Microbiome Prescription
JUST THE FACTS

Treatment Suggestions for PersonalHealthInformation@Restricted.EU

This report is for PersonalHealthInformation@Restricted.EU using this sample BiomeSight:2023-10-23 Self 🛑 . It uses their reported medical conditions, microbiome sample, US National Library of Medicine, and a fuzzy logic expert system to compute recommendations balancing study reliability and contraindications. These suggestions should always be reviewed by a medical professional before starting.

NOTA BENE: This is working solely from published studies. Other suggestions algorithms are available on Microbiome Prescription. The URL above may be sent to your MD if you wish to share it.

The reported condition(s) are

This person has a significant amount of bacteria known to form biofilms

Substances with a 💊 are reported to reduce biofilms. See for studies.

1. Autism -
    1. **Omega-3 Fatty Acids**: Some studies have explored omega-3 supplements (particularly those containing EPA and DHA) due to their potential neuroprotective and anti-inflammatory properties. While research results have been mixed, some parents or caregivers of individuals with ASD might consider omega-3 supplements based on the belief that they could positively impact cognitive and behavioral functions.
    2. **Probiotics**: The gut-brain connection has sparked interest in the potential role of probiotics in influencing behavior and cognition. Some studies suggest that gut health might affect certain aspects of behavior in individuals with ASD. However, the use of probiotics for managing autism symptoms lacks robust scientific evidence, and their effectiveness remains unclear.
    3. **Vitamin D**: Low vitamin D levels have been observed in some individuals with ASD. While research is ongoing, maintaining adequate vitamin D levels is considered important for overall health. Some parents may opt for vitamin D supplements under the guidance of a healthcare professional.
    4. **Multivitamins and Minerals**: Individuals with ASD might have specific dietary habits that could lead to deficiencies in certain vitamins or minerals. Ensuring a balanced diet or supplementing with multivitamins and minerals under the guidance of a healthcare provider might be considered to address potential deficiencies.
2. Chronic Fatigue Syndrome - CFS,ME,Myalgic encephalomyelitis
    1. **Coenzyme Q10 (CoQ10)**: Some studies have suggested that CoQ10 supplementation might have potential benefits in reducing fatigue and improving energy levels in individuals with CFS. However, more research is needed to establish its effectiveness for CFS specifically.
    2. **Omega-3 Fatty Acids**: Omega-3 supplements containing EPA and DHA have anti-inflammatory properties and may support overall health. Some individuals with CFS might consider omega-3 supplementation for potential benefits, although evidence supporting their use specifically for CFS is limited.

3. **Probiotics**: The role of probiotics in managing CFS symptoms is an area of ongoing research. Some studies suggest that probiotics might impact gut health and the immune system, which could potentially affect symptoms in some individuals with CFS. However, specific probiotic strains, dosages, and their efficacy for CFS require further investigation.

4. **Vitamins and Minerals**: Nutritional deficiencies are common in individuals with CFS, possibly due to poor dietary intake or other factors. Some individuals might have deficiencies in vitamins (such as vitamin D, B vitamins) or minerals (like magnesium or iron). Supplements might be recommended to address identified deficiencies.

3. obsessive-compulsive disorder - OCD
    1. **Probiotics**: Research into the gut-brain connection suggests a potential link between gut health and mental health. Some studies indicate that probiotics might have a role in modulating mood and reducing anxiety. While this area of research is evolving, more studies are needed to understand the specific effects of probiotics on OCD symptoms.

    2. **N-Acetylcysteine (NAC)**: Some limited studies suggest that NAC, a compound that acts as a precursor to glutathione (an antioxidant), might have potential benefits in reducing OCD symptoms in some individuals. However, further research is needed to establish its effectiveness, dosage, and long-term safety for OCD treatment.

    3. **Omega-3 Fatty Acids**: Omega-3 fatty acids found in fish oil might have some potential benefits for mental health and mood regulation. Some individuals with mental health conditions, including OCD, might explore omega-3 supplementation, although evidence specific to OCD is limited.

    4. **Inositol**: Inositol, a compound similar to glucose, has been studied for its potential in managing OCD symptoms. Some research suggests that high doses of inositol might have benefits in reducing OCD symptoms. However, more research is needed to determine its effectiveness and appropriate dosages.

Significant Bacteria Shifts

Based on the existing literature on the US National Library of Medicine and this microbiome sample, we have the following matches for bacteria shifts. There is a growing body of literature finding that the effectiveness of interventions depends on the existing microbiome. We filter by documented interventions that helps some with this condition and suggestions based on this person's specific microbiome to produce this "double validated" list.

Acidobacteriota - phylum : High [13] [15]
Actinomycetota - phylum : Low [19]
Akkermansia - genus : High [10] [23] [26]
Akkermansia muciniphila - species : High [6]
Alcaligenaceae - family : High [26]
Bacteroides fragilis - species : High [18]
Bacteroides ovatus - species : High [17] [18]
Bacteroides uniformis - species : High [17] [18]
Blautia - genus : High [27]
Citrobacter - genus : High [21]
Coprococcus - genus : Low [10]
Coprococcus catus - species : Low [18]
Dorea - genus : Low [1] [8] [25] [26]
Eggerthella - genus : Low [5]
Escherichia - genus : Low [18] [21]
Lachnospira - genus : High [18]
Oscillospiraceae - family : High [24] [26]
Phascolarctobacterium - genus : Low [17] [24] [26]
Phocaeicola vulgatus - species : Low [7] [14] [18] [26]
Pseudomonadaceae - family : Low [5]
Pseudomonas - genus : Low [5]
Rothia - genus : High [17] [17]
Rothia mucilaginosa - species : High [17]
Ruminococcaceae - family : High [12]
Ruminococcus bromii - species : High [17] [18]
Staphylococcus - genus : Low [2] [18]
Sutterella - genus : High [3] [8] [11] [18] [20] [22] [26]
Sutterellaceae - family : High [4] [23]
Veillonellaceae - family : Low [16]

Cross Validated Suggestions

The following improves the bacteria identified above and also is reported in the literature of helping some people with this condition. Each is link to the source study.

hypericin, St. John's Wort [124]
inulin (prebiotic) [78]
iron [86]
ketotifen fumarate,(prescription) [86]
[88]

Suggestions Impact On Each Bacteria Picked

Reviewing substances reported to help with this condition on the US National Library of Medicine, and which will correct the above bacteria shifts. the following are recommended. Some bacteria may lack literature because none of the studied substances for the condition(s) are known to modify the bacteria.

- Actinomycetota
  - Astragalus [85 769]
  - bifidobacterium longum (probiotics) [121 541]
  - Coenzyme Q10 [35 813]
  - fish oil [38 70 86 101 103 112 119 120 305 813]
  - fructo-oligosaccharides (prebiotic) [52 57 58 75 86 305 582]
  - inulin (prebiotic) [78 603]
  - lactobacillus paracasei (probiotics) [75 78 679 830]
  - lactobacillus plantarum (probiotics) [43 541]
  - low fodmap diet [43 44 46 72 73 74 89 541 665]
  - minocycline (antibiotic)s[CFS] [79 148]
  - saccharomyces boulardii (probiotics) [45 80 148 548]
  - selenium [86 715]
  - Tryptophan [86 101 102 124 680 715]
  - vitamin d [52 787]
- Akkermansia
  - (r)-propranolol hydrochloride,(prescription) [52 59 60 86 90 124 348 787 831]
  - aripiprazole,(prescription) [69 348]
  - azithromycin,(antibiotic)s[CFS] [84 160]
  - citalopram hydrobromide,(prescription) [84 140 348]
  - clomipramine hydrochloride,(prescription) [141 142 144 348]
  - doxepin hydrochloride,(prescription) [90 145 348]
  - doxycycline (antibiotic)s[CFS]  [81 348]
  - erythromycin (antibiotic)s[CFS] [82 348]
  - Far infrared Sauna [96 713]
  - fluoxetine hydrochloride,(prescription) [97 98 99 129 348 713]
  - fluvoxamine maleate,(prescription) [130 131 132 348]
  - iron [86 133 134 348 483]
  - ketotifen fumarate,(prescription) [86 348]
  - lactobacillus plantarum (probiotics) [43 88 277 348]
  - liothyronine,(prescription) [43 44 46 72 73 74 88 277 348 615 803 820]
  - maprotiline hydrochloride,(prescription) [114 348]
  - melatonin supplement [86 348]
  - minocycline (antibiotic)s[CFS] [79 90 122 348]
  - omega-3 fatty acids [38 80 348]
  - paroxetine hydrochloride,(prescription) [52 57 58 86 134 348]
  - resveratrol (grape seed/polyphenols/red wine) [68 135 136 137 253 348]

    - risperidone,(prescription) [69] [348]
    - sertraline,(prescription) [138] [348]
    - trazodone hydrochloride,(prescription) [86] [139] [348]
    - Vitamin B1,thiamine hydrochloride [90] [105] [348]
    - Vitamin B9,folic acid [29] [106] [107] [348]
    - zinc [29] [30] [31] [32] [86] [100] [124] [348] [483]
- Akkermansia muciniphila
    - (r)-propranolol hydrochloride,(prescription) [90] [122] [124] [348] [483]
    - aripiprazole,(prescription) [69] [348]
    - azithromycin,(antibiotic)s[CFS] [84] [160]
    - citalopram hydrobromide,(prescription) [84] [140] [348]
    - clomipramine hydrochloride,(prescription) [141] [142] [144] [348]
    - doxepin hydrochloride,(prescription) [90] [145] [348]
    - doxycycline (antibiotic)s[CFS] [81] [348]
    - erythromycin (antibiotic)s[CFS] [82] [348]
    - Far infrared Sauna [96] [713]
    - fluoxetine hydrochloride,(prescription) [97] [98] [99] [129] [348] [713]
    - fluvoxamine maleate,(prescription) [130] [131] [132] [348]
    - iron [86] [133] [134] [348] [483]
    - ketotifen fumarate,(prescription) [86] [348]
    - lactobacillus plantarum (probiotics) [43] [88] [277] [348]
    - liothyronine,(prescription) [43] [44] [46] [72] [73] [74] [88] [277] [348] [803] [820]
    - maprotiline hydrochloride,(prescription) [114] [348]
    - melatonin supplement [86] [348]
    - minocycline (antibiotic)s[CFS] [79] [90] [122] [348]
    - omega-3 fatty acids [38] [80] [348]
    - paroxetine hydrochloride,(prescription) [52] [57] [58] [86] [134] [348]
    - resveratrol (grape seed/polyphenols/red wine) [68] [135] [136] [137] [253] [348]
    - risperidone,(prescription) [69] [348]
    - sertraline,(prescription) [138] [348]
    - trazodone hydrochloride,(prescription) [86] [139] [348]
    - Vitamin B1,thiamine hydrochloride [90] [105] [348]
    - Vitamin B9,folic acid [29] [106] [107] [348]
    - zinc [29] [30] [31] [32] [86] [100] [124] [348] [483]
- Alcaligenaceae
    - azithromycin,(antibiotic)s[CFS] [84] [122] [124] [483] [568]
    - glycine [124] [651]
- Bacteroides fragilis
    - aripiprazole,(prescription) [69] [348]
    - azithromycin,(antibiotic)s[CFS] [84] [348]
    - bifidobacterium infantis,(probiotics) [75] [308]
    - Cacao [35] [76] [179] [308]
    - citalopram hydrobromide,(prescription) [35] [118] [140] [179] [348] [607]
    - clomipramine hydrochloride,(prescription) [141] [142] [144] [348]
    - Curcumin [124] [145] [348]
    - doxepin hydrochloride,(prescription) [90] [348]
    - doxycycline (antibiotic)s[CFS] [81] [313]
    - erythromycin (antibiotic)s[CFS] [81] [82] [348] [763]
    - escitalopram,(prescription) [82] [140] [348] [763]

