

Citations and Reference Literature: Zinc

Citations

1. Henderson LM, Brewer GJ, Dressman JB et al. Effect of intragastric pH on the absorption of oral zinc acetate and zinc oxide in young healthy volunteers. *JPEN J Parenter Enteral Nutr* 1995;19:393-397.
2. Nowak G, Legutko B, Szewczyk B et al. Zinc treatment induces cortical brain-derived neurotrophic factor gene expression. *Eur J Pharmacol* 2004;492:57-59.
3. Szewczyk B, Sowa M, Czupryna A et al. Increase in synaptic hippocampal zinc concentration following chronic but not acute zinc treatment in rats. *Brain Res* 2006;1090:69-75.
4. Nowak G, Szewczyk B, Pilc A. Zinc and depression: an update. *Pharmacol Rep* 2005;57:713-718.
5. Krotkiewski M, Gudmundsson M, Backstrom P, Mandroukas K. Zinc and muscle strength and endurance. *Acta Physiol Scand* 1982;116:309-311.
6. Burt WH. Characteristic Materia Medica. 2nd ed. Philadelphia: Boericke and Tafel; 1873.
7. Sandstead HH. Zinc nutrition in the United States. *Am J Clin Nutr* 1973;26:1251-1260.
8. Prasad AS. Zinc deficiency in women, infants and children. *J Am Coll Nutr* 1996;15:113-120.
9. Stang J, Story MT, Harnack L, Neumark-Sztainer D. Relationships between vitamin and mineral supplement use, dietary intake, and dietary adequacy among adolescents. *J Am Diet Assoc* 2000;100:905-910.
10. Ervin RB, Kennedy-Stephenson J. Mineral intakes of elderly adult supplement and non-supplement users in the Third National Health and Nutrition Examination Survey. *J Nutr* 2002;132:3422-3427.
11. Brown K, Wuehler S, Peerson J. The importance of zinc in human nutrition and estimation of the global prevalence of zinc deficiency. *Food Nutr Bull* 2001;22:113-125.
12. Maret W, Sandstead HH. Zinc requirements and the risks and benefits of zinc supplementation. *J Trace Elem Med Biol* 2006;20:3-18.
13. Beach RS, Gershwin ME, Hurley LS. Persistent immunological consequences of gestation zinc deprivation. *Am J Clin Nutr* 1983;38:579-590.
14. Eby GA. Zinc lozenges: cold cure or candy? Solution chemistry determinations. *Biosci Rep* 2004;24:23-39.
15. Gupta VL, Chaubey BS. Efficacy of zinc therapy in prevention of crisis in sickle cell anemia: a double blind, randomized controlled clinical trial. *J Assoc Physicians India* 1995;43:467-469.
16. Marchesini G, Fabbri A, Bianchi G et al. Zinc supplementation and amino acid-nitrogen metabolism in patients with advanced cirrhosis. *Hepatology* 1996;23:1084-1092.
17. Werbach MR. Nutritional strategies for treating chronic fatigue syndrome. *Altern Med Rev* 2000;5:93-108.
18. Panel on Dietary Antioxidants and Related Compounds, Food and Nutrition Board, Institute of Medicine. Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, Vanadium, and Zinc. Washington, DC: National Academy Press; 2001:290-293.
19. Sazawal S, Black RE, Menon VP et al. Zinc supplementation in infants born small for gestational age reduces mortality: a prospective, randomized, controlled trial. *Pediatrics* 2001;108:1280-1286.
20. Mahalanabis D, Lahiri M, Paul D et al. Randomized, double-blind, placebo-controlled clinical trial of the efficacy of treatment with zinc or vitamin A in infants and young children with severe acute lower respiratory infection. *Am J Clin Nutr* 2004;79:430-436.
21. Hambidge M. Biomarkers of trace mineral intake and status. *J Nutr* 2003;133 Suppl 3:948S-955S.
22. Murray MT. Encyclopedia of Nutritional Supplements: the Essential Guide for Improving Your Health Naturally. Roseville, Calif: Prima; 1996.
23. Hambidge KM. Hair analyses: worthless for vitamins, limited for minerals. *Am J Clin Nutr* 1982;36:943-949.
24. Thomas EA, Bailey LB, Kauwell GA et al. Erythrocyte metallothionein response to dietary zinc in humans. *J Nutr* 1992;122:2408-2414.
25. Hambidge KM, Hambidge C, Jacobs M, Baum JD. Low levels of zinc in hair, anorexia, poor growth, and hypogeusia in children. *Pediatr Res* 1972;6:868-874.
26. Walravens PA, Krebs NF, Hambidge KM. Linear growth of low income preschool children receiving a zinc supplement. *Am J Clin Nutr* 1983;38:195-201.
27. Smit Vanderkooy PD, Gibson RS. Food consumption patterns of Canadian preschool children in relation to zinc and growth status. *Am J Clin Nutr* 1987;45:609-616.
28. Gibson RS, Vanderkooy PD, MacDonald AC et al. A growth-limiting, mild zinc-deficiency syndrome in some southern Ontario boys with low height percentiles. *Am J Clin Nutr* 1989;49:1266-1273.
29. Ferguson EL, Gibson RS, Opare-Obisaw C et al. The zinc nutriture of preschool children living in two African countries. *J Nutr* 1993;123:1487-1496.

Citations and Reference Literature: Zinc

30. English JL, Hambidge KM. Plasma and serum zinc concentrations: effect of time between collection and separation. *Clin Chim Acta* 1988;175:211-215.
31. Brown KH. Effect of infections on plasma zinc concentration and implications for zinc status assessment in low-income countries. *Am J Clin Nutr* 1998;68:425S-429S.
32. Grider A, Bailey LB, Cousins RJ. Erythrocyte metallothionein as an index of zinc status in humans. *Proc Natl Acad Sci U S A* 1990;87:1259-1262.
33. Prasad AS, Cossack ZT. Neutrophil zinc: an indicator of zinc status in man. *Trans Assoc Am Physicians* 1982;95:165-176.
34. Prasad AS. Laboratory diagnosis of zinc deficiency. *J Am Coll Nutr* 1985;4:591-598.
35. Milne DB, Ralston NV, Wallwork JC. Zinc content of blood cellular components and lymph node and spleen lymphocytes in severely zinc-deficient rats. *J Nutr* 1985;115:1073-1078.
36. Hambidge M, Krebs N. Assessment of zinc status in man. *Indian J Pediatr* 1995;62:169-180.
37. Meadows NJ, Ruse W, Smith MF et al. Zinc and small babies. *Lancet* 1981;2:1135-1137.
38. Meftah S, Prasad AS, Lee DY, Brewer GJ. Ecto 5' nucleotidase (5'NT) as a sensitive indicator of human zinc deficiency. *J Lab Clin Med* 1991;118:309-316.
39. Prasad AS, Fitzgerald JT, Hess JW et al. Zinc deficiency in elderly patients. *Nutrition* 1993;9:218-224.
40. Bales CW, DiSilvestro RA, Currie KL et al. Marginal zinc deficiency in older adults: responsiveness of zinc status indicators. *J Am Coll Nutr* 1994;13:455-462.
41. Beck FW, Kaplan J, Fine N et al. Decreased expression of CD73 (ecto-5'-nucleotidase) in the CD8+ subset is associated with zinc deficiency in human patients. *J Lab Clin Med* 1997;130:147-156.
42. Andree KB, Kim J, Kirschke CP et al. Investigation of lymphocyte gene expression for use as biomarkers for zinc status in humans. *J Nutr* 2004;134:1716-1723.
43. Pangborn J. What is the best way to assess zinc status? *Nutrition and Metabolic Newsletter*. 1 vol. Genova Diagnostics; 1999.
44. Jafek BW, Linschoten MR, Murrow BW. Anosmia after intranasal zinc gluconate use. *Am J Rhinol* 2004;18:137-141.
45. Chandra RK. Excessive intake of zinc impairs immune responses. *JAMA* 1984;252:1443-1446.
46. Patterson WP, Winkelmann M, Perry MC. Zinc-induced copper deficiency: megamineral sideroblastic anemia. *Ann Intern Med* 1985;103:385-386.
47. Reiser S, Powell A, Yang CY, Canary JJ. Effect of copper intake on blood cholesterol and its lipoprotein distribution in men. *Nutr Rep Int* 1987;36:641-649.
48. Sandstead HH. Requirements and toxicity of essential trace elements, illustrated by zinc and copper. *Am J Clin Nutr* 1995;61:621S-624S.
49. Shannon M. Alternative medicines toxicology: a review of selected agents. *J Toxicol Clin Toxicol* 1999;37:709-713.
50. Simon SR, Branda RF, Tindle BF, Burns SL. Copper deficiency and sideroblastic anemia associated with zinc ingestion. *Am J Hematol* 1988;28:181-183.
51. Forman WB, Sheehan D, Cappelli S, Coffman B. Zinc abuse—an unsuspected cause of sideroblastic anemia. *West J Med* 1990;152:190-192.
52. Broun ER, Greist A, Tricot G, Hoffman R. Excessive zinc ingestion: a reversible cause of sideroblastic anemia and bone marrow depression. *JAMA* 1990;264:1441-1443.
53. Ramadurai J, Shapiro C, Kozloff M, Telfer M. Zinc abuse and sideroblastic anemia. *Am J Hematol* 1993;42:227-228.
54. Fiske DN, McCoy HE 3rd, Kitchens CS. Zinc-induced sideroblastic anemia: report of a case, review of the literature, and description of the hematologic syndrome. *Am J Hematol* 1994;46:147-150.
55. Kumar A, Jazieh AR. Case report of sideroblastic anemia caused by ingestion of coins. *Am J Hematol* 2001;66:126-129.
56. Macknin ML, Piedmonte M, Calendine C et al. Zinc gluconate lozenges for treating the common cold in children: a randomized controlled trial. *JAMA* 1998;279:1962-1967.
57. Bose A, Coles CL, Gunavathi et al. Efficacy of zinc in the treatment of severe pneumonia in hospitalized children <2 y old. *Am J Clin Nutr* 2006;83:1089-1096; quiz 1207.
58. Bush AI, Pettingell WH Jr, de Paradis M et al. The amyloid beta-protein precursor and its mammalian homologues: evidence for a zinc-modulated heparin-binding superfamily. *J Biol Chem* 1994;269:26618-26621.
59. Bush AI, Pettingell WH, Multhaup G et al. Rapid induction of Alzheimer A beta amyloid formation by zinc. *Science* 1994;265:1464-1467.
60. Potoenik FC, van Rensburg SJ, Park C et al. Zinc and platelet membrane microviscosity in Alzheimer's disease: the in vivo effect of zinc on platelet membranes and cognition. *S Afr Med J* 1997;87:1116-1119.
61. Prasad AS. Zinc in human health: an update. *J Trace Elem Exp Med* 1998;11:63-87.

Citations and Reference Literature: Zinc

62. World Health Organization. E. C. EHC. Zinc. Geneva: WHO; 2001:360.
63. Leitzmann MF, Stampfer MJ, Wu K et al. Zinc supplement use and risk of prostate cancer. *J Natl Cancer Inst* 2003;95:1004-1007.
64. Zinc for the common cold. *Med Lett Drugs Ther* 1997;39:9-10.
65. Vallee BL, Falchuk KH. The biochemical basis of zinc physiology. *Physiol Rev* 1993;73:79-118.
66. Nowak G. Alterations in zinc homeostasis in depression and antidepressant therapy. *Pol J Pharmacol* 1998;50:1-4.
67. Toren P, Eldar S, Sela BA et al. Zinc deficiency in attention-deficit hyperactivity disorder. *Biol Psychiatry* 1996;40:1308-1310.
68. Kirby K, Floriani V, Bernstein H. Diagnosis and management of attention-deficit/hyperactivity disorder in children. *Curr Opin Pediatr* 2001;13:190-199.
69. Bekaroglu M, Aslan Y, Gedik Y et al. Relationships between serum free fatty acids and zinc, and attention deficit hyperactivity disorder: a research note. *J Child Psychol Psychiatry* 1996;37:225-227.
70. Bilici M, Yildirim F, Kandil S et al. Double-blind, placebo-controlled study of zinc sulfate in the treatment of attention deficit hyperactivity disorder. *Prog Neuropsychopharmacol Biol Psychiatry* 2004;28:181-190.
71. Akhondzadeh S, Mohammadi MR, Khademi M. Zinc sulfate as an adjunct to methylphenidate for the treatment of attention deficit hyperactivity disorder in children: a double blind and randomized trial [ISRCTN64132371]. *BMC Psychiatry* 2004;4:9.
72. Ott ES, Shay NF. Zinc deficiency reduces leptin gene expression and leptin secretion in rat adipocytes. *Exp Biol Med (Maywood)* 2001;226:841-846.
73. Hartoma TR, Nahoul K, Netter A. Zinc, plasma androgens and male sterility. *Lancet* 1977;2:1125-1126.
74. Fang VS, Furuhashi N. Partial alleviation of the antitesticular effect of pipecolinomethylhydroxyindane by zinc in rats. *J Endocrinol* 1978;79:151-152.
75. Netter A, Hartoma R, Nahoul K. Effect of zinc administration on plasma testosterone, dihydrotestosterone, and sperm count. *Arch Androl* 1981;7:69-73.
76. Castro-Magana M, Collipp PJ, Chen SY et al. Zinc nutritional status, androgens, and growth retardation. *Am J Dis Child* 1981;135:322-325.
77. Takihara H, Cosentino MJ, Cockett AT. Effect of low-dose androgen and zinc sulfate on sperm motility and seminal zinc levels in infertile men. *Urology* 1983;22:160-164.
78. Bhutta ZA, Black RE, Brown KH et al. Prevention of diarrhea and pneumonia by zinc supplementation in children in developing countries: pooled analysis of randomized controlled trials. Zinc Investigators' Collaborative Group. *J Pediatr* 1999;135:689-697.
79. Brooks WA, Yunus M, Santosham M et al. Zinc for severe pneumonia in very young children: double-blind placebo-controlled trial. *Lancet* 2004;363:1683-1688.
80. Bhandari N, Bahl R, Taneja S et al. Effect of routine zinc supplementation on pneumonia in children aged 6 months to 3 years: randomised controlled trial in an urban slum. *BMJ* 2002;324:1358.
81. Mahalanabis D, Chowdhury A, Jana S et al. Zinc supplementation as adjunct therapy in children with measles accompanied by pneumonia: a double-blind, randomized controlled trial. *Am J Clin Nutr* 2002;76:604-607.
82. Dreno B, Vandermeeren MA, Rigou V. [Zinc and the skin]. *Ann Dermatol Venereol* 1988;115:741-746.
83. Dreno B, Moyse D, Alirezai M et al. Multicenter randomized comparative double-blind controlled clinical trial of the safety and efficacy of zinc gluconate versus minocycline hydrochloride in the treatment of inflammatory acne vulgaris. *Dermatology* 2001;203:135-140.
84. Dreno B, Amblard P, Agache P et al. Low doses of zinc gluconate for inflammatory acne. *Acta Derm Venereol* 1989;69:541-543.
85. Dreno B, Trossaert M, Boiteau HL, Litoux P. Zinc salts effects on granulocyte zinc concentration and chemotaxis in acne patients. *Acta Derm Venereol* 1992;72:250-252.
86. Habbema L, Koopmans B, Menke HE et al. A 4% erythromycin and zinc combination (Zineryt) versus 2% erythromycin (Eryderm) in acne vulgaris: a randomized, double-blind comparative study. *Br J Dermatol* 1989;121:497-502.
87. Schachner L, Eaglstein W, Kittles C, Mertz P. Topical erythromycin and zinc therapy for acne. *J Am Acad Dermatol* 1990;22:253-260.
88. Dreno B, Foulc P, Reynaud A et al. Effect of zinc gluconate on Propionibacterium acnes resistance to erythromycin in patients with inflammatory acne: in vitro and in vivo study. *Eur J Dermatol* 2005;15:152-155.
89. McLoughlin JJ, Hodge JS. Zinc in depressive disorder. *Acta Psychiatr Scand* 1990;82:451-453.
90. Maes M, D'Haese PC, Schärpe S et al. Hypozincemia in depression. *J Affect Disord* 1994;31:135-140.
91. Siwek MS, Wrobel A, Dudek D et al. [The role of zinc in the pathogenesis and treatment of affective disorders]. *Psychiatr Pol* 2005;39:899-909.
92. Nowak G, Siwek M, Dudek D et al. Effect of zinc supplementation on antidepressant therapy in unipolar depression: a preliminary placebo-controlled study. *Pol J Pharmacol* 2003;55:1143-1147.

