

Microbiome Information for: Alzheimer's disease

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

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Alzheimer's disease

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	Mogibacterium	genus	Low	86331
Deltaproteobacteria	class	High	28221	Monoglobus	genus	Low	2039302
Acidaminococcaceae	family	Low	909930	Muribaculum	genus	High	1918540
Bifidobacteriaceae	family	High	31953	Neisseria	genus	High	482
Burkholderiaceae	family	High	119060	Odoribacter	genus	High	283168
Chlamydiaceae	family	High	809	Ohtaekwangia	genus	High	1210119
Clostridiaceae	family	Low	31979	Oscillibacter	genus	High	459786
Coriobacteriaceae	family	High	84107	Oscillospira	genus	High	119852
Corynebacteriaceae	family	High	1653	Papillibacter	genus	Low	100175
Defluviitaleaceae	family	High	1185407	Parabacteroides	genus	High	375288
Desulfovibrionaceae	family	High	194924	Paraprevotella	genus	Low	577309
Enterobacteriaceae	family	High	543	Peptococcus	genus	High	2740
Enterococcaceae	family	High	81852	Phascolarctobacterium	genus	High	33024
Helicobacteraceae	family	High	72293	Porphyromonas	genus	High	836
Lachnospiraceae	family	Low	186803	Prevotella	genus	High	838
Lactobacillaceae	family	Low	33958	Pseudobutyrvibrio	genus	High	46205
Oscillospiraceae	family	Low	216572	Pseudomonas	genus	High	286
Peptostreptococcaceae	family	Low	186804	Romboutsia	genus	Low	1501226
Porphyromonadaceae	family	Low	171551	Roseburia	genus	Low	841
Ruminococcaceae	family	Low	541000	Rothia	genus	Low	508215
Staphylococcaceae	family	High	90964	Ruminiclostridium	genus	Low	1508657
Verrucomicrobiaceae	family	High	203557	Ruminococcus	genus	High	1263
Actinobacillus	genus	High	713	Shigella	genus	High	620
Adlercreutzia	genus	Low	447020	Slackia	genus	Low	84108
Agathobacter	genus	Low	1766253	Sphingomonas	genus	High	13687
Agathobaculum	genus	Low	2048137	Streptococcus	genus	Low	1301
Akkermansia	genus	High	239934	Subdoligranulum	genus	High	292632
Alternaria	genus	High	5598	Turidibacter	genus	Low	191303
Anaerobacterium	genus	Low	1486725	Tyzzereella	genus	Low	1506577
Bacillus	genus	High	1386	Veillonella	genus	Low	29465
Bacteroides	genus	High	816	Bifidobacteriales	order	Low	85004
Barnesiella	genus	High	397864	Desulfovibrionales	order	High	213115
Bifidobacterium	genus	Low	1678	Erysipelotrichales	order	High	526525
Bilophila	genus	High	35832	Verrucomicrobiales	order	High	48461
Blautia	genus	Low	572511	[Clostridium] leptum	species	High	1535
Borrelia	genus	High	138	[Eubacterium] siraeum	species	Low	39492
Botrytis	genus	High	33196	[Ruminococcus] torques	species	Low	33039
Brevibacterium	genus	Low	1696	Adlercreutzia equolifaciens	species	Low	446660
Butyricicoccus	genus	Low	580596	Agathobacter rectalis	species	Low	39491
Candida	genus	High	5475	Akkermansia muciniphila	species	High	239935
Castellaniella	genus	Low	359336	Alistipes indistinctus	species	High	626932

