

Microbiome Information for: ADHD

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 ADHD

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	Faecalibacterium	genus	Low	216851
Deltaproteobacteria	class	Low	28221	Fusobacterium	genus	High	848
Bifidobacteriaceae	family	High	31953	Gracilibacter	genus	Low	342658
Catabacteriaceae	family	Low	424536	Lactobacillus	genus	Low	1578
Gracilibacteraceae	family	Low	541019	Neisseria	genus	High	482
Neisseriaceae	family	High	481	Odoribacter	genus	High	283168
Peptostreptococcaceae	family	High	186804	Parabacteroides	genus	High	375288
Porphyromonadaceae	family	High	171551	Phascolarctobacterium	genus	High	33024
Prevotellaceae	family	Low	171552	Ruminococcus	genus	High	1263
Rikenellaceae	family	High	171550	Shigella	genus	Low	620
Selenomonadaceae	family	High	1843491	Streptococcus	genus	High	1301
Veillonellaceae	family	High	31977	Subdoligranulum	genus	Low	292632
Acetivibrio	genus	Low	35829	Succinivibrio	genus	High	83770
Acidaminococcus	genus	High	904	Veillonella	genus	High	29465
Actinomyces	genus	Low	1654	Bifidobacteriales	order	High	85004
Agathobacter	genus	High	1766253	Desulfovibrionales	order	Low	213115
Alistipes	genus	High	239759	Acinetobacter baumannii	species	High	470
Alloprevotella	genus	High	1283313	Anaerobutyricum hallii	species	Low	39488
Anaerotaenia	genus	Low	1843206	Bacteroides ovatus	species	High	28116
Bifidobacterium	genus	High	1678	Bacteroides uniformis	species	High	820
Coprococcus	genus	Low	33042	Bifidobacterium adolescentis	species	High	1680
Corynebacterium	genus	Low	1716	Bifidobacterium longum	species	High	216816
Desulfovibrio	genus	High	872	Coprococcus eutactus	species	Low	33043
Eggerthella	genus	Low	84111	Francisella tularensis	species	Low	263
Enterobacter	genus	Low	547	Phocaeicola coprocola	species	Low	310298
Escherichia	genus	Low	561	Staphylococcus aureus	species	High	1280
Eubacterium	genus	High	1730	Sutterella stercoricanis	species	High	234908

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}

Bovine Milk Products {Dairy}

dietary fiber

Ethyl alcohol {Grain alcohol}

Fiber, total dietary

fructo-oligosaccharides 15 gram/day

fruit

fruit/legume fibre

High-fibre diet {Whole food diet}

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

Lactocaseibacillus rhamnosus {l. rhamnosus} 48 BCFU/day

oligosaccharides {oligosaccharides}

Outer Layers of Triticum aestivum {Wheat Bran}

partially hydrolysed guar gum

Slow digestible carbohydrates. {Low Glycemic}

synthetic disaccharide derivative of lactose {Lactulose}

wheat

yogurt

Retail Probiotics

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

blackmore (au) / probiotics+ eczema relief
 jarrow formulas / bifidus balance® + fos
 ISCON Elegance/ Ochek Capsule 10
 Bromatech(IT) / FEMELLE
 Pregnancy Care Probiotic
 ProGoes® Forte
 Symprove™
 Bulk Probiotics / L. Rhamnosus Probiotic Powder
 jarrow formulas / jarro-dophilus® ultra
 naturopathica (au) / gastrohealth fibrepro
 naturopathica (au) / gastrohealth probiotic dairy free 20 bcfu
 bioglan bio (au) / happy probiotic 50
 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+ daily health
 Nu U (uk) /Bio-Cultures Complex
 CustomProbiotics.com / L. Rhamnosus Probiotic Powder
 OMNi-BIOTIC®/ TRAVEL
 7 AM Ultra Probiotics
 Sash Vitality /Bio-Cultures Probiotics for Adults
 Nutrition Essentials / Probiotic (900 BCFU)
 Bio Schwartz / Advance Strength Probiotics (40 BCFU)
 Metabolics / Lactobacillus Rhamnosus Powder
 Bromatech (IT) / Lautoselle
 Bromatech (IT) / Ramnoselle
 Biorela® Daily
 Ombre / Harmony
 Resbiotic /resB® Lung Support
 SuperSmart / Candalb
 SuperSmart / Derma Relief
 SuperSmart / Vaginal Health
 custom probiotics / four strain lactobacilli
 custom probiotics / six strain probiotic powder
 jarrow formulas / jarro-dophilus eps
 spain (es) / ns florabiotic instant
 spain (es) / muvagyn probiotico
 spain (es) / ns defenbiotic kids
 bio-k+
 optibac / for those on antibiotics
 optibac / bifidobacteria & fibre
 up4 /women's
 vinco / probiotic eight 65
 biospec / probiotio-5
 zint nutrition / probiotic collagen +
 just for tummies / live bacteria
 bravo europe / freeze-dried bravo
 jarrow formula / jarro-dophilus original

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.

(2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-trimethylcyclohex-1-en-1-yl)nona-2,4,6,8-tetraen-1-ol {Vitamin A}	imipenem
allium sativum {garlic}	Limosilactobacillus reuteri {L. Reuteri}
amoxicillin [CFS]	linezolid (antibiotic)
ampicillin [CFS]	long-term, moderate-intensity exercise {exercise}
Arthrospira platensis {Spirulina}	low protein diet
Azadirachta indica {Neem}	meropenem
bacillus subtilis {B.Subtilis }	metronidazole [CFS]
benzylpenicillin sodium (antibiotic)	minocycline [CFS]
bifidobacterium longum {B.Longum }	moxifloxacin (antibiotic)
Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}	N-[2-(5-methoxy-1H-indol-3-yl)ethyl]acetamide {Melatonin}
chloramphenicol	Panax ... {Ginseng}
chlorhexidine	Pediococcus pentosaceus {P. pentosaceus}
clindamycin [CFS]	penicillin-moxalactam
Disodium fumarate {Fumaric acid disodium salt}	piperacillin-tazobactam
doxycycline [CFS]	Plant-based diet {Vegetarian diet}
erythromycin [CFS]	Propolis {Bee glue}
Hericium erinaceus {Lion's Mane Mushroom }	rifaximin
high-fat diets	Saccharomyces cerevisiae var boulardii {S. boulardii}
Honey {Honey }	Sus domesticus {Pork}
Humulus lupulus {Hops}	vancomycin (antibiotic)[CFS]
Humulus lupulus compound {Xanthohumol}	Zingiber officinale Roscoe {ginger}

Sample of Literature Used

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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