Citations and Reference Literature: Zinc

93. Szewczyk B, Kata R, Nowak G. Rise in zinc affinity for the NMDA receptor evoked by chronic imipramine is species-specific. *Pol J Pharmacol* 2001;53:641-645.
94. Nowak G, Schlegel-Zawadzka M. Alterations in serum and brain trace element levels after antidepressant treatment. Part I. Zinc. *Biol Trace Elem Res* 1999;67:85-92.
95. Skolnick P. Antidepressants for the new millennium. *Eur J Pharmacol* 1999;375:31-40.
96. Ossowska G, Klenk-Majewska B, Danilczuk Z et al. Effects of coadministration of antidepressants and zinc in chronic unpredictable stress (CUS) model of depression. In: Lach H, ed. 13th International Symposium Molecular and Physiological Aspects of Regulatory Processes of the Organism. Cracow, Poland; 2004:332-333.
97. Quiroz JA, Singh J, Gould TD et al. Emerging experimental therapeutics for bipolar disorder: clues from the molecular pathophysiology. *Mol Psychiatry* 2004;9:756-776.
98. Maes M, Vandoolaeghe E, Neels H et al. Lower serum zinc in major depression is a sensitive marker of treatment resistance and of the immune/inflammatory response in that illness. *Biol Psychiatry* 1997;42:349-358.
99. Schlegel-Zawadzka M, Zieba A, Dudek D et al. Effect of depression and of antidepressant therapy on serum zinc levels: a preliminary clinical study. *Trace Elements in Man and Animals*. 10 vol. New York: Kluwer Academic, Plenum Press; 2000:607-610.
100. Nowak G, Szewczyk B. Mechanisms contributing to antidepressant zinc actions. *Pol J Pharmacol* 2002;54:587-592.
101. Krocza B, Zieba A, Dudek D et al. Zinc exhibits an antidepressant-like effect in the forced swimming test in mice. *Pol J Pharmacol* 2000;52:403-406.
102. Krocza B, Branski P, Palucha A et al. Antidepressant-like properties of zinc in rodent forced swim test. *Brain Res Bull* 2001;55:297-300.
103. Szewczyk B, Branski P, Wieronska JM et al. Interaction of zinc with antidepressants in the forced swimming test in mice. *Pol J Pharmacol* 2002;54:681-685.
104. Nowak G, Szewczyk B, Sadlik K et al. Reduced potency of zinc to interact with NMDA receptors in hippocampal tissue of suicide victims. *Pol J Pharmacol* 2003;55:455-459.
105. O'Connor DT, Strause L, Saltman P et al. Serum zinc is unaffected by effective captopril treatment of hypertension. *J Clin Hypertens* 1987;3:405-408.
106. Abu-Hamdan DK, Desai H, Sondheimer J et al. Taste acuity and zinc metabolism in captopril-treated hypertensive male patients. *Am J Hypertens* 1988;1:303S-308S.
107. Golik A, Modai D, Averbukh Z et al. Zinc metabolism in patients treated with captopril versus enalapril. *Metabolism* 1990;39:665-667.
108. Golik A, Zaidenstein R, Dishi V et al. Effects of captopril and enalapril on zinc metabolism in hypertensive patients. *J Am Coll Nutr* 1998;17:75-78.
109. Peczkowska M. [Influence of angiotensin I converting enzyme inhibitors on selected parameters of zinc metabolism]. *Pol Arch Med Wewn* 1996;96:32-38.
110. Golik A, Cohen N, Ramot Y et al. Type II diabetes mellitus, congestive heart failure, and zinc metabolism. *Biol Trace Elem Res* 1993;39:171-175.
111. Lee SC, Park SW, Kim DK et al. Iron supplementation inhibits cough associated with ACE inhibitors. *Hypertension* 2001;38:166-170.
112. Waler SM, Rolla G. Plaque inhibiting effect of combinations of chlorhexidine and the metal ions zinc and tin: a preliminary report. *Acta Odontol Scand* 1980;38:213-217.
113. Sanz M, Vallcorba N, Fabregues S et al. The effect of a dentifrice containing chlorhexidine and zinc on plaque, gingivitis, calculus and tooth staining. *J Clin Periodontol* 1994;21:431-437.
114. Polk RE, Healy DP, Sahai J et al. Effect of ferrous sulfate and multivitamins with zinc on absorption of ciprofloxacin in normal volunteers. *Antimicrob Agents Chemother* 1989;33:1841-1844.
115. Polk RE. Drug-drug interactions with ciprofloxacin and other fluoroquinolones. *Am J Med* 1989;87:76S-81S.
116. Kara M, Hasinoff BB, McKay DW, Campbell NR. Clinical and chemical interactions between iron preparations and ciprofloxacin. *Br J Clin Pharmacol* 1991;31:257-261.
117. Campbell NR, Kara M, Hasinoff BB et al. Norfloxacin interaction with antacids and minerals. *Br J Clin Pharmacol* 1992;33:115-116.
118. Brouwers JR. Drug interactions with quinolone antibacterials. *Drug Saf* 1992;7:268-281.
119. Balfour JA, Wiseman LR. Moxifloxacin. *Drugs* 1999;57:363-373; discussion 374.
120. Wong PY, Zhu M, Li RC. Pharmacokinetic and pharmacodynamic interactions between intravenous ciprofloxacin and oral ferrous sulfate. *J Chemother* 2000;12:286-293.

Citations and Reference Literature: Zinc

121. Fischer T. On 8-hydroxyquinoline–zinc oxide incompatibility. *Dermatologica* 1974;149:129-135.
122. Stockley IH. Drug Interactions. 6th ed. London: Pharmaceutical Press; 2002.
123. Albert A, Rees CW. Avidity of the tetracyclines for the cations of metals. *Nature* 1956;177:433-434.
- 123a. Camacho FM, Garcia-Hernandez MJ. Zinc aspartate, biotin, and clobetasol propionate in the treatment of alopecia areata in childhood. *Pediatr Dermatol* 1999;16(4):336-338.
124. Flynn A, Pories WJ, Strain WH et al. Rapid serum-zinc depletion associated with corticosteroid therapy. *Lancet* 1971;2:1169-1172.
125. Fodor L, Ahnefeld FW, Fazekas AT. [Studies on the glucocorticoid control of zinc metabolism]. *Infusionsther Klin Ernahr* 1975;2:210-213.
126. Briggs MH, Briggs M, Austin J. Effects of steroid pharmaceuticals on plasma zinc. *Nature* 1971;232:480-481.
127. Wilson H, Lovelace JR, Hardy JD. The adrenocortical response to extensive burns in man. *Ann Surg* 1955;141:175-184.
128. Mandelstam P, Goldzieher JW, Soroff HS, Green N. The pituitary-adrenal axis: acute adrenocortical insufficiency and persistent occult dysfunction following thermal injury. *J Clin Endocrinol Metab* 1958;18:284-299.
129. Yunice AA, Czerwinski AW, Lindeman RD. Influence of synthetic corticosteroids on plasma zinc and copper levels in humans. *Am J Med Sci* 1981;282:68-74.
130. Fell GS, Fleck A, Cuthbertson DP et al. Urinary zinc levels as an indication of muscle catabolism. *Lancet* 1973;1:280-282.
131. Dorea JG, Ferraz E, Queiroz EF. [Effects of anovulatory steroids on serum levels of zinc and copper]. *Arch Latinoam Nutr* 1982;32:101-110.
132. Herzberg M, Lusky A, Blonder J, Frenkel Y. The effect of estrogen replacement therapy on zinc in serum and urine. *Obstet Gynecol* 1996;87:1035-1040.
133. Pinelli P, Trivulzio S, Colombo R et al. Antiprostatic effect of cimetidine in rats. *Agents Actions* 1987;22:197-201.
134. Sturniolo GC, Montino MC, Rossetto L et al. Inhibition of gastric acid secretion reduces zinc absorption in man. *J Am Coll Nutr* 1991;10:372-375.
135. Frommer DJ. The healing of gastric ulcers by zinc sulphate. *Med J Aust* 1975;2:793-796.
136. Wester PO. Urinary zinc excretion during treatment with different diuretics. *Acta Med Scand* 1980;208:209-212.
137. Houang ET, Ahmet Z, Lawrence AG. Successful treatment of four patients with recalcitrant vaginal trichomoniasis with a combination of zinc sulfate douche and metronidazole therapy. *Sex Transm Dis* 1997;24:116-119.
138. Balogh Z, El-Ghobarey AF, Fell GS et al. Plasma zinc and its relationship to clinical symptoms and drug treatment in rheumatoid arthritis. *Ann Rheum Dis* 1980;39:329-332.
139. Elling H, Kiilerich S, Sabro J, Elling P. Influence of a non-steroid antirheumatic drug on serum and urinary zinc in healthy volunteers. *Scand J Rheumatol* 1980;9:161-163.
140. Dendrinou-Samara C, Tsotsou G, Ekateriniadou LV et al. Anti-inflammatory drugs interacting with Zn(II), Cd(II) and Pt(II) metal ions. *J Inorg Biochem* 1998;71:171-179.
141. Anderson LA, Hakkojarvi SL, Boudreaux SK. Zinc acetate treatment in Wilson's disease. *Ann Pharmacother* 1998;32:78-87.
142. Brewer GJ, Dick RD, Johnson VD et al. Treatment of Wilson's disease with zinc: XV long-term follow-up studies. *J Lab Clin Med* 1998;132:264-278.
143. Li T, Lin R, Du S, Qu Z. [Long-term follow-up of combined therapy with large-dose zinc sulfate and low-dose penicillamine in children with hepatolenticular degeneration]. *Zhonghua Yi Xue Yi Chuan Xue Za Zhi* 1999;16:19-21.
144. Lu JX, Combs GF, Jr. Penicillamine: pharmacokinetics and differential effects on zinc and copper status in chicks. *J Nutr* 1992;122:355-362.
145. Wester PO. Tissue zinc at autopsy—relation to medication with diuretics. *Acta Med Scand* 1980;208:269-271.
146. Reyes AJ, Olhaberry JV, Leary WP et al. Urinary zinc excretion, diuretics, zinc deficiency and some side-effects of diuretics. *S Afr Med J* 1983;64:936-941.
- 146a. Golik A, Modai D, Weissgarten J, et al. Hydrochlorothiazide-amiloride causes excessive urinary zinc excretion. *Clin Pharmacol Ther* 1987;42(1):42-4.
- 146b. Verho M, Bossaller W, Heinen B. Serum trace-element levels in piretanide-treated hypertensives: a double-blind trial against hydrochlorothiazide plus amiloride. *Int J Clin Pharmacol Res* 1987;7(1):5-11.
147. Ripamonti C, Zecca E, Brunelli C et al. A randomized, controlled clinical trial to evaluate the effects of zinc sulfate on cancer patients with taste alterations caused by head and neck irradiation. *Cancer* 1998;82:1938-1945.
148. Matson A, Wright M, Oliver A et al. Zinc supplementation at conventional doses does not improve the disturbance of taste perception in hemodialysis patients. *J Ren Nutr* 2003;13:224-228.
149. Neuvonen PJ. Interactions with the absorption of tetracyclines. *Drugs* 1976;11:45-54.

Citations and Reference Literature: Zinc

150. Weismann K. Chelating drugs and zinc. *Dan Med Bull* 1986;33:208-211.
151. Penttila O, Hurme H, Neuvonen PJ. Effect of zinc sulphate on the absorption of tetracycline and doxycycline in man. *Eur J Clin Pharmacol* 1975;9:131-134.
152. Andersson KE, Bratt L, Dencker H, Lanner E. Some aspects of the intestinal absorption of zinc in man. *Eur J Clin Pharmacol* 1976;9:423-428.
153. Andersson KE, Bratt J, Dencker H et al. Inhibition of tetracycline absorption by zinc. *Eur J Clin Pharmacol* 1976;10:59-62.
154. Mapp RK, McCarthy TJ. The effect of zinc sulphate and of bicitropeptide on tetracycline absorption. *S Afr Med J* 1976;50:1829-1830.
155. Brion M, Lambs L, Berthon G. Metal ion-tetracycline interactions in biological fluids. Part 5. Formation of zinc complexes with tetracycline and some of its derivatives and assessment of their biological significance. *Agents Actions* 1985;17:229-242.
156. Weimar VM, Puhl SC, Smith WH, tenBroeke JE. Zinc sulfate in acne vulgaris. *Arch Dermatol* 1978;114:1776-1778.
157. Michaelsson G, Juhlin L, Ljunghall K. A double-blind study of the effect of zinc and oxytetracycline in acne vulgaris. *Br J Dermatol* 1977;97:561-566.
158. Michaelsson G, Vahlquist A, Juhlin L. Serum zinc and retinol-binding protein in acne. *Br J Dermatol* 1977;96:283-286.
159. Cunliffe WJ, Burke B, Dodman B, Gould DJ. A double-blind trial of a zinc sulphate/citrate complex and tetracycline in the treatment of acne vulgaris. *Br J Dermatol* 1979;101:321-325.
160. Reyes AJ, Leary WP, Lockett CJ, Alcocer L. Diuretics and zinc. *S Afr Med J* 1982;62:373-375.
161. Mountokalakis T, Dourakis S, Karatzas N et al. Zinc deficiency in mild hypertensive patients treated with diuretics. *J Hypertens Suppl* 1984;2:S571-S572.
162. Lerman-Sagie T, Statter M, Szabo G, Lerman P. Effect of valproic acid therapy on zinc metabolism in children with primary epilepsy. *Clin Neuropharmacol* 1987;10:80-86.
163. Hurd RW, Van Rinsvelt HA, Wilder BJ et al. Selenium, zinc, and copper changes with valproic acid: possible relation to drug side effects. *Neurology* 1984;34:1393-1395.
164. Kaji M, Ito M, Okuno T et al. Serum copper and zinc levels in epileptic children with valproate treatment. *Epilepsia* 1992;33:555-557.
165. Sozuer DT, Barutcu UB, Karakoc Y et al. The effects of antiepileptic drugs on serum zinc and copper levels in children. *J Basic Clin Physiol Pharmacol* 1995;6:265-269.
166. Simpson RI, Bryce-Smith D. Cutaneous manifestations of zinc deficiency during treatment with anticonvulsants. *Br Med J Clin Res Ed* 1985;290:1215-1216.
167. Pinto JT. The pharmacokinetic and pharmacodynamic interactions of foods and drugs. *Top Clin Nutr* 1991;6:14-33.
168. Karaivanova VD, Manolov I, Minassyan ML et al. Metal complexes of warfarin sodium. *Pharmazie* 1994;49:856-857.
169. Baum MK, Shor-Posner G, Campa A. Zinc status in human immunodeficiency virus infection. *J Nutr* 2000;130:1421S-1423S.
170. Fabris N, Moccagiani E, Galli M et al. AIDS, zinc deficiency, and thymic hormone failure. *JAMA* 1988;259:839-840.
171. Periquet BA, Jammes NM, Lambert WE et al. Micronutrient levels in HIV-1-infected children. *AIDS* 1995;9:887-893.
172. Tomaka FL, Imoch PJ, Reiter WM et al. Prevalence of nutritional deficiencies in patients with HIV infection. *Int Conf AIDS* 1994;221.
173. Saprey C, Leclercq P, Coudray C et al. Vitamin, trace element and peroxide status in HIV seropositive patients: asymptomatic patients present a severe beta-carotene deficiency. *Clin Chim Acta* 1994;230:35-42.
174. Moccagiani E, Vecchia S, Ancarani F et al. Benefit of oral zinc supplementation as an adjunct to zidovudine (AZT) therapy against opportunistic infections in AIDS. *Int J Immunopharmacol* 1995;17:719-727.
175. Baum MK, Javier JJ, Mantero-Atienza E et al. Zidovudine-associated adverse reactions in a longitudinal study of asymptomatic HIV-1-infected homosexual males. *J Acquir Immune Defic Syndr* 1991;4:1218-1226.
176. Bogden JD, Kemp FW, Han S et al. Status of selected nutrients and progression of human immunodeficiency virus type 1 infection. *Am J Clin Nutr* 2000;72:809-815.
177. Tang AM, Graham NM, Kirby AJ et al. Dietary micronutrient intake and risk of progression to acquired immunodeficiency syndrome (AIDS) in human immunodeficiency virus type 1 (HIV-1)-infected homosexual men. *Am J Epidemiol* 1993;138:937-951.
178. Tang AM, Graham NM, Saah AJ. Effects of micronutrient intake on survival in human immunodeficiency virus type 1 infection. *Am J Epidemiol* 1996;143:1244-1256.
179. Campa A, Lai H, Shor-Posner G et al. Relationship between zinc deficiency and survival in HIV+ homosexual men. *FASEB J* 1998;A217.
180. Bobat R, Coovadia H, Stephen C et al. Safety and efficacy of zinc supplementation for children with HIV-1 infection in South Africa: a randomised double-blind placebo-controlled trial. *Lancet* 2005;366:1862-1867.

