

## Microbiome Information for: scoliosis

### 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

A Microbiome Analysis Company

892 Lake Samish Rd, Bellingham WA 98229

Email: [Research@MicrobiomePrescription.com](mailto:Research@MicrobiomePrescription.com)

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## Bacteria being reported because of atypical values.

These bacteria were reported atypical in studies of scoliosis

*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 |
|---------------|------|-------|-------------|
|---------------|------|-------|-------------|

|            |       |      |       |
|------------|-------|------|-------|
| Mollicutes | class | High | 31969 |
|------------|-------|------|-------|

|                 |        |      |        |
|-----------------|--------|------|--------|
| Lachnospiraceae | family | High | 186803 |
|-----------------|--------|------|--------|

|                  |        |      |        |
|------------------|--------|------|--------|
| Oscillospiraceae | family | High | 216572 |
|------------------|--------|------|--------|

|           |       |     |       |
|-----------|-------|-----|-------|
| Bilophila | genus | Low | 35832 |
|-----------|-------|-----|-------|

|                 |       |      |        |
|-----------------|-------|------|--------|
| Catenibacterium | genus | High | 135858 |
|-----------------|-------|------|--------|

|             |       |      |       |
|-------------|-------|------|-------|
| Coprococcus | genus | High | 33042 |
|-------------|-------|------|-------|

|            |       |     |     |
|------------|-------|-----|-----|
| Prevotella | genus | Low | 838 |
|------------|-------|-----|-----|

| Bacteria Name | Rank | Shift | Taxonomy ID |
|---------------|------|-------|-------------|
|---------------|------|-------|-------------|

|         |       |      |     |
|---------|-------|------|-----|
| Proteus | genus | High | 583 |
|---------|-------|------|-----|

|                   |       |      |         |
|-------------------|-------|------|---------|
| Ruminiclostridium | genus | High | 1508657 |
|-------------------|-------|------|---------|

|              |       |     |      |
|--------------|-------|-----|------|
| Ruminococcus | genus | Low | 1263 |
|--------------|-------|-----|------|

|                      |         |      |     |
|----------------------|---------|------|-----|
| Enterobacter cloacae | species | High | 550 |
|----------------------|---------|------|-----|

|                  |         |      |     |
|------------------|---------|------|-----|
| Escherichia coli | species | High | 562 |
|------------------|---------|------|-----|

|                        |         |      |       |
|------------------------|---------|------|-------|
| Eubacterium ventriosum | species | High | 39496 |
|------------------------|---------|------|-------|

|                     |         |     |       |
|---------------------|---------|-----|-------|
| Lachnospira eligens | species | Low | 39485 |
|---------------------|---------|-----|-------|

|                       |         |      |      |
|-----------------------|---------|------|------|
| Staphylococcus aureus | species | High | 1280 |
|-----------------------|---------|------|------|

## 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->1)-beta-D-fructofuranan {Inulin} 32 gram/day  
bifidobacterium longum {B.Longum } 10 BCFU/day  
Cichorium intybus {Chicory} 1800 mg/day

Lactiseibacillus paracasei {L.paracasei} 40 BCFU/day  
long-term, moderate-intensity exercise {exercise}  
wheat

