

Microbiome Information for: Stress / posttraumatic stress 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 have 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 individual's 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 is 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 Stress / posttraumatic stress disorder

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	Bacteria Name	Rank Shift	Taxonomy ID
Actinomycetes	class Low	1760	Enterococcus	genus High	1350
Gammaproteobacteria	class High	1236	Faecalibacterium	genus Low	216851
Coriobacteriaceae	family High	84107	Fusobacterium	genus High	848
Enterobacteriaceae	family High	543	Lactobacillus	genus High	1578
Erysipelotrichaceae	family High	128827	Methanobrevibacter	genus High	2172
Lachnospiraceae	family Low	186803	Oscillospira	genus Low	119852
Ruminococcaceae	family Low	541000	Peptoniphilus	genus High	162289
Acidaminococcus	genus High	904	Peptostreptococcus	genus High	1257
Adlercreutzia	genus Low	447020	Phascolarctobacterium	genus Low	33024
Akkermansia	genus High	239934	Porphyromonas	genus High	836
Anaeroplasma	genus Low	2086	Rhodococcus	genus High	1827
Anaerostipes	genus High	207244	Rhodococcus	genus High	1661425
Atopobium	genus Low	1380	Shigella	genus High	620
Bifidobacterium	genus Low	1678	Sphingomonas	genus High	13687
Bulleidia	genus High	118747	Staphylococcus	genus High	1279
Christensenella	genus High	990721	Turicibacter	genus High	191303
Citrobacter	genus High	544	Akkermansia muciniphila	species Low	239935
Clostridium	genus High	1485	Bacteroides salyersiae	species Low	291644
Collinsella	genus Low	102106	Eggerthella lenta	species Low	84112
Coprobacillus	genus High	100883	Escherichia coli	species High	562
Coprococcus	genus Low	33042	Faecalibacterium prausnitzii	species Low	853
Coriobacterium	genus Low	33870	Francisella tularensis	species High	263
Corynebacterium	genus High	1716	Lactiplantibacillus plantarum	species Low	1590
Dehalobacterium	genus High	51514	Solobacterium moorei	species High	102148
Dorea	genus High	189330	Staphylococcus intermedius	species High	1285

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

Arthrosira platensis {Spirulina}

Astragalus

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

colostrum

d-galactose {milk sugar}

Echinacea Moench {Echinacea} 4 gram/day

Escherichia coli cryodesiccata {colinfant probiotics}

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

Ethyl alcohol {Grain alcohol}

Ferrum {Iron Supplements} 400 mg/day

Glycine max x Aspergillus oryzae {Miso}

high red meat

Humulus lupulus {Hops}

raffinose {sugar beet}

Sleep apnea {partial sleep deprivation}

Sucratose {Splenda} 340 mg/day

Tobacco consumption {Smoking}

Under cookded animal protein {Rare meat}

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}	green tea
3,3',4',5,7-pentahydroxyflavone {Quercetin}	Honey {Honey }
allium sativum {garlic}	Lacticaseibacillus casei {L. casei}
Azadirachta indica {Neem}	Lactobacillus plantarum {L. plantarum}
bacillus	Limosilactobacillus reuteri {L. Reuteri}
bacillus,lactobacillus,streptococcus,saccharomyces probiotic	Moringa Oleifera
Bifidobacterium animalis {B. animalis}	Nigella sativa {black cumin}
bifidobacterium longum {B.Longum }	origanum vulgare {oregano}
Cinnamomum zeylanicum {Ceylon Cinnamon}	Propolis {Bee glue}
Citrus limon {Lemon}	rosmarinus officinalis {rosemary}
Clostridium butyricum MIYAIRI 588 {Miyarisan}	Saccharomyces cerevisiae var boulardii {S. boulardii}
Curcuma longa {Turmeric}	Salvia officinalis {Sage}
Diferuloylmethane {Curcumin}	β -(1?4)-linked D-glucosamine and N-acetyl-D-glucosamine {Chitosan}
Eucalyptus {Gum Tree}	syzygium aromaticum {clove}
foeniculum vulgare,fennel	Thymus vulgaris {thyme}
fruit	yogurt
fruit/legume fibre	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-Hactic 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