    - fluoxetine hydrochloride,(prescription) [129] [143] [348]
    - folinic acid calcium salt,(prescription) [52] [130] [131] [348]
    - fructo-oligosaccharides (prebiotic) [55] [56] [75] [348] [375]
    - glycine [75] [124] [425] [677]
    - glycyrrhizic acid (licorice) [115] [594]
    - guanfacine hydrochloride,(prescription) [90] [116] [117] [348] [594]
    - ketotifen fumarate,(prescription) [86] [348]
    - lactobacillus casei (probiotics) [36] [88] [264] [348]
    - lactobacillus plantarum (probiotics) [36] [40] [41] [43] [264] [627]
    - lactobacillus salivarius (probiotics) [44] [46] [47] [72] [73] [74] [205] [627]
    - maprotiline hydrochloride,(prescription) [114] [348]
    - midodrine hydrochloride,(prescription) [89] [348]
    - minocycline (antibiotic)s[CFS] [79] [90] [313] [348]
    - momordia charantia(bitter melon, karela, balsam pear, or bitter gourd) [79] [80] [104] [313] [348]
    - N-Acetyl Cysteine (NAC), [71] [594]
    - paroxetine hydrochloride,(prescription) [86] [124] [134] [348] [594]
    - resveratrol (grape seed/polyphenols/red wine) [68] [135] [136] [137] [191] [348]
    - risperidone,(prescription) [68] [69] [348] [422] [435]
    - saccharomyces boulardii (probiotics) [45] [743]
    - sertraline,(prescription) [138] [348]
    - ß-glucan [83] [139] [348]
    - Turmeric [124] [594]
    - Vitamin B1,thiamine hydrochloride [105] [348]
    - Vitamin B9,folic acid [29] [106] [107] [348]
    - vitamin d  [30] [31] [32] [52] [86] [100] [124] [348] [833]
- Bacteroides ovatus
    - azithromycin,(antibiotic)s[CFS] [59] [60] [84] [86] [124] [348] [833]
    - bifidobacterium infantis,(probiotics) [75] [84] [308] [763]
    - Cacao [35] [76] [179] [308]
    - clomipramine hydrochloride,(prescription) [35] [118] [144] [179] [348] [607]
    - Curcumin [124] [145] [348]
    - doxepin hydrochloride,(prescription) [90] [348]
    - doxycycline (antibiotic)s[CFS]  [81] [313]
    - erythromycin (antibiotic)s[CFS] [81] [82] [348] [763]
    - escitalopram,(prescription) [82] [140] [348] [763]
    - fluvoxamine maleate,(prescription) [132] [143] [348]
    - folinic acid calcium salt,(prescription) [52] [133] [134] [348]
    - fructo-oligosaccharides (prebiotic) [55] [56] [75] [348] [375]
    - glycine [75] [124] [425] [677]
    - glycyrrhizic acid (licorice) [115] [594]
    - guanfacine hydrochloride,(prescription) [90] [116] [117] [348] [594]
    - iron [86] [483]
    - lactobacillus casei (probiotics) [36] [264]
    - lactobacillus plantarum (probiotics) [36] [40] [41] [43] [264] [627]
    - lactobacillus salivarius (probiotics) [44] [46] [47] [72] [73] [74] [205] [627]
    - liothyronine,(prescription) [88] [348]
    - melatonin supplement [86] [348]
    - minocycline (antibiotic)s[CFS] [79] [90] [122] [313] [348]
    - momordia charantia(bitter melon, karela, balsam pear, or bitter gourd) [79] [80] [104] [313] [348]

    - N-Acetyl Cysteine (NAC), [71] [594]
    - resveratrol (grape seed/polyphenols/red wine) [68] [86] [124] [191] [594]
    - saccharomyces boulardii (probiotics) [45] [68] [422] [435] [743]
    - sertraline,(prescription) [138] [348]
    - ß-glucan [83] [139] [348]
    - Turmeric [124] [594]
    - Vitamin B1,thiamine hydrochloride [105] [348]
    - Vitamin B9,folic acid [29] [106] [107] [348] [483]
    - vitamin d  [30] [31] [32] [52] [86] [100] [124] [483] [833]
- Bacteroides uniformis
    - aripiprazole,(prescription) [59] [60] [69] [86] [124] [348] [833]
    - azithromycin,(antibiotic)s[CFS] [84] [348]
    - bifidobacterium infantis,(probiotics) [75] [84] [308] [763]
    - Cacao [35] [76] [179] [308]
    - citalopram hydrobromide,(prescription) [118] [140] [179] [348]
    - clomipramine hydrochloride,(prescription) [141] [142] [144] [348]
    - Curcumin [124] [145] [348]
    - doxepin hydrochloride,(prescription) [90] [348]
    - doxycycline (antibiotic)s[CFS]  [81] [313]
    - erythromycin (antibiotic)s[CFS] [81] [82] [348] [763]
    - escitalopram,(prescription) [82] [140] [348] [763]
    - fructo-oligosaccharides (prebiotic) [75] [143] [348] [375]
    - glycine [75] [124] [425] [677]
    - glycyrrhizic acid (licorice) [115] [594]
    - guanfacine hydrochloride,(prescription) [90] [116] [117] [348] [594]
    - lactobacillus casei (probiotics) [36] [264]
    - lactobacillus plantarum (probiotics) [36] [40] [41] [43] [264] [627]
    - lactobacillus salivarius (probiotics) [44] [46] [47] [72] [73] [74] [205] [627]
    - maprotiline hydrochloride,(prescription) [114] [348]
    - melatonin supplement [86] [348]
    - minocycline (antibiotic)s[CFS] [79] [90] [122] [313] [348]
    - momordia charantia(bitter melon, karela, balsam pear, or bitter gourd) [79] [80] [104] [313] [348]
    - N-Acetyl Cysteine (NAC), [71] [594]
    - naltrexone hydrochloride dihydrate,(prescription) LDN [86] [124] [348] [594]
    - resveratrol (grape seed/polyphenols/red wine) [68] [88] [91] [191] [348]
    - risperidone,(prescription) [68] [69] [348] [422] [435]
    - saccharomyces boulardii (probiotics) [45] [743]
    - sertraline,(prescription) [138] [348]
    - ß-glucan [83] [139] [348]
    - trazodone hydrochloride,(prescription) [86] [348]
    - Turmeric [90] [124] [348] [594]
    - Vitamin B9,folic acid [29] [483]
    - vitamin d [30] [31] [32] [52] [86] [100] [124] [483] [833]
- Blautia
    - azithromycin,(antibiotic)s[CFS] [59] [60] [84] [86] [124] [312] [833]
    - citalopram hydrobromide,(prescription) [84] [140] [348]
    - clomipramine hydrochloride,(prescription) [141] [142] [144] [348]
    - colostrum [76] [145] [348] [794]
    - doxepin hydrochloride,(prescription) [90] [348]

    - doxycycline (antibiotic)s[CFS] [81] [348]
    - erythromycin (antibiotic)s[CFS] [81] [82] [348] [788]
    - escitalopram,(prescription) [82] [140] [348] [788]
    - fish oil [38] [143] [348] [419]
    - fluvoxamine maleate,(prescription) [52] [57] [58] [86] [132] [348] [419]
    - glycyrrhizic acid (licorice) [115] [133] [134] [348] [759]
    - iron [86] [116] [117] [307] [759]
    - lactobacillus acidophilus (probiotics) [51] [409]
    - lactobacillus paracasei (probiotics) [75] [194]
    - lactobacillus salivarius (probiotics) [47] [491]
    - melatonin supplement [86] [348]
    - minocycline (antibiotic)s[CFS] [79] [90] [122] [348]
    - paroxetine hydrochloride,(prescription) [80] [134] [348]
    - resveratrol (grape seed/polyphenols/red wine) [68] [135] [136] [137] [201] [348]
    - risperidone,(prescription) [68] [69] [253] [422] [477]
    - sertraline,(prescription) [138] [348]
    - ß-glucan [83] [139] [230] [348]
    - Vitamin B1,thiamine hydrochloride [105] [348]
    - Vitamin B-12 [52] [106] [107] [348]
    - Vitamin B9,folic acid [29] [61] [62] [86] [124] [125] [126] [127] [128] [348] [483]
    - vitamin d [30] [31] [32] [52] [86] [100] [124] [483] [832]
- Citrobacter
    - azithromycin,(antibiotic)s[CFS] [59] [60] [84] [86] [124] [160] [832]
    - bifidobacterium infantis,(probiotics) [75] [544]
    - bifidobacterium lactis bb12 (probiotics) [75] [76] [363] [544]
    - bifidobacterium longum (probiotics) [77] [121] [363]
    - Curcumin [121] [124] [368] [710]
    - fish oil [38] [124] [233] [518]
    - fructo-oligosaccharides (prebiotic) [38] [52] [57] [58] [75] [86] [233] [353] [833]
    - hypericin, St. John's Wort [75] [124] [362] [374]
    - inulin (prebiotic) [78] [176]
    - iron [78] [86] [412] [433]
    - lactobacillus acidophilus (probiotics) [51] [176]
    - lactobacillus casei (probiotics) [36] [51] [188] [408]
    - lactobacillus casei shirota (probiotics) [36] [40] [41] [188] [405] [564] [627]
    - lactobacillus paracasei (probiotics) [41] [75] [402] [564]
    - lactobacillus plantarum (probiotics) [43] [75] [197] [479]
    - lactobacillus rhamnosus (probiotics) [39] [43] [44] [46] [72] [73] [74] [197] [228] [273] [405] [413] [549] [627]
    - minocycline (antibiotic)s[CFS] [50] [75] [79] [121] [413] [503]
    - resveratrol (grape seed/polyphenols/red wine) [68] [80] [389] [503]
    - saccharomyces boulardii (probiotics) [45] [340]
    - selenium [86] [168]
    - Sulforaphane (In broccoli sprouts,cauliflower, kale, cole crops, cabbage, collards, mustard, and cress) [52] [86] [101] [102] [124] [168] [418] [731]
    - Vitamin B-12 [52] [53] [63] [64] [65] [66] [67] [240] [731]
    - vitamin d [52] [61] [62] [86] [124] [125] [126] [127] [128] [214] [240]
    - zinc [59] [60] [86] [124] [214] [383]
- Coprococcus
    - bifidobacterium longum (probiotics) [86] [121] [122] [124] [164] [383] [418]

    - fructo-oligosaccharides (prebiotic) [75 121 198 335]
    - glycine [75 124 242 651]
    - glycyrrhizic acid (licorice) [115 124 677 800]
    - inulin (prebiotic) [78 116 117 246 800]
    - iron [78 86 332 334 371 406 412 528 536 830]
    - lactobacillus acidophilus (probiotics) [51 86 261 483]
    - lactobacillus casei (probiotics) [36 188]
    - lactobacillus paracasei (probiotics) [36 40 41 75 188 194 226]
    - lactobacillus plantarum (probiotics) [43 75 197 674]
    - lactobacillus rhamnosus (probiotics) [39 43 44 46 72 73 74 197 434 692 803]
    - lactobacillus salivarius (probiotics) [47 50 75 121 184 434]
    - melatonin supplement [86 762]
    - minocycline (antibiotic)s[CFS] [79 90 122 148 762]
    - omega-3 fatty acids [38 79 80 148 234 553]
    - resveratrol (grape seed/polyphenols/red wine) [38 52 57 58 68 86 553 559 567]
    - saccharomyces boulardii (probiotics) [45]
    - Tryptophan [86 680]
    - Vitamin B9,folic acid [29 483]
    - vitamin d [30 31 32 52 86 100 124 483 649]
- Coprococcus catus
    - inulin (prebiotic) [52 59 60 78 86 124 528 649 689 787 831 832]
    - lactobacillus acidophilus (probiotics) [51 261]
    - lactobacillus paracasei (probiotics) [75 194]
    - vitamin d [52 689]
- Dorea
    - bifidobacterium infantis,(probiotics) [52 59 60 75 86 124 555 689 831 832]
    - bifidobacterium longum (probiotics) [76 121 164 555]
    - fructo-oligosaccharides (prebiotic) [75 121 198 335]
    - glycine [75 124 242 651]
    - glycyrrhizic acid (licorice) [115 124 677 800]
    - inulin (prebiotic) [78 116 117 246 800]
    - iron [78 86 332 334 371 406 412 536 830]
    - lactobacillus acidophilus (probiotics) [51 261]
    - lactobacillus casei (probiotics) [36 188]
    - lactobacillus paracasei (probiotics) [36 40 41 75 188 226 674]
    - lactobacillus plantarum (probiotics) [43 197]
    - lactobacillus rhamnosus (probiotics) [39 43 44 46 72 73 74 197 434 692 803]
    - lactobacillus salivarius (probiotics) [47 50 75 121 184 434]
    - melatonin supplement [86 762]
    - minocycline (antibiotic)s[CFS] [79 90 122 148 762]
    - omega-3 fatty acids [38 79 80 148 234 553]
    - resveratrol (grape seed/polyphenols/red wine) [38 52 57 58 68 86 553 559 567]
    - saccharomyces boulardii (probiotics) [45]
    - Tryptophan [86 680]
    - vitamin d [52 649]
- Eggerthella
    - colostrum [52 59 60 76 86 124 649 787 794]
    - resveratrol (grape seed/polyphenols/red wine) [68 178]
    - vitamin d [52 206]