## Retail Probiotics

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

Wholesome Wellness / Raw Probiotic  
 Jamieson (can) / probiotic 10 bcfu  
 Swiss BioEnergetics / Full Spectrum Probiotic Defence  
 Blackmores (au) / probiotics + adults daily (90 capsules)  
 Blackmore (au) / probiotics+ daily health  
 Bravo Europe / starter and complex  
 Probiotic 10 Billion Active Cells Daily Maintenance  
 UltraFlora® Restore  
 Bromatech (IT) / Rotanella plus  
 Optibac / for every day  
 Thryve Inside/ L.Reu,Rham,Casi; B.Lactis  
 Solgar / advanced 40+ acidophilus  
 Bromatech (IT) / Bifiselle  
 Wakamoto (jp) / wakamoto pharmaceutical intestinal drug  
 Custom Probiotics / five strain bifidobacteria  
 Wakunaga / Daily Probiotic  
 Naturopathica (au) / gastrohealth antacid  
 Bravo Europe / freeze-dried bravo  
 Schiff® Digestive Advantage® Advanced Probiotics Multi-Strain Support  
 Microbiome Labs / ZENBIOME Dual  
 Canada (ca) / Calmbiotic  
 Klaire Labs / Ther-biotic factor 4  
 InnovixLabs / Mood Probiotic  
 PoolPharma (IT) / ProbioTKMIO  
 Wakunaga / 50+  
 CVSHealth / Daily Probiotic  
 Bromatech (IT) / Serobiome  
 Blackmores (au) / probiotics+ immune defence  
 SuperSmart / Oral Health  
 PharmExtracta (IT) / Gliadines buccal stickpacks  
 Danactive drink  
 Bulk Probiotics / L. Paracasei Probiotic Powder  
 Sanogermina / AB-Kolicare  
 Bioflora(MX) / Woman  
 Jarrow formulas / jarro-dophilus mood  
 Probiotic Sticks  
 Ombre / Metabolic Booster  
 Nature's Way (au) / restore probiotic 30 billion 30s  
 Wakunaga / Pro+ Synbiotic  
 Naturopathica (au)/ gastrohealth probiotic daily care  
 Eden's / 3-in-1 Synbiotic Superblend  
 NOW FOODS / Clinical GI Probiotic  
 PrecisionBiotics / Immune  
 Genesis Bifidobacterium Complex BB Probiotic  
 Cytoplan(uk) / dentavital bifidophilus  
 CustomProbiotics.com / B. Longum Probiotic Powder  
 Metabolics / Bifidobacterium Longum Powder  
 Bulk Probiotics / B. Longum Probiotic Powder  
 Maple Life Science™ / Bifidobacterium longum  
 Thryve LPCasei Th1, LPCasei Th2,L.Ferm IBF1, L.acidoph  
 Bioflora (MX) / BIOFLORAMX / 50 BILLION 10 Strains  
 Align / Align® Chewables  
 Wakunaga / Kyo-Dophilus® Multi 9 Probiotic  
 Custom Probiotics / d-lactate free probiotics powder

naturopathica (au) / gastrohealth fibrepro  
philips / colon health  
blackmore (au) / probiotics+ eczema relief  
solgar / advanced multi-billion dophilus  
nature's way (au) / restore probiotic daily health 90s  
optibac / for daily immunity  
Bromatech (IT) / Aflugenex  
Jetson (US) / Immunity Probiotics  
Seeking Health / Probiota Bifidobacterium  
align / align  
jarrow formulas / bifidus balance® + fos  
Align® Extra Strength  
HLH BIOPHARMA(DE) / LACTOBACT ® AAD  
naturopathica (au) / gastrohealth probiotic adults 50+  
Schwabe Pharma Italia / MegaStress  
CustomProbiotics.com / L. Paracasei Probiotic Powder  
PrecisionBiotics / Zenflore  
PharmExtracta / Bowell

**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.

5,6-dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolizinium {Berberine}  
 2-Methyl-5-(1-methylethyl)phenol {Carvacrol}  
 3,3',4',5,7-pentahydroxyflavone {Quercetin}  
 Azadirachta indica {Neem}  
 Cinnamomum zeylanicum {Ceylon Cinnamon}  
 Citrus limon {Lemon}  
 D-(-)-Fructose {Fruit sugar}  
 Diferuloylmethane {Curcumin}  
 eugenol {Eugenic acid}  
 foeniculum vulgare,fennel  
 green tea  
 Honey {Honey }  
 Lactobacillus plantarum {L. plantarum}

Lavandula angustifolia {lavender}  
 Metha family {Mint}  
 Moringa Oleifera  
 Nigella sativa {black cumin}  
 Ocimum gratissimum {Clove basil}  
 origanum vulgare {oregano}  
 Pimpinella anisum {Anise}  
 Propolis {Bee glue}  
 Punica granatum {pomegranate}  
 rosmarinus officinalis {rosemary}  
 Salvia officinalis {Sage}  
 syzygium aromaticum {clove}  
 Thymus vulgaris {thyme}  
 Zingiber officinale Roscoe {ginger}

## Sample of Literature Used

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

### Diagnosis of Crohn`s disease and ulcerative colitis using the microbiome.

**BMC microbiology** , Volume: 23 Issue: 1 2023 Nov 11

Authors Kang DY,Park JL,Yeo MK,Kang SB,Kim JM,Kim JS,Kim SY

### Exploring the Association between Gut Microbiota and Inflammatory Skin Diseases: A Two-Sample Mendelian Randomization Analysis.

**Microorganisms** , Volume: 11 Issue: 10 2023 Oct 19

Authors Long J,Gu J,Yang J,Chen P,Dai Y,Lin Y,Wu M,Wu Y

### A case of Proteus syndrome with severe spinal canal stenosis, scoliosis, and thoracic deformity associated with tethered cord.

