

Microbiome Information for: Functional constipation / chronic idiopathic constipation

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/>)

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

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Functional constipation / chronic idiopathic constipation

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
Bacteroidia	class	High	200643	Prevotella	genus	Low	838
Coriobacteriia	class	Low	84998	Pseudobutyrvibrio	genus	High	46205
Gammaproteobacteria	class	High	1236	Romboutsia	genus	Low	1501226
Bacteroidaceae	family	High	815	Roseburia	genus	Low	841
Burkholderiaceae	family	Low	119060	Ruminiclostridium	genus	High	1508657
Christensenellaceae	family	Low	990719	Ruminococcus	genus	High	1263
Clostridiaceae	family	High	31979	Shigella	genus	High	620
Eggerthellaceae	family	High	1643826	Streptococcus	genus	High	1301
Enterobacteriaceae	family	High	543	Subdoligranulum	genus	Low	292632
Erysipelotrichaceae	family	High	128827	Turidibacter	genus	High	191303
Lachnospiraceae	family	High	186803	Tyzzera	genus	Low	1506577
Oscillospiraceae	family	High	216572	Burkholderiales	order	High	80840
Prevotellaceae	family	Low	171552	Coriobacteriales	order	Low	84999
Rikenellaceae	family	High	171550	Enterobacterales	order	High	91347
Ruminococcaceae	family	High	541000	[Ruminococcus] torques	species	Low	33039
Selenomonadaceae	family	Low	1843491	Alistipes finegoldii	species	Low	214856
Tannerellaceae	family	High	2005525	Bacteroides caccae	species	Low	47678
Acidaminococcus	genus	Low	904	Bacteroides ovatus	species	High	28116
Alistipes	genus	High	239759	Bacteroides stercoris	species	High	46506
Bacteroides	genus	High	816	Bifidobacterium longum	species	High	216816
Barnesiella	genus	High	397864	Escherichia coli	species	High	562
Bifidobacterium	genus	High	1678	Eubacterium coprostanoligenes	species	High	290054
Blautia	genus	Low	572511	Helicobacter pylori	species	High	210
Butyridimonas	genus	High	574697	Lactococcus lactis	species	Low	1358
Candidatus Epulonipiscium	genus	High	2383	Leyella stercorea	species	Low	363265
Coprococcus	genus	Low	33042	Megamonas funiformis	species	Low	437897
Escherichia	genus	High	561	Methanobrevibacter smithii	species	High	2173
Eubacterium	genus	High	1730	Parabacteroides gordonii	species	Low	574930
Fusicatenibacter	genus	Low	1407607	Phocaeicola coprocola	species	High	310298
Klebsiella	genus	High	570	Phocaeicola coprophilus	species	High	387090
Lachnospira	genus	High	28050	Phocaeicola dorei	species	High	357276
Lactobacillus	genus	Low	1578	Phocaeicola vulgatus	species	High	821
Lactococcus	genus	High	1357	Prevotellaceae bacterium	species	Low	2049047
Odoribacter	genus	High	283168	Roseburia intestinalis	species	High	166486
Oscillospira	genus	High	119852	Segatella copri	species	Low	165179
				Staphylococcus aureus	species	High	1280

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

Abstention from eating {Fasting}

Amylum {Starch}

dietary fiber

Ethyl alcohol {Grain alcohol}

Fiber, total dietary

fruit

fruit/legume fibre

High-fibre diet {Whole food diet}

High-protein diet {Atkins low-carbohydrate diet}

Human milk oligosaccharides (prebiotic, Holigos, Stachyose) 2

gram/day

ketogenic diet

Malus domestica {apple}

oligosaccharides {oligosaccharides}

partially hydrolysed guar gum

Polydextrose {polydextrose}

resistant starch

Slow digestible carbohydrates. {Low Glycemic}

β-glucan {Beta-Glucan} 500 mg/day

Retail Probiotics

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

jarrow formulas / bifidus balance® + fos

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.

2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4H-chromen-4-one {Luteolin}	Lactobacillus gasseri {L.gasseri}
2-Methyl-5-(1-methylethyl)phenol {Carvacrol}	Lactobacillus plantarum {L. plantarum}
3,3',4',5,7-pentahydroxyflavone {Quercetin}	Lavandula angustifolia {lavender}
allium sativum {garlic}	Limosilactobacillus reuteri {L. Reuteri}
amikacin	meropenem
amoxicillin [CFS]	Metha family {Mint}
ampicillin [CFS]	metronidazole [CFS]
Azadirachta indica {Neem}	Moringa Oleifera
bifidobacterium longum {B.Longum }	Nigella sativa {black cumin}
chloramphenicol	Ocimum basilicum {Basil}
Cinnamomum zeylanicum {Ceylon Cinnamon}	Ocimum gratissimum {Clove basil}
ciprofloxacin [CFS]	origanum vulgare {oregano}
Citrus limon {Lemon}	Panax ... {Ginseng}
clindamycin [CFS]	Pimpinella anisum {Anise}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	piperacillin-tazobactam
D-(-)-Fructose {Fruit sugar}	Probiotic Mixture 1 {Japanese Vet Probiotic}
Diferuloylmethane {Curcumin}	Probiotic Mixture 2 {Vetafarm Probiotic}
enterococcus faecium {E. faecium}	Propolis {Bee glue}
Escherichia coli Nissle 1917 {Mutaflor}	Punica granatum {pomegranate}
eugenol {Eugenic acid}	Rheum × hybridum {Rhubarb}
foeniculum vulgare,fennel	Salvia officinalis {Sage}
gentamicin	Silver nanoparticles {Colloidal silver}
imipenem	β-(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine {Chitosan}
Lactocaseibacillus casei {L. casei}	syzygium aromaticum {clove}
Lactocaseibacillus paracasei {L.paracasei}	Thymus vulgaris {thyme}
Lactocaseibacillus rhamnosus {L. rhamnosus}	trimethoprim
lactobacillus acidophilus {L. acidophilus}	yogurt
	Zingiber officinale Roscoe {ginger}

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