Citations and Reference Literature: Zinc

181. Carcamo C, Hooton T, Weiss NS et al. Randomized controlled trial of zinc supplementation for persistent diarrhea in adults with HIV-1 infection. *J Acquir Immune Defic Syndr* 2006;43:197-201.
182. Ambanelli U, Ferraccioli GF, Serventi G, Vaona GL. Changes in serum and urinary zinc induced by ASA and indomethacin. *Scand J Rheumatol* 1982;11:63-64.
183. Kim EY, Chang SY, Chung JM et al. Attenuation of Zn²⁺ neurotoxicity by aspirin: role of N-type Ca²⁺ channel and the carboxyl acid group. *Neurobiol Dis* 2001;8:774-783.
184. Watkins DW, Khalafi R, Cassidy MM, Vahouny GV. Alterations in calcium, magnesium, iron, and zinc metabolism by dietary cholestyramine. *Dig Dis Sci* 1985;30:477-482.
185. Adami S, Bhalla AK, Dorizzi R et al. The acute-phase response after bisphosphonate administration. *Calcif Tissue Int* 1987;41:326-331.
186. Gur A, Colpan L, Cevik R et al. Comparison of zinc excretion and biochemical markers of bone remodelling in the assessment of the effects of alendronate and calcitonin on bone in postmenopausal osteoporosis. *Clin Biochem* 2005;38:66-72.
187. Hidalgo M, Eckhardt SG. Development of matrix metalloproteinase inhibitors in cancer therapy. *J Natl Cancer Inst* 2001;93:178-193.
188. Stanciute D, Didziapetriene J, Kadziauskas J. [Expression of matrix metalloproteinases in patients with malignant tumors]. *Medicina (Kaunas)* 2004;40:1143-1150.
189. Vaisman DN, McCarthy AD, Cortizo AM. Bone-specific alkaline phosphatase activity is inhibited by bisphosphonates: role of divalent cations. *Biol Trace Elem Res* 2005;104:131-140.
190. Boissier S, Ferreras M, Peyruchaud O et al. Bisphosphonates inhibit breast and prostate carcinoma cell invasion, an early event in the formation of bone metastases. *Cancer Res* 2000;60:2949-2954.
191. Powanda MC, Henriksen EL, Ayala E, Canonico PG. Clofibrate-induced alterations in serum protein patterns. *Biochem Pharmacol* 1976;25:785-788.
192. Powanda MC, Blackburn BS, Bostian KA et al. Clofibrate-induced alterations in zinc, iron and copper metabolism. *Biochem Pharmacol* 1978;27:125-127.
193. Norregaard L, Frederiksen D, Nielsen EO, Gether U. Delineation of an endogenous zinc-binding site in the human dopamine transporter. *EMBO J* 1998;17:4266-4273.
194. Schetz JA, Chu A, Sibley DR. Zinc modulates antagonist interactions with D2-like dopamine receptors through distinct molecular mechanisms. *J Pharmacol Exp Ther* 1999;289:956-964.
195. Gillin JC, Carpenter WT, Hambidge KM et al. Zinc and copper in patients with schizophrenia. *Encephale* 1982;8:435-444.
196. Andrews RC. An update of the zinc deficiency theory of schizophrenia: identification of the sex determining system as the site of action of reproductive zinc deficiency. *Med Hypotheses* 1992;38:284-291.
197. Pfeiffer CC, Bacchi D. Copper, zinc, manganese, niacin and pyridoxine in the schizophrenics. *J Appl Nutr* 1975;27:9-39.
198. Maier RH, Purser SM, Nicholson DL, Pories WJ. The cytotoxic interaction of inorganic trace elements with EDTA and cisplatin in sensitive and resistant human ovarian cancer cells. *In Vitro Cell Dev Biol Anim* 1997;33:218-221.
199. Solecki TJ, Aviv A, Bogden JD. Effect of a chelating drug on balance and tissue distribution of four essential metals. *Toxicology* 1984;31:207-216.
200. Butterworth CE Jr, Tamura T. Folic acid safety and toxicity: a brief review. *Am J Clin Nutr* 1989;50:353-358.
201. Campbell NR. How safe are folic acid supplements? *Arch Intern Med* 1996;156:1638-1644.
202. Fjellner B. Drug-induced lupus erythematosus aggravated by oral zinc therapy. *Acta Derm Venereol* 1979;59:368-370.
203. Khanna VJ, Shieh S, Benjamin J et al. Necrolytic acral erythema associated with hepatitis C: effective treatment with interferon alfa and zinc. *Arch Dermatol* 2000;136:755-757.
204. Grider A, Vazquez F. Nystatin affects zinc uptake in human fibroblasts. *Biol Trace Elem Res* 1996;54:97-104.
205. Newsome DA, Swartz M, Leone NC et al. Oral zinc in macular degeneration. *Arch Ophthalmol* 1988;106:192-198.
206. Stur M, Tittl M, Reitner A, Meisinger V. Oral zinc and the second eye in age-related macular degeneration. *Invest Ophthalmol Vis Sci* 1996;37:1225-1235.
207. Mares-Perlman JA, Klein R, Klein BE et al. Association of zinc and antioxidant nutrients with age-related maculopathy. *Arch Ophthalmol* 1996;114:991-997.
208. A randomized, placebo-controlled, clinical trial of high-dose supplementation with vitamins C and E, beta carotene, and zinc for age-related macular degeneration and vision loss: AREDS Report No 8. *Arch Ophthalmol* 2001;119:1417-1436.
209. A randomized, placebo-controlled, clinical trial of high-dose supplementation with vitamins C and E and beta carotene for age-related cataract and vision loss: AREDS Report No 9. *Arch Ophthalmol* 2001;119:1439-1452.

Citations and Reference Literature: Zinc

210. Bartlett H, Eperjesi F. Age-related macular degeneration and nutritional supplementation: a review of randomised controlled trials. *Ophthalmic Physiol Opt* 2003;23:383-399.
211. Antioxidant vitamins and zinc for macular degeneration. *Med Lett Drugs Ther* 2003;45:45-46.
212. Falsini B, Piccardi M, Iarossi G et al. Influence of short-term antioxidant supplementation on macular function in age-related maculopathy: a pilot study including electrophysiologic assessment. *Ophthalmology* 2003;110:51-60; discussion 61.
213. Clemons TE, Kurinij N, Sperduto RD. Associations of mortality with ocular disorders and an intervention of high-dose antioxidants and zinc in the Age-Related Eye Disease Study. AREDS Report No 13. *Arch Ophthalmol* 2004;122:716-726.
214. Richer S, Stiles W, Statkute L et al. Double-masked, placebo-controlled, randomized trial of lutein and antioxidant supplementation in the intervention of atrophic age-related macular degeneration: the Veterans LAST study (Lutein Antioxidant Supplementation Trial). *Optometry* 2004;75:216-230.
215. Van Leeuwen R, Boekhoorn S, Vingerling JR et al. Dietary intake of antioxidants and risk of age-related macular degeneration. *JAMA* 2005;294:3101-3107.
216. Evans JR. Antioxidant vitamin and mineral supplements for slowing the progression of age-related macular degeneration. *Cochrane Database Syst Rev* 2006;CD000254.
217. Crowther RS, Marriott C. Counter-ion binding to mucus glycoproteins. *J Pharm Pharmacol* 1984;36:21-26.
218. Pecoud A, Donzel P, Schelling JL. Effect of foodstuffs on the absorption of zinc sulfate. *Clin Pharmacol Ther* 1975;17:469-474.
219. Spencer H, Kramer L, Norris C, Osis D. Effect of calcium and phosphorus on zinc metabolism in man. *Am J Clin Nutr* 1984;40:1213-1218.
220. Dawson-Hughes B, Seligson FH, Hughes VA. Effects of calcium carbonate and hydroxyapatite on zinc and iron retention in postmenopausal women. *Am J Clin Nutr* 1986;44:83-88.
221. Hwang SJ, Lai YH, Chen HC, Tsai JH. Comparisons of the effects of calcium carbonate and calcium acetate on zinc tolerance test in hemodialysis patients. *Am J Kidney Dis* 1992;19:57-60.
222. Argiratos V, Samman S. The effect of calcium carbonate and calcium citrate on the absorption of zinc in healthy female subjects. *Eur J Clin Nutr* 1994;48:198-204.
223. Hwang SJ, Chang JM, Lee SC et al. Short- and long-term uses of calcium acetate do not change hair and serum zinc concentrations in hemodialysis patients. *Scand J Clin Lab Invest* 1999;59:83-87.
224. Hoogenraad TU, van den Hamer CJ. 3 years of continuous oral zinc therapy in 4 patients with Wilson's disease. *Acta Neurol Scand* 1983;67:356-364.
225. Fischer PW, Giroux A, L'Abbe MR. Effect of zinc supplementation on copper status in adult man. *Am J Clin Nutr* 1984;40:743-746.
226. Cossack ZT, van den Hamer CJ. Kinetics of copper absorption in zinc-overload states and following the withdrawal of zinc supplement: the role of endogenous zinc status. *J Pediatr Gastroenterol Nutr* 1987;6:296-301.
227. Gyorffy EJ, Chan H. Copper deficiency and microcytic anemia resulting from prolonged ingestion of over-the-counter zinc. *Am J Gastroenterol* 1992;87:1054-1055.
228. Brumas V, Venturini M, Filella M, Berthon G. Quantitative investigation of copper(II) and zinc(II) complexes with S-carboxymethyl-L-cysteine and computer-simulated appraisal of their potential significance in vivo. *J Inorg Biochem* 1989;37:309-323.
229. Horn NM, Thomas AL, Tompkins JD. The effect of histidine and cysteine on zinc influx into rat and human erythrocytes. *J Physiol* 1995;489(Pt 1):73-80.
230. Sturniolo GC, Di Leo V, Ferronato A et al. Zinc supplementation tightens "leaky gut" in Crohn's disease. *Inflamm Bowel Dis* 2001;7:94-98.
231. Wapnir RA, Lee SY. Dietary regulation of copper absorption and storage in rats: effects of sodium, zinc and histidine-zinc. *J Am Coll Nutr* 1993;12:714-719.
232. Keller KA, Chu Y, Grider A, Coffield JA. Supplementation with L-histidine during dietary zinc repletion improves short-term memory in zinc-restricted young adult male rats. *J Nutr* 2000;130:1633-1640.
233. Kordas K, Stoltzfus RJ. New evidence of iron and zinc interplay at the enterocyte and neural tissues. *J Nutr* 2004;134:1295-1298.
234. Solomons NW. Competitive interaction of iron and zinc in the diet: consequences for human nutrition. *J Nutr* 1986;116:927-935.
235. Solomons NW, Jacob RA. Studies on the bioavailability of zinc in humans: effects of heme and nonheme iron on the absorption of zinc. *Am J Clin Nutr* 1981;34:475-482.
236. Rossander-Hulten L, Brune M, Sandstrom B et al. Competitive inhibition of iron absorption by manganese and zinc in humans. *Am J Clin Nutr* 1991;54:152-156.
237. Peres JM, Bureau F, Neuville D et al. Inhibition of zinc absorption by iron depends on their ratio. *J Trace Elem Med Biol* 2001;15:237-241.
238. Meadows NJ, Grainger SL, Ruse W et al. Oral iron and the bioavailability of zinc. *Br Med J Clin Res Ed* 1983;287:1013-1014.

Citations and Reference Literature: Zinc

239. O'Brien KO, Zavaleta N, Caulfield LE et al. Prenatal iron supplements impair zinc absorption in pregnant Peruvian women. *J Nutr* 2000;130:2251-2255.
240. Schultink W, Merzenich M, Gross R et al. Effects of iron-zinc supplementation on the iron, zinc, and vitamin A status of anaemic pre-school children in Indonesia. *Food Nutr Bull* 1997;18:311-317.
241. Lind T, Lonnerdal B, Stenlund H et al. A community-based randomized controlled trial of iron and zinc supplementation in Indonesian infants: interactions between iron and zinc. *Am J Clin Nutr* 2003;77:883-890.
242. Donangelo CM, Woodhouse LR, King SM et al. Supplemental zinc lowers measures of iron status in young women with low iron reserves. *J Nutr* 2002;132:1860-1864.
243. Fischer Walker C, Kordas K, Stoltzfus RJ, Black RE. Interactive effects of iron and zinc on biochemical and functional outcomes in supplementation trials. *Am J Clin Nutr* 2005;82:5-12.
244. Muñoz EC, Rosado JL, Lopez P et al. Iron and zinc supplementation improves indicators of vitamin A status of Mexican preschoolers. *Am J Clin Nutr* 2000;71:789-794.
245. Spencer H, Norris C, Williams D. Inhibitory effects of zinc on magnesium balance and magnesium absorption in man. *J Am Coll Nutr* 1994;13:479-484.
246. Brumas V, Hacht B, Filella M, Berthon G. Can N-acetyl-L-cysteine affect zinc metabolism when used as a paracetamol antidote? *Agents Actions* 1992;36:278-288.
247. Kulkarni RR, Patki PS, Jog VP et al. Treatment of osteoarthritis with a herbomineral formulation: a double-blind, placebo-controlled, cross-over study. *J Ethnopharmacol* 1991;33:91-95.
248. Cullinan MP, Powell RN, Faddy MJ, Seymour GJ. Efficacy of a dentifrice and oral rinse containing sanguinaria extract in conjunction with initial periodontal therapy. *Aust Dent J* 1997;42:47-51.
249. Harper DS, Mueller LJ, Fine JB et al. Effect of 6 months use of a dentifrice and oral rinse containing sanguinaria extract and zinc chloride upon the microflora of the dental plaque and oral soft tissues. *J Periodontol* 1990;61:359-363.
250. Harper DS, Mueller LJ, Fine JB et al. Clinical efficacy of a dentifrice and oral rinse containing sanguinaria extract and zinc chloride during 6 months of use. *J Periodontol* 1990;61:352-358.
251. Kopczyk RA, Abrams H, Brown AT et al. Clinical and microbiological effects of a sanguinaria-containing mouthrinse and dentifrice with and without fluoride during 6 months of use. *J Periodontol* 1991;62:617-622.
252. Mallatt ME, Beiswanger BB, Drook CA et al. Clinical effect of a sanguinaria dentifrice on plaque and gingivitis in adults. *J Periodontol* 1989;60:91-95.
253. Southard GL, Parsons LG, Thomas LG Jr et al. The relationship of sanguinaria extract concentration and zinc ion to plaque and gingivitis. *J Clin Periodontol* 1987;14:315-319.
254. Arnold LE, Pinkham SM, Votolato N. Does zinc moderate essential fatty acid and amphetamine treatment of attention-deficit/hyperactivity disorder? *J Child Adolesc Psychopharmacol* 2000;10:111-117.

Reference Literature

- [No authors listed.] Minerals. In: Drug facts and comparisons. St Louis: Facts and Comparisons; 2000:27-51.
- [No authors listed.] Zinc lozenges reduce the duration of common cold symptoms. *Nutr Rev* 1997;55:82-88. (Review)
- Abu-Hamdan DK, Mahajan SK, Migdal S, et al. Zinc tolerance test in uremia: effect of calcitriol supplementation. *J Am Coll Nutr* 1988;7(3):235-240.
- Abu-Hamdan DK, Mahajan SK, Migdal SD, et al. Zinc tolerance test in uremia: effect of ferrous sulfate and aluminum hydroxide. *Ann Intern Med* 1986;104(1):50-52.
- Age-Related Eye Disease Study Research Group. A randomized, placebo-controlled, clinical trial of high-dose supplementation with vitamins C and E, beta carotene, and zinc for age-related macular degeneration and vision loss: AREDS Report No. 8. *Arch Ophthalmol* 2001;119(10):1417-1436.
- Age-Related Eye Disease Study Research Group. A randomized, placebo-controlled, clinical trial of high-dose supplementation with vitamins C and E and beta carotene for age-related cataract and vision loss: AREDS Report No. 9. *Arch Ophthalmol* 2001;119:1439-1452.
- Age-Related Eye Disease Study Research Group. Associations of mortality with ocular disorders and an intervention of high-dose antioxidants and zinc in the Age-Related Eye Disease Study. *Arch Ophthalmol* 2004;122:716-726.
- Aggett PJ, Crofton RW, Khin C, et al. The mutual inhibitory effects on their bioavailability of inorganic zinc and iron. *Prog Clin Biol Res* 1983;129:117-124.
- Agren MS, Stromberg HE, Rindby A, et al. Selenium, zinc, iron and copper levels in serum of patients with arterial and venous leg ulcers. *Acta Derm Venereol* 1986;66:237-240.