**Japanese journal of radiology** , Volume: 30 Issue: 4 2012 May

Authors Yamamoto A,Kikuchi Y,Yuzurihara M,Kubota M,Ouchi T

### Paraparesis caused by an angiolipomatous hamartoma in an adolescent with Proteus syndrome and scoliosis.

**Journal of neurosurgery** , Volume: 103 Issue: 3 Suppl 2005 Sep

Authors White NJ,Cochrane DD,Beauchamp R

### Thyme oil-Loaded chitosan microparticles: an antibacterial approach against pathogenic bacteria.

**3 Biotech** , Volume: 15 Issue: 5 2025 May

Authors Thakur A,Sharma K

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Authors Li M,Liu X,Chen W,Xu H,Huang F,Yao Q,Jia X,Huang Y

### Metabolic Profile, Antioxidant, Antimicrobial, Contractile, and Anti-Inflammatory Potential of Moringa oleifera Leaves (India).

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Authors Panova N,Gerasimova A,Tumbarski Y,Ivanov I,Todorova M,Dincheva I,Gentscheva G,Gledacheva V,Slavchev V,Stefanova I,Petkova N,Nikolova S,Nikolova K

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**Clinical nutrition (Edinburgh, Scotland)** , Volume: 49 2025 Apr 15

Authors Martinez-Tellez B,Xu H,Ortiz-Alvarez L,Rodríguez-García C,Schönke M,Jurado-Fasoli L,Osuna-Prieto FJ,Alcantara JMA,Acosta FM,Amaro-Gahete FJ,Folkerts G,Vilchez-Vargas R,Link A,Plaza-Diaz J,Gil A,Labayen I,Fernandez-Veledo S,Rensen PCN,Ruiz JR

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**Bioresource technology** , 2025 Apr 12

Authors Shingade JA,Padalkar NS,Shin JH,Kim YH,Park TJ,Park JP,Patil AR

### GC/MS and LC Composition Analysis of Essential Oil and Extracts From Wild Rosemary: Evaluation of Their Antioxidant, Antimicrobial, and Anti-Inflammatory Activities.

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**Journal of agricultural and food chemistry** , 2025 Mar 26

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### Antimicrobial Sponge: A Polyvinyl Alcohol, Tannic Acid and Curcumin-Loaded Nanolignin Hydrogel Composite Scaffold.

**Gels (Basel, Switzerland)** , Volume: 11 Issue: 3 2025 Feb 26

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**Authors** Lu D,Feng C,Pi Y,Ye H,Wu Y,Huang B,Zhao J,Han D,Soede N,Wang J

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**Chemistry & biodiversity , 2025 Feb 27**

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**Authors** Bakhtiari R,Shiri M,Reza Mohammadi M,Reza Pourmand M,Mirzaie A,Taghiabadi Z

Comparative Evaluation of Different Mint Species Based on Their In Vitro Antioxidant and Antibacterial Effect.

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Chemical Characterization and Antimicrobial Activity of Green Propolis from the Brazilian Caatinga Biome.

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**Authors** Aldana-Mejía JA,Ribeiro VP,Katragunta K,Avula B,Tatapudi KK,Bastos JK,Khan IA,Meepagala K,Ross SA

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**Authors** Lamichhane G,Olawale F,Liu J,Lee DY,Lee SJ,Chaffin N,Alake S,Lucas EA,Zhang G,Egan JM,Kim Y

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**Authors** Irshad A,Jawad R,Mushtaq Q,Spalletta A,Martin P,Ishtiaq U

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**Authors** Obeidat M,Haddad MA,Ghnamat SA

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**Animals : an open access journal from MDPI , Volume: 14 Issue: 23 2024 Dec 1**

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Natural compounds in the fight against Staphylococcus aureus biofilms: a review of antibiofilm strategies.

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**Journal of pineal research** , Volume: 76 Issue: 8 2024 Dec

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Authors Veselá K,Kejik Z,Abramenko N,Kaplánek R,Jakubek M,Petrlova J

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Authors Elbaz AM,El-Sonousy NK,Arafa AS,Sallam MG,Ateya A,Abdelhady AY

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Authors Vica ML,Glevitzky M,Dumitrel GA,Popa M,Glevitzky I,Teodoru CA

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Authors Gómez-Llorente H,Pérez-Esteve É,Barat JM,Jiménez MC,González-Bello C,Fernández-Segovia I

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Authors Suresh M,Mukundan SK,Rajasekar S,Gokulakrishnan S,Purushothaman N,Sethuraman SP

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Authors Granados ADPF,Duarte MCT,Noguera NH,Lima DC,Rodrigues RAF

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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-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