

Microbiome Information for: Amyotrophic lateral sclerosis (ALS) Motor Neuron

For non-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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[Our Facebook Discussion Page](#)

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Amyotrophic lateral sclerosis (ALS) Motor Neuron

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
Bacteroidia	class	High	200643	Fusarium	genus	High	5506
Hungateiclostridiaceae	family	High	2304686	Intestinimonas	genus	High	1392389
Lachnospiraceae	family	Low	186803	Kineothrix	genus	High	2163168
Porphyromonadaceae	family	High	171551	Lactobacillus	genus	High	1578
Prevotellaceae	family	High	171552	Malassezia	genus	High	55193
Ruminococcaceae	family	High	541000	Mannheimia	genus	High	75984
Streptococcaceae	family	High	1300	Megamonas	genus	Low	158846
Succinivibrionaceae	family	Low	83763	Odoribacter	genus	High	283168
Veillonellaceae	family	Low	31977	Oscillibacter	genus	High	459786
Akkermansia	genus	High	239934	Parasutterella	genus	Low	577310
Anaerostipes	genus	High	207244	Peptostreptococcus	genus	Low	1257
Anaerotruncus	genus	High	244127	Pseudoflavonifractor	genus	High	1017280
Bacteroides	genus	High	816	Roseburia	genus	Low	841
Bifidobacterium	genus	High	1678	Ruminiclostridium	genus	High	1508657
Butyrivibrio	genus	High	830	Ruminococcus	genus	Low	1263
Candida	genus	High	5475	Shigella	genus	High	620
Citrobacter	genus	High	544	Sporobacter	genus	High	44748
Coprococcus	genus	High	33042	Candidatus Gastranaerophilales	order	High	1906119
Cryptococcus	genus	High	5206	Akkermansia muciniphila	species	High	239935
Desulfovibrio	genus	Low	872	Bacteroides fragilis	species	High	817
Dorea	genus	High	189330	Butyrivibrio fibrisolvens	species	Low	831
Eisenbergiella	genus	High	1432051	Cronobacter sakazakii	species	High	28141
Escherichia	genus	High	561	Escherichia coli	species	Low	562
Eubacterium	genus	Low	1730	Faecalibacterium prausnitzii	species	High	853
Faecalibacterium	genus	Low	216851	Lachnospira eligens	species	High	39485

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.

(2->1)-beta-D-fructofuranan {Inulin} 32 gram/day

Abstention from eating {Fasting}

fructo-oligosaccharides 15 gram/day

fruit

fruit/legume fibre

Hordeum vulgare {Barley} 60 gram/day

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

Lactobacillus plantarum {L. plantarum} 60 BCFU/day

oligosaccharides {oligosaccharides}

pectin {pectin}

polyphenols 3 gram/day

β-glucan {Beta-Glucan} 500 mg/day

Retail Probiotics

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

theramedix / probiotic
 nature's way (au) / restore probiotic bowel & colon health 30s
 jarrow formulas / bifidus balance® + fos
 Global Healing Center / FloraTrex
 jarrow formula / ideal bowel support® Ip299v®
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 Physician Choice / 60 Billion Probiotics
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 SuperSmart / Probio Forte
 organic 3 / gutpro
 goodbelly drink
 Ombre / Heart Health
 Symprove™
 seed / female version
 jarrow formulas / jarro-dophilus® ultra
 custom probiotics / six strain probiotic powder
 ImmuneBiotech Medical Sweden AB / GutMagnific®
 UltraFlora® Intensive Care
 OMNI-BIOTIC®/ TRAVEL
 nature's way (au) / restore probiotic 30 billion 30s
 organic 3 / primal gut
 Floradapt Cardio
 Physis / Advance Probiotics
 blackmore (au) / probiotics+ daily health
 Dr. Mercola / Complete Probiotics
 Garden of Life / Dr. Formulated Once Daily Women's
 vinco / probiotic eight 65
 Purica Probiotic Cardio
 hyperbiotics / pro-15
 nature's way (au) / restore probiotic 100 billion
 seed / male version
 solaray / microbiome probiotic colon formula
 Maple Life Science™ / Lactobacillus plantarum
 lifted naturals / mood boosting probiotic
 bioglan bio (au) / happy probiotic 50
 HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
 biospec / probiotic-5
 HMF Metabolic
 blackmores (au) / probiotics+ immune defence
 CustomProbiotics.com / L. Plantarum Probiotic Powder
 Ombre / Healthy Gut
 ISCON Elegance/ Ochek Capsule 10
 1 md / complete probiotics platinum
 UltraFlora® Immune Booster
 Nutrition Essentials / Probiotic (900 BCFU)
 OMNI-BIOTIC®/ 10 AAD
 up4 / women's
 young living/life 9
 Bromatech (IT) / Adomelle
 nature's bounty / probioti 10
 optibac / bifidobacteria & fibre
 SuperSmart / Derma Relief
 fairvital / microflora basic

Wakunaga / Max Probiotic
MegaFood / MegaFlora
Invivo / Bio.Me Femme UT
NaturalPharma / Profit Probiotics
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
Next Generation
Northwest Natural Products / PB8
Realdose
Nature's Lab Intensive GI
SuperSmart / Lactoxira
douglas laboratories / multi probiotic 40 billion
Ombre / Mood Enhancer
up4 / adult
Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
ProbioMax® Daily DF
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
Floradapt Gut Comfort
bioglan bio (au) / happy probiotic 100
Immune Defense Daily Chewable Probiotic
fürstenmed / lacto-bifido
Swiss BioEnergetics / Full Spectrum Probiotic Defence
probiotic pur (de) / realdose nutrition
visbiome
garden of life / primal defense
Bulk Probiotics / L. Plantarum Probiotic Powder
spain (es) / I3.1
renew life men's probiotic - ultimate
ferring / vsl#3
Resbiotic / resB® Lung Support
SuperSmart / Full Spectrum Probiotic Formula
jarow formulas / jarro-dophilus eps
naturopathica (au) / gastrohealth fibrepro
blackmore (au) / probiotics+ eczema relief
7 AM Ultra Probiotics
quantum wellness / restora flora
Seeking Health / Probiota HistaminX
optibac / for every day
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
vita miracle / ultra-30 probiotics
newrhythm / probiotics 20 stains
blackmores (au) / probiotics + adults daily (90 capsules)
Lake Avenue Nutrition / Probiotics 10 Strain Blend
Windcove Probiotics / Ecologic®825
ASEA VIA / BIOME
jarow formula / jarro-dophilus original
nature's way (au) / restore probiotic daily health 90s
Bromatech(IT) / FEMELLE
HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
SuperSmart / Candalb
custom probiotics / four strain lactobacilli
naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
udo's choice /super 8 gold
zint nutrition / probiotic collagen +
Smidge / Sensitive Probiotic
Krauterhaus / Lactopro
LiveWell Nutrition / Pro-45
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio

spain (es) / vivomixx
Advanced Bio-Cultures / Advance Multi Strain Probiotics
elixa / probiotic
Ombre / Ultimate Immunity
bioray / cytoflora
Purica Probiotic Intensive GI
renew life / ultimate flora
up4 / ultra
optibac / for your cholesterol

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.

(N-acetyl-p-aminophenol {TYLENOL})

Animal cohabitation {Owning a Pet}

Ethyl alcohol {Grain alcohol}

Ferrum {Iron Supplements}

N-(phosphonomethyl)glycine {glyphosate}

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
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