

## Microbiome Information for: Ankylosing spondylitis

### 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

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of Ankylosing spondylitis

*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 |
|---------------------|--------|-------|-------------|----------------------------------------------------------|---------|-------|-------------|
| Actinomycetes       | class  | High  | 1760        | Intestinimonas                                           | genus   | High  | 1392389     |
| Bacilli             | class  | High  | 91061       | Klebsiella                                               | genus   | High  | 570         |
| Bacteroidia         | class  | High  | 200643      | Lachnospira                                              | genus   | Low   | 28050       |
| Dothideomycetes     | class  | High  | 147541      | Lactobacillus                                            | genus   | Low   | 1578        |
| Verrucomicrobiia    | class  | High  | 203494      | Megamonas                                                | genus   | High  | 158846      |
| Alcaligenaceae      | family | High  | 506         | Neisseria                                                | genus   | High  | 482         |
| Bacteroidaceae      | family | High  | 815         | Oscillibacter                                            | genus   | High  | 459786      |
| Enterobacteriaceae  | family | Low   | 543         | Oscillospira                                             | genus   | Low   | 119852      |
| Lachnospiraceae     | family | High  | 186803      | Parasutterella                                           | genus   | Low   | 577310      |
| Lactobacillaceae    | family | Low   | 33958       | Pseudoflavonifractor                                     | genus   | High  | 1017280     |
| Porphyromonadaceae  | family | High  | 171551      | Rothia                                                   | genus   | High  | 32207       |
| Prevotellaceae      | family | Low   | 171552      | Ruminiclostridium                                        | genus   | High  | 1508657     |
| Ruminococcaceae     | family | High  | 541000      | Ruminococcus                                             | genus   | Low   | 1263        |
| Veillonellaceae     | family | Low   | 31977       | Salmonella                                               | genus   | High  | 590         |
| Verrucomicrobiaceae | family | High  | 203557      | Shigella                                                 | genus   | High  | 620         |
| Actinomyces         | genus  | High  | 1654        | Streptococcus                                            | genus   | High  | 1301        |
| Adlercreutzia       | genus  | High  | 447020      | Veillonella                                              | genus   | High  | 29465       |
| Akkermansia         | genus  | High  | 239934      | Weissella                                                | genus   | Low   | 46255       |
| Alloprevotella      | genus  | High  | 1283313     | Agaricales                                               | order   | Low   | 5338        |
| Bacteroides         | genus  | Low   | 816         | Bacillales                                               | order   | High  | 1385        |
| Bifidobacterium     | genus  | High  | 1678        | Verrucomicrobiales                                       | order   | High  | 48461       |
| Blautia             | genus  | High  | 572511      | Bacteroides nordii                                       | species | High  | 291645      |
| Citrobacter         | genus  | Low   | 544         | Desulfovibrio desulfuricans                              | species | High  | 876         |
| Collinsella         | genus  | High  | 102106      | Escherichia coli                                         | species | High  | 562         |
| Comamonas           | genus  | High  | 283         | Flavonifractor plautii                                   | species | High  | 292800      |
| Cronobacter         | genus  | Low   | 413496      | Klebsiella pneumoniae                                    | species | High  | 573         |
| Desulfovibrio       | genus  | High  | 872         | Mediterraneibacter gnavus                                | species | Low   | 33038       |
| Dorea               | genus  | High  | 189330      | Parabacteroides distasonis                               | species | High  | 823         |
| Enterobacter        | genus  | Low   | 547         | Prevotella melaninogenica                                | species | High  | 28132       |
| Escherichia         | genus  | High  | 561         | Salmonella enterica                                      | species | High  | 28901       |
| Eubacterium         | genus  | Low   | 1730        | Segatella copri                                          | species | High  | 165179      |
| Fusicatenibacter    | genus  | High  | 1407607     | Staphylococcus aureus                                    | species | High  | 1280        |
| Fusobacterium       | genus  | Low   | 848         | Streptococcus pyogenes                                   | species | High  | 1314        |
| Helicobacter        | genus  | Low   | 209         | Sutterella wadsworthensis                                | species | High  | 40545       |
| Howardella          | genus  | Low   | 404402      | Klebsiella pneumoniae 1162281                            | strain  | High  | 1037908     |
|                     |        |       |             | Klebsiella pneumoniae subsp. rhinoscleromatis ATCC 13884 | strain  | High  | 667127      |

## 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.

(2->1)-beta-D-fructofuranan {Inulin} 32 gram/day

Lactose {Milk Sugar}

## Retail Probiotics

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

Swiss BioEnergetics / Full Spectrum Probiotic Defence  
blackmores (au) / probiotics + adults daily (90 capsules)  
nature's way (au) / restore probiotic daily health 90s  
jarrow formulas / bifidus balance® + fos  
naturopathica (au) / gastrohealth fibrepro  
blackmore (au) / probiotics+ eczema relief  
Thryve Inside/ L.Reu,Rham,Casi; B.Lactis  
blackmores (au) / probiotics+ immune defence  
nature's way (au) / restore probiotic 30 billion 30s  
blackmore (au) / probiotics+ daily health

**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.

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| allium sativum {garlic}                 | imipenem                               |
| amikacin                                | Lactobacillus plantarum {L. plantarum} |
| ampicillin [CFS]                        | meropenem                              |
| benzylpenicillin sodium (antibiotic)    | Metha family {Mint}                    |
| ceftazidime                             | Moringa Oleifera                       |
| Cinnamomum zeylanicum {Ceylon Cinnamon} | origanum vulgare {oregano}             |
| ciprofloxacin [CFS]                     | piperacillin-tazobactam                |
| Curcuma longa {Turmeric}                | Propolis {Bee glue}                    |
| Cymbopogon citratus {Lemongrass}        | Thymus vulgaris {thyme}                |
| D-(-)-Fructose {Fruit sugar}            | tobramycin                             |
| Diferuloylmethane {Curcumin}            | trimethoprim                           |
| gentamicin                              | vancomycin (antibiotic)[CFS]           |
| Honey {Honey }                          | Zingiber officinale Roscoe {ginger}    |

## Sample of Literature Used

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Abdominal Aortic Aneurysm

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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-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**