Citations and Reference Literature: Zinc

- Altaf W, Perveen S, Rehman KU, et al. Zinc supplementation in oral rehydration solutions: experimental assessment and mechanisms of action. *J Am Coll Nutr* 2002;21(1):26-32.
- Ambra R, Mocchegiani E, Giacconi R, et al. Characterization of the hsp70 response in lymphoblasts from aged and centenarian subjects and differential effects of in vitro zinc supplementation. *Exp Gerontol* 2004;39(10):1475-1484.
- Amer M, Bahgat MR, Tossen Z, et al. Serum zinc in acne vulgaris. *Int J Dermatol* 1982;21:481-484.
- Ames BN. DNA damage from micronutrient deficiencies is likely to be a major cause of cancer. *Mutat Res* 2001;475(1-2):7-20. (Review)
- Ames BN. Micronutrient deficiencies: a major cause of DNA damage. *Ann N Y Acad Sci* 2000;889:87-106. (Review)
- Anderson LA, Hakkojarvi SL, Boudreux SK. Zinc acetate treatment in Wilson's disease. *Ann Pharmacother* 1998;32(1):78-87. (Review)
- Anderson RA, Roussel AM, Zouari N, et al. Potential antioxidant effects of zinc and chromium supplementation in people with type 2 diabetes mellitus. *J Am Coll Nutr* 2001;20(3):212-218.
- Andersson SO, Wolk A, Bergstrom R, et al. Energy, nutrient intake and prostate cancer risk: a population-based case-control study in Sweden. *Int J Cancer* 1996;68(6):716-722.
- Angus RM, Sambrook PN, Pocock NA, et al. Dietary intake and bone mineral density. *Bone Miner* 1988;4(3):265-277.
- Arda HN, Tuncel U, Akdogan O, et al. The role of zinc in the treatment of tinnitus. *Otol Neurotol* 2003;24(1):86-89.
- Arnold LE. Alternative treatments for adults with attention-deficit hyperactivity disorder (ADHD). *Ann N Y Acad Sci* 2001;931:310-341. (Review)
- Bakan P. Confusion, lethargy and leukonychia. *J Orthomol Med* 1990;5:198-202.
- Bandlish U, Prabhakar BR, Wadehra PL. Plasma zinc level estimation in enlarged prostate. *Indian J Pathol Microbiol* 1988;31:231-234.
- Barceloux DG. Zinc. *J Toxicol Clin Toxicol* 1999;37(2):279-292.
- Basu TK, Donaldson D. Intestinal absorption in health and disease: micronutrients. *Best Pract Res Clin Gastroenterol* 2003;17(6):957-979.
- Baum M, Cassetti L, Bonvehi P, et al. Inadequate dietary intake and altered nutrition status in early HIV-1 infection. *Nutrition* 1994;10(1):16-20.
- Baum MK, Shor-Posner G, Lu Y, et al. Micronutrients and HIV-1 disease progression. *AIDS* 1995;9(9):1051-1056.
- Bedwal RS, Bahuguna A. Zinc, copper and selenium in reproduction. *Experientia* 1994;50(7):626-640. (Review)
- Belongia EA, Berg R, Liu K. A randomized trial of zinc nasal spray for the treatment of upper respiratory illness in adults. *Am J Med* 2001;111(2):103-108.
- Berg JM, Shi Y. The galvanization of biology: a growing appreciation for the roles of zinc. *Science* 1996;271:1081-1085.
- Berthon G, ed. *Handbook of metal-ligand interactions in biological fluids*. Vol 1. New York: Marcel Dekker; 1995.
- Bettger WJ, O'Dell BL. A critical physiological role of zinc in the structure and function of biomembranes. *Life Sci* 1981;28(13):1425-1438. (Review)
- Bettger WJ, Taylor CJ. Effects of copper and zinc status of rats on the concentration of copper and zinc in the erythrocyte membrane. *Nutr Res* 1986;6:451-457.
- Bhandari N, Bahl R, Taneja S, et al. Effect of routine zinc supplementation on pneumonia in children aged 6 months to 3 years: randomised controlled trial in an urban slum. *BMJ* 2002;324(7350):1358.
- Bhutta ZA, Bird SM, Black RE, et al. Therapeutic effects of oral zinc in acute and persistent diarrhea in children in developing countries: pooled analysis of randomized controlled trials. *Am J Clin Nutr* 2000;72(6):1516-1522.
- Bhutta ZA, Black RE, Brown KH, et al. Prevention of diarrhea and pneumonia by zinc supplementation in children in developing countries: pooled analysis of randomized controlled trials: Zinc Investigators' Collaborative Group. *J Pediatr* 1999;135(6):689-697.
- Bilici M, Yildirim F, Kandil S, et al. Double-blind, placebo-controlled study of zinc sulfate in the treatment of attention deficit hyperactivity disorder. *Prog Neuropsychopharmacol Biol Psychiatry* 2004;28(1):181-190.
- Birmingham CL, Goldner EM, Bakan R. Controlled trial of zinc supplementation in anorexia nervosa. *Int J Eat Disord* 1994;15:251-255.
- Björksten B, Back O, Gustavson KH, et al. Zinc and immune function in Down's syndrome. *Acta Paediatr Scand* 1980;69:183-187.
- Black MM. Zinc deficiency and child development. *Am J Clin Nutr* 1998;68(2 Suppl):464S-469S.
- Black RE. Therapeutic and preventive effects of zinc on serious childhood infectious diseases in developing countries. *Am J Clin Nutr* 1998;68(2 Suppl):476S-479S.
- Black RE. Zinc deficiency and child development. *Am J Clin Nutr* 1998;68(Suppl):464S-469S.
- Blostein-Fujii A, DiSilvestro RA, Frid D, et al. Short-term zinc supplementation in women with non-insulin-dependent diabetes mellitus: effects on plasma 5'-nucleotidase activities, insulin-like growth factor I concentrations, and lipoprotein oxidation rates in vitro. *Am J Clin Nutr* 1997;66(3):639-642.

Citations and Reference Literature: Zinc

- Boden JD, Oleske JM, Lavenhar MA, et al. Effects of one year supplementation with zinc and other micronutrients on cellular immunity in the elderly. *J Am Coll Nutr* 1990;9:214-215.
- Bogden JD, Oleske JM, Munves EM, et al. Zinc and immunocompetence in the elderly: baseline data on zinc nutriture and immunity in unsupplemented subjects. *Am J Clin Nutr* 1987;46(1):101-109.
- Bose A, Coles CL, Gunavathi, et al. Efficacy of zinc in the treatment of severe pneumonia in hospitalized children <2 y old. *Am J Clin Nutr* 2006;83:1089-1096.
- Bougle D, Laroche D, Bureau F. Zinc and iron status and growth in healthy infants. *Eur J Clin Nutr* 2000;54(10):764-767.
- Boukaiba N, Flament C, Acher S, et al. A physiological amount of zinc supplementation: effects on nutritional, lipid, and thymic status in an elderly population. *Am J Clin Nutr* 1993;57(4):566-572.
- Brewer GJ, Dick RD, Johnson VD, et al. Treatment of Wilson's disease with zinc: XV long-term follow-up studies. *J Lab Clin Med* 1998;132(4):264-278.
- Brewer GJ, Johnson VD, Dick RD, et al. Treatment of Wilson's disease with zinc: XVII: treatment during pregnancy. *Hepatology* 2000;31(2):364-370.
- Brook AC, Johnston DG, Ward MK, et al. Absence of a therapeutic effect of zinc in the sexual dysfunction of hemodialysed patients. *Lancet* 1980;2:618-620.
- Brooks WA, Yunus M, Santosham M, et al. Zinc for severe pneumonia in very young children: double-blind placebo-controlled trial. *Lancet* 2004;363:1683-1688.
- Brown KH, Wuehler S. Zinc and human health: results of recent trials and implication for program interventions and research. Ottawa, Ontario: Micronutrient Initiative; 2000.
- Bryce-Smith D. Zinc deficiency: the neglected factor. *Chem Br* 1989;783-786.
- Bryce-Smith D. Pre-natal zinc deficiency. *Nurs Times* 1986;82(10):44-46.
- Bryce-Smith D, Hodgkinson L. The zinc solution. London: Century Arrow; 1987.
- Bucci I, Napolitano G, Giuliani C, et al. Zinc sulfate supplementation improves thyroid function in hypozincemic Down children. *Biol Trace Elem Res* 1999;67:257-268.
- Buist RA. Drug-nutrient interactions: an overview. *Int Clin Nutr Rev* 1984;4(3):114. (Review)
- Bureau I, Anderson RA, Arnaud J, et al. Trace mineral status in post menopausal women: impact of hormonal replacement therapy. *J Trace Elem Med Biol* 2002;16(1):9-13.
- Bush AI, Pettingell WH, Multhaup G, et al. Rapid induction of Alzheimer A8 amyloid formation by zinc. *Science* 1994;265:1464-1465.
- Capasso M, Jeng JM, Malavolta M, et al. Zinc dyshomeostasis: a key modulator of neuronal injury. *J Alzheimers Dis* 2005;8(2):93-108; discussion 209-215. (Review)
- Castillo-Duran C, Heresi G, Fisberg M, et al. Controlled trial of zinc supplementation during recovery from malnutrition: effects on growth and immune function. *Am J Clin Nutr* 1987;45:602-608.
- Caulfield LE, Zavaleta N, Figueroa A, et al. Maternal zinc supplementation does not affect size at birth or pregnancy duration in Peru. *J Nutr* 1999;129(8):1563-1568.
- Caulfield LE, Zavaleta N, Shankar AH, et al. Potential contribution of maternal zinc supplementation during pregnancy to maternal and child survival. *Am J Clin Nutr* 1998;68(2 Suppl):499S-508S.
- Cerhan JR, Saag KG, Merlino LA, et al. Antioxidant micronutrients and risk of rheumatoid arthritis in a cohort of older women. *Am J Epidemiol* 2003;157(4):345-354.
- Chandra RK. Excessive intake of zinc impairs immune responses. *JAMA* 1984;252(11):1443.
- Cherry FF, Sandstead HH, Rojas P, et al. Adolescent pregnancy: associations among body weight, zinc nutriture, and pregnancy outcome. *Am J Clin Nutr* 1989;50(5):945-954.
- Cho E, Stampfer MJ, Seddon JM, et al. Prospective study of zinc intake and the risk of age-related macular degeneration. *Ann Epidemiol* 2001;11(5):328-336.
- Chooi MK, Todd JK, Boyd ND. Influence of age and sex on plasma zinc levels in normal and diabetic individuals. *Nutr Metab* 1976;20(2):135-142.
- Christian P, Khatry SK, Yamin S, et al. Zinc supplementation might potentiate the effect of vitamin A in restoring night vision in pregnant Nepalese women. *Am J Clin Nutr* 2001;73(6):1045-1051.
- Clemmensen OJ, Siggaard-Andersen J, Worm AM, et al. Psoriatic arthritis treated with oral zinc sulphate. *Br J Dermatol* 1980;103(4): 411-415.
- Collipp PJ. Effect of oral zinc supplements on diaper rash in normal infants. *J Med Assoc Ga* 1989;78(9):621-623.
- Constantinidis J. Alzheimer's disease: the zinc theory. *Encephale* 1990;16:231-239. [French; English abstract]
- Constantinidis J. The hypothesis of zinc deficiency in the pathogenesis of neurofibrillary tangles. *Med Hypotheses* 1991;35:319-323.

Citations and Reference Literature: Zinc

- Cordova A, Alvarez-Mon M. Behaviour of zinc in physical exercise: a special reference to immunity and fatigue. *Neurosci Biobehav Rev* 1995;19:439-445.
- Cordova A, Navas FJ. Effect of training on zinc metabolism: changes in serum and sweat zinc concentrations in sportsmen. *Ann Nutr Metab* 1998;42(5):274-282.
- Coto JA, Hadden EM, Sauro M, et al. Interleukin 1 regulates secretion of zinc-thymulin by human thymic epithelial cells and its action on T-lymphocyte proliferation and nuclear protein kinase C. *Proc Natl Acad Sci U S A* 1992;89(16):7752-7756.
- Cousins RJ. Zinc. In: Ziegler EE, Filer LJ, eds. *Present knowledge in nutrition*. Washington,DC: ILSI Press; 1996:293-306.
- Crofton RW, Gvozdanovic D, Gvozdanovic S, et al. Inorganic zinc and the intestinal absorption of ferrous iron. *Am J Clin Nutr* 1989;50(1):141-144.
- Crow JP, Sampson JB, Zhuang Y, et al. Decreased zinc affinity of amyotrophic lateral sclerosis-associated superoxide dismutase mutants leads to enhanced catalysis of tyrosine nitration by peroxynitrite. *J Neurochem* 1997;69:1936-1944.
- Crowther RS, Marriott C. Counter-ion binding to mucus glycoproteins. *J Pharm Pharmacol* 1984;36:21-26.
- Cuajungco MP, Lees GJ. Zinc metabolism in the brain: relevance to human neurodegenerative disorders. *Neurobiol Dis* 1997;4:137-169.
- Cunningham JJ, Fu A, Mearkle PL, et al. Hyperzincuria in individuals with insulin-dependent diabetes mellitus: concurrent zinc status and the effect of high-dose zinc supplementation. *Metabolism* 1994;43(12):1558-1562.
- Dardenne M, Pleau JM, Nabarra B, et al. Contribution of zinc and other metals to the biological activity of the serum thymic factor. *Proc Natl Acad Sci U S A* 1982;79(17):5370-5373.
- David TJ, Wells FE, Sharpe TC, et al. Low serum zinc in children with atopic eczema. *Br J Dermatol* 1984;111(5):597-601.
- Davidsson L, Almgren A, Sandstrom B, et al. Zinc absorption in adult humans: the effect of iron fortification. *Br J Nutr* 1995;74:417-425.
- Davies S. Assessment of zinc status. *Int Clin Nutr Rev* 4:122-129.
- Davis JS, Cousins RJ. Metallothionein expression in animals: a physiological perspective on function. *J Nutr* 2000;130:1085-1088.
- Dawson EB, Albers J, McGanity WJ. Serum zinc changes due to iron supplementation in teen-age pregnancy. *Am J Clin Nutr* 1990;50:848-852.
- de Goeij JJ. Nuclear analytical methods in the life sciences. *Biol Trace Elem Res* 1994;43-45:9-17. (Review)
- DeCook CA, Hirsch AR. Anosmia due to inhalational zinc: a case report. *Chem Senses* 2000;25(5):659.
- Dennehy CE, Tsourounis C, Horn AJ. Dietary supplement-related adverse events reported to the California Poison Control System. *Am J Health Syst Pharm* 2005;62(14):1476-1482.
- Dixon JS, Bird HA, Martin MF, et al. Biochemical and clinical changes occurring during the treatment of rheumatoid arthritis with novel antirheumatoid drugs. *Int J Clin Pharmacol Res* 1985;5:25-33.
- Domellof M, Dewey KG, Lonnerdal B, et al. The diagnostic criteria for iron deficiency in infants should be reevaluated. *J Nutr* 2002;132(12):3680-3686.
- Donangelo CM, Zapata CL, Woodhouse LR, et al. Zinc absorption and kinetics during pregnancy and lactation in Brazilian women. *Am J Clin Nutr* 2005;82(1):118-124.
- Dorea JG, Ferraz E, Queiroz EF. [Effects of anovulatory steroids on serum levels of zinc and copper.] *Arch Latinoam Nutr* 1982;32(1): 101-110. [Portuguese]
- Dreno B, Amblard P, Agache P, et al. Low doses of zinc gluconate for inflammatory acne. *Acta Derm Venereol* 1989;69:541-543.
- Dreno B, Daniel F, Allaert FA, et al. Acne: evolution of the clinical practice and therapeutic management of acne between 1996 and 2000. *Eur J Dermatol* 2003;13(2):166-170. (Review)
- Dreno B, Trossaert M, Boiteau HL, et al. Zinc salts effects on granulocyte zinc concentration and chemotaxis in acne patients. *Acta Derm Venereol* 1992;72(4):250-252.
- Dronfield MW, Malone JD, Langman MJ. Zinc in ulcerative colitis: a therapeutic trial and report on plasma levels. *Gut* 1977;18:33-36.
- Duchateau J, Delepesse G, Vrijens R, et al. Beneficial effects of oral zinc duration on the immune response of old people. *Am J Med* 1981;70:1001-1004.
- Duggan C, Fawzi W. Micronutrients and child health: studies in international nutrition and HIV infection. *Nutr Rev* 2001;59(11): 358-369. (Review)
- Duggan C, Gannon J, Walker WA. Protective nutrients and functional foods for the gastrointestinal tract. *Am J Clin Nutr* 2002;75(5): 789-808. (Review)
- Eby GA. Linearity in dose-response from zinc lozenges in treatment of common colds. *J Pharm Technol* 1995;11:110-122.
- Eby G. Where's the bias? *Ann Intern Med* 1998;128:75. (Letter)
- Eby GA. Zinc ion availability-the determinant of efficacy in zinc lozenge treatment of common colds. *J Antimicrob Chemother* 1997;40:483-493.

