

## Microbiome Information for: Cerebral Palsy

### 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 Cerebral Palsy

*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

|                 |       |      |        |
|-----------------|-------|------|--------|
| Akkermansia     | genus | High | 239934 |
| Anaerostipes    | genus | Low  | 207244 |
| Bacteroides     | genus | Low  | 816    |
| Bifidobacterium | genus | High | 1678   |
| Blautia         | genus | Low  | 572511 |
| Clostridium     | genus | High | 1485   |
| Enterococcus    | genus | High | 1350   |

### Bacteria Name Rank Shift Taxonomy ID

|                  |       |      |        |
|------------------|-------|------|--------|
| Faecalibacterium | genus | Low  | 216851 |
| Parasutterella   | genus | Low  | 577310 |
| Roseburia        | genus | Low  | 841    |
| Rothia           | genus | High | 32207  |
| Rothia           | genus | High | 508215 |
| Ruminococcus     | genus | Low  | 1263   |
| Streptococcus    | genus | High | 1301   |
| Veillonella      | genus | High | 29465  |

## 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.

**bifidobacterium animalis lactis (probiotics)** 1.BCFU/day

**cannabinoids**

**clostridium butyricum (probiotics),Miya,Miyarisan** 1.gram/day

cranberry bean flour

**Dangshen**

fish oil 4.gram/day

**fructo-oligosaccharides (prebiotic)** 15.gram/day

grape polyphenols

grapes

green tea

ketogenic diet

lactulose

linseed(flaxseed) 30.mg/day

**mannooligosaccharide (prebiotic)** 8.gram/day

metformin (prescription)

pomegranate 1.gram/day

proton-pump inhibitors (prescription) 60.mg/day

raffinose(sugar beet)

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

## Retail Probiotics

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

optibac / bifidobacteria & fibre  
miyarian (jp) / miyarian  
HMF Forte  
spain (es) / profaes4 edad escolar  
HMF IBS Relief  
Maple Life Science™ / Bifidobacterium Animalis  
Activia®  
UltraFlora® Control  
FloraVantage® Control  
aor / probiotic-3  
Sun Wave Pharma/Bio Sun Instant  
genestra brands® hm  
PharmExtracta (IT) / Butirisan  
quality health(au)/ fridge free probiotic 25b  
HMF Intensive  
Maple Life Science™ / Streptococcus faecalis butyricum mesentericus sporogenes  
spain (es) / ns defenbiotic kids  
optibac / for every day  
Pendulum / Pendulum Glucose Control  
Optibac Probiotics / Bifidobacterium lactis HN019  
spain (es) / profaes4 viajeros  
klaire labs / ther-biotic factor 4  
optibac / for every day max  
PoolPharma (IT) / ProbioTKMIO  
HLH BIOPHARMA(DE) / LACTOBACT ® FORTE  
FloraVantage® Balance  
ISCON Elegance/ Ochek Capsule 10  
Nutrition Essentials / Probiotic (900 BCFU)

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.

ampicillin (antibiotic)s[CFS]

arabinogalactan (prebiotic)

benzylpenicillin sodium (antibiotic)

berberine

Cacao

Curcumin

garlic (allium sativum)

glycerol monolaurate (Monolaurin)

inulin (prebiotic)

kefir

lactobacillus casei (probiotics)

lactobacillus plantarum (probiotics)

lactobacillus rhamnosus gg (probiotics)

minocycline (antibiotic)s[CFS]

Moringa Oleifera

pectin

piperacillin-tazobactam (antibiotic)s

Pulses

quebracho

resistant starch

rifaximin (antibiotic)s

saccharomyces boulardii (probiotics)

tea

vancomycin (antibiotic)[CFS]

walnuts

xylan (prebiotic)

## Sample of Literature Used

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

[The effect of different dietary structure on gastrointestinal dysfunction in children with cerebral palsy and epilepsy based on gut microbiota.](#)

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Autism

Autoimmune Disease

Barrett esophagus cancer

benign prostatic hyperplasia

Bipolar Disorder

Brain Trauma

Breast Cancer

Cancer (General)

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cdkl5 deficiency disorder

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Coagulation / Micro clot triggering bacteria  
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Constipation  
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COVID-19  
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Glioblastoma  
Gout  
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hypercholesterolemia (High Cholesterol)  
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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  
rheumatoid arthritis (RA),Spondyloarthritis (SpA)  
Rosacea  
Schizophrenia  
scoliosis  
sensorineural hearing loss  
Sjögren syndrome  
Sleep Apnea  
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