jp) / wakamoto pharmaceutical intestinal drug
Wakunaga / Daily Probiotic
Wakunaga / 50+
CustomProbiotics.com / L. Gasseri Probiotic Powder
SuperSmart / Lactobacillus Gasseri
Wakunaga / Pro+ Synbiotic

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.

amikacin (antibiotic)s	Human milk oligosaccharides (prebiotic, Holigos, Stachyose)
amoxicillin (antibiotic)s[CFS]	inulin (prebiotic)
arabinogalactan (prebiotic)	lactobacillus plantarum (probiotics)
bacillus subtilis (probiotics)	metformin (prescription)
barley	oregano (organum vulgare, oil)
berberine	piperacillin-tazobactam (antibiotic)s
cinnamon (oil. spice)	resveratrol (grape seed/polyphenols/red wine)
ciprofloxacin (antibiotic)s[CFS]	soy
clostridium butyricum (probiotics),Miya,Miyarisan	trimethoprim (antibiotic)s
fasting	vitamin d
gentamicin (antibiotic)s	wheat

Sample of Literature Used

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

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Acne
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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
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
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
Crohn's Disease
cystic fibrosis
deep vein thrombosis
Depression
Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy
erectile dysfunction
Fibromyalgia
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
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)
Stress / posttraumatic stress disorder
Systemic Lupus Erythematosus
Tic Disorder
Tourette syndrome
Type 1 Diabetes
Type 2 Diabetes
Ulcerative colitis
Unhealthy Ageing