

Microbiome Information for: Multiple Sclerosis

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/>)

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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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Multiple Sclerosis

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	Pedobacter	genus	High	84567
Bacteroidia	class	Low	200643	Prevotella	genus	Low	838
Clostridia	class	High	186801	Pseudomonas	genus	High	286
Coriobacteriia	class	High	84998	Psychrobacter	genus	High	497
Barnesiellaceae	family	Low	2005519	Romboutsia	genus	High	1501226
Chlamydiaceae	family	High	809	Roseburia	genus	Low	841
Christensenellaceae	family	High	990719	Shigella	genus	High	620
Clostridiaceae	family	High	31979	Sporobacter	genus	High	44748
Desulfovibrionaceae	family	High	194924	Streptococcus	genus	High	1301
Erysipelotrichaceae	family	Low	128827	Sutterella	genus	Low	40544
Lachnospiraceae	family	Low	186803	Turicibacter	genus	Low	191303
Lactobacillaceae	family	Low	33958	[Clostridium] leptum	species	High	1535
Methanobacteriaceae	family	High	2159	[Clostridium] nexile	species	High	29361
Oscillospiraceae	family	High	216572	[Clostridium] scindens	species	High	29347
Oxalobacteraceae	family	High	75682	[Lactobacillus] rogosae	species	Low	706562
Peptostreptococcaceae	family	High	186804	Agathobacter rectalis	species	Low	39491
Ruminococcaceae	family	Low	541000	Akkermansia muciniphila	species	High	239935
Verrucomicrobiaceae	family	High	203557	Alistipes onderdonkii	species	High	328813
Acinetobacter	genus	High	469	Anaerostipes hadrus	species	Low	649756
Adlercreutzia	genus	Low	447020	Bacteroides fragilis	species	Low	817
Akkermansia	genus	High	239934	Bacteroides stercoris	species	Low	46506
Alistipes	genus	High	239759	Bifidobacterium longum	species	High	216816
Anaerofustis	genus	High	264995	Blautia wexlerae	species	Low	418240
Anaerostipes	genus	Low	207244	Butyricimonas virosa	species	Low	544645
Anaerotruncus	genus	High	244127	Candida albicans	species	High	5476
Bacteroides	genus	Low	816	Chlamydia pneumoniae	species	High	83558
Bifidobacterium	genus	High	1678	Collinsella aerofaciens	species	High	74426
Bilophila	genus	High	35832	Dorea formicigenerans	species	Low	39486
Blautia	genus	High	572511	Eggerthella lenta	species	High	84112
Borrelia	genus	High	138	Eisenbergiella tayi	species	High	1432052
Butyricoccus	genus	Low	580596	Faecalibacterium prausnitzii	species	Low	853
Butyricimonas	genus	Low	574697	Holdemanella biformis	species	Low	1735
Candidatus Soleaferrea	genus	High	1470353	Hungatella hathewayi	species	High	154046
Chlamydia	genus	High	810	Lachnospira eligens	species	Low	39485
Clostridium	genus	Low	1485	Limosilactobacillus fermentum	species	Low	1613
Coprobacillus	genus	Low	100883	Megamonas funiformis	species	Low	437897
Coprococcus	genus	Low	33042	Methanobrevibacter smithii	species	High	2173
Cryptococcus	genus	High	5206	Mycobacterium avium	species	High	1764
Desulfovibrio	genus	High	872				
Dorea	genus	High	189330	Parabacteroides distasonis	species	Low	823
Eggerthella	genus	High	84111	Phocaeicola coprocola	species	Low	310298

