

Microbiome Information for: Chronic Urticaria (Hives)

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

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 Chronic Urticaria (Hives)

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

Actinomyces	class	High	1760
Bacteroidia	class	Low	200643
Clostridium	genus	High	1485
Escherichia	genus	High	561
Faecalibacterium	genus	Low	216851
Lachnobacterium	genus	Low	140625
Prevotella	genus	Low	838
Streptococcus	genus	High	1301
Sutterella	genus	High	40544
Veillonella	genus	High	29465

Bacteria Name Rank Shift Taxonomy ID

Enterobacteriales	order	High	91347
Lactobacillales	order	High	186826
Pseudomonadales	order	High	72274
[Clostridium] leptum	species	Low	1535
Akkermansia muciniphila	species	Low	239935
Bacteroides fragilis	species	Low	817
Escherichia coli	species	High	562
Faecalibacterium prausnitzii	species	Low	853
Phocaeicola plebeius	species	Low	310297
Segatella copri	species	Low	165179

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-Amino-4-(methylthio)butanoic acid {Methionine}	5 gram/day	high red meat
Ceratonia siliqua {carob}		Nicotine, Nicotine Patch
d-galactose {milk sugar}		nicotinic acid {Vitamin B-3}
D-ribofuranoside {Ribose}	10 gram/day	3000 mg/day
Escherichia coli cryodesiccata {colinfant probiotics}		refined wheat breads
Escherichia coli:DSM 16441-16448 {symbioflor-2}		Sleep apnea {partial sleep deprivation}
Ethyl alcohol {Grain alcohol}		Sucralose {Splenda}
Ferrum {Iron Supplements}	400 mg/day	340 mg/day
		Tributyrin
		Under cookded animal protein {Rare meat}

Retail Probiotics

Over 260 retail probiotics were evaluted with the following deem beneficial with no known adverse risks.

symbiopharm / symbioflo 2

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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}	Lactobacillus plantarum {L. plantarum}
(2->1)-beta-D-fructofuranan {Inulin}	lactobacillus rhamnosus gg,bifidobacterium animalis lactis
Abstention from eating {Fasting}	,lactobacillus paracasei {cvs maximum strength probiotic}
allium sativum {garlic}	Lavandula angustifolia {lavender}
arabinogalactan {arabinogalactan}	Limosilactobacillus reuteri {L. Reuteri}
bacillus	long-term, moderate-intensity exercise {exercise}
bacillus subtilis {B.Subtilis }	Metha family {Mint}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Moringa Oleifera
bifidobacterium	oligosaccharides {oligosaccharides}
Bifidobacterium animalis subsp. lactis {B. Lactis}	origanum vulgare {oregano}
bifidobacterium longum {B.Longum }	Outer Layers of Triticum aestivum {Wheat Bran}
Capsicum annuum {Peppers} {Cayenne Pepper, Hot Pepper}	pectin {pectin}
Cinnamomum zeylanicum {Ceylon Cinnamon}	polyphenols
Citrus limon {Lemon}	Propolis {Bee glue}
Coffee	Punica granatum {pomegranate}
D-(-)-Fructose {Fruit sugar}	red wine
Diferuloylmethane {Curcumin}	resistant starch
Epicatechin {Green tea polyphenol}	Riboflavin {Vitamin B2}
fruit	rosmarinus officinalis {rosemary}
fruit/legume fibre	Saccharomyces cerevisiae var boulardii {S. boulardii}
fucoidan {Brown Algae Extract}	soy
green tea	β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine
Heridium erinaceus {Lion's Mane Mushroom }	{Chitosan}
kefir	β-glucan {Beta-Glucan}
Lactocaseibacillus casei {L. casei}	Sulforaphane {Dark Greens}
Lactocaseibacillus paracasei {L.paracasei}	tea
Lactocaseibacillus rhamnosus {l. rhamnosus}	Thymus vulgaris {thyme}
lactobacillus acidophilus {L. acidophilus}	vitamin d
lactobacillus paracasei,lactobacillus acidophilus,bifidobacterium	wheat
animalis	yogurt
	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
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