

## Microbiome Information for: Crohn's 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 *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**

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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

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Crohn's 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
Clostridia	class	Low	186801	Klebsiella	genus	Low	570
Halobacteria	class	High	183963	Lachnoclostridium	genus	High	1506553
Thermoplasmata	class	High	183967	Lachnospira	genus	Low	28050
Thermoprotei	class	High	183924	Lactobacillus	genus	High	1578
Aerococcaceae	family	High	186827	Lactococcus	genus	Low	1357
Bifidobacteriaceae	family	Low	31953	Leuconostoc	genus	High	1243
Christensenellaceae	family	Low	990719	Malassezia	genus	Low	55193
Enterobacteriaceae	family	High	543	Marvinbryantia	genus	Low	248744
Lachnospiraceae	family	Low	186803	Methanobrevibacter	genus	Low	2172
Ruminococcaceae	family	Low	541000	Methanosphaera	genus	High	2316
Abiotrophia	genus	Low	46123	Mogibacterium	genus	High	86331
Acetobacter	genus	Low	434	Monoglobus	genus	Low	2039302
Acidaminococcus	genus	Low	904	Olsenella	genus	Low	133925
Actinobacillus	genus	High	713	Paenibacillus	genus	Low	44249
Actinomyces	genus	High	1654	Parvimonas	genus	High	543311
Adlercreutzia	genus	High	447020	Peptostreptococcus	genus	High	1257
Alistipes	genus	High	239759	Phascolarctobacterium	genus	Low	33024
Anaerofustis	genus	Low	264995	Picrophilus	genus	High	46631
Anaerostipes	genus	Low	207244	Polynucleobacter	genus	High	44013
Anaerotruncus	genus	High	244127	Porphyromonas	genus	Low	836
Atopobium	genus	High	1380	Prevotella	genus	Low	838
Barnesiella	genus	High	397864	Proteus	genus	High	583
Bilophila	genus	High	35832	Proteus	genus	High	210425
Blautia	genus	Low	572511	Pseudomonas	genus	Low	286
Burkholderia	genus	High	32008	Romboutsia	genus	Low	1501226
Butyricoccus	genus	Low	580596	Roseburia	genus	Low	841
Butyrivibrio	genus	Low	830	Ruminococcus	genus	Low	1263
Candida	genus	High	1535326	Shigella	genus	High	620
Candidatus Soleaferrea	genus	High	1470353	Slackia	genus	Low	84108
Catenibacterium	genus	Low	135858	Solobacterium	genus	High	123375
Ceduvovirus	genus	Low	186532	Succinatimonas	genus	High	674963
Cetobacterium	genus	High	180162	Sutterella	genus	Low	40544
Clostridium	genus	High	1485	Thermoanaerobacter	genus	High	1754
Colidextribacter	genus	Low	1980681	Treponema	genus	Low	157
Collinsella	genus	Low	102106	Turicibacter	genus	Low	191303
Coprococcus	genus	Low	33042	Tyzzereella	genus	High	1506577
Corynebacterium	genus	Low	1716	Veillonella	genus	High	29465
Dehalobacterium	genus	Low	51514	Vibrio	genus	High	662
Desulfovibrio	genus	Low	872	Eubacteriales	order	Low	186802
Dialister	genus	High	39948	Lactobacillales	order	High	186826
Dielma	genus	High	1472649	Verrucomicrobiales	order	High	48461

<b>Bacteria Name</b>	<b>Rank</b>	<b>Shift</b>	<b>Taxonomy ID</b>	<b>Bacteria Name</b>	<b>Rank</b>	<b>Shift</b>	<b>Taxonomy ID</b>
Dorea	genus	Low	189330	[Clostridium] leptum	species	Low	1535
Eggerthella	genus	High	84111	[Ruminococcus] gnavus	species	High	33038
Eisenbergiella	genus	High	1432051	Agathobacter rectalis	species	Low	39491
Enterobacter	genus	High	547	Alistipes shahii	species	Low	328814
Enterococcus	genus	High	1350	Anaerobutyricum hallii	species	Low	39488
Escherichia	genus	High	561	Bacteroides uniformis	species	High	820
Facklamia	genus	Low	66831	Blautia coccoides	species	Low	1532
Faecalibacterium	genus	Low	216851	Blautia faecis	species	High	871665
Fusicatenibacter	genus	Low	1407607	Escherichia coli	species	High	562
Fusobacterium	genus	High	848	Faecalibacterium prausnitzii	species	Low	853
Gemmiger	genus	Low	204475	Faecalicatena fissicatena	species	High	290055
Gordonibacter	genus	High	644652	Francisella tularensis	species	Low	263
Haemophilus	genus	High	724	Fusobacterium nucleatum	species	High	851
Halococcus	genus	High	2249	Hoylesella oralis	species	High	28134
Holdemanela	genus	Low	1573535	Isoptericola variabilis	species	High	139208
Hungatella	genus	High	1649459	Lachnospira eligens	species	Low	39485
Isoptericola	genus	High	254250	Pseudodesulfovibrio aespoeensis	species	Low	182210
Jonquetella	genus	High	428711	Roseburia inulinivorans	species	High	360807
				Roseburia sp.	species	Low	2049040