- Escherichia
  - azithromycin,(antibiotic)s[CFS] [59] [60] [84] [86] [124] [206] [312]
  - doxycycline (antibiotic)s[CFS] [81] [162]
  - d-ribose [37] [81] [657] [788]
  - erythromycin (antibiotic)s[CFS] [37] [38] [82] [86] [657] [728] [788]
  - fructo-oligosaccharides (prebiotic) [75] [198]
  - inulin (prebiotic) [75] [78] [395] [830]
  - iron [86] [483]
  - minocycline (antibiotic)s[CFS] [79] [86] [173] [626]
  - resveratrol (grape seed/polyphenols/red wine) [68] [80] [173] [373]
  - risperidone,(prescription) [69] [477]
  - SAM-e [33] [631]
  - Vitamin B9,folic acid [29] [483]
  - vitamin d [30] [31] [32] [52] [86] [100] [124] [483] [617]
  - zinc [59] [60] [86] [124] [170] [617]
- Faecalibacterium
  - azithromycin,(antibiotic)s[CFS] [84] [86] [122] [124] [170] [312] [483]
  - colostrum [76] [794]
  - fructo-oligosaccharides (prebiotic) [75]
  - inulin (prebiotic) [78] [583]
  - iron [78] [86] [307] [830]
  - lactobacillus acidophilus (probiotics) [51] [409]
  - lactobacillus casei (probiotics) [36] [226]
  - lactobacillus paracasei (probiotics) [40] [41] [75] [194] [226]
  - lactobacillus plantarum (probiotics) [43] [277]
  - lactobacillus rhamnosus (probiotics) [39] [44] [46] [72] [73] [74] [262] [277]
  - lactobacillus salivarius (probiotics) [39] [47] [50] [75] [121] [205] [262] [413]
  - low fodmap diet [47] [89] [491]
  - omega-3 fatty acids [38]
  - vitamin d [38] [52] [57] [58] [86] [553] [701]
  - zinc [59] [60] [86] [124] [278] [701]
- Lachnospira
  - azithromycin,(antibiotic)s[CFS] [84] [122] [124] [278] [312]
  - citalopram hydrobromide,(prescription) [84] [140] [348]
  - clomipramine hydrochloride,(prescription) [141] [142] [144] [348]
  - colostrum [76] [145] [348] [794]
  - doxepin hydrochloride,(prescription) [90] [348]
  - doxycycline (antibiotic)s[CFS] [81] [348]
  - erythromycin (antibiotic)s[CFS] [81] [82] [348] [788]
  - fish oil [38] [82] [419] [788]
  - fludrocortisone acetate,(prescription) [52] [57] [58] [86] [89] [348] [419]
  - fluvoxamine maleate,(prescription) [90] [132] [348]
  - fructo-oligosaccharides (prebiotic) [75] [133] [134] [348] [457]
  - glycyrrhizic acid (licorice) [115] [759]
  - guanfacine hydrochloride,(prescription) [90] [116] [117] [348] [759]
  - iron [86] [307]
  - lactobacillus acidophilus (probiotics) [51] [409]
  - liothyronine,(prescription) [88] [348]
  - maprotiline hydrochloride,(prescription) [114] [348]

    - melatonin supplement [86 348]
    - minocycline (antibiotic)s[CFS] [79 90 122 348]
    - naltrexone hydrochloride dihydrate,(prescription) LDN [80 86 348]
    - paroxetine hydrochloride,(prescription) [88 91 134 348]
    - pyridostigmine iodide,(prescription) [87 135 136 137 348]
    - resveratrol (grape seed/polyphenols/red wine) [68 90 201 348]
    - risperidone,(prescription) [68 69 253 422 477]
    - sertraline,(prescription) [138 348]
    - ß-glucan [83 139 230 348]
    - Vitamin B1,thiamine hydrochloride [105 348]
    - Vitamin B-12 [52 106 107 348]
- Oscillospiraceae
    - azithromycin,(antibiotic)s[CFS] [61 62 84 86 124 125 126 127 128 312 348]
    - colostrum [76 794]
    - doxycycline (antibiotic)s[CFS] [81 162]
    - fructo-oligosaccharides (prebiotic) [75 457]
    - glycyrrhizic acid (licorice) [75 115 563 800]
    - inulin (prebiotic) [78 116 117 332 800]
    - iron [78 86 307 583 830]
    - lactobacillus casei (probiotics) [36 226]
    - lactobacillus paracasei (probiotics) [40 41 75 194 226]
    - lactobacillus plantarum (probiotics) [43 75 277 683]
    - lactobacillus rhamnosus (probiotics) [39 44 46 72 73 74 277 413]
    - lactobacillus salivarius (probiotics) [47 50 75 121 205 413]
    - omega-3 fatty acids [38 47 491 553]
    - resveratrol (grape seed/polyphenols/red wine) [52 57 58 68 86 553 749]
    - Vitamin B1,thiamine hydrochloride [68 105 276 752]
    - Vitamin B9,folic acid [29 106 107 276 744]
    - vitamin d [30 31 32 52 86 100 124 664 744]
    - vsl#3 (probiotics) [42 52 59 60 86 124 496 664 701 831 832]
    - zinc [86 278]
- Phascolarctobacterium
    - fructo-oligosaccharides (prebiotic) [75 122 124 278 457]
    - inulin (prebiotic) [78 371]
- Phocaeicola vulgatus
    - bifidobacterium lactis bb12 (probiotics) [75 78 202 830]
    - Curcumin [77 121 124 202 463]
    - doxycycline (antibiotic)s[CFS] [81 162]
    - fructo-oligosaccharides (prebiotic) [75]
    - inulin (prebiotic) [78 406]
    - iron [86 412]
    - lactobacillus acidophilus (probiotics) [51 86 202 483]
    - lactobacillus plantarum (probiotics) [43 272]
    - lactobacillus rhamnosus (probiotics) [39 43 44 46 72 73 74 272 277 413]
    - minocycline (antibiotic)s[CFS] [50 75 79 121 148 413]
    - resveratrol (grape seed/polyphenols/red wine) [68 80 148 186]
    - Vitamin B9,folic acid [29 68 253 305 428 483]
    - vitamin d [30 31 32 52 86 100 124 206 483]
- Pseudomonadaceae

    - Astragalus [59 60 85 86 124 206 594]
    - erythromycin (antibiotic)s[CFS] [82 85 770]
    - glycyrrhizic acid (licorice) [115 594]
    - iron [86 116 117 546 594]
- Pseudomonas
    - Astragalus [85 86 594 687]
    - erythromycin (antibiotic)s[CFS] [82 85 770]
    - glycyrrhizic acid (licorice) [115 594]
    - iron [86 116 117 546 594]
- Ruminococcaceae
    - azithromycin,(antibiotic)s[CFS] [84 86 312 687]
    - doxycycline (antibiotic)s[CFS]  [81 162]
    - fructo-oligosaccharides (prebiotic) [75]
    - glycyrrhizic acid (licorice) [115 800]
    - iron [86 116 117 307 800]
    - lactobacillus acidophilus (probiotics) [51 409]
    - lactobacillus casei (probiotics) [36 226]
    - lactobacillus paracasei (probiotics) [40 41 75 194 226]
    - lactobacillus rhamnosus (probiotics)  [39 262]
    - lactobacillus salivarius (probiotics) [39 47 50 75 121 205 262 413]
    - low fodmap diet [89]
    - omega-3 fatty acids [38]
    - Vitamin B9,folic acid [29 52 57 58 86 744]
    - zinc [30 31 32 86 100 124 278 744]
- Ruminococcus bromii
    - (r)-propranolol hydrochloride,(prescription) [90 122 124 278 348]
    - (s)-propranolol hydrochloride,(prescription) [90 348]
    - azithromycin,(antibiotic)s[CFS] [84 312]
    - bupropion hydrochloride,(prescription) [84 114 348]
    - clomipramine hydrochloride,(prescription) [144 348]
    - cromolyn disodium salt,(prescription) [88 145 348]
    - doxepin hydrochloride,(prescription) [90 348]
    - doxycycline (antibiotic)s[CFS]  [81 348]
    - erythromycin (antibiotic)s[CFS] [82 348]
    - escitalopram,(prescription) [140 348]
    - fluvoxamine maleate,(prescription) [132 143 348]
    - folinic acid calcium salt,(prescription) [52 133 134 348]
    - guanfacine hydrochloride,(prescription) [55 56 90 348]
    - ketotifen fumarate,(prescription) [86 348]
    - lactobacillus paracasei (probiotics) [75 88 194 348]
    - lactobacillus salivarius (probiotics) [47 205]
    - liothyronine,(prescription) [88 348]
    - melatonin supplement [86 348]
    - midodrine hydrochloride,(prescription) [89 90 122 348]
    - minocycline (antibiotic)s[CFS] [79 90 348]
    - N-Acetyl Cysteine (NAC), [71 80 348]
    - pyridostigmine iodide,(prescription) [86 87 124 348]
    - resveratrol (grape seed/polyphenols/red wine) [68 90 348 749]
    - sertraline,(prescription) [68 138 348 752]

    - Vitamin B1,thiamine hydrochloride [105] [139] [348]
    - Vitamin B-12 [52] [106] [107] [348]
    - vitamin d [52] [61] [62] [86] [124] [125] [126] [127] [128] [348] [832]
- Staphylococcus
    - Astragalus [59] [60] [85] [86] [124] [594] [832]
    - lactobacillus plantarum (probiotics) [43] [197]
    - vitamin d [44] [46] [52] [72] [73] [74] [197] [617]
- Sutterella
    - azithromycin,(antibiotic)s[CFS] [59] [60] [84] [86] [124] [269] [617]
    - bifidobacterium longum (probiotics) [121] [221]
    - lactobacillus acidophilus (probiotics) [51] [221]
    - lactobacillus paracasei (probiotics) [75] [683]
    - lactobacillus plantarum (probiotics) [43] [277]
    - saccharomyces boulardii (probiotics) [44] [45] [46] [72] [73] [74] [277] [743]
- Sutterellaceae
    - azithromycin,(antibiotic)s[CFS] [84] [269]
    - bifidobacterium longum (probiotics) [121] [221]
    - glycine [124] [651]
    - inulin (prebiotic) [78] [830]
    - lactobacillus acidophilus (probiotics) [51] [221]
    - lactobacillus paracasei (probiotics) [75] [683]
    - lactobacillus plantarum (probiotics) [43] [277]
    - saccharomyces boulardii (probiotics) [44] [45] [46] [72] [73] [74] [277] [743]
- Veillonellaceae
    - bifidobacterium longum (probiotics) [121] [221]
    - d-ribose [37] [569]
    - fish oil [37] [38] [86] [419] [569] [570] [571]
    - inulin (prebiotic) [52] [57] [58] [78] [86] [326] [419]
    - lactobacillus acidophilus (probiotics) [51] [78] [221] [433]
    - lactobacillus paracasei (probiotics) [75] [683]
    - ß-glucan [83] [403]
    - vitamin d [52] [787]

;

Additional Suggestions

There are many other interventions computed to correct the bacteria shifts/abnormalities seen with this person. This is based on not-published studies and patent pending methods for selecting the bacteria. **The suggestions are based on studies from the US National Library of Medicine modifying those bacteria.** The top 30 suggestions are listed below and the top 30 items to avoid.

