Microbiome Information for: Osteoarthritis

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 *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

A Microbiome Analysis Company

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Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Osteoarthritis

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
Lachnospiraceae	*family*	**High**	*186803*
Bacteroides	*genus*	**High**	*816*
Clostridium	*genus*	**High**	*1485*
Escherichia	*genus*	**High**	*561*
Faecalibacterium	*genus*	**Low**	*216851*
Ruminococcus	*genus*	**Low**	*1263*
Streptococcus	*genus*	**High**	*1301*

Bacteria Name	Rank	Shift	Taxonomy ID
Subdoligranulum	*genus*	**Low**	*292632*
[Ruminococcus] gnavus	*species*	**High**	*33038*
[Ruminococcus] lactaris	*species*	**Low**	*46228*
Alistipes onderdonkii	*species*	**High**	*328813*
Bifidobacterium pseudocatenulatum	*species*	**Low**	*28026*
Faecalibacterium prausnitzii	*species*	**Low**	*853*
Thomasclavelia ramosa	*species*	**High**	*1547*

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.

- berberine 1.5 gram/day
- bile (acid/salts)
- Bile Acid Sequestrant
- chemotherapy (prescription)
- dairy
- iron 400 mg/day
- ku ding cha tea
- lactobacillus rhamnosus (probiotics) 48 BCFU/day
- macrolide ((antibiotic)s)
- non-starch polysaccharides
- omega-3 fatty acids 4 gram/day
- proton-pump inhibitors (prescription) 60 mg/day
- Xanthohumol

Retail Probiotics

Over 260 retail probiotics were evaluted with the following deem beneficial with no known adverse risks.

- **Swiss BioEnergetics / Full Spectrum Probiotic Defence**
- **spain (es) / muvagyn probiotico**
- **Pregnancy Care Probiotic**
- **ProGoes® Forte**
- **jarrow formulas / fem dophilus**
- **JGL / Lactogyn**
- **naturopathica (au) / gastrohealth probiotic adults 50+**
- **Metabolics / Lactobacillus Rhamnosus Powder**
- **Bromatech (IT) / Psicobrain**
- **spain (es) / aquilea intimus**
- **Ombre / Restore**
- **jamieson (can) / probiotic 10 bcfu**
- **optibac / for those on antibiotics**
- **Wakunaga / Kyo-Dophilus® Multi 9 Probiotic**
- **custom probiotics / d-lactate free probiotics powder**
- **spain (es) / ns defenbiotic kids**
- **CustomProbiotics.com / L. Rhamnosus Probiotic Powder**
- **blackmore (au) / probiotics+ eczema relief**
- **bravo europe / starter and complex**
- **blackmore (au) / probiotics+ womens flora balance**
- **bravo europe / freeze-dried bravo**
- **CVSHealth / Daily Probiotic**
- **Nu U (uk) /Bio-Cultures Complex**
- **SuperSmart / Oral Health**
- **RepHresh /Pro-B Probiotic Supplement for Women**
- **Ombre / Harmony**
- **Bioflora(MX) / Woman**
- **naturopathica (au) / gastrohealth women's probiotic with cranberry**
- **jarrow formulas / jarro-dophilus mood**
- **spain (es) / ns florabiotic instant**
- **optibac / for women**
- **jarrow formulas / fem-dophilus®**
- **Wakunaga / Pro+ Synbiotic**
- **naturopathica (au)/ gastrohealth probiotic daily care**
- **Bromatech (IT) / Ramnoselle**
- **Biorela® Daily**
- **cytoplan(uk) /dentavital bifidophilus**

Note: Some of these are only available regionally – search the web for sources.

