

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/>)

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

Email: Research@MicrobiomePrescription.com

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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	Intestinimonas	genus	High	1392389
Hungateiclostridiaceae	family	High	2304686	Kineothrix	genus	High	2163168
Lachnospiraceae	family	Low	186803	Lactobacillus	genus	High	1578
Porphyromonadaceae	family	High	171551	Malassezia	genus	High	55193
Prevotellaceae	family	High	171552	Mannheimia	genus	High	75984
Ruminococcaceae	family	High	541000	Megamonas	genus	Low	158846
Streptococcaceae	family	High	1300	Odoribacter	genus	High	283168
Succinivibrionaceae	family	Low	83763	Oscillibacter	genus	High	459786
Veillonellaceae	family	Low	31977	Parasutterella	genus	Low	577310
Akkermansia	genus	High	239934	Peptostreptococcus	genus	Low	1257
Anaerostipes	genus	High	207244	Pseudoflavonifractor	genus	High	1017280
Anaerotruncus	genus	High	244127	Ruminiclostridium	genus	High	1508657
Bifidobacterium	genus	High	1678	Ruminococcus	genus	Low	1263
Butyrivibrio	genus	High	830	Shigella	genus	High	620
Candida	genus	High	5475	Sporobacter	genus	High	44748
Citrobacter	genus	High	544	Candidatus Gastranaerophilales	order	High	1906119
Coprococcus	genus	High	33042	Akkermansia muciniphila	species	High	239935
Cryptococcus	genus	High	5206	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
Fusarium	genus	High	5506	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

bacillus subtilis {B.Subtilis } 10 BCFU/day

fructo-oligosaccharides 15 gram/day

fruit

fruit/legume fibre

Hordeum vulgare {Barley} 60 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.

Global Healing Center / FloraTrex
 Realdose
 jarow formulas / bifidus balance® + fos
 garden of life / primal defense
 theramedix / probiotic
 probiotic pur (de) / realdose nutrition
 jarow formula / ideal bowel support® lp299v®
 Physician Choice / 60 Billion Probiotics
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 nature's way (au) / restore probiotic bowel & colon health 30s
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 SuperSmart / Probio Forte
 organic 3 / gutpro
 visbiome
 UltraFlora® Intensive Care
 OMNI-BIOTIC®/ TRAVEL
 global health trax / threelac
 nature's way (au) / restore probiotic 30 billion 30s
 Law of Nature / Best Days Formula
 organic 3 / primal gut
 Floradapt Cardio
 Physis / Advance Probiotics
 bio-botanical research / profiora4r restorative probiotic
 blackmore (au) / probiotics+ daily health
 Dr. Mercola / Complete Probiotics
 Garden of Life / Dr. Formulated Once Daily Women's
 vinco / probiotic eight 65
 nature's instincts / ultra spore probiotic
 Purica Probiotic Cardio
 hyperbiotics / pro-15
 nature's way (au) / restore probiotic 100 billion
 seed / male version
 solaray / mycrobioime 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
 powerlabs (au) / ultra blend
 biospec / probiotio-5
 corebiotic
 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

mwsb / candida yeast support
microbiome labs/ megasporebiotic
optibac / bifidobacteria & fibre
klaire labs / biospora
SuperSmart / Derma Relief
fairvital / microflora basic
Energybalance / ColoBiotica 28 Colon Support
Wakunaga / Max Probiotic
MegaFood / MegaFlora
microbiome labs / hu58
Invivo / Bio.Me Femme UT
perfect pass / perfect pass probiotic bacillus spore
NaturalPharma / Profit Probiotics
goodbelly drink
enviromedica terraflora sbo probiotic
Jetson (US) / Mood Probiotics
Ombre / Heart Health
Symprove™
seed / female version
jarrow formulas / jarro-dophilus® ultra
custom probiotics / six strain probiotic powder
ImmuneBiotech Medical Sweden AB / GutMagnific®
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
Next Generation
Northwest Natural Products / PB8
Bulk Probiotics / Bacillus Subtilis Probiotic
Immune Defense Daily Chewable Probiotic
fürstenmed / lacto-bifido
Swiss BioEnergetics / Full Spectrum Probiotic Defence
newrhythm / probiotics 20 stains
blackmores (au) / probiotics + adults daily (90 capsules)
Lake Avenue Nutrition / Probiotics 10 Strain Blend
Windlove Probiotics / Ecologic®825
ASEA VIA / BIOME
jarrow formula / jarro-dophilus original
aor / probiotic-3
vitamin angels / just thrive
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
microbiome labs / restorflora
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
INVIVO THERAPEUTICS / Bio.Me IB +
elixa / probiotic
Ombre / Ultimate Immunity
bioray / cytoflora
Purica Probiotic Intensive GI

renew life / ultimate flora
up4 / ultra
optibac / for your cholesterol
Bulk Probiotics / L. Plantarum Probiotic Powder
spain (es) / l3.1
renew life men's probiotic - ultimate
ferring / vsl#3
Resbiotic / resB® Lung Support
SuperSmart / Full Spectrum Probiotic Formula
jarro formulas / jarro-dophilus eps
naturopathica (au) / gastrohealth fibrepro
blackmore (au) / probiotics+ eczema relief
7 AM Ultra Probiotics
quantum wellness / restora flora
Jetson / FIT
Seeking Health / Probiota HistaminX
optibac / for every day
Prescript-Assist®/SBO Probiotic
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
vita miracle / ultra-30 probiotics
Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
ProbioMax® Daily DF
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturerized)
organic 3 / primal soil
Floradapt Gut Comfort
SuperSmart / Bacillus Subtilis
bioglan bio (au) / happy probiotic 100
Nature's Lab Intensive GI
SuperSmart / Lactoxira
douglas laboratories / multi probiotic 40 billion
Ombre / Mood Enhancer
BIO-BOTANICAL RESEARCH / Megacidin
reserveage nutrition / beautiflora
amy meyers / primal earth probiotic
Jetson / Gut Prep
up4 / adult

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.

Ethyl alcohol {Grain alcohol}

Ferrum {Iron Supplements}

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