Items to add

1. sucralose
2. whole-grain barley
3. Shen Ling Bai Zhu San
4. whey
5. garlic (allium sativum)
6. anise
7. gluten-free diet
8. lauric acid(fatty acid in coconut oil,in palm kernel oil,)
9. lactobacillus sakei (probiotics)
10. foeniculum vulgare,fennel
11. Hesperidin (polyphenol)
12. peppermint (spice, oil)
13. thyme (thymol, thyme oil)??
14. Kimchi
15. galla rhois
16. neem
17. ginger
18. syzygium aromaticum (clove)
19. linseed(flaxseed)
20. Konjaku flour
21. lactobacillus gasseri (probiotics)
22. sorghum
23. Artemisinin
24. polyphenols
25. lactobacillus kefiri (NOT KEFIR)
26. green tea
27. rosa rugosa
28. Apple skin
29. ethanol
30. galla chinensis (herb)

Items to avoid

1. Slippery Elm
2. arabinogalactan (prebiotic)
3. berberine
4. resistant starch
5. fasting
6. red wine
7. Bofutsushosan
8. Human milk oligosaccharides (prebiotic, Holigos, Stachyose)
9. xylan (prebiotic)
10. pectin
11. Pulses
12. stevia
13. schisandra chinensis(magnolia berry or five-flavor-fruit)
14. saccharin
15. apple
16. low-fat diets
17. high red meat
18. barley
19. resistant maltodextrin
20. vegetarians
21. l-citrulline
22. wheat bran
23. cranberry bean flour
24. partially hydrolysed guar gum (prebiotic)
25. Moringa Oleifera??
26. fibre-rich macrobiotic ma-pi 2 diet
27. galacto-oligosaccharides (prebiotic)
28. ketogenic diet
29. ku ding cha tea
30. kefir

Reference

The following is a partial list of the critical citations used above. Click on to go to study

1 New evidences on the altered gut microbiota in autism spectrum disorders.
Microbiome (Microbiome) Vol: 5 Issue: 1 Pages: 24 Pub: 2017 Feb 22 ePub: 2017 Feb 22 *Authors* Strati F,Cavalieri D,Albanese D,De Felice C,Donati C,Hayek J,Jousson O,Leoncini S,Renzi D,Calabrò A,De Filippo C

2 The valproic acid rat model of autism presents with gut bacterial dysbiosis similar to that in human autism.
Molecular autism (Mol Autism) Vol: 9 Issue: Pages: 61 Pub: 2018 ePub: 2018 Dec 10 *Authors* Liu F,Horton-Sparks K,Hull V,Li RW,Martínez-Cerdeño V

3 Analysis of gut microbiota profiles and microbe-disease associations in children with autism spectrum disorders in China.
Scientific reports (Sci Rep) Vol: 8 Issue: 1 Pages: 13981 Pub: 2018 Sep 18 ePub: 2018 Sep 18 *Authors* Zhang M,Ma W,Zhang J,He Y,Wang J

4 Fecal microbiota and metabolome of children with autism and pervasive developmental disorder not otherwise specified.
PloS one (PLoS One) Vol: 8 Issue: 10 Pages: e76993 Pub: 2013 ePub: 2013 Oct 9 *Authors* De Angelis M,Piccolo M,Vannini L,Siragusa S,De Giacomo A,Serrazzanetti DI,Cristofori F,Guerzoni ME,Gobbetti M,Francavilla R

5 Fecal metagenomic profiles in subgroups of patients with myalgic encephalomyelitis/chronic fatigue syndrome.
Microbiome (Microbiome) Vol: 5 Issue: 1 Pages: 44 Pub: 2017 Apr 26 ePub: 2017 Apr 26 *Authors* Nagy-Szakal D,Williams BL,Mishra N,Che X,Lee B,Bateman L,Klimas NG,Komaroff AL,Levine S,Montoya JG,Peterson DL,Ramanan D,Jain K,Eddy ML,Hornig M,Lipkin WI

6 Ketogenic diet modifies the gut microbiota in a murine model of autism spectrum disorder.
Molecular autism (Mol Autism) Vol: 7 Issue: 1 Pages: 37 Pub: 2016 ePub: 2016 Sep 1 *Authors* Newell C,Bomhof MR,Reimer RA,Hittel DS,Rho JM,Shearer J

7 Can we reduce autism-related gastrointestinal and behavior problems by gut microbiota based dietary modulation? A review.
Nutritional neuroscience (Nutr Neurosci) Vol: Issue: Pages: 1-12 Pub: 2019 Jun 19 ePub: 2019 Jun 19 *Authors* Nogay NH,Nahikian-Nelms M

8 The Role of Gut Microbiota in Gastrointestinal Symptoms of Children with ASD.
Medicina (Kaunas, Lithuania) (Medicina (Kaunas)) Vol: 55 Issue: 8 Pages: Pub: 2019 Jul 26 ePub: 2019 Jul 26 *Authors* Martínez-González AE,Andreo-Martínez P

9 Association Between Gut Microbiota and Autism Spectrum Disorder: A Systematic Review and Meta-Analysis.
Frontiers in psychiatry (Front Psychiatry) Vol: 10 Issue: Pages: 473 Pub: 2019 ePub: 2019 Jul 17 *Authors* Xu M,Xu X,Li J,Li F

10 Analysis of gut microbiome, nutrition and immune status in autism spectrum disorder: a case-control study in Ecuador.
Gut microbes (Gut Microbes) Vol: Issue: Pages: 1-12 Pub: 2019 Sep 18 ePub: 2019 Sep 18 *Authors* Zurita MF,Cárdenas PA,Sandoval ME,Peña MC,Fornasini M,Flores N,Monaco MH,Berding K,Donovan SM,Kuntz T,Gilbert JA,Baldeón ME

11 Increased abundance of Sutterella spp. and Ruminococcus torques in feces of children with autism spectrum disorder.
Molecular autism (Mol Autism) Vol: 4 Issue: 1 Pages: 42 Pub: 2013 Nov 4 ePub: 2013 Nov 4 *Authors* Wang L,Christophersen CT,Sorich MJ,Gerber JP,Angley MT,Conlon MA

12 Autism spectrum disorder is associated with gut microbiota disorder in children.
BMC pediatrics (BMC Pediatr) Vol: 19 Issue: 1 Pages: 516 Pub: 2019 Dec 27 ePub: 2019 Dec 27 *Authors* Sun H,You Z,Jia L,Wang F

13 [Correlation between gut microbiota and behavior symptoms in children with autism spectrum disorder].
Zhongguo dang dai er ke za zhi = Chinese journal of contemporary pediatrics (Zhongguo Dang Dai Er Ke Za Zhi) Vol: 21 Issue: 7 Pages: 663-669 Pub: 2019 Jul ePub: *Authors* Zhao RH,Zheng PY,Liu SM,Tang YC,Li EY,Sun ZY,Jiang MM

14 Changes in the Gut Microbiota of Children with Autism Spectrum Disorder.
Autism research : official journal of the International Society for Autism Research (Autism Res) Vol: 13 Issue: 9 Pages: 1614-1625 Pub: 2020 Sep ePub: 2020 Aug 24 *Authors* Zou R,Xu F,Wang Y,Duan M,Guo M,Zhang Q,Zhao H,Zheng H

15 Altered gut microbiota and short chain fatty acids in Chinese children with autism spectrum disorder.
Scientific reports (Sci Rep) Vol: 9 Issue: 1 Pages: 287 Pub: 2019 Jan 22 ePub: 2019 Jan 22 *Authors* Liu S,Li E,Sun Z,Fu D,Duan G,Jiang M,Yu Y,Mei L,Yang P,Tang Y,Zheng P

16 Gut Microbial Dysbiosis in Indian Children with Autism Spectrum Disorders.
Microbial ecology (Microb Ecol) Vol: 76 Issue: 4 Pages: 1102-1114 Pub: 2018 Nov ePub: 2018 Mar 21 *Authors* Pulikkan J,Maji A,Dhakan DB,Saxena R,Mohan B,Anto MM,Agarwal N,Grace T,Sharma VK

17 Potential role of microbiome in Chronic Fatigue Syndrome/Myalgic Encephalomyelits (CFS/ME).
Scientific reports (Sci Rep) Vol: 11 Issue: 1 Pages: 7043 Pub: 2021 Mar 29 ePub: 2021 Mar 29 *Authors* Lupo GFD,Rocchetti G,Lucini L,Lorusso L,Manara E,Bertelli M,Puglisi E,Capelli E

18 Searching for host immune-microbiome mechanisms in obsessive-compulsive disorder: A narrative literature review and future directions.
Neuroscience and biobehavioral reviews (Neurosci Biobehav Rev) Vol: 125 Issue: Pages: 517-534 Pub: 2021 Jun ePub: 2021 Feb 24 *Authors* Troyer EA,Kohn JN,Ecklu-Mensah G,Aleti G,Rosenberg DR,Hong S

19 Altered Gut Microbiota in Korean Children with Autism Spectrum Disorders.
Nutrients (Nutrients) Vol: 13 Issue: 10 Pages: Pub: 2021 Sep 22 ePub: 2021 Sep 22 *Authors* Ha S,Oh D,Lee S,Park J,Ahn J,Choi S,Cheon KA

20 Are Fecal Metabolome and Microbiota Profiles Correlated with Autism Severity? A Cross-Sectional Study on ASD Preschoolers.
Metabolites (Metabolites) Vol: 11 Issue: 10 Pages: Pub: 2021 Sep 26 ePub: 2021 Sep 26 *Authors* Laghi L,Mastromarino P,Prosperi M,Morales MA,Calderoni S,Santocchi E,Muratori F,Guiducci L

21 Serum Oxytocin Level Correlates With Gut Microbiome Dysbiosis in Children With Autism Spectrum Disorder.
Frontiers in neuroscience (Front Neurosci) Vol: 15 Issue: Pages: 721884 Pub: 2021 ePub: 2021 Oct 1 *Authors* Huang M,Liu K,Wei Z,Feng Z,Chen J,Yang J,Zhong Q,Wan G,Kong XJ

22 Mucosa-associated specific bacterial species disrupt the intestinal epithelial barrier in the autism phenome.
Brain, behavior, & immunity - health (Brain Behav Immun Health) Vol: 15 Issue: Pages: 100269 Pub: 2021 Aug ePub: 2021 May 14 *Authors* Agarwala S,Naik B,Ramachandra NB

23 Autism Spectrum Disorders and the Gut Microbiota.
Nutrients (Nutrients) Vol: 11 Issue: 3 Pages: Pub: 2019 Feb 28 ePub: 2019 Feb 28 *Authors* Fattorusso A,Di Genova L,Dell`Isola GB,Mencaroni E,Esposito S

24 Altered Gut Microbiota and Short-chain Fatty Acids in Chinese Children with Constipated Autism Spectrum Disorder.
Scientific reports (Sci Rep) Vol: 13 Issue: 1 Pages: 19103 Pub: 2023 Nov 4 ePub: 2023 Nov 4 *Authors* He J,Gong X,Hu B,Lin L,Lin X,Gong W,Zhang B,Cao M,Xu Y,Xia R,Zheng G,Wu S,Zhang Y

25 Machine Learning Algorithms Applied to Predict Autism Spectrum Disorder Based on Gut Microbiome Composition.
Biomedicines (Biomedicines) Vol: 11 Issue: 10 Pages: Pub: 2023 Sep 26 ePub: 2023 Sep 26 *Authors* Olaguez-Gonzalez JM,Chairez I,Breton-Deval L,Alfaro-Ponce M

26 The Role of Short-Chain Fatty Acids and Altered Microbiota Composition in Autism Spectrum Disorder: A Comprehensive Literature Review.
International journal of molecular sciences (Int J Mol Sci) Vol: 24 Issue: 24 Pages: Pub: 2023 Dec 13 ePub: 2023 Dec 13 *Authors* Lagod PP,Naser SA

27 Deficient butyrate-producing capacity in the gut microbiome is associated with bacterial network disturbances and fatigue symptoms in ME/CFS.
Cell host & microbe (Cell Host Microbe) Vol: 31 Issue: 2 Pages: 288-304.e8 Pub: 2023 Feb 8 ePub: *Authors* Guo C,Che X,Briese T,Ranjan A,Allicock O,Yates RA,Cheng A,March D,Hornig M,Komaroff AL,Levine S,Bateman L,Vernon SD,Klimas NG,Montoya JG,Peterson DL,Lipkin WI,Williams BL

28 Open Trial of Vitamin B12 Nasal Drops in Adults With Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: Comparison of Responders and Non-Responders.
Frontiers in pharmacology (Front Pharmacol) Vol: 10 Issue: Pages: 1102 Pub: 2019 ePub: 2019 Sep 20 *Authors* van Campen CLM,Riepma K,Visser FC

29 Response to vitamin B12 and folic acid in myalgic encephalomyelitis and fibromyalgia.
PloS one (PLoS One) Vol: 10 Issue: 4 Pages: e0124648 Pub: 2015 ePub: 2015 Apr 22 *Authors* Regland B,Forsmark S,Halaouate L,Matousek M,Peilot B,Zachrisson O,Gottfries CG