Citations and Reference Literature: Zinc

- Eby GA. Zinc lozenges: cold cure or candy? Solution chemistry determinations. *Biosci Rep* 2004;24(1):23-39.
- Eby GA, Halcomb WW. Ineffectiveness of zinc gluconate nasal spray and zinc orotate lozenges in common-cold treatment: a double-blind, placebo-controlled clinical trial. *Altern Ther Health Med* 2006;12(1):34-38.
- Eby GA, Davis DR, Halcomb WW. Reduction in duration of common colds by zinc gluconate lozenges in a double blind study. *Antimicrob Agents Chemother* 1984;25(1):20-24.
- Eby GA. Zinc ion availability: the determinant of efficacy in zinc lozenge treatment of common colds. *J Antimicrob Chemother* 1997;40(4):483-493.
- Ervin RB, Kennedy-Stephenson J. Mineral intakes of elderly adult supplement and non-supplement users in the third national health and nutrition examination survey. *J Nutr* 2002;132:3422-3427.
- Estevez AG, Crow JP, Sampson JB, et al. Induction of nitric oxide-dependent apoptosis in motor neurons by zinc-deficient superoxide dismutase. *Science* 1999;286(5449):2498-2500.
- Evans JR. Antioxidant vitamin and mineral supplements for age-related macular degeneration (Cochrane Review). *Cochrane Database Syst Rev* 2002(1):CD000254. (Review)
- Ewing CI, Gibbs AC, Ashcroft C, et al. Failure of oral zinc supplementation in atopic eczema. *Eur J Clin Nutr* 1991;45:507-510.
- Faber C, Gabriel P, Ibs KH, et al. Zinc in pharmacological doses suppresses allogeneic reaction without affecting the antigenic response. *Bone Marrow Transplant* 2004;33(12):1241-1246.
- Fabris N, Mocchegiani E. Zinc, human diseases and aging. *Aging Clin Exp Res* 1995;7:77-93.
- Fahim MS, Ibrahim HH, Girgis SM, et al. Value of intraprostatic injection of zinc and vitamin C and of ultrasound application in infertile men with chronic prostatitis. *Arch Androl* 1985;14(1):81-87.
- Fahim MS, Wang M, Sutcu MF, et al. Zinc arginine, a 5 alpha-reductase inhibitor, reduces rat ventral prostate weight and DNA without affecting testicular function. *Andrologia* 1993;25(6):369-375.
- Fahim MS, Fahim Z, Der R, et al. Zinc treatment for the reduction of hyperplasia of the prostate. *Fed Proc* 1976; 35:361.
- Falchuk KH. Disturbances in trace elements. In: Fauci A, Braunwald E, Isselbacher KJ, et al, eds. *Harrison's principles of internal medicine* 14th ed. New York: McGraw-Hill Companies Health Professional Division; 1998:490-491.
- Farvid MS, Jalali M, Siassi F, et al. Comparison of the effects of vitamins and/or mineral supplementation on glomerular and tubular dysfunction in type 2 diabetes. *Diabetes Care* 2005;28(10):2458-2464.
- Feillet-Coudray C, Meunier N, Rambeau M, et al. Long-term moderate zinc supplementation increases exchangeable zinc pool masses in late-middle-aged men: the Zenith Study. *Am J Clin Nutr* 2005;82(1):103-110.
- Fischer PWF, Giroux A, L'Abbe MR. Effect of zinc supplementation on copper status in adult man. *Am J Clin Nutr* 1984;40(4):743-746.
- Floersheim GL, Lais E. Lack of effect of oral zinc sulfate on wound healing in leg ulcer. *Schweiz Med Wochenschr* 1980;110:1138-1145. [German; English abstract]
- Fontaine J, Neve J, Peretz A, et al. Effects of acute and chronic prednisolone treatment on serum zinc levels in rats with adjuvant arthritis. *Agents Actions* 1991;33(3-4):247-253.
- Fortes C, Agabiti N, Fano V, et al. Zinc supplementation and plasma lipid peroxides in an elderly population. *Eur J Clin Nutr* 1997;51(2):97-101.
- Fortes C, Forastiere F, Agabiti N, et al. The effect of zinc and vitamin A supplementation on immune response in an older population. *J Am Geriatr Soc* 1998;46(1):19-26.
- Fosmire GJ. Zinc toxicity. *Am J Clin Nutr* 1990;51(2):225-227.
- Fraker PJ. Roles for cell death in zinc deficiency. *J Nutr* 2005;135(3):359-362.
- Fraker PJ, Gershwin ME, Good RA. Interrelationships between zinc and immune function. *Fed Proc* 1986;45(5):1474-1479. (Review)
- Fraker PJ, King LE, Laakkko T, et al. The dynamic link between the integrity of the immune system and zinc status. *J Nutr* 2000;130(5S Suppl):1399S-406S. (Review)
- Freake HC. Molecular biological approaches to studying trace minerals: why should clinicians care? *J Am Coll Nutr* 1993;12(3):294-302.
- Frederickson CJ. Neurobiology of zinc and zinc-containing neurons. *Int Rev Neurobiol* 1989;31:145-238.
- Frederickson CJ, Danscher G. Zinc-containing neurons in hippocampus and related CNS structures. *Prog Brain Res* 1990;83:71-84.
- Frederickson CJ, Koh J-Y, Bush AI. The neurobiology of zinc in health and disease. *Nat Rev* 2005;6:449-462. (Review)
- Frederickson CJ, Suh SW, Silva D, et al. Importance of zinc in the central nervous system: the zinc-containing neuron. *J Nutr* 2000;130(5S Suppl):1471S-83S. (Review)
- Freeland-Graves JH. Manganese: an essential nutrient for humans. *Nutr Today* 1988;23:13-19.
- Frommer DJ. The healing of gastric ulcers by zinc sulphate. *Med J Aust* 1975;2:793-796.

Citations and Reference Literature: Zinc

- Fung EB, Ritchie LD, Woodhouse LR, et al. Zinc absorption in women during pregnancy and lactation: a longitudinal study. *Am J Clin Nutr* 1997;66(1):80-88.
- Garcia-Plaza A, Arenas JI, Belda O, et al. A multicenter clinical trial. Zinc acexamate versus famotidine in the treatment of acute duodenal ulcer. *Rev Esp Enferm Dig* 1996;88:757-762. [Spanish; English abstract]
- Gardner EM, Bernstein ED, Popoff KA, et al. Immune response to influenza vaccine in healthy elderly: lack of association with plasma beta-carotene, retinol, alpha-tocopherol, or zinc. *Mech Ageing Dev* 2000;117(1-3):29-45.
- Gardner JM, Powell CA, Baker-Henningham H, et al. Zinc supplementation and psychosocial stimulation: effects on the development of undernourished Jamaican children. *Am J Clin Nutr* 2005;82(2):399-405.
- Garland ML, Hagmeyer KO. The role of zinc lozenges in treatment of the common cold. *Ann Pharmacother* 1998;32:63-69. (Review)
- Gazaryan IG, Krasnikov BF, Ashby GA, et al. Zinc is a potent inhibitor of thiol oxidoreductase activity and stimulates reactive oxygen species production by lipoamide dehydrogenase. *J Biol Chem* 2002;277(12):10064-10072.
- Gersdorff M, Robillard T, Stein F, et al. The zinc sulfate overload test in patients suffering from tinnitus associated with low serum zinc: preliminary report. *Acta Otorhinolaryngol Belg* 1987;41:498-505. [French; English abstract]
- Gibson RS. Zinc: a critical nutrient in growth and development. *N Z Med J* 1998;111(1061):63-64.
- Gibson RS. Zinc nutrition in developing countries. *Nutr Res Rev* 1994;7:151-173. (Review)
- Gibson RS. Zinc supplementation for infants. *Lancet* 2000;355:2008-2009.
- Gibson RS, Donovan UM, Heath AL. Dietary strategies to improve the iron and zinc nutriture of young women following a vegetarian diet. *Plant Foods Hum Nutr* 1997;51(1):1-16.
- Gibson RS, Heywood A, Yaman C, et al. Growth in children from the Wosera subdistrict, Papua New Guinea, in relation to energy and protein intakes and zinc status. *Am J Clin Nutr* 1991;53(3):782-789.
- Gibson RS, Huddle JM. Suboptimal zinc status in pregnant Malawian women: its association with low intakes of poorly available zinc, frequent reproductive cycling, and malaria. *Am J Clin Nutr* 1998;67(4):702-709.
- Giles L, Smiciklas-Wright H, Fosmire G, et al. Variations in plasma zinc in older men and women. *Biol Trace Elem Res* 1994;41(3):235-243.
- Girodon F, Blache D, Monget AL, et al. Effect of a two-year supplementation with low doses of antioxidant vitamins and/or minerals in elderly subjects on levels of nutrients and antioxidant defense parameters. *J Am Coll Nutr* 1997;16(4):357-365.
- Girodon F, Lombard M, Galan P, et al. Effect of micronutrient supplementation on infection in institutionalized elderly subjects: a controlled trial. *Ann Nutr Metab* 1997;41(2):98-107.
- Godfrey HR, Godfrey NJ, Godfrey JC, et al. A randomized clinical trial on the treatment of oral herpes with topical zinc oxide/glycine. *Altern Ther Health Med* 2001;7(3):49-54,56.
- Goldblum SE, Cohen DA, Jay M, et al. Interleukin 1-induced depression of iron and zinc: role of granulocytes and lactoferrin. *Am J Physiol* 1987;252:E27-E32.
- Goldenberg RL, Tamura T, Neggers Y, et al. The effect of zinc supplementation on pregnancy outcome. *JAMA* 1995;274(6):463-468.
- Golik A, Cohen N, Ramot Y, et al. Type II diabetes mellitus, congestive heart failure, and zinc metabolism. *Biol Trace Elem Res* 1993;39(2-3):171-175.
- Gonick P, Oberleas D, Knechtges T, et al. Atomic absorption spectrophotometric determination of zinc in the prostate. *Invest Urol* 1969;6:345-347.
- Goode HF, Penn ND, Kelleher J, et al. Evidence of cellular zinc depletion in hospitalized but not in healthy elderly subjects. *Age Ageing* 1991;20(5):345-348.
- Goode HF, Purkins L, Heatley RV, et al. The effect of dietary vitamin E deficiency on plasma zinc and copper concentrations. *Clin Nutr* 1991;10(4):233-235.
- Goransson K, Liden S, Odsell L. Oral zinc in acne vulgaris: a clinical and methodological study. *Acta Derm Venereol* 1978;58:443-448.
- Gordon AR, McKinney P. Sources of nutrients in students' diets. *Am J Clin Nutr* 1995;61(15):S232-S240.
- Goto JJ, Zhu H, Sanchez RJ, et al. Loss of in vitro metal ion binding specificity in mutant copper-zinc superoxide dismutases associated with familial amyotrophic lateral sclerosis. *J Biol Chem* 2000;275:1007-1014.
- Graf WD, Oleinik OE, Glauser TA, et al. Altered antioxidant enzyme activities in children with a serious adverse experience related to valproic acid therapy. *Neuropediatrics* 1998;29(4):195-201.
- Green A, Parker M, Conte D, et al. Zinc finger protein: a bridge between transition metals and gene regulation. *J Trace Elements Exp Med* 1998;11:103-118.
- Griffin IJ, Hicks PD, Liang LK, et al. Metabolic adaptations to low zinc intakes in premenarcheal girls. *Am J Clin Nutr* 2004;80(2):385-390.

Citations and Reference Literature: Zinc

- Guadalupe M, Sankaran S, George MD, et al. Viral suppression and immune restoration in the gastrointestinal mucosa of human immunodeficiency virus type 1-infected patients initiating therapy during primary or chronic infection. *J Virol* 2006;80(16):8236-8247.
- Grüngreiff K, Grüngreiff S, Reinhold D. Zinc deficiency and hepatic encephalopathy: results of a long-term follow-up on zinc supplementation. *J Trace Elem Exp Med* 2000;13:21-31.
- Gueguen S, Pirollet P, Leroy P, et al. Changes in serum retinol, alpha-tocopherol, vitamin C, carotenoids, zinc and selenium after micronutrient supplementation during alcohol rehabilitation. *J Am Coll Nutr* 2003;22(4):303-310.
- Guigoz Y. Recommended dietary allowances (RDA) for the free-living elderly. In: Vellas BJ, Guigoz Y, Garry PJ, et al, eds. *The mini nutritional assessment: MNA: nutrition in the elderly*. Switzerland: Nestec Ltd; 1997:113-143.
- Gupta VL, Chaubey BS. Efficacy of zinc therapy in prevention of crisis in sickle cell anemia: a double blind, randomized controlled clinical trial. *J Assoc Physicians India* 1995;43(7):467-469.
- Gyorkey F, Min KW, Huff JA, et al. Zinc and magnesium in human prostate gland: normal, hyperplastic and neoplastic. *Cancer Res* 1967;27:1348-1353.
- Gyorkey F, Sato CS. In vitro 65Zn-binding capacities of normal, hyperplastic, and carcinomatous human prostate gland. *Exp Mol Pathol* 1968;8:216-224.
- Halbert SC. Diet and nutrition in primary care: from antioxidants to zinc. *Prim Care* 1997;24(4):825-843.
- Hallbrook T, Lanner E. Serum zinc and healing of various leg ulcers. *Lancet* 1972;2:780-782.
- Hallfrisch J, Muller DC. Does diet provide adequate amounts of calcium, iron, magnesium, and zinc in a well-educated adult population? *Exp Gerontol* 1993;28(4-5):473-483.
- Hamadani J, Fuchs G, Osendarp S, et al. Zinc supplementation during pregnancy and effects on mental development and behaviour of infants: a follow-up study. *Lancet* 2002;360(9329):290-294.
- Hambidge KM. Zinc deficiency in young children. *Am J Clin Nutr* 1997;65(1):160-1. Comment in *Am J Clin Nutr* 1997;65(1):13-19. (Editorial)
- Hambidge KM. Zinc in the nutrition of children. *Nestle Nutr WorkshopSer* 1991;23:65-77.
- Hambidge KM. Zinc and pneumonia. *Am J Clin Nutr* 2006;83:991-992. (Editorial)
- Hambidge KM, King JC, Kern DL, et al. Pre-breakfast plasma zinc concentrations: the effect of previous meals. *J Trace Elelctrolytes Health Dis* 1990;4(4):229-231.
- Hambidge KM, Miller L, Naake V. Zinc that exchanges with zinc in plasma within two days: variation with dietary zinc. In: Wastney ME, ed. *Proceedings of mathematical modeling in experimental nutrition IV: trace element/mineral metabolism during development*. Boca Raton, FL: CRC Press; 1992.
- Hambidge M. Human zinc deficiency. *J Nutr* 2000;130(5S Suppl):1344S-1349S.
- Hambidge M. Trace element deficiencies in childhood. In: Suskind RM, Lewinter-Suskind L, eds. *Textbook of pediatric nutrition*. 2nd ed. New York: Raven Press; 1993:115-126.
- Hambidge M, Krebs N. Assessment of zinc status in man. *Indian J Pediatr* 1995;62(2):169-180.
- Hambidge M. Biomarkers of trace mineral intake and status. *J Nutr* 2003;133(Suppl 3):948S-955S. (Review)
- Hambidge M, Krebs N. Zinc and growth. In: Roussel AM, ed. *Trace elements in man and animals 10: proceedings of the Tenth International Symposium on Trace Elements in Man and Animals*. New York: Plenum Press; 2000:977-980.
- Han CM. Changes in body zinc and copper levels in severely burned patients and the effects of oral administration of ZnSO₄ by a double-blind method. *Zhonghua Zheng Xing Shao Shang Ke Za Zhi* 1990;6:83-86,155. [Chinese; English abstract]
- Hansen M, Sandstrom B, Lonnerdal B. The effect of casein phosphopeptides on zinc and calcium absorption from high phytate infant diets assessed in rat pups and Caco-2 cells. *Pediatr Res* 1996;40(4):547-552.
- Hantson P, Lievens M, Mahieu P. Accidental ingestion of a zinc and copper sulfate preparation. *J Toxicol Clin Toxicol* 1996;34(6):725-730.
- Harvey LJ, Dainty JR, Hollands WJ, et al. Effect of high-dose iron supplements on fractional zinc absorption and status in pregnant women. *Am J Clin Nutr* 2007;85(1):131-136.
- Hashim Z, Woodhouse L, King JC. Interindividual variation in circulating zinc concentrations among healthy adult men and women. *Int J Food Sci Nutr* 1996;47(5):383-390.
- Heinitz M. [Clinical biochemical aspects of the prophylaxis and therapy of senile cataract with zinc aspartate.] *Klin Monatsbl Augenheilkd* 1978;172(5):778-783. [German]
- Heinkin RI, Bradley DF. Hypogeusia corrected by nickel and zinc. *Life Sci* 1970;9:701.
- Hemalatha P, Bhaskaram P, Kumar PA, et al. Zinc status of breastfed and formula-fed infants of different gestational ages. *J Trop Pediatr* 1997;43(1):52-54.

