

Microbiome Information for: d-lactic acidosis (one form of brain fog)

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

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 d-lactic acidosis (one form of brain fog)

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
Leuconostoc	genus	High	1243	Lentilactobacillus buchneri	species	High	1581
Salmonella	genus	High	590	Leuconostoc citreum	species	High	33964
Sporolactobacillus	genus	High	2077	Leuconostoc gelidum	species	High	1244
Weissella	genus	High	46255	Leuconostoc mesenteroides	species	High	1245
Salmonella enterica subsp. enterica serovar Enteritidis	no rank	High	149539	Ligilactobacillus salivarius	species	High	1624
Escherichia coli	species	High	562	Limosilactobacillus fermentum	species	High	1613
Lactacaseibacillus casei	species	High	1582	Limosilactobacillus mucosae	species	High	97478
Lactacaseibacillus rhamnosus	species	High	47715	Limosilactobacillus reuteri	species	High	1598
Lactiplantibacillus plantarum	species	High	1590	Listeria monocytogenes	species	High	1639
Lactobacillus acidophilus	species	High	1579	Methylobacterium sp. DH-1	species	High	1727196
Lactobacillus crispatus	species	High	47770	Neisseria meningitidis	species	High	487
Lactobacillus delbrueckii	species	High	1584	Pseudomonas syringae	species	High	317
Lactobacillus gasseri	species	High	1596	Staphylococcus aureus	species	High	1280
Lactobacillus johnsonii	species	High	33959	Streptococcus pneumoniae	species	High	1313
Lactococcus lactis	species	High	1358	Weissella soli	species	High	155866
Lactococcus piscium	species	High	1364	Lactacaseibacillus rhamnosus GG	strain	High	568703
				Lactobacillus delbrueckii subsp. bulgaricus	subspecies	High	1585

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

Avena sativa x Hordeum vulgare {barley,oat}

bacillus subtilis {B.Subtilis } 10 BCFU/day

Bifidobacterium animalis subsp. lactis {B. Lactis} 1 BCFU/day

bifidobacterium longum {B.Longum } 10 BCFU/day

Bovine Milk Products {Dairy}

dietary fiber

Fermented Brassica oleracea {Sauerkraut}

Fiber, total dietary

fructo-oligosaccharides 15 gram/day

fruit

fruit/legume fibre

Grape Polyphenols {Grape Flavonoids}

High-fibre diet {Whole food diet}

Hordeum vulgare {Barley} 60 gram/day

Lactobacillus plantarum {L. plantarum} 60 BCFU/day

Malus domestica {apple}

oligosaccharides {oligosaccharides}

Outer Layers of Triticum aestivum {Wheat Bran}

pectin {pectin}

polyphenols 3 gram/day

resveratrol-pterostilbene {grapes, blueberries} 2 gram/day

Slow digestible carbohydrates. {Low Glycemic}

whole-grain diet

Retail Probiotics

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

Global Healing Center / FloraTrex
 Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
 Realdose
 nature's way (au) / restore probiotic bowel & colon health 30s
 probiotic pur (de) / realdose nutrition
 theramedix / probiotic
 SuperSmart / Full Spectrum Probiotic Formula
 garden of life / primal defense
 quantum wellness / restora flora
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 Physician Choice / 60 Billion Probiotics
 organic 3 / gutpro
 organic 3 / primal gut
 lifted naturals / mood boosting probiotic
 hyperbiotics / pro-15
 Physis / Advance Probiotics
 nature's way (au) / restore probiotic 100 billion
 seed / male version
 solaray / microbiome probiotic colon formula
 Dr. Mercola / Complete Probiotics
 Garden of Life / Dr. Formulated Once Daily Women's
 fairvital / microflora basic
 Wakunaga / Max Probiotic
 MegaFood / MegaFlora
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 seed / female version
 Ombre / Heart Health
 klair labs / ther-biotic factor 4
 PoolPharma (IT) / ProbioTKMIO
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 HMF Metabolic
 blackmores (au) / probiotics+ immune defence
 1 md / complete probiotics platinum
 OMNI-BIOTIC® / 10 AAD
 young living / life 9
 nature's bounty / probioti 10
 optibac / bifidobacteria & fibre
 Northwest Natural Products / PB8
 Seeking Health / Probiota HistaminX
 optibac / for every day
 vita miracle / ultra-30 probiotics
 jarow formula / ideal bowel support® lp299v®
 HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
 Probiotic 10 Billion Active Cells Daily Maintenance
 renew life men's probiotic - ultimate
 ferring / vsl#3
 newrhythm / probiotics 20 stains
 fürstenmed / lacto-bifido
 Swiss BioEnergetics / Full Spectrum Probiotic Defence
 ASEA VIA / BIOME
 Lake Avenue Nutrition / Probiotics 10 Strain Blend
 HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
 naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
 udo's choice / super 8 gold