Substance to Consider Reducing or Eliminating

These are the most signigicant 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-fluorouracil,(prescription)
acarbose,(prescription)
alexidine dihydrochloride
Amethopterin (R,S)
amikacin (antibiotic)s
amoxicillin (antibiotic)s[CFS]
ampicillin (antibiotic)s[CFS]
azithromycin,(antibiotic)s[CFS]
bacillus subtilis (probiotics)
benzathine benzylpenicillin (antibiotic)
benzethonium chloride
benzylpenicillin sodium (antibiotic)
bepridil hydrochloride,(prescription)
Cacao
carbadox,(prescription)
cefazolin sodium salt (antibiotic)
cefdinir (antibiotic)
cefepime hydrochloride (antibiotic)
cefmetazole sodium salt (antibiotic)
cefoperazone dihydrate (antibiotic)
ceforanide (antibiotic)
cefotaxime sodium salt (antibiotic)
cefotetan (antibiotic)
cefotiam hydrochloride (antibiotic)
Cefoxitin sodium salt
ceftazidime (antibiotic)s
cephalothin sodium salt (antibiotic)
chloramphenicol (antibiotic)s
chlorhexidine
chloroxine (antibiotic)
Chlortetracycline hydrochloride
ciprofloxacin (antibiotic)s[CFS]
clarithromycin (antibiotic)s[CFS]
clinafloxacin (antibiotic)
clindamycin (antibiotic)s[CFS]
clioquinol,(prescription)
closantel,(prescription)
Demeclocycline hydrochloride
doxycycline (antibiotic)s[CFS]
erythromycin (antibiotic)s[CFS]
florfenicol
floxuridine,(prescription)
flumequine (antibiotic)
fluoroquinolone (antibiotic)s
fructo-oligosaccharides (prebiotic)
furaltadone hydrochloride,(prescription)
furazolidone (antibiotic)
fusidic acid sodium salt (antibiotic)
garlic (allium sativum)
gatifloxacin (antibiotic)
gentamicin (antibiotic)s
hexachlorophene
high fiber diet
imipenem (antibiotic)s
lactobacillus casei (probiotics)
lactobacillus plantarum (probiotics)
Limosilactobacillus fermentum (probiotic)
linezolid (antibiotic)
lomefloxacin hydrochloride (antibiotic)
luteolin (flavonoid)
lymecycline (antibiotic)[CFS]
Meclocycline sulfosalicylate
meclozine dihydrochloride,(prescription)
meropenem (antibiotic)s
Methacycline hydrochloride
metronidazole (antibiotic)s[CFS]
miconazole,(prescription)
minocycline (antibiotic)s[CFS]
monensin sodium salt,(prescription)
moxalactam disodium salt (antibiotic)
moxifloxacin (antibiotic)
nadifloxacin (antibiotic)
niclosamide,(prescription)
nifuroxazide (antibiotic)
niridazole,(prescription)
nitrofural,(prescription)
nitrofurantoin (antibiotic)
norfloxacin (antibiotic)s
novobiocin sodium salt,(prescription)
ofloxacin (antibiotic)s
oxethazaine,(prescription)
oxytetracycline dihydrate (antibiotic)
piperacillin-tazobactam (antibiotic)s
pyrimethamine,(prescription)
quercetin,resveratrol
resistant starch
resveratrol (grape seed/polyphenols/red wine)
Rifabutin
rifaximin (antibiotic)s
roxithromycin (antibiotic)s
rufloxacin (antibiotic)
saccharomyces boulardii (probiotics)
sarafloxacin (antibiotic)
soy
sparfloxacin (antibiotic)
spiramycin (antibiotic)
streptozotocin,(prescription)
talampicillin hydrochloride (antibiotic)
thiamphenicol (antibiotic)
thimerosal (mercury vacine perservative)
thyme (thymol, thyme oil)
ticarcillin sodium (antibiotic)
tobramycin (antibiotic)s
Tosufloxacin hydrochloride
triclosan
trifluridine,(prescription)
trimethoprim (antibiotic)s
vancomycin (antibiotic)[CFS]

Sample of Literature Used

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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
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)
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Coagulation / Micro clot triggering bacteria
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Constipation
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Crohn's Disease
cystic fibrosis
deep vein thrombosis
Depression
Dermatomyositis
Eczema
Endometriosis
Eosinophilic Esophagitis
Epilepsy
erectile dysfunction
Fibromyalgia
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
Halitosis
Hashimoto's thyroiditis
Heart Failure
Hemorrhoidal disease, Hemorrhoids, Piles
Hidradenitis Suppurativa
Histamine Issues
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
Juvenile idiopathic arthritis
Liver Cirrhosis
Long COVID
Low bone mineral density
Lung Cancer
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
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