30 [Vitamin B12 and chronic fatigue].
Lakartidningen (Lakartidningen) Vol: 97 Issue: 5 Pages: 501 Pub: 2000 Feb 2 ePub: *Authors* Hägglöf M

31 [Vitamin B12, chronic fatigue and injection treatment].
Lakartidningen (Lakartidningen) Vol: 96 Issue: 50 Pages: 5610 Pub: 1999 Dec 15 ePub: *Authors* Björkegren K

32 Liver extract-folic acid-cyanocobalamin vs placebo for chronic fatigue syndrome.
Archives of internal medicine (Arch Intern Med) Vol: 149 Issue: 11 Pages: 2501-3 Pub: 1989 Nov ePub: *Authors* Kaslow JE,Rucker L,Onishi R

33 Alternative medical interventions used in the treatment and management of myalgic encephalomyelitis/chronic fatigue syndrome and fibromyalgia.
Journal of alternative and complementary medicine (New York, N.Y.) (J Altern Complement Med) Vol: 16 Issue: 3 Pages: 235-49 Pub: 2010 Mar ePub: *Authors* Porter NS,Jason LA,Boulton A,Bothne N,Coleman B

34 Cognitive behaviour therapy for the chronic fatigue syndrome. Evening primrose oil and magnesium have been shown to be effective.
BMJ (Clinical research ed.) (BMJ) Vol: 312 Issue: 7038 Pages: 1096; author reply 1098 Pub: 1996 Apr 27 ePub: *Authors* Chilton SA

35 Dietary and nutrition interventions for the therapeutic treatment of chronic fatigue syndrome/myalgic encephalomyelitis: a systematic review.
Journal of human nutrition and dietetics : the official journal of the British Dietetic Association (J Hum Nutr Diet) Vol: 30 Issue: 3 Pages: 247-259 Pub: 2017 Jun ePub: 2017 Jan 22 *Authors* Campagnolo N,Johnston S,Collatz A,Staines D,Marshall-Gradisnik S

36 Are probiotic treatments useful on fibromyalgia syndrome or chronic fatigue syndrome patients? A systematic review.
Beneficial microbes (Benef Microbes) Vol: 9 Issue: 4 Pages: 603-611 Pub: 2018 Jun 15 ePub: 2018 Apr 26 *Authors* Roman P,Carrillo-Trabalón F,Sánchez-Labraca N,Cañadas F,Estévez AF,Cardona D

37 The use of D-ribose in chronic fatigue syndrome and fibromyalgia: a pilot study.
Journal of alternative and complementary medicine (New York, N.Y.) (J Altern Complement Med) Vol: 12 Issue: 9 Pages: 857-62 Pub: 2006 Nov ePub: *Authors* Teitelbaum JE,Johnson C,St Cyr J

38 Role of dietary modification in alleviating chronic fatigue syndrome symptoms: a systematic review.
Australian and New Zealand journal of public health (Aust N Z J Public Health) Vol: 41 Issue: 4 Pages: 338-344 Pub: 2017 Aug ePub: 2017 Jun 14 *Authors* Jones K,Probst Y

39 Effect of probiotic supplementation on cognitive function in children and adolescents: a systematic review of randomised trials.
Beneficial microbes (Benef Microbes) Vol: 10 Issue: 8 Pages: 873-882 Pub: 2019 Dec 9 ePub: 2019 Nov 26 *Authors* Rianda D,Agustina R,Setiawan EA,Manikam NRM

40 The Effect of Lactobacillus casei Consumption in Improvement of Obsessive-Compulsive Disorder: an Animal Study.
Probiotics and antimicrobial proteins (Probiotics Antimicrob Proteins) Vol: 12 Issue: 4 Pages: 1409-1419 Pub: 2020 Dec ePub: *Authors* Sanikhani NS,Modarressi MH,Jafari P,Vousooghi N,Shafei S,Akbariqomi M,Heidari R,Lavasani PS,Yazarlou F,Motevaseli E,Ghafouri-Fard S

41 A randomized, double-blind, placebo-controlled pilot study of a probiotic in emotional symptoms of chronic fatigue syndrome.
Gut pathogens (Gut Pathog) Vol: 1 Issue: 1 Pages: 6 Pub: 2009 Mar 19 ePub: 2009 Mar 19 *Authors* Rao AV,Bested AC,Beaulne TM,Katzman MA,Iorio C,Berardi JM,Logan AC

42 Probiotics for Gastrointestinal Symptoms and Quality of Life in Autism: A Placebo-Controlled Pilot Trial.
Journal of child and adolescent psychopharmacology (J Child Adolesc Psychopharmacol) Vol: 29 Issue: 9 Pages: 659-669 Pub: 2019 Nov ePub: 2019 Aug 30 *Authors* Arnold LE,Luna RA,Williams K,Chan J,Parker RA,Wu Q,Hollway JA,Jeffs A,Lu F,Coury DL,Hayes C,Savidge T

43 Effects of *Lactobacillus plantarum* PS128 on Children with Autism Spectrum Disorder in Taiwan: A Randomized, Double-Blind, Placebo-Controlled Trial.
Nutrients (Nutrients) Vol: 11 Issue: 4 Pages: Pub: 2019 Apr 11 ePub: 2019 Apr 11 *Authors* Liu YW,Liong MT,Chung YE,Huang HY,Peng WS,Cheng YF,Lin YS,Wu YY,Tsai YC

44 Probiotic and Oxytocin Combination Therapy in Patients with Autism Spectrum Disorder: A Randomized, Double-Blinded, Placebo-Controlled Pilot Trial.
Nutrients (Nutrients) Vol: 13 Issue: 5 Pages: Pub: 2021 May 5 ePub: 2021 May 5 *Authors* Kong XJ,Liu J,Liu K,Koh M,Sherman H,Liu S,Tian R,Sukijthamapan P,Wang J,Fong M,Xu L,Clairmont C,Jeong MS,Li A,Lopes M,Hagan V,Dutton T,Chan SP,Lee H,Kendall A,Kwong K,Song Y

45 Reduction in Obsessive Compulsive Disorder and Self-Injurious Behavior With Saccharomyces boulardii in a Child with Autism: A Case Report.
Integrative medicine (Encinitas, Calif.) (Integr Med (Encinitas)) Vol: 17 Issue: 6 Pages: 38-41 Pub: 2018 Dec ePub: *Authors* Kobliner V,Mumper E,Baker SM

46 *Lactobacillus plantarum* PS128 and Other Probiotics in Children and Adolescents with Autism Spectrum Disorder: A Real-World Experience.
Nutrients (Nutrients) Vol: 13 Issue: 6 Pages: Pub: 2021 Jun 14 ePub: 2021 Jun 14 *Authors* Mensi MM,Rogantini C,Marchesi M,Borgatti R,Chiappedi M

47 Selective Probiotic Treatment Positively Modulates the Microbiota-Gut-Brain Axis in the BTBR Mouse Model of Autism.
Brain sciences (Brain Sci) Vol: 12 Issue: 6 Pages: Pub: 2022 Jun 14 ePub: 2022 Jun 14 *Authors* Pochakom A,Mu C,Rho JM,Tompkins TA,Mayengbam S,Shearer J

48 A systematic review of enteric dysbiosis in chronic fatigue syndrome/myalgic encephalomyelitis.
Systematic reviews (Syst Rev) Vol: 7 Issue: 1 Pages: 241 Pub: 2018 Dec 20 ePub: 2018 Dec 20 *Authors* Du Preez S,Corbitt M,Cabanas H,Eaton N,Staines D,Marshall-Gradisnik S

49 Gut to brain interaction in Autism Spectrum Disorders: a randomized controlled trial on the role of probiotics on clinical, biochemical and neurophysiological parameters.
BMC psychiatry (BMC Psychiatry) Vol: 16 Issue: Pages: 183 Pub: 2016 Jun 4 ePub: 2016 Jun 4 *Authors* Santocchi E,Guiducci L,Fulceri F,Billeci L,Buzzigoli E,Apicella F,Calderoni S,Grossi E,Morales MA,Muratori F

50 Independent and Combined Effects of Probiotics and Prebiotics as Supplements or Food-Rich Diets on a Propionic-Acid-Induced Rodent Model of Autism Spectrum Disorder.
Metabolites (Metabolites) Vol: 13 Issue: 1 Pages: Pub: 2022 Dec 29 ePub: 2022 Dec 29 *Authors* Alsubaiei SRM,Alfawaz HA,Almubarak AY,Alabdali NA,Ben Bacha A,El-Ansary A

51 Multistrain probiotic rescinds quinpirole-induced obsessive-compulsive disorder phenotypes by reshaping of microbiota gut-brain axis in rats.
Pharmacology, biochemistry, and behavior (Pharmacol Biochem Behav) Vol: 232 Issue: Pages: 173652 Pub: 2023 Oct 5 ePub: 2023 Oct 5 *Authors* Ghuge S,Rahman Z,Bhale NA,Dikundwar AG,Dandekar MP

52 Dietary Supplement for Core Symptoms of Autism Spectrum Disorder: Where Are We Now and Where Should We Go?
Frontiers in psychiatry (Front Psychiatry) Vol: 8 Issue: Pages: 155 Pub: 2017 ePub: 2017 Aug 23 *Authors* Li YJ,Ou JJ,Li YM,Xiang DX

Effect of camel milk on thymus and activation-regulated chemokine in autistic children: double-blind study.

53 *Pediatric research (Pediatr Res)* Vol: 75 Issue: 4 Pages: 559-63 Pub: 2014 Apr ePub: 2013 Dec 27 *Authors* Bashir S,Al-Ayadhi LY

Camel Milk as a Potential Therapy as an Antioxidant in Autism Spectrum Disorder (ASD).

54 *Evidence-based complementary and alternative medicine : eCAM (Evid Based Complement Alternat Med)* Vol: 2013 Issue: Pages: 602834 Pub: 2013 ePub: 2013 Aug 29 *Authors* Al-Ayadhi LY,Elamin NE

Blocking and Binding Folate Receptor Alpha Autoantibodies Identify Novel Autism Spectrum Disorder Subgroups.

55 *Frontiers in neuroscience (Front Neurosci)* Vol: 10 Issue: Pages: 80 Pub: 2016 ePub: 2016 Mar 9 *Authors* Frye RE,Delhey L,Slattery J,Tippett M,Wynne R,Rose S,Kahler SG,Bennuri SC,Melnyk S,Sequeira JM,Quadros E

Folinic acid improves verbal communication in children with autism and language impairment: a randomized double-blind placebo-controlled trial.

56 *Molecular psychiatry (Mol Psychiatry)* Vol: 23 Issue: 2 Pages: 247-256 Pub: 2018 Feb ePub: 2016 Oct 18 *Authors* Frye RE,Slattery J,Delhey L,Furgerson B,Strickland T,Tippett M,Sailey A,Wynne R,Rose S,Melnyk S,Jill James S,Sequeira JM,Quadros EV

Effects of large doses of arachidonic acid added to docosahexaenoic acid on social impairment in individuals with autism spectrum disorders: a double-blind, placebo-controlled, randomized trial.

57 *Journal of clinical psychopharmacology (J Clin Psychopharmacol)* Vol: 32 Issue: 2 Pages: 200-6 Pub: 2012 Apr ePub: *Authors* Yui K,Koshiba M,Nakamura S,Kobayashi Y

Internet-based, randomized, controlled trial of omega-3 fatty acids for hyperactivity in autism.

58 *Journal of the American Academy of Child and Adolescent Psychiatry (J Am Acad Child Adolesc Psychiatry)* Vol: 53 Issue: 6 Pages: 658-66 Pub: 2014 Jun ePub: 2014 Mar 12 *Authors* Bent S,Hendren RL,Zandi T,Law K,Choi JE,Widjaja F,Kalb L,Nestle J,Law P

Retraction: Randomized controlled trial of vitamin D supplementation in children with autism spectrum disorder.

59 *Journal of child psychology and psychiatry, and allied disciplines (J Child Psychol Psychiatry)* Vol: 60 Issue: 6 Pages: 711 Pub: 2019 Jun ePub: 2019 May 6 *Authors* Saad K,Abdel-Rahman A,Elserogy Y,Al-Atram A,El-Houfey A,Othman H,Bjørklund G,Jia F,Urbina M,Abo-Elela M,Ahmad F,Abd El-Baseer A,Ahmed A,Abdel-Salam A

Vitamin D status in autism spectrum disorders and the efficacy of vitamin D supplementation in autistic children.