Smidge / Sensitive Probiotic
Krauterhaus / Lactopro
LiveWell Nutrition / Pro-45
spain (es) / vivomixx
Advanced Bio-Cultures / Advance Multi Strain Probiotics
visbiome
jarrow formulas / bifidus balance® + fos
up4 / adult
SuperSmart / Lactoxira
douglas laboratories / multi probiotic 40 billion
Ombre / Mood Enhancer
ProbioMax® Daily DF
bioglan bio (au) / happy probiotic 100
elixa / probiotic
bioray / cytoflora
renew life / ultimate flora
up4 / ultra
quality health (au) / fridge free probiotic 25b
optibac / for your cholesterol
Purica Probiotic Intensive GI
align / align
Ombre / Ultimate Immunity
HLH BIOPHARMA(DE) / LACTOBACT® AAD
naturopathica (au) / gastrohealth probiotic adults 50+
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturized)
organic 3 / primal soil
Align® Extra Strength
Floradapt Gut Comfort
SuperSmart / Bacillus Subtilis
BIO-BOTANICAL RESEARCH / Megacidin
reserveage nutrition / beautiflora
amy meyers / primal earth probiotic
PrecisionBiotics / Zenflore
PharmExtracta / Bowell
Jetson / Gut Prep
HMF Intensive
Nature's Lab Intensive GI
Schwabe Pharma Italia / MegaStress
Seeking Health / Probiota Bifidobacterium
INVIVO THERAPEUTICS / Bio.Me IB +
genestra brands® hm
Metabolics / Lactobacillus Plantarum Powder
Nature's Lab Cardio
microbiome labs / restorflora
zint nutrition / probiotic collagen +
SuperSmart / Candalb
custom probiotics / four strain lactobacilli
Metabolics / Bifidobacterium Longum Powder
Windlove Probiotics / Ecologic®825
Bulk Probiotics / B. Longum Probiotic Powder
Wholesome Wellness / Raw Probiotic
jarrow formula / jarro-dophilus original
aor / probiotio-3
vitamin angels / just thrive
nature's way (au) / restore probiotic daily health 90s
Bromatech(IT) / FEMELLE
Maple Life Science™ / Bifidobacterium longum
Bromatech (IT) / Rotanelle plus

