

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

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

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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
Lactcaseibacillus casei	species	High	1582	Limosilactobacillus mucosae	species	High	97478
Lactcaseibacillus 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	Lactcaseibacillus 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.

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

Avena sativa x Hordeum vulgare {barley,oat}

bacillus subtilis {B.Subtilis } 10 BCFU/day

bacillus,lactobacillus,streptococcus,saccharomyces probiotic

Bovine Milk Products {Dairy}

fructo-oligosaccharides 15 gram/day

fruit

fruit/legume fibre

Grape Polyphenols {Grape Flavonoids}

grapes

Hordeum vulgare {Barley} 60 gram/day

Lactobacillus plantarum {L. plantarum} 60 BCFU/day

oligosaccharides {oligosaccharides}

Outer Layers of Triticum aestivum {Wheat Bran}

polyphenols 3 gram/day

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

resveratrol-pterostilbene x Quercetin {quercetin x resveratrol}

soy 25 gram/day

yogurt

Retail Probiotics

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

Global Healing Center / FloraTrex
 garden of life / primal defense
 Physician Choice / 60 Billion Probiotics
 Realdose
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 probiotic pur (de) / realdose nutrition
 theramedix / probiotic
 jarow formula / ideal bowel support® lp299v®
 jarow formulas / bifidus balance® + fos
 naturopathica (au) / gastrohealth probiotic dairy free 50 billion
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 nature's way (au) / restore probiotic bowel & colon health 30s
 nature's way (au) / restore probiotic 100 billion
 nature's way (au) / restore probiotic daily health 90s
 nature's way (au) / restore probiotic 30 billion 30s
 blackmores (au) / probiotics + adults daily (90 capsules)
 blackmores (au) / probiotics+ immune defence
 blackmore (au) / probiotics+ eczema relief
 blackmore (au) / probiotics+ daily health
 bioglan bio (au) / happy probiotic 100
 bioglan bio (au) / happy probiotic 50
 jarow formulas / jarro-dophilus® ultra
 newrhythm / probiotics 20 stains
 corebiotic
 naturopathica (au) / gastrohealth fibrepro
 naturopathica (au) / gastrohealth probiotic ultimate daily care 100billion
 biospec / probiotic-5
 zint nutrition / probiotic collagen +
 bio-botanical research / proflora4r restorative probiotic
 reserveage nutrition / beautiflora
 elixa / probiotic
 amy meyers / primal earth probiotic
 1 md / complete probiotics platinum
 renew life / ultimate flora
 microbiome labs / hu58
 microbiome labs / restorflora
 organic 3 / gutpro
 organic 3 / primal gut
 organic 3 / primal soil
 powerlabs (au) / ultra blend
 up4 / ultra
 up4 / adult
 up4 / women's
 douglas laboratories / multi probiotic 40 billion
 vinco / probiotic eight 65
 custom probiotics / four strain lactobacilli
 custom probiotics / six strain probiotic powder
 renew life men's probiotic - ultimate
 lifted naturals / mood boosting probiotic
 aor / probiotic-3
 vita miracle / ultra-30 probiotics
 global health trax / threelac
 bioray / cytoflora
 seed / female version