60 *Nutritional neuroscience (Nutr Neurosci)* Vol: 19 Issue: 8 Pages: 346-351 Pub: 2016 Oct ePub: 2015 Apr 15 *Authors* Saad K,Abdel-Rahman AA,Elserogy YM,Al-Atram AA,Cannell JJ,Bjørklund G,Abdel-Reheim MK,Othman HA,El-Houfey AA,Abd El-Aziz NH,Abd El-Baseer KA,Ahmed AE,Ali AM

Pilot study of the effect of methyl B12 treatment on behavioral and biomarker measures in children with autism.

61 *Journal of alternative and complementary medicine (New York, N.Y.) (J Altern Complement Med)* Vol: 16 Issue: 5 Pages: 555-60 Pub: 2010 May ePub: *Authors* Bertoglio K,Jill James S,Deprey L,Brule N,Hendren RL

Randomized, Placebo-Controlled Trial of Methyl B12 for Children with Autism.

62 *Journal of child and adolescent psychopharmacology (J Child Adolesc Psychopharmacol)* Vol: 26 Issue: 9 Pages: 774-783 Pub: 2016 Nov ePub: 2016 Feb 18 *Authors* Hendren RL,James SJ,Widjaja F,Lawton B,Rosenblatt A,Bent S

Sulforaphane treatment for autism spectrum disorder: A systematic review.

63 *EXCLI journal (EXCLI J)* Vol: 19 Issue: Pages: 892-903 Pub: 2020 ePub: 2020 Jun 26 *Authors* McGuinness G,Kim Y

Dietary Intake of Sulforaphane-Rich Broccoli Sprout Extracts during Juvenile and Adolescence Can Prevent Phencyclidine-Induced Cognitive Deficits at Adulthood.

64 *PloS one (PLoS One)* Vol: 10 Issue: 6 Pages: e0127244 Pub: 2015 ePub: 2015 Jun 24 *Authors* Shirai Y,Fujita Y,Hashimoto R,Ohi K,Yamamori H,Yasuda Y,Ishima T,Suganuma H,Ushida Y,Takeda M,Hashimoto K

Sulforaphane treatment of autism spectrum disorder (ASD).

65 *Proceedings of the National Academy of Sciences of the United States of America (Proc Natl Acad Sci U S A)* Vol: 111 Issue: 43 Pages: 15550-5 Pub: 2014 Oct 28 ePub: 2014 Oct 13 *Authors* Singh K,Connors SL,Macklin EA,Smith KD,Fahey JW,Talalay P,Zimmerman AW

Sulforaphane treatment of autism spectrum disorder (ASD).

66 *Proceedings of the National Academy of Sciences of the United States of America (Proc Natl Acad Sci U S A)* Vol: 111 Issue: 43 Pages: 15550-5 Pub: 2014 Oct 28 ePub: 2014 Oct 13 *Authors* Singh K,Connors SL,Macklin EA,Smith KD,Fahey JW,Talalay P,Zimmerman AW

Sulforaphane as an adjunctive treatment for irritability in children with autism spectrum disorder: A randomized, double-blind, placebo-controlled clinical trial.

67 *Psychiatry and clinical neurosciences (Psychiatry Clin Neurosci)* Vol: 74 Issue: 7 Pages: 398-405 Pub: 2020 Jul ePub: 2020 May 26 *Authors* Momtazmanesh S,Amirimoghaddam-Yazdi Z,Moghaddam HS,Mohammadi MR,Akhondzadeh S

Resveratrol as adjunctive therapy in treatment of irritability in children with autism: A double-blind and placebo-controlled randomized trial.

68 *Journal of clinical pharmacy and therapeutics (J Clin Pharm Ther)* Vol: 45 Issue: 2 Pages: 324-334 Pub: 2020 Apr ePub: 2019 Nov 12 *Authors* Hendouei F,Sanjari Moghaddam H,Mohammadi MR,Taslimi N,Rezaei F,Akhondzadeh S

Aripiprazole for the treatment of irritability associated with autism.

69 *Expert opinion on pharmacotherapy (Expert Opin Pharmacother)* Vol: 12 Issue: 4 Pages: 635-40 Pub: 2011 Mar ePub: 2011 Feb 6 *Authors* Farmer CA,Aman MG

Coenzyme Q(10) supplementation reduces oxidative stress and decreases antioxidant enzyme activity in children with autism spectrum disorders.

70 *Psychiatry research (Psychiatry Res)* Vol: 265 Issue: Pages: 62-69 Pub: 2018 Jul ePub: 2018 Apr 4 *Authors* Mousavinejad E,Ghaffari MA,Riahi F,Hajmohammadi M,Tiznobeyk Z,Mousavinejad M

N-acetylcysteine as an adjunctive therapy to risperidone for treatment of irritability in autism: a randomized, double-blind, placebo-controlled clinical trial of efficacy and safety.

71 *Clinical neuropharmacology (Clin Neuropharmacol)* Vol: 38 Issue: 1 Pages: 11-7 Pub: 2015 Jan-Feb ePub: *Authors* Nikoo M,Radnia H,Farokhnia M,Mohammadi MR,Akhondzadeh S

Enhancing social behavior in an autism spectrum disorder mouse model: investigating the underlying mechanisms of Lactiplantibacillus plantarum intervention.

72 *Gut microbes (Gut Microbes)* Vol: 16 Issue: 1 Pages: 2359501 Pub: 2024 Jan-Dec ePub: 2024 Jun 6 *Authors* Chen CM,Wu CC,Kim Y,Hsu WY,Tsai YC,Chiu SL

Lactiplantibacillus plantarum N-1 improves autism-like behavior and gut microbiota in mouse.

73 *Frontiers in microbiology (Front Microbiol)* Vol: 14 Issue: Pages: 1134517 Pub: 2023 ePub: 2023 Mar 16 *Authors* Qiu Z,Luo D,Yin H,Chen Y,Zhou Z,Zhang J,Zhang L,Xia J,Xie J,Sun Q,Xu W

Lactiplantibacillus plantarum ST-III-fermented milk improves autistic-like behaviors in valproic acid-induced autism spectrum disorder mice by altering gut microbiota.

74 *Frontiers in nutrition (Front Nutr)* Vol: 9 Issue: Pages: 1005308 Pub: 2022 ePub: 2022 Nov 24 *Authors* Zhang Y,Guo M,Zhang H,Wang Y,Li R,Liu Z,Zheng H,You C

Probiotics and fructo-oligosaccharide intervention modulate the microbiota-gut brain axis to improve autism spectrum reducing also the hyper-serotonergic state and the dopamine metabolism disorder.
75 *Pharmacological research (Pharmacol Res)* Vol: 157 Issue: Pages: 104784 Pub: 2020 Jul ePub: 2020 Apr 17 *Authors* Wang Y,Li N,Yang JJ,Zhao DM,Chen B,Zhang GQ,Chen S,Cao RF,Yu H,Zhao CY,Zhao L,Ge YS,Liu Y,Zhang LH,Hu W,Zhang L,Gai ZT

Pilot study of probiotic/colostrum supplementation on gut function in children with autism and gastrointestinal symptoms.
76 *PloS one (PLoS One)* Vol: 14 Issue: 1 Pages: e0210064 Pub: 2019 ePub: 2019 Jan 9 *Authors* Sanctuary MR,Kain JN,Chen SY,Kalanetra K,Lemay DG,Rose DR,Yang HT,Tancredi DJ,German JB,Slupsky CM,Ashwood P,Mills DA,Smilowitz JT,Angkustsiri K

Bifidobacterium animalis subsp. lactis Probio-M8 alleviates abnormal behavior and regulates gut microbiota in a mouse model suffering from autism.
77 *mSystems (mSystems)* Vol: 9 Issue: 1 Pages: e0101323 Pub: 2024 Jan 23 ePub: 2023 Dec 18 *Authors* Miao Z,Chen L,Zhang Y,Zhang J,Zhang H

A synbiotic formulation of Lactobacillus reuteri and inulin alleviates ASD-like behaviors in a mouse model: the mediating role of the gut-brain axis.
78 *Food & function (Food Funct)* Vol: 15 Issue: 1 Pages: 387-400 Pub: 2024 Jan 2 ePub: 2024 Jan 2 *Authors* Wang C,Chen W,Jiang Y,Xiao X,Zou Q,Liang J,Zhao Y,Wang Q,Yuan T,Guo R,Liu X,Liu Z

Oral Minocycline Therapy Improves Symptoms of Myalgic Encephalomyelitis, Especially in the Initial Disease Stage.
79 *Internal medicine (Tokyo, Japan) (Intern Med)* Vol: 60 Issue: 16 Pages: 2577-2584 Pub: 2021 Aug 15 ePub: 2021 Apr 26 *Authors* Miwa K

Could Minocycline Be a "Magic Bullet" for the Treatment of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome?
80 *Internal medicine (Tokyo, Japan) (Intern Med)* Vol: 60 Issue: 16 Pages: 2527-2528 Pub: 2021 Aug 15 ePub: 2021 Apr 5 *Authors* Numata T

Long-term effect of cognitive behavioural therapy and doxycycline treatment for patients with Q fever fatigue syndrome: One-year follow-up of the Qure study.
81 *Journal of psychosomatic research (J Psychosom Res)* Vol: 116 Issue: Pages: 62-67 Pub: 2019 Jan ePub: 2018 Nov 12 *Authors* Raijmakers RPH,Keijmel SP,Breukers EMC,Bleijenberg G,van der Meer JWM,Bleeker-Rovers CP,Knoop H

Open-label pilot for treatment targeting gut dysbiosis in myalgic encephalomyelitis/chronic fatigue syndrome: neuropsychological symptoms and sex comparisons.
82 *Journal of translational medicine (J Transl Med)* Vol: 16 Issue: 1 Pages: 24 Pub: 2018 Feb 6 ePub: 2018 Feb 6 *Authors* Wallis A,Ball M,Butt H,Lewis DP,McKechnie S,Paull P,Jaa-Kwee A,Bruck D

Yeast Beta-Glucan Supplementation with Multivitamins Attenuates Cognitive Impairments in Individuals with Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: A Randomized, Double-Blind, Placebo-Controlled Trial.
83 *Nutrients (Nutrients)* Vol: 15 Issue: 21 Pages: Pub: 2023 Oct 24 ePub: 2023 Oct 24 *Authors* Lacasa M,Alegre-Martin J,Sentañes RS,Varela-Sende L,Jurek J,Castro-Marrero J

Azithromycin in chronic fatigue syndrome (CFS), an analysis of clinical data.
84 *Journal of translational medicine (J Transl Med)* Vol: 4 Issue: Pages: 34 Pub: 2006 Aug 15 ePub: 2006 Aug 15 *Authors* Vermeulen RC,Scholte HR

Chronic fatigue syndrome post-COVID-19: triple-blind randomised clinical trial of Astragalus root extract.
85 *BMJ supportive & palliative care (BMJ Support Palliat Care)* Vol: Issue: Pages: Pub: 2024 Jun 4 ePub: 2024 Jun 4 *Authors* Banihashemi ZS,Azizi-Fini I,Rajabi M,Maghami M,Yadollahi S

86 [Post-COVID syndrome with fatigue and exercise intolerance: myalgic encephalomyelitis/chronic fatigue syndrome].
Innere Medizin (Heidelberg, Germany) (Inn Med (Heidelb)) Vol: 63 Issue: 8 Pages: 830-839 Pub: 2022 Aug ePub: 2022 Jul 13 *Authors* Renz-Polster H,Scheibenbogen C

87 Neurovascular Dysregulation and Acute Exercise Intolerance in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: A Randomized, Placebo-Controlled Trial of Pyridostigmine.
Chest (Chest) Vol: 162 Issue: 5 Pages: 1116-1126 Pub: 2022 Nov ePub: 2022 May 6 *Authors* Joseph P,Pari R,Miller S,Warren A,Stovall MC,Squires J,Chang CJ,Xiao W,Waxman AB,Systrom DM

88 Advancing Research and Treatment: An Overview of Clinical Trials in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) and Future Perspectives.
Journal of clinical medicine (J Clin Med) Vol: 13 Issue: 2 Pages: Pub: 2024 Jan 6 ePub: 2024 Jan 6 *Authors* Seton KA,Espejo-Oltra JA,Giménez-Orenga K,Haagmans R,Ramadan DJ,Mehlsen J,European ME Research Group for Early Career Researchers (Young EMERG)