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Erwinia	genus	High	551	Phocaeicola coprophilus	species	Low	387090
Escherichia	genus	High	561	Phocaeicola vulgatus	species	High	821
Faecalibacterium	genus	Low	216851	Roseburia inulinivorans	species	Low	360807
Flavobacterium	genus	High	237	Ruthenibacterium lactatiformans	species	High	1550024
Fusobacterium	genus	High	848	Segatella copri	species	Low	165179
Gemmiger	genus	Low	204475	Staphylococcus aureus	species	High	1280
Intestinibacter	genus	Low	1505657	Streptococcus anginosus	species	High	1328
Methanobrevibacter	genus	High	2172	Streptococcus parasanguinis	species	High	1318
Mycoplana	genus	High	13159	Streptococcus salivarius	species	High	1304
Mycoplasma	genus	High	2093	Streptococcus thermophilus	species	High	1308
Olsenella	genus	High	133925	Sutterella wadsworthensis	species	Low	40545
Parabacteroides	genus	Low	375288	Acinetobacter	species	High	909768
				calcoaceticus/baumannii complex	group	High	
				Leishmania	subgenus	High	38568

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.

Akkermansia muciniphila {Pendulum Probiotic} 10 BCFU/day

Below normal temperature {Cold exposure}

Bifidobacterium breve {B. breve} 15 BCFU/day

Bovine Milk Products {Dairy}

cranberry bean flour

grape seed extract 6 gram/day

High-protein diet {Atkins low-carbohydrate diet}

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

ketogenic diet

Lycium barbarum x Lycium chinense, {Goji Fruit, Juice}

metformin (prescription)

proton-pump inhibitors (prescription) 60 mg/day

Whole Cow milk {Whole Milk}

whole-grain diet

Zinc {Zinc Supplements} 300 mg/day

Retail Probiotics

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

Wholesome Wellness / Raw Probiotic
SuperSmart / Akkermansia Muciniphila Postbiotic (pasturized)
Bulk Probiotics / B. Breve Probiotic Powder
Seeking Health / Probiota Bifidobacterium
jarrow formulas / bifidus balance® + fos
jamieson (can) / probiotic 10 bcfu
Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
Lab One / N ° 1 SportBiotic
Pendulum / akkermansia muciniphila
Probiotic 10 Billion Active Cells Daily Maintenance
optibac / for every day
Bromatech (IT) / Bifiselle
Pendulum / Pendulum Glucose Control
klair labs / ther-biotic factor 4
CustomProbiotics.com / B. Breve Probiotic Powder
just for tummies / live bacteria
Maple Life Science™ / Bifidobacterium breve
Bioflora(MX) / Woman
Pendulum / Metabolic Daily
Wakunaga / Pro+ Synbiotic
PharmExtracta (IT) / Brevicillin Stick
Genesis Bifidobacterium Complex BB Probiotic
cytoplan(uk) / dentavital bifidophilus

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.

2,3-dihydroxypropyl dodecanoate {Monolaurin}	Lactobacillus plantarum {L. plantarum}
allium sativum {garlic}	low protein diet
amoxicillin [CFS]	meropenem
ampicillin [CFS]	Metha family {Mint}
arabinogalactan {arabinogalactan}	Moringa Oleifera
Azadirachta indica {Neem}	origanum vulgare {oregano}
benzylpenicillin sodium (antibiotic)	Outer Layers of Triticum aestivum {Wheat Bran}
Cinnamomum zeylanicum {Ceylon Cinnamon}	pectin {pectin}
ciprofloxacin [CFS]	piperacillin-tazobactam
Curcuma longa {Turmeric}	Poly[β -D-xylopyranose(1- $\rightarrow$ 4)] {Xylan}
D-(-)-Fructose {Fruit sugar}	Propolis {Bee glue}
dietary fiber	Punica granatum {pomegranate}
Diferuloylmethane {Curcumin}	Saccharomyces cerevisiae var boulardii {S. boulardii}
Fiber, total dietary	Slow digestible carbohydrates. {Low Glycemic}
fruit	β -glucan {Beta-Glucan}
Ganoderma sichuanense {Reishi Mushroom}	syzygium aromaticum {clove}
gentamicin	Thymus vulgaris {thyme}
Hericium erinaceus {Lion's Mane Mushroom }	Traditional Mediterranean diet {Mediterranean diet}
Honey {Honey }	vancomycin (antibiotic)[CFS]
imipenem	vitamin d
	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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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
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