

Microbiome Information for: Chronic Kidney Disease

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

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Chronic Kidney Disease

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
Enterobacteriaceae	family	High	543	Parabacteroides	genus	High	375288
Erysipelotrichaceae	family	High	128827	Prevotella	genus	High	838
Halomonadaceae	family	High	28256	Romboutsia	genus	Low	1501226
Lachnospiraceae	family	Low	186803	Roseburia	genus	Low	841
Lactobacillaceae	family	Low	33958	Ruminiclostridium	genus	High	1508657
Moraxellaceae	family	High	468	Scardovia	genus	High	196081
Porphyromonadaceae	family	High	171551	Shigella	genus	High	620
Prevotellaceae	family	Low	171552	Subdoligranulum	genus	Low	292632
Pseudomonadaceae	family	High	135621	Thiothrix	genus	High	1030
Akkermansia	genus	Low	239934	Tyzzereella	genus	Low	1506577
Bacteroides	genus	High	816	Veillonella	genus	High	29465
Bilophila	genus	Low	35832	Weissella	genus	High	46255
Brachybacterium	genus	High	43668	[Clostridium] innocuum	species	High	1522
Butyrivibrio	genus	Low	580596	[Ruminococcus] lactaris	species	Low	46228
Camobacterium	genus	Low	2747	[Ruminococcus] torques	species	High	33039
Catenibacterium	genus	High	135858	Agathobacter rectalis	species	Low	39491
Coprococcus	genus	Low	33042	Bacteroides caccae	species	High	47678
Dialister	genus	Low	39948	Bacteroides eggerthii	species	High	28111
Dielma	genus	High	1472649	Bacteroides stercoris	species	Low	46506
Dorea	genus	High	189330	Butyrivibrio crossotus	species	Low	45851
Eggerthella	genus	High	84111	Clostridioides difficile	species	High	1496
Erysipelatoclostridium	genus	High	1505663	Coprococcus catus	species	High	116085
Escherichia	genus	High	561	Eubacterium coprostanoligenes	species	High	290054
Flavonifractor	genus	High	946234	Faecalibacterium prausnitzii	species	Low	853
Holdemanella	genus	High	1573535	Flavobacteriaceae bacterium	species	High	1871037
Klebsiella	genus	High	570	Francisella tularensis	species	Low	263
Lachnoclostridium	genus	Low	1506553	Lachnospiraceae bacterium	species	Low	1898203
Lachnospira	genus	Low	28050	Listeria monocytogenes	species	High	1639
Lactobacillus	genus	Low	1578	Mediterraneibacter gnavus	species	High	33038
Megamonas	genus	High	158846	Oxalobacter formigenes	species	High	847
Nesterenkonia	genus	High	57494	Prevotella sp.	species	Low	59823
Oscillibacter	genus	High	459786	Roseburia inulinivorans	species	Low	360807

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.

Ethyl alcohol {Grain alcohol}

Ferrum {Iron Supplements} 400 mg/day

High glycemic diet {High-sugar diet (HSD)}

high red meat

High-protein diet {Atkins low-carbohydrate diet}

N-(phosphonomethyl)glycine {glyphosate}

proton-pump inhibitors (prescription) 60 mg/day

Sleep apnea {partial sleep deprivation}

Sucralose {Splenda} 340 mg/day

Tobacco consumption {Smoking}

Under cooked animal protein {Rare meat}

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.

(2->1)-beta-D-fructofuranan {Inulin}	Lactocaseibacillus rhamnosus {L. rhamnosus}
3,3',4',5,7-pentahydroxyflavone {Quercetin}	Lactobacillus acidophilus {L. acidophilus}
Avena sativa x Hordeum vulgare {barley,oat}	Lactobacillus plantarum {L. plantarum}
bacillus	Limosilactobacillus fermentum {L. fermentum}
bacillus subtilis {B.Subtilis }	Limosilactobacillus reuteri {L. Reuteri}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	long-term, moderate-intensity exercise {exercise}
bifidobacterium longum {B.Longum }	oligosaccharides {oligosaccharides}
Bovine Milk Products {Dairy}	origanum vulgare {oregano}
dietary fiber	polyphenols
Diferuloylmethane {Curcumin}	Probiotic Mixture 1 {Japanese Vet Probiotic}
enterococcus faecium {E. faecium}	Probiotic Mixture 2 {Vetafarm Probiotic}
Fiber, total dietary	Propolis {Bee glue}
fruit	Saccharomyces cerevisiae var boulardii {S. boulardii}
fruit/legume fibre	Slow digestible carbohydrates. {Low Glycemic}
High-fibre diet {Whole food diet}	Thymus vulgaris {thyme}
Hordeum vulgare {Barley}	wheat
Lactocaseibacillus casei {L. casei}	whole-grain diet
Lactocaseibacillus paracasei {L.paracasei}	yogurt

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