89 Review of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: an evidence-based approach to diagnosis and management by clinicians.
Reviews on environmental health (Rev Environ Health) Vol: 30 Issue: 4 Pages: 223-49 Pub: 2015 ePub: *Authors* Bested AC,Marshall LM

90 Diagnosis and Management of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome.
Mayo Clinic proceedings (Mayo Clin Proc) Vol: 98 Issue: 10 Pages: 1544-1551 Pub: 2023 Oct ePub: *Authors* Grach SL,Seltzer J,Chon TY,Ganesh R

91 Low-dose naltrexone for post-COVID fatigue syndrome: a study protocol for a double-blind, randomised trial in British Columbia.
BMJ open (BMJ Open) Vol: 14 Issue: 5 Pages: e085272 Pub: 2024 May 13 ePub: 2024 May 13 *Authors* Naik H,Cooke E,Boulter T,Dyer R,Bone JN,Tsai M,Cristobal J,McKay RJ,Song X,Nacul L

92 Effects of Hyperbaric Oxygen Therapy on Long COVID: A Systematic Review.
Life (Basel, Switzerland) (Life (Basel)) Vol: 14 Issue: 4 Pages: Pub: 2024 Mar 26 ePub: 2024 Mar 26 *Authors* Wu BQ,Liu DY,Shen TC,Lai YR,Yu TL,Hsu HL,Lee HM,Liao WC,Hsia TC

93 Reversible widespread brain (18)F-FDG PET hypometabolism in chronic fatigue syndrome treated by hyperbaric oxygen therapy.
European journal of nuclear medicine and molecular imaging (Eur J Nucl Med Mol Imaging) Vol: 48 Issue: 5 Pages: 1680-1681 Pub: 2021 May ePub: 2021 Jan 9 *Authors* Mairal E,Barberon B,Laine N,Coulange M,Guedj E

94 [Fibromyalgia and myalgic encephalomyelitis: The oxygen clue].
Vertex (Buenos Aires, Argentina) (Vertex) Vol: XXVII Issue: 128 Pages: 252-255 Pub: 2016 Jul ePub: *Authors* Beretta P

95 The efficacy of hyperbaric oxygen therapy in the management of chronic fatigue syndrome.
Undersea & hyperbaric medicine : journal of the Undersea and Hyperbaric Medical Society, Inc (Undersea Hyperb Med) Vol: 40 Issue: 2 Pages: 197-200 Pub: 2013 Mar-Apr ePub: *Authors* Akarsu S,Tekin L,Ay H,Carli AB,Tok F,Simsek K,Kiralp MZ

96 Effects of Waon therapy on chronic fatigue syndrome: a pilot study.
Internal medicine (Tokyo, Japan) (Intern Med) Vol: 54 Issue: 3 Pages: 333-8 Pub: 2015 ePub: *Authors* Soejima Y,Munemoto T,Masuda A,Uwatoko Y,Miyata M,Tei C

97 Targeting mitochondrial dysfunction in the treatment of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) - a clinical audit.
International journal of clinical and experimental medicine (Int J Clin Exp Med) Vol: 6 Issue: 1 Pages: 1-15 Pub: 2013 ePub: 2012 Nov 20 *Authors* Myhill S,Booth NE,McLaren-Howard J

98 [A new treatment: thermal therapy for chronic fatigue syndrome].
Nihon rinsho. Japanese journal of clinical medicine (Nihon Rinsho) Vol: 65 Issue: 6 Pages: 1093-8 Pub: 2007 Jun ePub: *Authors* Masuda A,Munemoto T,Tei C

99 The effects of repeated thermal therapy for two patients with chronic fatigue syndrome.
Journal of psychosomatic research (J Psychosom Res) Vol: 58 Issue: 4 Pages: 383-7 Pub: 2005 Apr ePub: *Authors* Masuda A,Kihara T,Fukudome T,Shinsato T,Minagoe S,Tei C

100 Clinical activity of folinic acid in patients with chronic fatigue syndrome.
Arzneimittel-Forschung (Arzneimittelforschung) Vol: 56 Issue: 6 Pages: 399-404 Pub: 2006 ePub: *Authors* Lundell K,Qazi S,Eddy L,Uckun FM

101 Does Coenzyme Q10 Plus Selenium Supplementation Ameliorate Clinical Outcomes by Modulating Oxidative Stress and Inflammation in Individuals with Myalgic Encephalomyelitis/Chronic Fatigue Syndrome?
Antioxidants & redox signaling (Antioxid Redox Signal) Vol: 36 Issue: 10-12 Pages: 729-739 Pub: 2022 Apr ePub: *Authors* Castro-Marrero J,Domingo JC,Cordobilla B,Ferrer R,Giralt M,Sanmartín-Sentañes R,Alegre-Martín J

102 Therapeutic Effect and Metabolic Mechanism of A Selenium-Polysaccharide from Ziyang Green Tea on Chronic Fatigue Syndrome.
Polymers (Polymers (Basel)) Vol: 10 Issue: 11 Pages: Pub: 2018 Nov 15 ePub: 2018 Nov 15 *Authors* Shao C,Song J,Zhao S,Jiang H,Wang B,Chi A

103 Coenzyme Q10 + alpha lipoic acid for chronic COVID syndrome.
Clinical and experimental medicine (Clin Exp Med) Vol: 23 Issue: 3 Pages: 667-678 Pub: 2023 Jul ePub: 2022 Aug 22 *Authors* Barletta MA,Marino G,Spagnolo B,Bianchi FP,Falappone PCF,Spagnolo L,Gatti P

104 News and views in myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS): The role of co-morbidity and novel treatments.
Medical hypotheses (Med Hypotheses) Vol: 134 Issue: Pages: 109444 Pub: 2020 Jan ePub: 2019 Oct 22 *Authors* Comhaire F,Deslypere JP

105 Effects of Qiye Shen`an Pian Combined with Glutamate and Vitamin B1 on Fatigue State, Immune Function and Quality of Life in Patients with Chronic Fatigue Syndrome.
Alternative therapies in health and medicine (Altern Ther Health Med) Vol: Issue: Pages: Pub: 2024 May 3 ePub: 2024 May 3 *Authors* Liu J,Liao J,Lin F,Nie C

106 B-vitamins, related vitamers, and metabolites in patients with quiescent inflammatory bowel disease and chronic fatigue treated with high dose oral thiamine.
Molecular medicine (Cambridge, Mass.) (Mol Med) Vol: 29 Issue: 1 Pages: 143 Pub: 2023 Oct 25 ePub: 2023 Oct 25 *Authors* Bager P,Hvas CL,Hansen MM,Ueland P,Dahlerup JF

107 Randomised clinical trial: high-dose oral thiamine versus placebo for chronic fatigue in patients with quiescent inflammatory bowel disease.
Alimentary pharmacology & therapeutics (Aliment Pharmacol Ther) Vol: 53 Issue: 1 Pages: 79-86 Pub: 2021 Jan ePub: 2020 Nov 18 *Authors* Bager P,Hvas CL,Rud CL,Dahlerup JF

109 Complementary and alternative medicine for patients with chronic fatigue syndrome: a systematic review.
BMC complementary and alternative medicine (BMC Complement Altern Med) Vol: 11 Issue: Pages: 87 Pub: 2011 Oct 7 ePub: 2011 Oct 7 *Authors* Alraek T,Lee MS,Choi TY,Cao H,Liu J

110 [A case of chronic fatigue syndrome who showed a beneficial effect by intravenous administration of magnesium sulphate].
Arerugi = [Allergy] (Arerugi) Vol: 41 Issue: 11 Pages: 1605-10 Pub: 1992 Nov ePub: *Authors* Takahashi H,Imai K,Katanuma A,Sugaya T,Hisano K,Motoya S,Aoki S,Sugiyama T,Yachi A

111 Intravenous magnesium loading in chronic fatigue syndrome.
Lancet (London, England) (Lancet) Vol: 340 Issue: 8811 Pages: 124-5 Pub: 1992 Jul 11 ePub: *Authors* Clague JE,Edwards RH,Jackson MJ

112 Prospective observational study of treatments for unexplained chronic fatigue.
The Journal of clinical psychiatry (J Clin Psychiatry) Vol: 66 Issue: 5 Pages: 625-32 Pub: 2005 May ePub: *Authors* Bentler SE,Hartz AJ,Kuhn EM

113 [Therapy of chronic fatigue syndrome].
Nihon rinsho. Japanese journal of clinical medicine (Nihon Rinsho) Vol: 50 Issue: 11 Pages: 2679-83 Pub: 1992 Nov ePub: *Authors* Uchida A

114 Psychotropic treatment of chronic fatigue syndrome and related disorders.
The Journal of clinical psychiatry (J Clin Psychiatry) Vol: 54 Issue: 1 Pages: 13-20 Pub: 1993 Jan ePub: *Authors* Goodnick PJ,Sandoval R

115 Chronic fatigue syndrome and liquorice.
The New Zealand medical journal (N Z Med J) Vol: 108 Issue: 998 Pages: 156-7 Pub: 1995 Apr 26 ePub: *Authors* Baschetti R

116 Chronic fatigue syndrome and liquorice.
The New Zealand medical journal (N Z Med J) Vol: 108 Issue: 1001 Pages: 234-5 Pub: 1995 Jun 14 ePub: *Authors* Welch JC

117 Liquorice and chronic fatigue syndrome.
The New Zealand medical journal (N Z Med J) Vol: 108 Issue: 1002 Pages: 259 Pub: 1995 Jun 28 ePub: *Authors* Baschetti R

118 High cocoa polyphenol rich chocolate may reduce the burden of the symptoms in chronic fatigue syndrome.
Nutrition journal (Nutr J) Vol: 9 Issue: Pages: 55 Pub: 2010 Nov 22 ePub: 2010 Nov 22 *Authors* Sathyapalan T,Beckett S,Rigby AS,Mellor DD,Atkin SL

119 Effect of Dietary Coenzyme Q10 Plus NADH Supplementation on Fatigue Perception and Health-Related Quality of Life in Individuals with Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: A Prospective, Randomized, Double-Blind, Placebo-Controlled Trial.
Nutrients (Nutrients) Vol: 13 Issue: 8 Pages: Pub: 2021 Jul 30 ePub: 2021 Jul 30 *Authors* Castro-Marrero J,Segundo MJ,Lacasa M,Martinez-Martinez A,Sentañes RS,Alegre-Martin J

120 Supplements for Chronic Fatigue Syndrome?
P & T : a peer-reviewed journal for formulary management (P T) Vol: 41 Issue: 9 Pages: 587-8 Pub: 2016 Sep ePub: *Authors*

121 Synbiotic Supplementation Improves Quality of Life and Inmunoneuroendocrine Response in Patients with Fibromyalgia: Influence of Codiagnosis with Chronic Fatigue Syndrome.
Nutrients (Nutrients) Vol: 15 Issue: 7 Pages: Pub: 2023 Mar 25 ePub: 2023 Mar 25 *Authors* Hinchado MD,Quero-Calero CD,Otero E,Gálvez I,Ortega E

122 Effect of Melatonin Plus Zinc Supplementation on Fatigue Perception in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome: A Randomized, Double-Blind, Placebo-Controlled Trial.
Antioxidants (Basel, Switzerland) (Antioxidants (Basel)) Vol: 10 Issue: 7 Pages: Pub: 2021 Jun 23 ePub: 2021 Jun 23 *Authors* Castro-Marrero J,Zaragozá MC,López-Vílchez I,Galmés JL,Cordobilla B,Maurel S,Domingo JC,Alegre-Martín J

123 Abnormalities of carnitine metabolism in chronic fatigue syndrome.
European journal of neurology (Eur J Neurol) Vol: 2 Issue: 5 Pages: 425-8 Pub: 1995 Nov ePub: *Authors* Majeed T,de Simone C,Famularo G,Marcellini S,Behan PO

124 Nutritional and herbal supplements in the treatment of obsessive compulsive disorder.
General psychiatry (Gen Psychiatr) Vol: 33 Issue: 2 Pages: e100159 Pub: 2020 ePub: 2020 Mar 11 *Authors* Kuygun Karci C,Gül Celik G

125 Changes of Serum Homocysteine and Vitamin B12, but Not Folate Are Correlated With Obsessive-Compulsive Disorder: A Systematic Review and Meta-Analysis of Case-Control Studies.
Frontiers in psychiatry (Front Psychiatry) Vol: 13 Issue: Pages: 754165 Pub: 2022 ePub: 2022 May 9 *Authors* Yan S,Liu H,Yu Y,Han N,Du W

