

Microbiome Information for: Unhealthy Ageing

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 Unhealthy Ageing

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
Atopobiaceae	family	High	1643824	Oscillospira	genus	Low	119852
Christensenellaceae	family	Low	990719	Oxalobacter	genus	Low	846
Coriobacteriaceae	family	Low	84107	Parabacteroides	genus	Low	375288
Enterobacteriaceae	family	High	543	Prevotella	genus	Low	838
Actinomyces	genus	High	1654	Roseburia	genus	Low	841
Akkermansia	genus	Low	239934	Streptococcus	genus	High	1301
Alistipes	genus	Low	239759	Subdoligranulum	genus	Low	292632
Bacteroides	genus	High	816	Veillonella	genus	High	29465
Barnesiella	genus	Low	397864	[Ruminococcus] torques	species	High	33039
Bifidobacterium	genus	Low	1678	Agathobacter rectalis	species	Low	39491
Bilophila	genus	High	35832	Alistipes senegalensis	species	Low	1288121
Butyridimonas	genus	Low	574697	Bacteroides fragilis	species	High	817
Butyrivibrio	genus	Low	830	Bifidobacterium pseudocatenulatum	species	Low	28026
Campylobacter	genus	High	194	Bifidobacterium sp.	species	Low	41200
Coprobacillus	genus	High	100883	Clostridioides difficile	species	High	1496
Desulfovibrio	genus	High	872	Enterocloster bolteae	species	High	208479
Dorea	genus	High	189330	Eubacterium coprostanoligenes	species	Low	290054
Eggerthella	genus	High	84111	Fusobacterium nucleatum	species	High	851
Enterococcus	genus	High	1350	Hungatella hathewayi	species	High	154046
Faecalibacterium	genus	Low	216851	Lactobacillus amylovorus	species	Low	1604
Fusobacterium	genus	High	848	Ligilactobacillus salivarius	species	Low	1624
Lactobacillus	genus	Low	1578	Mediterraneibacter gnavus	species	High	33038
Megamonas	genus	High	158846	Phocaeicola massiliensis	species	High	204516
Neisseria	genus	High	482	Phocaeicola vulgatus	species	High	821
Odoribacter	genus	Low	283168	[Clostridium] clostridioforme	strain	High	742735
				2_1_49FAA			

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-fat diets

High-protein diet {Atkins low-carbohydrate diet}

proton-pump inhibitors (prescription) 60 mg/day

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}

bacillus subtilis {B.Subtilis }

bacillus,lactobacillus,streptococcus,saccharomyces probiotic

Bifidobacterium animalis subsp. lactis {B. Lactis}

bifidobacterium longum {B.Longum }

dietary fiber

Fiber, total dietary

fruit

fruit/legume fibre

High-fibre diet {Whole food diet}

Hordeum vulgare {Barley}

Human milk oligosaccharides (prebiotic, Holigos, Stachyose)

Lactobacillus plantarum {L. plantarum}

oligosaccharides {oligosaccharides}

polyphenols

Slow digestible carbohydrates. {Low Glycemic}

β-glucan {Beta-Glucan}

whole-grain diet

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