Citations and Reference Literature: Zinc

- Hemalatha, Bhaskaram P, Qadri SSYH, et al. Assessment of mild zinc deficiency in children. *Nutr Res* 1993;13(2):115-122.
- Hendricks KM, Walker WA. Zinc deficiency in inflammatory bowel disease. *Nutr Rev* 1988;46(12):401-408.
- Hercberg S, Galan P, Preziosi P, et al. The SU.VI.MAX Study: a randomized, placebo-controlled trial of the health effects of antioxidant vitamins and minerals. *Arch Intern Med* 2004;164:2335-2342.
- High KP. Nutritional strategies to boost immunity and prevent infection in elderly individuals. *Clin Infect Dis* 2001;33(11):1892-1900. (Review)
- Hillstrom L, Pettersson L, Hellbe L, et al. Comparison of oral treatment with zinc sulphate and placebo in acne vulgaris. *Br J Dermatol* 1977;97:681-684.
- Hines Burnham, et al, eds. Drug facts and comparisons. St Louis: Facts and Comparisons; 2000:1295. (Review)
- Hirt M, Nobel S, Barron E. Zinc nasal gel for the treatment of common cold symptoms: a double-blind, placebo-controlled trial. *Ear Nose Throat J* 2000;79(10):778-780;782.
- Hoffman HN II, Phyllyk RL, Fleming CR. Zinc-induced copper deficiency. *Gastroenterology* 1988;94:508-512.
- Hotz C, Brown KH. Identifying populations at risk of zinc deficiency: the use of supplementation trials. *Nutr Rev* 2001;59(3 Pt 1):80-84. (Review)
- Hotz C, Gibson RS, Temple L. A home-based method to reduce phytate content and increase zinc bioavailability in maize-based complementary diets. *Int J Food Sci Nutr* 2001;52(2):133-142.
- Hotz C, Lowe NM, Araya M, et al. Assessment of the trace element status of individuals and populations: the example of zinc and copper. *J Nutr* 2003;133(5 Suppl 1):1563S-1568S.
- Hotz C, Peerson JM, Brown KH. Suggested lower cutoffs of serum zinc concentrations for assessing zinc status: reanalysis of the second National Health and Nutrition Examination Survey data (1976-1980). *Am J Clin Nutr* 2003;78:756-764.
- Hulisz D. Efficacy of zinc against common cold viruses: an overview. *J Am Pharm Assoc* 2004;44(5):594-603.
- Hunt CD, Johnson PE, Herbel J, et al. Effects of dietary zinc depletion on seminal volume and zinc loss, serum testosterone concentrations and sperm morphology in young men. *Am J Clin Nutr* 1992;56:148-157.
- Ibs KH, Rink L. Zinc-altered immune function. *J Nutr* 2003;133(5 Suppl 1):1452S-1456S. (Review)
- Igarashi A, Yamaguchi M. Increase in bone protein components with healing rat fractures: enhancement by zinc treatment. *Int J Mol Med* 1999;4(6):615-620.
- Igic PG, Lee E, Harper W, et al. Toxic effects associated with consumption of zinc. *Mayo Clin Proc* 2002;77:713-716.
- Ilbert M, Graf PC, Jakob U. Zinc center as redox switch-new function for an old motif. *Antioxid Redox Signal* 2006;8(5-6):835-846.
- Itokawa Y. [Trace elements in long-term total parenteral nutrition.] *Nippon Rinsho* 1996;54(1):172-178. [Japanese] (Review)
- Jackson JL, Lesho E, Peterson C. Zinc and the common cold: a meta-analysis revisited. *J Nutr* 2000;130(5S Suppl):1512S-1515S.
- Jackson MJ, Lowe NM. Physiological role of zinc. *Food Chem* 1992;43(3):233-238.
- Jackson ML, Peterson C, Lesho E. A meta-analysis of zinc salts lozenges and the common cold. *Arch Intern Med* 1997;157:2373-2376.
- Jafek BW, Linschoten M, Murrow BW. Zicam induced anosmia. American Rhinologic Society 49th Annual Fall Scientific Meeting, 48-49. Available at <http://app.american-rhinologic.org/programs/2003ARSFallProgram071503.pdf>. Accessed December 12, 2003.
- Jameson S. Zinc status in pregnancy: the effect of zinc therapy on perinatal mortality, prematurity, and placental ablation. *Ann N Y Acad Sci* 1993;678:178-192.
- Job C, Menkes CJ, Delbarre F. Zinc sulphate in the treatment of rheumatoid arthritis. *Arthritis Rheum* 1980;23:1408-1409.
- Jonsson B, Hauge B, Larsen MF, et al. Zinc supplementation during pregnancy: a double blind randomised controlled trial. *Acta Obstet Gynecol Scand* 1996;75:725-729.
- Karayalcin S, Arcasoy A, Uzunalimoglu O. Zinc plasma levels after oral zinc tolerance test in nonalcoholic cirrhosis. *Dig Dis Sci* 1988;33:1096-1102.
- Karyadi E, West CE, Schultink W, et al. A double-blind, placebo-controlled study of vitamin A and zinc supplementation in persons with tuberculosis in Indonesia: effects on clinical response and nutritional status. *Am J Clin Nutr* 2002;75(4):720-727.
- Katz RL, Keen CL, Litt IF, et al. Zinc deficiency in anorexia nervosa. *J Adolesc Health Care* 1987;8:400-406.
- Kauwell GP, Bailey LB, Gregory JF III, et al. Zinc status is not adversely affected by folic acid supplementation and zinc intake does not impair folate utilization in human subjects. *J Nutr* 1995;125(1):66-72.
- Keen CL, Taubeneck MW, Daston GP, et al. Primary and secondary zinc deficiency as factors underlying abnormal CNS development. *Ann N Y Acad Sci* 1993;678:37-47.
- Kim J, Paik HY, Joung H, et al. Zinc supplementation reduces fractional zinc absorption in young and elderly Korean women. *J Am Coll Nutr* 2004;23(4):309-315.
- Kimmel PL, Watkins DW, Teller EB, et al. Zinc balance in combined zinc deficiency and uremia. *Kidney Int* 1988;33(6):1091-1099.

Citations and Reference Literature: Zinc

- King JC. Do women using oral contraceptive agents require extra zinc? *J Nutr* 1987;117(1):217-219.
- King JC, Keen CL. Zinc. In: Shils M, Olson JA, Shike M, et al, eds. *Nutrition in health and disease*. 9th ed. Baltimore: Williams & Wilkins; 1999:223-239.
- King JC, Shames DM, Lowe NM, et al. Effect of acute zinc depletion on zinc homeostasis and plasma zinc kinetics in men. *Am J Clin Nutr* 2001;74(1):116-124.
- Kishore V. Effects of copper aspirinate and aspirin on tissue copper, zinc, and iron concentrations following chronic oral treatment in the adjuvant arthritic rat. *Biol Trace Elem Res* 1990;25(2):123-135.
- Kordas K, Stoltzfus RJ. New evidence of iron and zinc interplay at the enterocyte and neural tissues. *J Nutr* 2004;134(6):1295-1298. (Review)
- Kotsaki-Kovatsi VP, Koehler-Samouilidis G, Kovatsis A, et al. Fluctuation of zinc, copper, magnesium and calcium concentrations in guinea pig tissues after administration of captopril (SQ 14225). *J Trace Elem Med Biol* 1997;11(1):32-36.
- Krebs NF, Hambidge KM, Westcott JE, et al. Exchangeable zinc pool size in infants is related to key variables of zinc homeostasis. *J Nutr* 2003;133(5 Suppl 1):1498S-1501S.
- Krebs NF, Westcott JL, Rodden DJ, et al. Exchangeable zinc pool size at birth is smaller in small-for-gestational-age than in appropriate-for-gestational-age preterm infants. *Am J Clin Nutr* 2006;84:1340-1343.
- Krotiewski M, Gudmundson M, Backstrom P, et al. Zinc and muscle strength and endurance. *Acta Physiol Scand* 1982;116:309-311.
- Kurekci AE, Alpay F, Tanindi S, et al. Plasma trace element, plasma glutathione peroxidase, and superoxide dismutase levels in epileptic children receiving antiepileptic drug therapy. *Epilepsia* 1995;36(6):600-604.
- L'Abbe MR, Fischer PW. The effects of dietary zinc on the activity of copper-requiring metalloenzymes in the rat. *J Nutr* 1984;114(5):823-828.
- L'Abbe MR, Fischer PW. The effects of high dietary zinc and copper deficiency on the activity of copper-requiring metalloenzymes in the growing rat. *J Nutr* 1984;114(5):813-822.
- Lai H, Lai S, Shor-Posner G, et al. Plasma zinc, copper, copper:zinc ratio, and survival in a cohort of HIV-1-infected homosexual men. *J Acquir Immune Defic Syndr* 2001;27(1):56-62.
- Lammich S, Kojro E, Postina R, et al. Constitutive and regulated alpha-secretase cleavage of Alzheimer's amyloid precursor protein by a disintegrin metalloprotease. *Proc Natl Acad Sci U S A* 1999;96(7):3922-3927.
- Lask B, Fosson A, Rolfe U, et al. Zinc deficiency and childhood-onset anorexia nervosa. *J Clin Psychiatry* 1993;54:63-66.
- Leake A, Chrisholm GD, Busuttil A, et al. Subcellular distribution of zinc in the benign and malignant human prostate: evidence for a direct zinc androgen interaction. *Acta Endocrinol (Copenh)* 1984;105(2):281-288.
- Leake A, Chisholm GD, Habib FK. The effect of zinc on the 5 alpha-reduction of testosterone by the hyperplastic human prostate gland. *J Steroid Biochem* 1984;20(2):651-655.
- Lee JY, Cole TB, Palmiter RD, et al. Contribution by synaptic zinc to the gender-disparate plaque formation in human Swedish mutant APP transgenic mice. *Proc Natl Acad Sci U S A* 2002;99(11):7705-7710.
- Leitzmann MF, Stampfer MJ, Wu K, et al. Zinc supplement use and risk of prostate cancer. *J Natl Cancer Inst* 2003;95(13):1004-1007.
- Li RC, Lo KN, Lam JS, et al. Effects of order of magnesium exposure on the postantibiotic effect and bactericidal activity of ciprofloxacin. *J Chemother* 1999;11(4):243-247.
- Liang JY, Liu YY, Zou J, et al. Inhibitory effect of zinc on human prostatic carcinoma cell growth. *Prostate* 1999;40(3):200-207.
- Licastro F, Moccagiani E, Masi M, et al. Modulation of the neuroendocrine system and immune functions by zinc supplementation in children with Down's syndrome. *J Trace Elem Electrolytes Health Dis* 1993;7:237-239.
- Lim D, McKay M. Food-drug interactions. Drug information bulletin. UCLA Department Pharmaceut Serv 1995;15(2). (Review)
- Locatelli C, Torsi G. Heavy metal determination in aquatic species for food purposes. *Ann Chim* 2001;91(1-2):65-72.
- Lockitch G, Puterman M, Godolphin W, et al. Infection and immunity in Down syndrome: a trial of long-term low oral doses of zinc. *J Pediatr* 1989;114:781-787.
- Loeffel E, Koya D. Cutaneous manifestations of gastrointestinal disease. *Cutis* 1978;21: 852-861.
- Lokken PM, Halas ES, Sandstead HH. Influence of zinc deficiency on behavior. *Proc Soc Exp Biol Med* 1973;144(2):680-682.
- Lonnerdal B. Dietary factors influencing zinc absorption. *J Nutr* 2000;130(5S Suppl):1378S-1383S.
- Lovell MA, Robertson JD, Teesdale WJ, et al. Copper, iron and zinc in Alzheimer's disease senile plaques. *J Neurol Sci* 1998;158:47-52.
- Lowe NM, Woodhouse LR, Sutherland B, et al. Kinetic parameters and plasma zinc concentration correlate well with net loss and gain of zinc from men. *J Nutr* 2004;134(9):2178-2181.
- Lukaski HC. Magnesium, zinc, and chromium nutriture and physical activity. *Am J Clin Nutr* 2000;72(2 Suppl):585S-593S. (Review)
- Lukaski HC, Bolonchuk WW, Klevay LM, et al. Interactions among dietary fat, mineral status, and performance of endurance athletes: a case study. *Int J Sport Nutr Exerc Metab* 2001;11(2):186-198.

Citations and Reference Literature: Zinc

- Lutz G. The value of zinc in treatment of alopecia areata. Second Meeting of the European Hair Research Society. Bologna, Apr 14, 1991.
- Lyons TJ, Liu H, Goto JJ, et al. Mutations in copper-zinc superoxide dismutase that cause amyotrophic lateral sclerosis alter the zinc binding site and the redox behavior of the protein. *Proc Natl Acad Sci U S A* 1996;93:12240-12244.
- MacDonald RS. The role of zinc in growth and cell proliferation. *J Nutr* 2000;130(5S Suppl):1500S-1508S.
- Macknin ML. Zinc lozenges for the common cold. *Cleve Clin J Med* 1999;66:27-31.
- Macknin ML, Piedmonte M, Calendine C, et al. Zinc gluconate lozenges for treating the common cold in children: a randomized controlled trial. *JAMA* 1998;279(24):1962-1967.
- Mahabir S, Spitz MR, Barrera SL, et al. Dietary zinc, copper and selenium, and risk of lung cancer. *Int J Cancer* 2006. Epub ahead of print.
- Mahajan SK, Abbasi AA, Prasad AS, et al. Effect of oral zinc therapy on gonadal function in hemodialysis patients: a double-blind study. *Ann Intern Med* 1982;97:357-361.
- Mares-Perlman JA, Klein R, Klein BE, et al. Association of zinc and antioxidant nutrients with age-related maculopathy. *Arch Ophthalmol* 1996;114:991-997.
- Maret W, Sandstead HH. Zinc requirements and the risks and benefits of zinc supplementation. *J Trace Elem Med Biol* 2006;20(1):3-18. (Review)
- Marshall S. Zinc gluconate and the common cold: review of randomized controlled trials. *Can Fam Physician* 1998;44:1037-1042. (Review)
- Martin CJ, Le XC, Guidotti TL, et al. Zinc exposure in Chinese foundry workers. *Am J Ind Med* 1999;35(6):574-580.
- Marz R. Medical nutrition from Marz. 2nded. Portland, OR: Omni Press; 1997. (Review)
- Mattingly PC, Mowat AG. Zinc sulphate in rheumatoid arthritis. *Ann Rheum Dis* 1982;41:456-457.
- Mazariegos M, Hambidge KM, Krebs NF, et al. Zinc absorption in Guatemalan schoolchildren fed normal or low-phytate maize. *Am J Clin Nutr* 2006;83:59-64.
- McBride K, Slotnick B, Margolis FL. Does intranasal application of zinc sulfate produce anosmia in the mouse? An olfactometric and anatomical study. *Chem Senses* 2003;28(8):659-670.
- McCall KA, Huang C, Fierke CA. Function and mechanism of zinc metalloenzymes. *J Nutr* 2000;130(5S Suppl):1437S-1446S. (Review)
- McElroy BH, Miller SP. Effectiveness of zinc gluconate glycine lozenges (Cold-Eeze) against the common cold in school-aged subjects: a retrospective chart (review). *Am J Ther* 2002;9:472-475.
- McMahon RJ, Cousins RJ. Mammalian zinc transporters. *J Nutr* 1998;128:667-670.
- McMahon RJ, Cousins RJ. Regulation of the zinc transporter ZnT-1 by dietary zinc. *Proc Natl Acad Sci U S A* 1998;95:4841-4846.
- McKenna AA, Ilich JZ, Andon MB, et al. Zinc balance in adolescent females consuming a low- or high-calcium diet. *Am J Clin Nutr* 1997;65(5):1460-1464.
- Mellan FA, Sandstrom B, eds. Stable isotopes in human nutrition. London: Academic Press; 1996.
- Merchant HW, Gangarosa LP, Glassman AB, et al. Zinc sulfate supplementation for treatment of recurring oral ulcers. *South Med J* 1977;70(5):559-561.
- Meyer F, Galan P, Douville P, et al. Antioxidant vitamin and mineral supplementation and prostate cancer prevention in the SU.VI.MAX trial. *Int J Cancer* 2005;116(2):182-186.
- Meynadier J. Efficacy and safety study of two zinc gluconate regimens in the treatment of inflammatory acne. *Eur J Dermatol* 2000;10:269-273.
- Michaelsson G, Juhlin L, Vahlquist A. Effects of oral zinc and vitamin A in acne. *Arch Dermatol* 1977;113:31-36.
- Michaelsson G, Ljunghall K. Patients with dermatitis herpetiformis, acne, psoriasis and Darier's disease have low epidermal zinc concentrations. *Acta Derm Venereol* 1990;70(4):304-308.
- Michaelsson G, Vahlquist A, Juhlin L. Serum zinc and retinol-binding protein in acne. *Br J Dermatol* 1977;96:283-286.
- Miller LV, Krebs NF, Hambidge KM. Development of a compartmental model of human zinc metabolism: identifiability and multiple studies analyses. *Am J Physiol Regul Integrative Comp Physiol* 2000;279:R1681-R1684.
- Mills CF, ed. Zinc in human biology. London: Springer-Verlag; 1989.
- Milne DB, Canfield WK, Mahalko JR, et al. Effect of oral folic acid supplements on zinc, copper, and iron absorption and excretion. *Am J Clin Nutr* 1984;39(4):535-539.
- Milne DB, Ralston NV, Wallwork JC. Zinc content of cellular components of blood: methods for cell separation and analysis evaluated. *Clin Chem* 1985;31:65-69.