126 Serum Vitamins and Homocysteine Levels in Obsessive-Compulsive Disorder: A Systematic Review and Meta-Analysis.
Neuropsychobiology (Neuropsychobiology) Vol: 80 Issue: 6 Pages: 502-515 Pub: 2021 ePub: 2021 Mar 19 *Authors* Balandeh E,Karimian M,Behjati M,Mohammadi AH

127 Cobalamin deficiency presenting as obsessive compulsive disorder: case report.
General hospital psychiatry (Gen Hosp Psychiatry) Vol: 34 Issue: 5 Pages: 578.e7-8 Pub: 2012 Sep-Oct ePub: 2012 Jan 9 *Authors* Sharma V,Biswas D

128 Vitamin B12 and folic acid serum levels in obsessive compulsive disorder.
Acta psychiatrica Scandinavica (Acta Psychiatr Scand) Vol: 78 Issue: 1 Pages: 8-10 Pub: 1988 Jul ePub: *Authors* Hermesh H,Weizman A,Shahar A,Munitz H

129 Fluoxetine.
( ) Vol: Issue: Pages: Pub: 2024 Jan ePub: *Authors* Sohel AJ,Shutter MC,Patel P,Molla M

130 Impact of Cytochrome P450 Genetic Variation on Patient-Reported Symptom Improvement and Side Effects Among Children and Adolescents Treated with Fluoxetine.
Journal of child and adolescent psychopharmacology (J Child Adolesc Psychopharmacol) Vol: 34 Issue: 1 Pages: 21-27 Pub: 2024 Feb ePub: *Authors* Bharthi K,Zuberi R,Maruf AA,Shaheen SM,McCloud R,Heintz M,McAusland L,Arnold PD,Bousman CA

131 Reboxetine Combination Therapy With Fluoxetine in Moderate to Severe Obsessive-Compulsive Disorder: A Placebo-Controlled, Double-Blind, Randomized Trial.
Clinical neuropharmacology (Clin Neuropharmacol) Vol: 46 Issue: 5 Pages: 175-180 Pub: 2023 Sep-Oct 01 ePub: 2023 Jul 18 *Authors* Tilaki EH,Hasanzadeh A,Shalbafan M,Moghaddam HS,Shamabadi A,Boroon M,Akhondzadeh S

132 L-theanine combination therapy with fluvoxamine in moderate-to-severe obsessive-compulsive disorder: A placebo-controlled, double-blind, randomized trial.
Psychiatry and clinical neurosciences (Psychiatry Clin Neurosci) Vol: 77 Issue: 9 Pages: 478-485 Pub: 2023 Sep ePub: 2023 May 27 *Authors* Nematizadeh M,Ghorbanzadeh H,Moghaddam HS,Shalbafan M,Boroon M,Keshavarz-Akhlaghi AA,Akhondzadeh S

133 Remission of treatment-resistant obsessive-compulsive disorder with 600 milligrams of fluvoxamine daily: a case report.
International clinical psychopharmacology (Int Clin Psychopharmacol) Vol: 38 Issue: 4 Pages: 273-274 Pub: 2023 Jul 1 ePub: 2023 Feb 8 *Authors* Kocamer Sahin S,Demir B,Altindag A

134 Protective Effect of Fluvoxamine for COVID-19 in Obsessive-Compulsive Disorder: A Real-World Case-Control Study.
The primary care companion for CNS disorders (Prim Care Companion CNS Disord) Vol: 24 Issue: 5 Pages: Pub: 2022 Oct 6 ePub: 2022 Oct 6 *Authors* Diaz AD,Baweja R

135 Paroxetine.
( ) Vol: Issue: Pages: Pub: 2024 Jan ePub: *Authors* Shrestha P,Fariba KA,Abdijadid S

136 Pharmacokinetics of immediate and sustained-release formulations of paroxetine: Population pharmacokinetic approach to guide paroxetine personalized therapy in chinese psychotic patients.
Frontiers in pharmacology (Front Pharmacol) Vol: 13 Issue: Pages: 966622 Pub: 2022 ePub: 2022 Sep 12 *Authors* Li XL,Huang SQ,Xiao T,Wang XP,Kong W,Liu SJ,Zhang Z,Yang Y,Huang SS,Ni XJ,Lu HY,Zhang M,Wen YG,Shang DW

137 Paroxetine.
( ) Vol: Issue: Pages: Pub: 2012 ePub: *Authors*

138 Differential effects of sertraline and cognitive behavioural therapy on behavioural inhibition in patients with obsessive compulsive disorder.
International clinical psychopharmacology (Int Clin Psychopharmacol) Vol: Issue: Pages: Pub: 2024 Apr 25 ePub: 2024 Apr 25 *Authors* Reid JE,Pellegrini L,Drummond L,Varlakova Y,Shahper S,Baldwin DS,Manson C,Chamberlain SR,Robbins TW,Wellsted D,Fineberg NA

Personality traits as predictors for treatment response to sertraline among unmedicated obsessive-compulsive Disorder: A 12-weeks retrospective longitudinal study.
139 *Journal of psychiatric research (J Psychiatr Res)* Vol: 170 Issue: Pages: 245-252 Pub: 2024 Feb ePub: 2023 Dec 18 *Authors* Zhang J,Zhong H,Zhang Y,Yin J,Song X,Ye K,Song Z,Lai S,Zhong S,Wang Z,Jia Y

Escitalopram.
140 *( )* Vol: Issue: Pages: Pub: 2024 Jan ePub: *Authors* Landy K,Rosani A,Estevez R

Citalopram.
141 *( )* Vol: Issue: Pages: Pub: 2024 Jan ePub: *Authors* Sharbaf Shoar N,Fariba KA,Padhy RK

Efficacy and tolerability of pharmacotherapy for obsessive-compulsive personality disorder: a systematic review of randomized controlled trials.
142 *Expert opinion on pharmacotherapy (Expert Opin Pharmacother)* Vol: 23 Issue: 11 Pages: 1351-1358 Pub: 2022 Aug ePub: 2022 Jul 15 *Authors* Gecaite-Stonciene J,Williams T,Lochner C,Hoffman J,Stein DJ

Impact of brain-derived neurotrophic factor Val66Met polymorphism and response to escitalopram or paroxetine in obsessive-compulsive disorder.
143 *CNS spectrums (CNS Spectr)* Vol: 27 Issue: 5 Pages: 645-651 Pub: 2022 Oct ePub: 2021 Jul 27 *Authors* Harika-Germaneau G,Langbour N,Patri S,Solinas M,Chatard A,Millet B,Hashemian F,Pérault-Pochat MC,Jaafari N,Lafay-Chebassier C

Clomipramine.
144 *( )* Vol: Issue: Pages: Pub: 2024 Jan ePub: *Authors* Wilson M,Tripp J

World Federation of Societies of Biological Psychiatry (WFSBP) guidelines for treatment of anxiety, obsessive-compulsive and posttraumatic stress disorders - Version 3. Part II: OCD and PTSD.
145 *The world journal of biological psychiatry : the official journal of the World Federation of Societies of Biological Psychiatry (World J Biol Psychiatry)* Vol: 24 Issue: 2 Pages: 118-134 Pub: 2023 Feb ePub: 2022 Jul 28 *Authors* Bandelow B,Allgulander C,Baldwin DS,Costa DLDC,Denys D,Dilbaz N,Domschke K,Hollander E,Kasper S,Möller HJ,Eriksson E,Fineberg NA,Hättenschwiler J,Kaiya H,Karavaeva T,Katzman MA,Kim YK,Inoue T,Lim L,Masdrakis V,Menchón JM,Miguel EC,Nardi AE,Pallanti S,Perna G,Rujescu D,Starcevic V,Stein DJ,Tsai SJ,Van Ameringen M,Vasileva A,Wang Z,Zohar J

Assessment of Bioautography and Spot Screening of TLC of Green Tea (Camellia) Plant Extracts as Antibacterial and Antioxidant Agents
147 *Indian Journal of Pharmaceutical Sciences (Indian J Pharm Sci)* Vol: 76 Issue: 4 Pages: 364-370 Pub: 2014 Jul-Aug ePub: *Authors* Bashir S,Khan BM,Babar M,Andleeb S,Hafeez M,Ali S,Khan MF

GUT MICROBIOTA DYSBIOSIS IS LINKED TO HYPERTENSION
148 *Hypertension (Hypertension)* Vol: 65 Issue: 6 Pages: 1331-1340 Pub: 2015 Apr 13 ePub: 2015 Apr 13 *Authors* Yang T,Santisteban MM,Rodriguez V,Li E,Ahmari N,Carvajal JM,Zadeh M,Gong M,Qi Y,Zubcevic J,Sahay B,Pepine CJ,Raizada MK,Mohamadzadeh M

Modulation of the gut microbiota composition by rifaximin in non-constipated irritable bowel syndrome patients: a molecular approach
149 *Clinical and Experimental Gastroenterology (Clin Exp Gastroenterol)* Vol: 8 Issue: Pages: 309-325 Pub: 2015 Dec 4 ePub: 2015 Dec 4 *Authors* Soldi S,Vasileiadis S,Uggeri F,Campanale M,Morelli L,Fogli MV,Calanni F,Grimaldi M,Gasbarrini A

The Influence of Nonsteroidal Anti-Inflammatory Drugs on the Gut Microbiome
150 *Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases (Clin Microbiol Infect)* Vol: 22 Issue: 2 Pages: 178.e1-178.e9 Pub: 2015 Oct 16 ePub: 2015 Oct 16 *Authors* Rogers MA,Aronoff DM

Impact of probiotic supplements on microbiome diversity following antibiotic treatment of mice
151 *Gut Microbes (Gut Microbes)* Vol: 7 Issue: 2 Pages: 101-114 Pub: 2016 Mar 10 ePub: 2016 Mar 10 *Authors* Grazul H,Kanda LL,Gondek D

Impact of diet and individual variation on intestinal microbiota composition and fermentation products in obese men

152 *The ISME Journal (ISME J)* Vol: 8 Issue: 11 Pages: 2218-2230 Pub: 2014 Apr 24 ePub: 2014 Apr 24 *Authors* Salonen A,Lahti L,Salojärvi J,Holtrop G,Korpela K,Duncan SH,Date P,Farquharson F,Johnstone AM,Lobley GE,Louis P,Flint HJ,de Vos WM

Sodium butyrate attenuates high-fat diet-induced steatohepatitis in mice by improving gut microbiota and gastrointestinal barrier

153 *World Journal of Gastroenterology (World J Gastroenterol)* Vol: 23 Issue: 1 Pages: 60-75 Pub: 2017 Jan 7 ePub: 2017 Jan 7 *Authors* Zhou D,Pan Q,Xin FZ,Zhang RN,He CX,Chen GY,Liu C,Chen YW,Fan JG

Antibiotic use in childhood alters the gut microbiota and predisposes to overweight

154 *Microbial Cell (Microb Cell)* Vol: 3 Issue: 7 Pages: 296-298 Pub: 2016 Jun 20 ePub: 2016 Jun 20 *Authors* Korpela K,de Vos WM

Low-dose penicillin in early life induces long-term changes in murine gut microbiota, brain cytokines and behavior

155 *Nature Communications (Nat Commun)* Vol: 8 Issue: Pages: 15062 Pub: 2017 Apr 4 ePub: 2017 Apr 4 *Authors* Leclercq S,Mian FM,Stanisz AM,Bindels LB,Cambier E,Ben-Amram H,Koren O,Forsythe P,Bienenstock J

Energy-dense diet triggers changes in gut microbiota, reorganization of gut-brain vagal communication and increases body fat accumulation

156 *Acta neurobiologiae experimentalis (Acta Neurobiol Exp (Wars))* Vol: 77 Issue: 1 Pages: 18-30 Pub: 2017 ePub: *Authors* Vaughn AC,Cooper EM,DiLorenzo PM,O'Loughlin LJ,Konkel ME,Peters JH,Hajnal A,Sen T,Lee SH,de La Serre CB,Czaja K

Health benefit of vegetable/fruit juice-based diet: Role of microbiome

157 *Scientific Reports (Sci Rep)* Vol: 7 Issue: Pages: 2167 Pub: 2017 May 19 ePub: 2017 May 19 *Authors* Henning SM,Yang J,Shao P,Lee RP,Huang J,Ly A,Hsu M,Lu QY,Thames G,Heber D,Li Z