Immune Defense Daily Chewable Probiotic
 blackmores (au) / probiotics + adults daily (90 capsules)
 Bulk Probiotics / Bacillus Subtilis Probiotic
 Resbiotic / resB® Lung Support
 Jetson / FIT
 Bulk Probiotics / L. Plantarum Probiotic Powder
 spain (es) / I3.1
 jamieson (can) / probiotic 10 bcfu
 Align / Align® Chewables
 Wakunaga / Kyo-Dophilus® Multi 9 Probiotic
 custom probiotics / d-lactate free probiotics powder
 klair labs / target gb-x
 jarro formulas / jarro-dophilus eps
 spain (es) / ns defenbiotic kids
 naturopathica (au) / gastrohealth fibrepro
 philips / colon health
 blackmore (au) / probiotics+ eczema relief
 7 AM Ultra Probiotics
 Next Generation
 Bromatech (IT) / Bifiselle
 Prescript-Assist®/SBO Probiotic
 Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
 bravo europe / starter and complex
 wakamoto (jp) / wakamoto pharmaceutical intestinal drug
 custom probiotics / five strain bifidobacteria
 Wakunaga / Daily Probiotic
 SuperSmart / Probio Forte
 goodbelly drink
 enviromedica terraflora sbo probiotic
 Microbiome Labs / ZENBIOME Dual
 canada (ca) / calmbiotic
 Jetson (US) / Mood Probiotics
 Sanogermina / AB-Kolicare
 klair labs / biospora
 SuperSmart / Derma Relief
 HMF Forte
 Bioflora(MX) / Woman
 mwsb / candida yeast support
 microbiome labs/ megasporebiotic
 Bromatech (IT) / Adomelle
 up4 / women's
 UltraFlora® Immune Booster
 Nutrition Essentials / Probiotic (900 BCFU)
 CustomProbiotics.com / L. Plantarum Probiotic Powder
 SuperSmart / Oral Health
 Ombre / Healthy Gut
 PharmExtracta (IT) / Gliadines buccal stickpacks
 ISCON Elegance/ Ochek Capsule 10
 CVSHealth / Daily Probiotic
 Bromatech (IT) / Serobiome
 biospec / probiotic-5
 corebiotic
 Wakunaga / 50+
 custom probiotics / six strain probiotic powder
 HLH BIOPHARMA(DE) / LACTOBACT ® FORTE
 FloraVantage® Balance
 ImmuneBiotech Medical Sweden AB / GutMagnific®
 Symprove™

InnovixLabs / Mood Probiotic
optibac / for every day max
jarrow formulas / jarro-dophilus® ultra
Optibac Probiotics / Bifidobacterium lactis HN019
spain (es) / profaes4 viajeros
UltraFlora® Intensive Care
Ombre / Metabolic Booster
OMNI-BIOTIC®/ TRAVEL
global health trax / threelac
nature's way (au) / restore probiotic 30 billion 30s
Law of Nature / Best Days Formula
HMF IBS Relief
Maple Life Science™ / Bifidobacterium Animalis
Wakunaga / Pro+ Synbiotic
microbiome labs / hu58
Invivo / Bio.Me Femme UT
blackmore (au) / probiotics+ bowel support
perfect pass / perfect pass probiotic bacillus spore
Probiotic Sticks
NaturalPharma / Profit Probiotics
jarrow formulas / jarro-dophilus mood
spain (es) / profaes4 edad escolar
Energybalance / ColoBiotica 28 Colon Support
vinco / probiotic eight 65
nature's instincts / ultra spore probiotic
NOW FOODS / Clinical GI Probiotic
Purica Probiotic Cardio
Activia®
PrecisionBiotics / Immune
UltraFlora® Control
Maple Life Science™ / Lactobacillus plantarum
bio-botanical research / proflora4r restorative probiotic
blackmore (au) / probiotics+ daily health
Floradapt Cardio
naturopathica (au)/ gastrohealth probiotic daily care
Genesis Bifidobacterium Complex BB Probiotic
FloraVantage® Control
cytoplan(uk) / dentavital bifidophilus
bioglan bio (au) / happy probiotic 50
CustomProbiotics.com / B. Longum Probiotic Powder
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
powerlabs (au) / ultra blend

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.

amoxicillin [CFS]	Ocimum gratissimum {Clove basil}
ampicillin [CFS]	piperacillin-tazobactam
Azadirachta indica {Neem}	Propolis {Bee glue}
benzylpenicillin sodium (antibiotic)	rifampicin
chloramphenicol	rosmarinus officinalis {rosemary}
Cinnamomum zeylanicum {Ceylon Cinnamon}	Sodium Chloride {Salt}
ciprofloxacin [CFS]	syzygium aromaticum {clove}
Diferuloylmethane {Curcumin}	terpenophenolics {cannabinoids}
imipenem	tetracycline
Metha family {Mint}	Thymus vulgaris {thyme}
neomycin [CFS]	vancomycin (antibiotic)[CFS]
	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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

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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