Bacteria Name	Rank	Shift	Taxonomy ID	Bacteria Name	Rank	Shift	Taxonomy ID
Catenibacterium	genus	High	135858	Bacillus cereus	species	High	1396
Chlamydia	genus	High	810	Bacteroides caccae	species	Low	47678
Clostridium	genus	Low	1485	Bacteroides fragilis	species	High	817
Collinsella	genus	High	102106	Bacteroides ovatus	species	High	28116
Coprococcus	genus	Low	33042	Bacteroides uniformis	species	High	820
Corynebacterium	genus	Low	1716	Barnesiella intestinihominis	species	High	487174
Desulfovibrio	genus	High	872	Bilophila wadsworthia	species	Low	35833
Dialister	genus	Low	39948	Candida albicans	species	High	5476
Dorea	genus	High	189330	Chlamydia pneumoniae	species	High	83558
Enterococcus	genus	High	1350	Cutibacterium acnes	species	High	1747
Escherichia	genus	High	561	Dorea longicatena	species	High	88431
Eubacterium	genus	Low	1730	Enterococcus casseliflavus	species	High	37734
Faecalibacterium	genus	Low	216851	Eubacterium coprostanoligenes	species	High	290054
Flavobacterium	genus	High	237	Eubacterium ventriosum	species	High	39496
Flavonifractor	genus	Low	946234	Fusobacterium nucleatum	species	High	851
Fusicatenibacter	genus	Low	1407607	Haemophilus parainfluenzae	species	Low	729
Fusobacterium	genus	High	848	Helicobacter pylori	species	High	210
Gemella	genus	High	1378	Intestinimonas butyriciproducens	species	Low	1297617
Gemmiger	genus	Low	204475	Lactobacillus johnsonii	species	Low	33959
Haemophilus	genus	High	724	Lautropia mirabilis	species	Low	47671
Helicobacter	genus	High	209	Paraprevotella clara	species	High	454154
Holdemanella	genus	High	1573535	Paraprevotella xylaniphila	species	High	454155
Intestinibacter	genus	High	1505657	Phocaeicola plebeius	species	High	310297
Lachnospirillum	genus	Low	1506553	Porphyromonas gingivalis	species	High	837
Lachnospira	genus	Low	28050	Roseburia hominis	species	Low	301301
Lactiplantibacillus	genus	Low	2767842	Ruminococcus callidus	species	High	40519
Lactobacillus	genus	High	1578	Streptococcus agalactiae	species	High	1311
Levilactobacillus	genus	Low	2767886	Thomasclavelia spiroformis	species	Low	29348
Malassezia	genus	High	55193	Treponema pallidum	species	High	160
Megamonas	genus	High	158846	Treponema pectinovorum	species	High	164
				Treponema socranskii	species	High	53419

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.

2-Amino-5-(carbamoylamino)pentanoic acid {Citrulline}

Abstention from eating {Fasting}

Camellia Linnaeus {camellia}

Cannabis sativa {Marijuana}

Ethyl alcohol {Grain alcohol}

High glycemic diet {High-sugar diet (HSD)}

high red meat

High-protein diet {Atkins low-carbohydrate diet}

ketogenic diet

low carbohydrate diet

Phaseolus vulgaris {Boston bean}

red wine 250 ml/day

restricted-fiber diet {low fiber diet}

Sodium 2-stearoyllactate {sodium stearoyl lactylate}

Thiamine {Vitamin B1} 1.8 gram/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}	Lactocaseibacillus paracasei {L.paracasei}
arabinogalactan {arabinogalactan}	Lactobacillus plantarum {L. plantarum}
Avena sativa x Hordeum vulgare {barley,oat}	lactobacillus rhamnosus gg,bifidobacterium animalis lactis
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	,lactobacillus paracasei {cvs maximum strength probiotic}
bifidobacterium longum {B.Longum }	Limosilactobacillus reuteri {L. Reuteri}
Cichorium intybus {Chicory}	Propolis {Bee glue}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	Prunus dulcis {Almonds}
dietary fiber	Saccharomyces cerevisiae var boulardii {S. boulardii}
Hordeum vulgare {Barley}	Slow digestible carbohydrates. {Low Glycemic}
Lactocaseibacillus casei {L. casei}	walnuts
	wheat
	whole-grain diet

Sample of Literature Used

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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

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
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