Citations and Reference Literature: Zinc

- Milne DB, Ralston NV, Wallwork JC. Zinc content of blood cellular components and lymph node and spleen lymphocytes in severely zinc-deficient rats. *J Nutr* 1985;115:1073-1078.
- Mocchegiani E, Bertoni-Freddari C, Marcellini F, et al. Brain, aging and neurodegeneration: role of zinc ion availability. *Prog Neurobiol* 2005;75(6):367-390. (Review)
- Mocchegiani E, Giacconi R, Cipriano C, et al. Are zinc-bound metallothionein isoforms (I+II and III) involved in impaired thymulin production and thymic involution during ageing? *Immun Ageing* 2004;1(1):5.
- Mocchegiani E, Giacconi R, Muti E, et al. Zinc, immune plasticity, aging, and successful aging: role of metallothionein. *Ann N Y Acad Sci* 2004;1019:127-134. (Review)
- Mocchegiani E, Giacconi R, Cipriano C, et al. Zinc-bound metallothioneins as potential biological markers of ageing. *Brain Res Bull* 2001;55(2):147-153. (Review)
- Mocchegiani E, Giacconi R, Muzzioli M, et al. Zinc, infections and immunosenescence. *Mech Ageing Dev* 2000;121(1-3):21-35. Erratum in *Mech Ageing Dev* 2001;122(3):353. (Review)
- Mocchegiani E, Marcellini F, Pawelec G. Nutritional zinc, oxidative stress and immunosenescence: biochemical, genetic, and lifestyle implications for healthy ageing. *Biogerontology* 2004;5(4):271-273.
- Mocchegiani E, Muzzioli M. Therapeutic application of zinc in human immunodeficiency virus against opportunistic infections. *J Nutr* 2000;130(5S Suppl):1424S-31S. (Review)
- Mocchegiani E, Muzzioli M, Giacconi R. Zinc and immunoresistance to infection in aging: new biological tools. *Trends Pharmacol Sci* 2000;21(6):205-208. (Review)
- Mocchegiani E, Rivabene R, Santini MT. Benefit of oral zinc supplementation as an adjunct to zidovudine (AZT) therapy against opportunistic infections in AIDS. *Int J Immunopharmacol* 1995;17:719-727.
- Moroni F, Di Paolo ML, Rigo A, et al. Interrelationship among neutrophil efficiency, inflammation, antioxidant activity and zinc pool in very old age. *Biogerontology* 2005;6(4):271-281.
- Mossad SB. Effect of zincum gluconicum nasal gel on the duration and symptom severity of the common cold in otherwise healthy adults. *QJM* 2003;96(1):35-43.
- Mossad SB, Macknin ML, Medendorp SV, et al. Zinc gluconate lozenges for treating the common cold. *Ann Int Med* 1996;125(2):81-88.
- Mukherjee MD, Sandstead HH, Ratnaparkhi MV, et al. Maternal zinc, iron, folic acid, and protein nutriture and outcome of human pregnancy. *Am J Clin Nutr* 1984;40(3):496-507.
- Mulder TP, van der Sluys Veer A, Verspaget HW, et al. Effect of oral zinc supplementation on metallothionein and superoxide dismutase concentrations in patients with inflammatory bowel disease. *J Gastroenterol Hepatol* 1994;9:472-477.
- Muller O, Becher H, van Zweeden AB, et al. Effect of zinc supplementation on malaria and other causes of morbidity in west African children: randomised double blind placebo controlled trial. *BMJ* 2001;322(7302):1567.
- Muñoz EC, Rosado JL, Lopez P, et al. Iron and zinc supplementation improves indicators of vitamin A status of Mexican preschoolers. *Am J Clin Nutr* 2000;71:789-794.
- Nakamura T, Higashi A, Nishiyama S. Kinetics of zinc status in children with IDDM. *Diabetes Care* 1991;14(7):553-557.
- Navert B, Sandstrom B, Cederblad A. Reduction of the phytate content of bran by leavening in bread and its effect on zinc absorption in man. *Br J Nutr* 1985;53:47-53.
- Neal DE Jr, Kaack MB, Fussell EN, et al. Changes in seminal fluid zinc during experimental prostatitis. *Urol Res* 1993;21:71-74.
- Netter A, Hartoma R, Nahoul K. Effect of zinc administration on plasma testosterone, dihydrotestosterone, and sperm count. *Arch Androl* 1981;7(1):69-73.
- Neve J, Hanocq M, Peretz A, et al. Pharmacokinetic study of orally administered zinc in humans: evidence for an enteral recirculation. *Eur J Drug Metab Pharmacokinet* 1991;16(4):315-323.
- Newhouse IJ, Clement DB, Lai C. Effects of iron supplementation and discontinuation on serum copper, zinc, calcium, and magnesium levels in women. *Med Sci Sports Exerc* 1993;25(5):562-571.
- Newsome DA, Swartz M, Leone NC, et al. Oral zinc in macular degeneration. *Arch Ophthalmol* 1988;106(2):192-198.
- Nibuya M, Morinobu S, Duman RS. Regulation of BDNF and trkB mRNA in rat brain by chronic electroconvulsive seizure and antidepressant drug treatments. *J Neurosci* 1995;15(11):7539-7547.
- Nishiyama S, Irisa K, Matsubasa T, et al. Zinc status relates to hematological deficits in middle-aged women. *J Am Coll Nutr* 1998;17:291-295.
- Nordstrom J. Trace mineral nutrition in the elderly. *Am J Clin Nutr* 1982;36:788-795.
- Norregaard L, Frederiksen D, Nielsen EO, et al. Delineation of an endogenous zinc binding site in the human dopamine transporter. *EMBO J* 1998;17:4266-4273.

Citations and Reference Literature: Zinc

- Nowak G. Does interaction between zinc and glutamate system play a significant role in the mechanism of antidepressant action? *Acta Pol Pharm* 2001;58(1):73-75. (Review)
- Nowak G, Kubera M, Maes M. Neuroimmunological aspects of the alterations in zinc homeostasis in the pathophysiology and treatment of depression. *Acta Neuropsychiatr* 2000;12:49-53.
- Nowak G, Legutko B, Szewczyk B, et al. Zinc treatment induces cortical brain-derived neurotrophic factor gene expression. *Eur J Pharmacol* 2004;492(1):57-59.
- Nowak G, Szewczyk B. Mechanisms contributing to antidepressant zinc actions. *Pol J Pharmacol* 2002;54(6):587-592. (Review)
- Nowak G, Szewczyk B, Pilc A. Zinc and depression: an update. *Pharmacol Rep* 2005;57(6):713-718.
- Nowak G, Szewczyk B, Wieronska JM, et al. Antidepressant-like effects of acute and chronic treatment with zinc in forced swim test and olfactory bulbectomy model in rats. *Brain Res Bull* 2003;61(2):159-164.
- Nowak G, Zieba A, Dudek D, et al. [Zinc homeostasis and glutamatergic system in the pathogenesis and treatment of depression.] *Psychiatr Pol* 2001;35(2):257-266. [Polish] (Review)
- O'Dell BL. Role of zinc in plasma membrane function. *J Nutr* 2000;130(5S Suppl):1432S-1436S.
- Ochi K, Kinoshita H, Kenmochi M, et al. Zinc deficiency and tinnitus. *Auris Nasus Larynx* 2003;30(Suppl):25-28.
- Odeh M. The role of zinc in acquired immunodeficiency syndrome. *J Intern Med* 1992;231:463-469. (Review)
- Orris L, Shalita AR, Sibulkin D, et al. Oral zinc therapy of acne: absorption and clinical effect. *Arch Dermatol* 1978;114:1018-1020.
- Osendarp SJ, van Raaij JM, Arifeen SE, et al. A randomized, placebo-controlled trial of the effect of zinc supplementation during pregnancy on pregnancy outcome in Bangladeshi urban poor. *Am J Clin Nutr* 2000;71(1):114-119.
- Paaske PB, Pederson CB, Kjems G, et al. Zinc therapy of tinnitus: a placebo-controlled study. *Ugeskr Laeger* 1990;152:2473-2475. [Danish; English abstract]
- Pandey SI, Bhattacharya SK, Sundar S. Zinc in rheumatoid arthritis. *Indian J Med Res* 1985;81:618-620.
- Partida-Hernandez G, Arreola F, Fenton B, et al. Effect of zinc replacement on lipids and lipoproteins in type 2-diabetic patients. *Biomed Pharmacother* 2006;60(4):161-168.
- Peretz A, Cantinieaux B, Neve J, et al. Effects of zinc supplementation on the phagocytic functions of polymorphonuclears in patients with inflammatory rheumatic diseases. *J Trace Elem Electrolytes Health Dis* 1994;8(3-4):189-194.
- Peretz A, Neve J, Jeghers O, et al. Zinc distribution in blood components, inflammatory status, and clinical indexes of disease activity during zinc supplementation in inflammatory rheumatic diseases. *Am J Clin Nutr* 1993;57:690-694.
- Petrus EJ, Lawson KA, Bucci LR, et al. Randomized, double-masked, placebo-controlled clinical study of the effectiveness of zinc acetate lozenges on common cold symptoms in allergy-tested subjects. *Curr Ther Res* 1998;59:595-607.
- Pfeiffer C. Mental and elemental nutrients. New Canaan, CT: Keats Pub; 1975.
- Piddock HG, Wren PJ, Evans DA. Plasma zinc and copper in diabetes mellitus. *Diabetes* 1970;19(4):234-239.
- Pinna K, Woodhouse LR, Sutherland B, et al. Exchangeable zinc pool masses and turnover are maintained in healthy men with low zinc intakes. *J Nutr* 2001;131(9):2288-2294.
- Pohit J, Saha KC, Pal B. Zinc status of acne vulgaris patients. *J Appl Nutr* 1985;37:18-25.
- Powanda MC. Host metabolic alterations during inflammatory stress as related to nutritional status. *Am J Vet Res* 1980;41:1905-1911.
- Prasad A. Discovery of human zinc deficiency and studies in an experimental human model. *Am J Clin Nutr* 1991;53:403-412. (Review)
- Prasad AS. Zinc in growth and development and spectrum of human zinc deficiency. *J Am Coll Nutr* 1988;7:377-384. (Review)
- Prasad AS. Role of zinc in human health. *Bol Asoc Med P R* 1991;83:558-560.
- Prasad AS. Zinc deficiency in humans: a neglected problem. *J Am Coll Nutr* 1998;17(6):542-543.
- Prasad AS, Fitzgerald JT, Bao B, et al. Duration of symptoms and plasma cytokine levels in patients with the common cold treated with zinc acetate: a randomized, double-blind, placebo-controlled trial. *Ann Intern Med* 2000;133(4):245-252.
- Prasad AS, Halsted JA, Nadimi M. Syndrome of iron deficiency anemia, hepatosplenomegaly, hypogonadism, dwarfism, and geophagia. *Am J Med* 1961;31:532-546.
- Pullen FW II, Pories WJ, Strain WH. Delayed healing: the rationale for zinc therapy. *Laryngoscope* 1971;81(10):1638-1649.
- Rahman MJ, Sarker P, Roy SK, et al. Effects of zinc supplementation as adjunct therapy on the systemic immune responses in shigellosis. *Am J Clin Nutr* 2005;81(2):495-502.
- Rahman MM, Wahed MA, Fuchs GJ, et al. Synergistic effect of zinc and vitamin A on the biochemical indexes of vitamin A nutrition in children. *Am J Clin Nutr* 2002;75(1):92-98.
- Rasker JJ, Kardaun SH. Lack of beneficial effect of zinc sulphate in rheumatoid arthritis. *Scand J Rheumatol* 1982;11:168-170.
- Rauscher AM, Fairweather-Tait SJ, Wilson PD, et al. Zinc metabolism in non-insulin dependent diabetes mellitus. *J Trace Elem Med Biol* 1997;11:65-70.

Citations and Reference Literature: Zinc

- Relea P, Revilla M, Ripoll E, et al. Zinc, biochemical markers of nutrition, and type-I osteoporosis. *Age Ageing* 1995;24:303-307.
- Reunanen A, Knekt P, Marniemi J, et al. Serum calcium, magnesium, copper and zinc and risk of cardiovascular death. *Eur J Clin Nutr* 1996;50(7):431-437.
- Rink L, Gabriel P. Zinc and the immune system. *Proc Nutr Soc* 2000;59(4):541-552. (Review)
- Rink L, Gabriel P. Extracellular and immunological actions of zinc. *Biometals* 2001;14(3-4):367-383. (Review)
- Riordan JF. Biochemistry of zinc. *Med Clin North Am* 1976;60(4):661-674.
- Ripamonti C, Zecca E, Brunelli C, et al. A randomized, controlled clinical trial to evaluate the effects of zinc sulfate on cancer patients with taste alterations caused by head and neck irradiation. *Cancer* 1998;82:1938-1945.
- Robinson C, Weigly E. Basic nutrition and diet therapy. New York: Macmillan; 1984.
- Rodger RS, Sheldon WL, Watson MJ, et al. Zinc deficiency and hyperprolactinaemia are not reversible causes of sexual dysfunction in uremia. *Nephrol Dial Transplant* 1989;4:888-892.
- Rogers SA. Zinc deficiency as a model for developing chemical sensitivity. *Int Clin Nutr Rev* 1990;10:253-258.
- Roe DA. Drug-induced nutritional deficiencies. 2nd ed. Westport, CT: Avi Publishing; 1985. (Review)
- Roe DA. Essential hyperlipidemia with xanthomatosis: effects of cholestyramine and clofibrate. *Arch Dermatol* 1968;97(4):436-445.
- Roe DA. Risk factors in drug-induced nutritional deficiencies. In: Roe DA, Campbell T, eds. Drugs and nutrients: the interactive effects. New York: Marcel Decker; 1984:505-523. (Review)
- Roijen SB, Worsaae U, Zlotnik G. Zinc in patients with anorexia nervosa. *Ugeskr Laeger* 1991;153:721-723. [Danish; English abstract]
- Ruz M, Cavan KR, Bettger WJ, et al. Development of a dietary model for the study of mild zinc deficiency in humans and evaluation of some biochemical and functional indices of zinc status. *Am J Clin Nutr* 1991;53(5):1295-1303.
- Ruz M, Cavan KR, Bettger WJ, et al. Indices of iron and copper status during experimentally induced, marginal zinc deficiency in humans. *Biol Trace Elem Res* 1992;34(2):197-212.
- Ruz M, Cavan KR, Bettger WJ, et al. Erythrocytes, erythrocyte membranes, neutrophils and platelets as biopsy materials for the assessment of zinc status in humans. *Br J Nutr* 1992;68:515-527.
- Safai-Kutti S. Oral zinc supplementation in anorexia nervosa. *Acta Psychiatr Scand Suppl* 1990;361:14-17.
- Salgueiro MJ, Zubillaga M, Lysionek A, et al. Zinc status and immune system relationship: a review. *Biol Trace Elem Res* 2000;76(3):193-205.
- Saltman PD, Strause LG. The role of trace minerals in osteoporosis. *J Am Coll Nutr* 1993;12(4):384-389.
- Sandstead HH. Assessment of zinc nutriture. *J Lab Clin Med* 1991;118(4):299-300.
- Sandstead HH. Causes of iron and zinc deficiencies and their effects on brain. *J Nutr* 2000;130(2S Suppl):347S-349S. (Review)
- Sandstead HH. Copper bioavailability and requirements. *Am J Clin Nutr* 1982;35(4):809-814. (Review)
- Sandstead HH. Is zinc deficiency a public health problem? *Nutrition* 1995;11(1 Suppl):87-92. (Review)
- Sandstead HH. Requirements and toxicity of essential trace elements, illustrated by zinc and copper. *Am J Clin Nutr* 1995;61(3 Suppl):621S-624S. (Review)
- Sandstead HH. Zinc as an unrecognized limiting nutrient. *Am J Clin Nutr* 1973;26(8):790-791.
- Sandstead HH. Zinc treatment of Wilson's disease. *J Lab Clin Med* 1989;114(6):615-616.
- Sandstead HH. Zinc interference with copper metabolism. *JAMA* 1978;240(20):2188.
- Sandstead HH. Zinc nutrition in the United States. *Am J Clin Nutr* 1973;26(11):1251-1260. (Review)
- Sandstead HH, Alcock NW. Zinc: an essential and unheralded nutrient. *J Lab Clin Med* 1997;130(2):116-118.
- Sandstead HH, Dintzis FR, Bogyo TP, et al. Dietary factors that can impair calcium and zinc nutriture of the elderly. *Prog Clin Biol Res* 1990;326:241-262. (Review)
- Sandstead HH, Egger NG. Is zinc nutriture a problem in persons with diabetes mellitus? *Am J Clin Nutr* 1997;66(3):681-682.
- Sandstead HH, Frederickson CJ, Penland JG. History of zinc as related to brain function. *J Nutr* 2000;130(2S Suppl):496S-502S.
- Sandstead HH, Howard L. Zinc deficiency in Crohn's disease. *Nutr Rev* 1982;40(4):109-112. (Review)
- Sandstead HH, Munoz JM, Jacob RA, et al. Influence of dietary fiber on trace element balance. *Am J Clin Nutr* 1978;31(10 Suppl):S180-S184.
- Sandstead HH, Penland JG, Alcock NW, et al. Effects of repletion with zinc and other micronutrients on neuropsychologic performance and growth of Chinese children. *Am J Clin Nutr* 1998;68(2 Suppl):470S-475S.
- Sandstead HH, Smith JC Jr. Deliberations and evaluations of approaches, endpoints and paradigms for determining zinc dietary recommendations. *J Nutr* 1996;126(9 Suppl):2410S-2418S.
- Sandstrom B, Davidsson L, Cederblad A, et al. Oral iron, dietary ligands and zinc absorption. *J Nutr* 1985;115:411-414.