seed / male version
vitamin angels / just thrive
microbiome labs/ megasporebiotic
perfect pass / perfect pass probiotic bacillus spore
quantum wellness / restora flora
enviromedica terraflora sbo probiotic
nature's instincts / ultra spore probiotic
nature's bounty / probioti 10
solaray / mycrobioime probiotic colon formula
mwsb / candida yeast support
ferring / vsl#3
fairvital / microflora basic
fürstenmed / lacto-bifido
jarrow formulas / jarro-dophilus eps
udo's choice /super 8 gold
klaire labs / biospora
spain (es) / I3.1
spain (es) / vivomixx
goodbelly drink
visbiome
young living/life 9
optibac / for every day
optibac / for your cholesterol
optibac / bifidobacteria & fibre
Prescript-Assist®/SBO Probiotic
Metabolics / Lactobacillus Plantarum Powder
Invivo / Bio.Me Femme UT
ImmuneBiotech Medical Sweden AB / GutMagnific®
Bromatech (IT) / Adomelle
Smidge /Sensitive Probiotic
Ombre / Mood Enhancer
Ombre / Healthy Gut
Ombre / Heart Health
Ombre / Ultimate Immunity
INVIVO THERAPEUTICS / Bio.Me IB +
BIO-BOTANICAL RESEARCH / Megacidin
Krauterhaus / Lactopro
Dr. Mercola / Complete Probiotics
Lake Avenue Nutrition / Probiotics 10 Strain Blend
MegaFood / MegaFlora
ProbioMax® Daily DF
Resbiotic /resB® Lung Support
Energybalance / ColoBiotica 28 Colon Support
SuperSmart / Probio Forte
SuperSmart / Bacillus Subtilis
SuperSmart / Full Spectrum Probiotic Formula
SuperSmart / Candalb
SuperSmart / Derma Relief
SuperSmart / Lactobacillus Plantarum Postbiotic (Pasturerized)
SuperSmart / Lactoxira
ISCON Elegance/ Ochek Capsule 10
Bromatech(IT) / FEMELLE
Northwest Natural Products / PB8
Law of Nature / Best Days Formula
Floradapt Cardio
Floradapt Gut Comfort
HMF Metabolic
Immune Defense Daily Chewable Probiotic

Nature's Lab Cardio
Nature's Lab Intensive GI
Purica Probiotic Cardio
Purica Probiotic Intensive GI
Symprove™
UltraFlora® Immune Booster
UltraFlora® Intensive Care
Maple Life Science™ / Lactobacillus plantarum
Wakunaga / Max Probiotic
Bioflora (Mx) / BIOFLORA / 30 BILLION 10 strains
Bulk Probiotics / L. Plantarum Probiotic Powder
Bulk Probiotics / Bacillus Subtilis Probiotic
Next Generation
natviehealthcare.com/Renewbiome Bacillus
natviehealthcare.com/Renewbiome Mega
Windlove Probiotics / Ecologic®825
Jetson / FIT
Jetson (US) / Mood Probiotics
Jetson / Gut Prep
ASEA VIA / BIOME
Seeking Health / Probiota HistaminX
CustomProbiotics.com / L. Plantarum Probiotic Powder
HLH BIOPHARMA(DE) / LACTOBACT ® PREMIUM
HLH BIOPHARMA(DE) / LACTOBACT ® 60PLUS
HLH BIOPHARMA(DE) / LACTOBACT ® LDL-CONTROL
OMNI-BIOTIC®/ 10 AAD
OMNI-BIOTIC®/ TRAVEL
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis
7 AM Ultra Probiotics
LiveWell Nutrition / Pro-45
Garden of Life / Dr. Formulated Once Daily Women's
Nutrition Essentials / Probiotic (900 BCFU)
hyperbiotics / pro-15
jarrow formula / jarro-dophilus original
Physis / Advance Probiotics
Swiss BioEnergetics / Full Spectrum Probiotic Defence
NaturalPharma / Profit Probiotics
Advanced Bio-Cultures / Advance Multi Strain Probiotics

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.

2H-1?6,2-benzothiazol-1,1,3-trione {Saccharin}

Azadirachta indica {Neem}

Diferuloylmethane {Curcumin}

Ferrum {Iron Supplements}

Propolis {Bee glue}

rosmarinus officinalis {rosemary}

Sodium Chloride {Salt}

β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine
{Chitosan}

syzygium aromaticum {clove}

Thymus vulgaris {thyme}

Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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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
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Cognitive Function
Colorectal Cancer
Constipation
Coronary artery disease
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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)
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Schizophrenia
scoliosis
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