## 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.

candida albicans (prescription)

carboxymethyl cellulose (prebiotic)

carob

**DOXYCYCLINE (ANTIBIOTIC)S[CFS]**

d-ribose 10 gram/day

fluorine

GABA 6 gram/day

gluten-free diet

grape polyphenols

green-lipped mussel

high sugar diet

high-fat diets

high-protein diet

lactulose

linseed(flaxseed) 30 mg/day

macrolide ((antibiotic)s)

mannooligosaccharide (prebiotic) 8 gram/day

**METRONIDAZOLE (ANTIBIOTIC)S[CFS]**

penicillin-moxalactam (antibiotic)s

proton-pump inhibitors (prescription) 60 mg/day

raffinose(sugar beet)

resveratrol (grape seed/polyphenols/red wine) 2 gram/day

Sauerkraut

sesame cake/meal

smoking

spectinomycin dihydrochloride (antibiotic)

synbioflor 2 e.coli probiotics

## **Retail Probiotics**

Over 260 retail probiotics were evaluated with the following deemed 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.

amikacin (antibiotic)s	lactobacillus casei (probiotics)
amoxicillin (antibiotic)s[CFS]	lactobacillus paracasei (probiotics)
ampicillin (antibiotic)s[CFS]	lactobacillus plantarum (probiotics)
arabinogalactan (prebiotic)	lactobacillus reuteri (probiotics)
bacillus subtilis (probiotics)	lactobacillus rhamnosus gg (probiotics)
benzylpenicillin sodium (antibiotic)	Limosilactobacillus fermentum (probiotic)
Cacao	meropenem (antibiotic)s
ceftazidime (antibiotic)s	ofloxacin (antibiotic)s
ceftriaxone (antibiotic)s	oregano (organum vulgare, oil)
cinnamon (oil. spice)	piperacillin-tazobactam (antibiotic)s
ciprofloxacin (antibiotic)s[CFS]	rosmarinus officinalis, rosemary
clostridium butyricum (probiotics), Miya, Miyarisan	soy
fluoroquinolone (antibiotic)s	syzygium aromaticum (clove)
foeniculum vulgare, fennel	thyme (thymol, thyme oil)
garlic (allium sativum)	trimethoprim (antibiotic)s
gentamicin (antibiotic)s	triphala
imipenem (antibiotic)s	vancomycin (antibiotic)[CFS]
inulin (prebiotic)	vitamin d
	wheat

## Sample of Literature Used

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

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Amyotrophic lateral sclerosis (ALS) Motor Neuron

Ankylosing spondylitis

Anorexia Nervosa

Antiphospholipid syndrome (APS)

Asthma

Atherosclerosis

Atrial fibrillation

Autism

Autoimmune Disease

Barrett esophagus cancer

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Bipolar Disorder

Brain Trauma

Breast Cancer

Cancer (General)

Carcinoma

cdk15 deficiency disorder

Celiac Disease

Cerebral Palsy

Chronic Fatigue Syndrome

Chronic Kidney Disease

Chronic Lyme

Chronic Obstructive Pulmonary Disease (COPD)

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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  
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Epilepsy  
erectile dysfunction  
Fibromyalgia  
Functional constipation / chronic idiopathic constipation  
gallstone disease (gsd)  
Gastroesophageal reflux disease (Gerd) including Barrett's esophagus  
Generalized anxiety disorder  
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Glioblastoma  
Gout  
Graves' disease  
Halitosis  
Hashimoto's thyroiditis  
Heart Failure  
Hemorrhoidal disease, Hemorrhoids, Piles  
Hidradenitis Suppurativa  
Histamine Issues  
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hyperglycemia  
Hyperlipidemia (High Blood Fats)  
hypersomnia  
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Hypothyroidism  
Hypoxia  
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Inflammatory Bowel Disease  
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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  
Polycystic ovary syndrome  
Postural orthostatic tachycardia syndrome  
Premenstrual dysphoric disorder  
primary biliary cholangitis  
Psoriasis  
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Rosacea  
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sensorineural hearing loss  
Sjögren syndrome  
Sleep Apnea  
Small Intestinal Bacterial Overgrowth (SIBO)  
Stress / posttraumatic stress disorder  
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Tic Disorder  
Tourette syndrome  
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