Citations and Reference Literature: Zinc

- Sandstrom B, Davidsson L, Eriksson R, et al. Effect of long-term trace element supplementation on blood trace element levels and absorption of (75Se), (54Mn) and (65Zn). *J Trace Elem Electrolytes Health Dis* 1990;4:65-72.
- Sandstrom BM. Diagnosis of zinc deficiency and excess in individuals and populations. *Food Nutr Bull* 2001;22:133-137.
- Santucci B, Cristaudo A, Mehraban M, et al. ZnSO₄ treatment of NiSO₄-positive patients. *Contact Dermatitis* 1999;40:281-282.
- Sazawal S, Black RE, Jalla S, et al. Zinc supplementation reduces the incidence of acute lower respiratory infections in infants and preschool children: a double-blind, controlled trial. *Pediatrics* 1998;102:1-5.
- Schauss AG. Diet, crime, and delinquency. Berkeley: Parker House; 1980.
- Schetz JA, Sibley DR. Zinc allosterically modulates antagonist binding to cloned D1 and D2 dopamine receptors. *J Neurochem* 1997;68:1990-1997.
- Schmidt LE, Arfken CL, Heins JM. Evaluation of nutrient intake in subjects with non-insulin-dependent diabetes mellitus. *J Am Diet Assoc* 1994;94:773-774.
- Scholmerich J, Lohla E, Gerok W. Zinc and vitamin A deficiency in liver cirrhosis. *Hepatogastroenterology* 1983;30:119-25.
- Schrodt GR, Hall T, Whitmore WF. The concentration of zinc in diseased human prostate glands. *Cancer* 1964;17:1555-1566.
- Scott KC, Turnlund JR. A compartmental model of zinc metabolism in adult men used to study effects of three levels of dietary copper. *Am J Physiol* 1994;267:E165-E173.
- Serjeant GR, Galloway RE, Gueri MC. Oral zinc sulphate in sickle-cell ulcers. *Lancet* 1970;2:891-893.
- Shankar AH. Nutritional modulation of malaria morbidity and mortality. *J Infect Dis* 2000;182(Suppl 1):S37-S53.
- Shankar AH, Prasad AS. Zinc and immune function: the biological basis of altered resistance to infection. *Am J Clin Nutr* 1998;68:447S-463S. (Review)
- Siklar Z, Tuna C, Dallar Y, et al. Zinc deficiency: a contributing factor of short stature in growth hormone deficient children. *J Trop Pediatr* 2003;49(3):187-188.
- Simkin PA. Oral zinc sulphate in rheumatoid arthritis. *Lancet* 1976;2(7985):539-542.
- Simkin PA. Treatment of rheumatoid arthritis with oral zinc sulfate. *Agents Actions* 1981;8(Suppl):587-595.
- Siwek MS, Wrobel A, Dudek D, et al. [The role of zinc in the pathogenesis and treatment of affective disorders.] *Psychiatr Pol* 2005;39(5):899-909. [Polish] (Review)
- Sjogren A, Floren CH, Nilsson A. Evaluation of zinc status in subjects with Crohn's disease. *J Am Coll Nutr* 1988;7:57-60.
- Smith W, Mitchell P, Webb K, et al. Dietary antioxidants and age-related maculopathy: the Blue Mountains Eye Study. *Ophthalmology* 1999;106(4):761-767.
- Solomons NW. Dietary sources of zinc and factors affecting its bioavailability. *Food Nutr Bull* 2001;22:138-154.
- Solomons NW, Pineda O, Viteri F, et al. Studies on the bioavailability of zinc in humans: mechanism of the intestinal interaction of nonheme iron and zinc. *J Nutr* 1983;113(2):337-349.
- Spencer H, Norris C, Osis D. Further studies of the effect of zinc on intestinal absorption of calcium in man. *J Am Coll Nutr* 1992;11:561-566.
- Spiertsma JE. Modern diets and diseases: NO-zinc balance: under Th1, zinc and nitrogen monoxide (NO) collectively protect against viruses, AIDS, autoimmunity, diabetes, allergies, asthma, infectious diseases, atherosclerosis and cancer. *Med Hypotheses* 1999;53(1):6-16. (Review)
- Spiertsma JE. Cysteine, glutathione (GSH) and zinc and copper ions together are effective, natural, intracellular inhibitors of (AIDS) viruses. *Med Hypotheses* 1999;52(6):529-538. (Review)
- Stabile A, Pesaresi MA, Stabile AM, et al. Immunodeficiency and plasma zinc levels in children with Down's syndrome: a long-term follow-up of oral zinc supplementation. *Clin Immunol Immunopathol* 1991;58:207-216.
- Stang J, Story MT, Harnack L, et al. Relationships between vitamin and mineral supplement use, dietary intake, and dietary adequacy among adolescents. *J Am Diet Assoc* 2000;100(8):905-910.
- Stockley IH. Drug interactions. 6th ed. London: Pharmaceutical Press; 2002.
- Strand TA, Chandyo RK, Bahl R, et al. Effectiveness and efficacy of zinc for the treatment of acute diarrhea in young children. *Pediatrics* 2002;109(5):898-903.
- Sturniolo GC, Di Leo V, Ferronato A, et al. Zinc supplementation tightens "leaky gut" in Crohn's disease. *Inflamm Bowel Dis* 2001;7(2):94-98.
- Su JC, Birmingham CL. Zinc supplementation in the treatment of anorexia nervosa. *Eat Weight Disord* 2002;7(1):20-22. (Review)
- Sugarman B. Zinc and infection. *Rev Infect Dis* 1983;5:137-147.
- Sustrova M, Strbak V. Thyroid function and plasma immunoglobulins in subjects with Down's syndrome (DS) during ontogenesis and zinc therapy. *J Endocrinol Invest* 1994;17:385-390.

Citations and Reference Literature: Zinc

- Suzuki T, Koizumi J, Moroji T, et al. Effects of long-term anticonvulsant therapy on copper, zinc, and magnesium in hair and serum of epileptics. *Biol Psychiatry* 1992;31(6):571-581.
- Takeda A. Zinc homeostasis and functions of zinc in the brain. *Biometals* 2001;14(3-4):343-351. (Review)
- Takeda A, Minami A, Seki Y, et al. Inhibitory function of zinc against excitation of hippocampal glutamatergic neurons. *Epilepsy Res* 2003;57:169-174.
- Takihara H, Cosentino MJ, Cockett AT. Zinc sulfate therapy for infertile male with or without varicocelectomy. *Urology* 1987;29(6):638-641.
- Tasman-Jones C. Zinc deficiency states. *Adv Int Med* 1980;26:97-114. (Review)
- Taubeneck MW, Daston GP, Rogers JM, et al. Altered maternal zinc metabolism following exposure to diverse developmental toxicants. *Reprod Toxicol* 1994;8(1):25-40.
- Taylor CG, Giesbrecht JA. Dietary zinc deficiency and expression of T lymphocyte signal transduction proteins. *Can J Physiol Pharmacol* 2000;78(10):823-828.
- Thomas AJ, Bunker VW, Hinks LJ. Energy, protein, zinc and copper status of 21 elderly inpatients: analysed dietary intake and biochemical indices. *Br J Nutr* 1988;59:181-191.
- Tikkiwal M, Ajmera RL, Mathur NK. Effect of zinc administration on seminal zinc and fertility of oligospermic males. *Indian J Physiol Pharmacol* 1987;31(1):30-34.
- Trovato A, Nuhlicek DN, Midtling JE. Drug-nutrient interactions. *Am Fam Physician* 1991;44(5):1651-1658. (Review)
- Truong-Tran AQ, Ho LH, Chai F, et al. Cellular zinc fluxes and the regulation of apoptosis/gene-directed cell death. *J Nutr* 2000;130(5S Suppl):1459S-1466S.
- Tuormaa TE. Adverse effect of zinc deficiency: a review from the literature. *J Orthomol Med* 1995;10:149-162. (Review)
- Turner RB. Ineffectiveness of intranasal zinc gluconate for prevention of experimental rhinovirus colds. *Clin Infect Dis* 2001;33(11):1865-1870.
- Turner RB, Cetnarowski WE. Effect of treatment with zinc gluconate or zinc acetate on experimental and natural colds. *Clin Infect Dis* 2000;31(5):1202-1208.
- Tyler LB. Nutrition and the pill. *J Reprod Med* 1984;29(7 Suppl):547-550.
- Umeta M, West CE, Haidar J, et al. Zinc supplementation and stunted infants in Ethiopia: a randomised controlled trial. *Lancet* 2000;355:2021-2026.
- USDA: Composition of foods:USDA handbook #8. Washington, DC:ARS, United States Department of Agriculture; 1976-1986.
- Vallee BL. Biochemistry, physiology and pathology of zinc. *Physiol Rev* 1959;39:443. (Review)
- Vallee BL, Falchuk KH. The biochemical basis of zinc physiology. *Physiol Rev* 1993;73:79-118.
- Vallee BL, Wacker WEC. Metalloproteins. In: Neurath H, ed. The proteins composition, structure and function. New York: Academy Press; 1970.
- Van de Wal Y, Van der Sluys Veer A, Verspaget HW, et al. Effect of zinc therapy on natural killer cell activity in inflammatory bowel disease. *Aliment Pharmacol Ther* 1993;7:281-286.
- VandenLangenberg GM, Mares-Perlman JA, Klein R, et al. Associations between antioxidant and zinc intake and the 5-year incidence of early age-related maculopathy in the Beaver Dam Eye Study. *Am J Epidemiol* 1998;148(2):204-214.
- Vartsky D, Shilstein S, Bercovich A, et al. Prostatic zinc and prostate specific antigen: an experimental evaluation of their combined diagnostic value. *J Urol* 2003;170(6 Pt 1):2258-2262.
- Verma KC, Saini AS, Dhamija SK. Oral zinc sulfate therapy in acne vulgaris: a double-blind trial. *Acta Derm Venereol* 1980;60:337-340.
- Verrotti A, Basciani F, Trotta D, et al. Serum copper, zinc, selenium, glutathione peroxidase and superoxide dismutase levels in epileptic children before and after 1 year of sodium valproate and carbamazepine therapy. *Epilepsy Res* 2002;48(1-2):71-75.
- Vinson J, Bose P, Lemoine L, et al. Bioavailability studies. In: Southgate DAT, ed. Nutrient availability: chemical and biological aspects. Cambridge: Royal Society of Chemistry; 1989:125-127.
- Vohra P, Gray GA, Kratzer FH. Phytic acid-metal complexes. *Proc Soc Exp Biol Med* 1965;120:447-449.
- Wallwork JC, Milne DB, Sims RL, et al. Severe zinc deficiency: effects on the distribution of nine elements (potassium, phosphorus, sodium, magnesium, calcium, iron, zinc, copper and manganese) in regions of the rat brain. *J Nutr* 1983;113(10):1895-1905.
- Walravens P. Nutritional importance of copper and zinc in neonates and infants. *Clin Chem* 1980;6(2):185-189. (Review)
- Walravens PA, Hamblige KM, Koepfer DM. Zinc supplementation in infants with a nutritional pattern of failure to thrive: a double-blind, controlled study. *Pediatrics* 1989;83(4):532-538.
- Wapnir RA. Zinc deficiency, malnutrition and the gastrointestinal tract. *J Nutr* 2000;130(5S Suppl):1388S-1392S.
- Ward NI. Assessment of zinc status and oral supplementation in anorexia nervosa. *J Nutr Med* 1990;1:171-177.

Citations and Reference Literature: Zinc

- Webb JL. Nutritional effects of oral contraceptive use: a review. *J Reprod Med* 1980;25:150-156.
- Weimar V, Puhl S, Smith W, et al. Zinc sulphate in acne vulgaris. *Arch Dermatol* 1978;114:1776-1778.
- Weismann K. Lines of Beau: possible markers of zinc deficiency. *Acta Derm Venereol* 1977;57:88.
- Weismann K, Jakobsen JP, Weismann JE, et al. Zinc gluconate lozenges for common cold: a double-blind clinical trial. *Dan Med Bull* 1990;37(3):279-281.
- Weismann K, Wadskov S, Sondergaard J. Oral zinc sulphate therapy for acne vulgaris. *Acta Derm Venereol* 1977;57:357-360.
- Wellinghausen N, Kern WV, Jochle W, et al. Zinc serum level in human immunodeficiency virus-infected patients in relation to immunological status. *Biol Trace Elem Res* 2000;73(2):139-149.
- Werbach MR. Foundations of nutritional medicine. Tarzana, CA: Third Line Press; 1997. (Review)
- Wilkinson EA, Hawke CI. Oral zinc for arterial and venous leg ulcers. *Cochrane Database Syst Rev* 2000;(2):CD001273. (Review)
- Witte KKA, Nikitin NP, Parker AC, et al. The effect of micronutrient supplementation on quality-of-life and left ventricular function in elderly patients with chronic heart failure. *Eur Heart J* 2005;26:2238-2244.
- Wollowa F, Jablonska S. Zinc in the treatment of alopecia areata. In: Kobori Y, Montagna W, eds. *Biology and diseases of the hair*. Tokyo: University Park Press; 1976:305.
- Wong WY, Merkus HM, Thomas CM, et al. Effects of folic acid and zinc sulfate on male factor subfertility: a double-blind, randomized, placebo-controlled trial. *Fertil Steril* 2002;77(3):491-498.
- Wood RJ, Zheng JJ. High dietary calcium intakes reduce zinc absorption and balance in humans. *Am J Clin Nutr* 1997;65(6):1803-1809.
- Wu X, Itoh N, Taniguchi T, et al. Zinc-induced sodium-dependent vitamin C transporter 2 expression: potent roles in osteoblast differentiation. *Arch Biochem Biophys* 2003;420(1):114-120.
- Wynn V. Vitamins and oral contraceptive use. *Lancet* 1975;1(7906):561-564.
- Yadrick MK, Kenney MA, Winterfeldt EA. Iron, copper, and zinc status: response to supplementation with zinc or zinc and iron in adult females. *Am J Clin Nutr* 1989;49:145-150.
- Yergey AL. Analytical instruments for stable isotopic tracers in mineral metabolism. *J Nutr* 1996;126(1):355S-361S.
- Yokoi K, Alcock NW, Sandstead HH. Iron and zinc nutriture of premenopausal women: associations of diet with serum ferritin and plasma zinc disappearance and of serum ferritin with plasma zinc and plasma zinc disappearance. *J Lab Clin Med* 1994;124(6):852-861. Erratum in *J Lab Clin Med* 1995;125(6):681.
- Yokoi K, Egger NG, Ramanujam VM, et al. Association between plasma zinc concentration and zinc kinetic parameters in premenopausal women. *Am J Physiol Endocrinol Metab* 2003;285(5):E1010-1020.
- Yokoi K, Egger N, Ramanujam VMS, et al. Associations between iron and zinc nutriture in premenopausal women. *FASEB J* 2003;17(415).
- Yokoi K, Egger NG, Ramanujam VM, et al. Association between plasma zinc concentration and zinc kinetic parameters in premenopausal women. *Am J Physiol Endocrinol Metab* 2003;285(5):E1010-E1020.
- Young B, Ott L, Kasarkis E, et al. Zinc supplementation is associated with improved neurologic recovery rate and visceral protein levels of patients with severe closed head injury. *J Neurotrauma* 1996;13:25-34.
- Zago MP, Oteiza PI. The antioxidant properties of zinc: interactions with iron and antioxidants. *Free Radic Biol Med* 2001;31(2):266-274.
- Zemel BS, Kawchak DA, Fung EB, et al. Effect of zinc supplementation on growth and body composition in children with sickle cell disease. *Am J Clin Nutr* 2002;75:300-307.
- Zhou JR, Erdman JW Jr. Phytic acid in health and disease. *Crit Rev Food Sci Nutr* 1995;35(6):495-508. (Review)
- Zimmermann MB, Molinari L, Staubli-Asobayire F, et al. Serum transferrin receptor and zinc protoporphyrin as indicators of iron status in African children. *Am J Clin Nutr* 2005;81:615-623.