

Microbiome Information for: Type 2 Diabetes

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 believed 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 Type 2 Diabetes

Nota Benia: 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
Actinomycetes	class	High	1760
Clostridia	class	High	186801
Delta proteobacteria	class	Low	28221
Negativicutes	class	High	909932
Bifidobacteriaceae	family	High	31953
Clostridiaceae	family	Low	31979
Comamonadaceae	family	High	80864
Coriobacteriaceae	family	High	84107
Enterobacteriaceae	family	High	543
Erysipelotrichaceae	family	High	128827
Lachnospiraceae	family	High	186803
Leuconostocaceae	family	Low	81850
Odoribacteraceae	family	Low	1853231
Peptostreptococcaceae	family	Low	186804
Prevotellaceae	family	High	171552
Ruminococcaceae	family	Low	541000
Veillonellaceae	family	High	31977
Verrucomicrobiaceae	family	High	203557
Acidaminococcus	genus	High	904
Actinomyces	genus	High	1654
Adlercreutzia	genus	High	447020
Agathobacter	genus	High	1766253
Akkermansia	genus	Low	239934
Alistipes	genus	High	239759
Alloprevotella	genus	High	1283313
Anaerotruncus	genus	High	244127
Bacteroides	genus	Low	816
Bifidobacterium	genus	Low	1678
Bilophila	genus	High	35832
Butyricimonas	genus	High	574697
Butyribrio	genus	Low	830
Caecibacter	genus	High	1980685
Campylobacter	genus	High	194
Clostridium	genus	Low	1485
Collinsella	genus	High	102106
Coprococcus	genus	High	100883
Desulfovibrio	genus	High	872
Dialister	genus	Low	39948
Dorea	genus	High	189330
Eggerthella	genus	High	84111
Elusimicrobium	genus	Low	423604
Morganella	genus	High	90690
Odoribacter	genus	High	283168
Oribacterium	genus	Low	265975
Oscillibacter	genus	Low	459786
Oxalobacter	genus	High	846
Paenibacillus	genus	Low	44249
Pantoea	genus	High	53335
Paraprevotella	genus	Low	577309
Parasutterella	genus	Low	577310
Parvimonas	genus	Low	543311
Pediococcus	genus	Low	1253
Peptococcus	genus	Low	2740
Phocaeicola	genus	High	909656
Phocea	genus	High	1926663
Porphyromonas	genus	High	836
Prevotella	genus	High	838
Propionibacterium	genus	Low	1743
Pseudoflavonifractor	genus	High	1017280
Pyramidobacter	genus	High	638847
Rhodococcus	genus	High	1661425
Rhodococcus	genus	High	1827
Roseburia	genus	Low	841
Ruminococcus	genus	High	1263
Sellimonas	genus	Low	1769710
Shigella	genus	High	620
Solobacterium	genus	High	123375
Streptococcus	genus	High	1301
Subdoligranulum	genus	High	292632
Sutterella	genus	High	40544
Turicibacter	genus	Low	191303
Veillonella	genus	Low	29465
Vibrio	genus	High	662
Weissella	genus	High	46255
Eubacteriales	order	High	186802
Rhodospirillales	order	High	204441
Verrucomicrobiales	order	High	48461
[Clostridium] methylpentosum	species	High	84026
Akkermansia muciniphila	species	Low	239935
Bacteroides caccae	species	High	47678
Bacteroides fragilis	species	High	817

Bacteria Name	Rank	Shift	Taxonomy ID
Enterococcus	genus	High	1350
Enterorhabdus	genus	High	580024
Escherichia	genus	High	561
Eubacterium	genus	Low	1730
Faecalibacterium	genus	Low	216851
Finegoldia	genus	Low	150022
Flavonifractor	genus	High	946234
Fusobacterium	genus	High	848
Gemmiger	genus	High	204475
Gordonibacter	genus	High	644652
Haemophilus	genus	Low	724
Holdemania	genus	High	61170
Klebsiella	genus	High	570
Lachnosporidium	genus	High	1506553
Lacticaseibacillus	genus	Low	2759736
Lactobacillus	genus	High	1578
Lactococcus	genus	High	1357
Leuconostoc	genus	Low	1243
Ligilactobacillus	genus	High	2767887
Malassezia	genus	High	55193
Megasphaera	genus	High	906
Mesosutterella	genus	High	2494213
Methanobrevibacter	genus	High	2172
Mitsuokella	genus	High	52225
Morganella	genus	High	581
Morganella	genus	High	108061
Bacteroides intestinalis	species	High	329854
Bacteroides stercoris	species	High	46506
Bacteroides thetaiotaomicron	species	Low	818
Bacteroides uniformis	species	Low	820
Barnesiella intestinihominis	species	Low	487174
Bifidobacterium adolescentis	species	Low	1680
Bifidobacterium animalis	species	Low	28025
Bifidobacterium bifidum	species	High	1681
Bifidobacterium pseudolongum	species	Low	1694
Blastocystis hominis	species	High	12968
Butyrivibrio crossotus	species	High	45851
Clostridium butyricum	species	Low	1492
Collinsella aerofaciens	species	High	74426
Enterocloster bolteae	species	High	208479
Escherichia coli	species	High	562
Eubacterium coprostanoligenes	species	High	290054
Eubacterium oxidoreducens	species	Low	1732
Faecalibacterium prausnitzii	species	Low	853
Klebsiella pneumoniae	species	High	573
Lactobacillus intestinalis	species	High	151781
Ligilactobacillus ruminis	species	High	1623
Mediterraneibacter gnavus	species	High	33038
Phascolarctobacterium faecium	species	Low	33025
Anaerobutyricum hallii DSM 3353	strain	Low	411469
Clostridium beijerinckii NCIMB 8052	strain	Low	290402
Clostridium beijerinckii NRRL B-598	strain	Low	1428454
Bifidobacterium longum subsp. infantis	subspecies	Low	1682

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

cholic,taurocholic ,chenodeoxycholic,glycocholic acids {Bile
supplements}

Escherichia coli cryodesiccata {colinfant probiotics}

Escherichia coli:DSM 16441-16448 {symbioflor-2}

Ethyl alcohol {Grain alcohol}

fat

Ferrum {Iron Supplements} 400 mg/day

high red meat

Linum usitatissimum {Flaxseed} 30 mg/day

N-L-a-aspartyl-L-phenylalanine methyl ester {aspartame}
raffinose {sugar beet}

Sleep apnea {partial sleep deprivation}

Sucratose {Splenda} 340 mg/day

Tobacco consumption {Smoking}

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.

(2->1)-beta-D-fructofuranan {Inulin}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic
bifidobacterium bifidum {B. bifidum}
Diferuloylmethane {Curcumin}
Epicatechin {Green tea polyphenol}
fruit
fruit/legume fibre

Grape Polyphenols {Grape Flavonoids}
green tea
Human milk oligosaccharides (prebiotic, Holigos, Stachyose)
Lacticaseibacillus casei {L. casei}
Lactobacillus plantarum {L. plantarum}
oligosaccharides {oligosaccharides}
Thymus vulgaris {thyme}
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

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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-Haptic 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