

Microbiome Information for: NonCeliac Gluten Sensitivity

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 *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

Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of NonCeliac Gluten Sensitivity

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
Ruminococcaceae	family	High		541000
Actinobacillus	genus	High		713

Bacteria Name	Rank	Shift	Taxonomy	ID
Bifidobacterium	genus	Low		1678
Fingoldia	genus	High		150022
Sphingobacterium	genus	Low		28453

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.

acetylsalicylic acid, aspirin	methionine-choline-deficient (MCD) diet
animal-based diet	NEOMYCIN (ANTIBIOTIC)S[CFS]
aspartame (sweetner)	penicillin-moxalactam (antibiotic)s
barley 60 gram/day	Pulses
berberine 1.5 gram/day	quercetin, resveratrol
bifidobacterium catenulatum,(probiotics)	rifampicin (antibiotic)s
bifidobacterium pseudocatenulatum,(probiotics)	saccharomyces boulardii (probiotics) 6 BCFU/day
capsaicin (hot pepper)	saccharomyces cerevisiae (probiotics)
ceftriaxone (antibiotic)s	salt (sodium chloride)
chloramphenicol (antibiotic)s	β-glucan 500 mg/day
CLINDAMYCIN (ANTIBIOTIC)S[CFS]	streptomycin (antibiotic)s
disodium fumarate (food additive)	sulfonamide (antibiotic)s
high salt	tetracycline (antibiotic)s
high-fat diets	vegetarians
lactobacillus rhamnosus gg (probiotics) 48 BCFU/day	vitamin B3, niacin 3000 mg/day
low protein diet	white button mushrooms

Retail Probiotics

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

spain (es) / ultralevura
spain (es) / axiboulardi
Dr.Max / ProtectMax ATB
naturopathica (au)/ gastrohealth probiotic daily care
SuperSmart / Lactobacillus rhamnosus GG
organic 3 / yeastbiotic
spain (es) / kaleidon
SuperSmart / Saccharomyces Boulardii
naturopathica (au) / gastrohealth probiotics
digestive care
Ombre / Metabolic Booster
spain (es) / ns florabiotic instant
spain (es) / suerobivos
Bromatech (IT) / Enterelle
culturelle / culturelle
spain (es) / bivos
florastor / florastor
imagilin / NutriLots Replenish
Ombre / Endless Energy
optibac / saccharomyces boulardii
PureGG
Ombre / Heart Health

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.

apple	inulin (prebiotic)
arabinogalactan (prebiotic)	lactobacillus paracasei (probiotics)
bacillus subtilis (probiotics)	lactulose
Cacao	partially hydrolyzed guar gum
clostridium butyricum (probiotics), Miya, Miyarisan	quercetin
fructo-oligosaccharides (prebiotic)	raffinose(sugar beet)
galacto-oligosaccharides (prebiotic)	soy
Glucomannan	wheat
green tea	wheat bran
Human milk oligosaccharides (prebiotic, Holigos, Stachyose)	zinc

Sample of Literature Used

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

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Acne
ADHD
Allergic Rhinitis (Hay Fever)
Allergies
Alopecia (Hair Loss)
Alzheimer's disease
Amyotrophic lateral sclerosis (ALS) Motor Neuron
Ankylosing spondylitis
Anorexia Nervosa
Antiphospholipid syndrome (APS)
Asthma
Atherosclerosis
Autism
Autoimmune Disease
Barrett esophagus cancer
Bipolar Disorder
Brain Trauma
Carcinoma
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
Colorectal Cancer
Constipation
Coronary artery disease
COVID-19
Crohn's Disease
cystic fibrosis

deep vein thrombosis
Depression
Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy
Fibromyalgia
Functional constipation / chronic idiopathic constipation
gallstone disease (gsd)
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus
Generalized anxiety disorder
Gout
Graves' disease
Hashimoto's thyroiditis
Hidradenitis Suppurativa
Histamine Issues From Ubiome
Histamine Issues, Mast Cell Issue, DAO Insufficiency
hypercholesterolemia (High Cholesterol)
hyperglycemia
Hyperlipidemia (High Blood Fats)
hypersomnia
hypertension (High Blood Pressure)
Hypoxia
IgA nephropathy (IgAN)
Inflammatory Bowel Disease
Insomnia
Intelligence
Irritable Bowel Syndrome
Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
Lung Cancer
ME/CFS with IBS
ME/CFS without IBS
Menopause
Metabolic Syndrome
Mood Disorders
Multiple Sclerosis
Multiple system atrophy (MSA)
Neuropathy (all types)
neuropsychiatric disorders (PANDAS, PANS)
Nonalcoholic Fatty Liver Disease (nafld) Nonalcoholic
NonCeliac Gluten Sensitivity
Obesity
obsessive-compulsive disorder
Osteoarthritis
Osteoporosis
Parkinson's Disease
Postural orthostatic tachycardia syndrome
Premenstrual dysphoric disorder
Psoriasis
rheumatoid arthritis (RA), Spondyloarthritis (SpA)
Rosacea
Schizophrenia
Sjögren syndrome
Sleep Apnea
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