

## Microbiome Information for: obsessive-compulsive disorder

### 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**

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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/>)

Thorne (<https://www.thorne.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 obsessive-compulsive disorder

*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 |
|--------------------|--------|-------|-------------|-----------------------------|---------|-------|-------------|
| Enterobacteriaceae | family | High  | 543         | Parasutterella              | genus   | Low   | 577310      |
| Lachnospiraceae    | family | Low   | 186803      | Peptococcus                 | genus   | High  | 2740        |
| Ruminococcaceae    | family | Low   | 541000      | Prevotella                  | genus   | Low   | 838         |
| Actinomyces        | genus  | Low   | 1654        | Propionibacterium           | genus   | Low   | 1743        |
| Aestuariaispira    | genus  | High  | 1647175     | Pseudomonas                 | genus   | Low   | 286         |
| Agathobacter       | genus  | Low   | 1766253     | Romboutsia                  | genus   | Low   | 1501226     |
| Alistipes          | genus  | High  | 239759      | Slackia                     | genus   | Low   | 84108       |
| Anaeroplasma       | genus  | Low   | 2086        | Staphylococcus              | genus   | High  | 1279        |
| Anaerostipes       | genus  | Low   | 207244      | Streptococcus               | genus   | High  | 1301        |
| Barnesiella        | genus  | High  | 397864      | Sutterella                  | genus   | High  | 40544       |
| Bifidobacterium    | genus  | Low   | 1678        | Turicibacter                | genus   | Low   | 191303      |
| Blautia            | genus  | Low   | 572511      | Veillonella                 | genus   | High  | 29465       |
| Coprococcus        | genus  | Low   | 33042       | [Ruminococcus] torques      | species | Low   | 33039       |
| Corynebacterium    | genus  | Low   | 1716        | Akkermansia muciniphila     | species | Low   | 239935      |
| Desulfovermiculus  | genus  | High  | 339721      | Bacteroides fragilis        | species | High  | 817         |
| Dorea              | genus  | Low   | 189330      | Bacteroides ovatus          | species | High  | 28116       |
| Enhydrobacter      | genus  | Low   | 212791      | Bacteroides uniformis       | species | High  | 820         |
| Enterobacter       | genus  | High  | 547         | Bifidobacterium animalis    | species | Low   | 28025       |
| Enterococcus       | genus  | High  | 1350        | Blautia obeum               | species | High  | 40520       |
| Enterorhabdus      | genus  | Low   | 580024      | Clostridioides difficile    | species | High  | 1496        |
| Escherichia        | genus  | High  | 561         | Coprococcus catus           | species | High  | 116085      |
| Eubacterium        | genus  | Low   | 1730        | Escherichia coli            | species | High  | 562         |
| Holdemanella       | genus  | High  | 1573535     | Eubacterium ventriosum      | species | High  | 39496       |
| Klebsiella         | genus  | High  | 570         | Klebsiella pneumoniae       | species | High  | 573         |
| Lachnobacterium    | genus  | Low   | 140625      | Limosilactobacillus reuteri | species | High  | 1598        |
| Lachnospirillum    | genus  | High  | 1506553     | Mediterraneibacter gnavus   | species | Low   | 33038       |
| Lachnospira        | genus  | High  | 28050       | Methanobrevibacter smithii  | species | Low   | 2173        |
| Lactobacillus      | genus  | Low   | 1578        | Mycoplasmoides pneumoniae   | species | High  | 2104        |
| Novosphingobium    | genus  | Low   | 165696      | Phocaeicola vulgatus        | species | High  | 821         |
| Odoribacter        | genus  | Low   | 283168      | Ruminococcus bromii         | species | High  | 40518       |
| Parabacteroides    | genus  | High  | 375288      | Segatella copri             | species | Low   | 165179      |
|                    |        |       |             | Streptococcus pyogenes      | species | High  | 1314        |

## 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.

**Escherichia coli cryodesiccata {colinfant probiotics}**

Ethyl alcohol {Grain alcohol}

**Ferrum {Iron Supplements}** 400 mg/day

high red meat

**N-(aminoiminomethyl)-N methyl glycine {Creatine}**

**Sus domesticus {Pork}**

**Tributylin**

**Ulmus rubra {slippery elm}**

## 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}  
 (2->1)-beta-D-fructofuranan {Inulin}  
 allium sativum {garlic}  
 Azadirachta indica {Neem}  
 bacillus  
 bacillus subtilis {B.Subtilis }  
 bacillus,lactobacillus,streptococcus,saccharomyces probiotic  
 bifidobacterium  
 Bifidobacterium animalis {B. animalis}  
 Bifidobacterium animalis subsp. lactis {B. Lactis}  
 bifidobacterium longum {B.Longum }  
 Bovine Milk Products {Dairy}  
 Cinnamomum zeylanicum {Ceylon Cinnamon}  
 Diferuloylmethane {Curcumin}  
 fruit  
 fruit/legume fibre  
 green tea  
 Hordeum vulgare {Barley}  
 Lactacaseibacillus casei {L. casei}

Lactacaseibacillus paracasei {L.paracasei}  
 Lactacaseibacillus rhamnosus {l. rhamnosus}  
 lactobacillus acidophilus {L. acidophilus}  
 lactobacillus paracasei,lactobacillus acidophilus,bifidobacterium animalis  
 Lactobacillus plantarum {L. plantarum}  
 lactobacillus rhamnosus gg,bifidobacterium animalis lactis ,lactobacillus paracasei {cvs maximum strength probiotic}  
 Limosilactobacillus fermentum {L. fermentum}  
 Limosilactobacillus reuteri {L. Reuteri}  
 oligosaccharides {oligosaccharides}  
 origanum vulgare {oregano}  
 Outer Layers of Triticum aestivum {Wheat Bran}  
 pectin {pectin}  
 polyphenols  
 Propolis {Bee glue}  
 Punica granatum {pomegranate}  
 rosmarinus officinalis {rosemary}  
 Thymus vulgaris {thyme}  
 wheat  
 yogurt  
 Zingiber officinale Roscoe {ginger}

## Sample of Literature Used

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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

cdk15 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**