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REFERENCES

1. Briganti S, Picardo M. Antioxidant activity, lipid peroxidation and skin diseases; What's new. *J Eur Acad Dermatol Venereol* 2003; 17: 663-9.
2. Stephan F, Revuz J, Zinc salts in dermatology. *Ann Dermatol Venereol* 2004; 131(5): 455-60.
3. Katzman M, Logan AC. Acne vulgaris: Nutritional factors may be influencing psychological sequelae. *Med Hypotheses* 2007; 69(5): 1080-4.
4. Michaëlsson G, Ljunghall K. Patients with dermatitis herpetiformis, acne, psoriasis and Darier's disease have low epidermal zinc concentrations. *Acta Derm Venereol* 1990; 70(4): 304-8.
5. Dreno B, Trossae TM, Boiteau HL, Litoux P. Zinc salts effect on granulocytic zinc concentration and chemotaxis in acne patients. *Acta Derm Venereol* 1992; 72(4): 250-2.
6. Dreno B, Amblard P, Agache P, Sirot S, Litoux P. Low doses of zinc gluconate for inflammatory acne. *Acta Derm Venereol* 1989; 69(6): 541-3.
7. Meynadier J. Efficacy and safety study of two zinc gluconate regimens in the treatment of inflammatory acne. *Eur J Dermatol* 2000; 10(4): 269-73.

8. Michaelsson G, Vahlquist A, Juhlin L. Serum zinc and retinol-binding protein in acne. *Br J Dermatol* 1977; 96(3): 283-6.
9. Amer M, Bahgat M, Tosson Z, Mowla M, Amer K. Serum zinc in acne vulgaris. *Int J Dermatol* 1982; 21: 481-4.
10. Michaelsson G, Edqvist LE. Erythrocyte glutathione peroxidase activity in acne vulgaris and the effect of selenium and Vit E treatment. *Acta Derm Venereol* 1984; 64: 9-14.
11. Niren NM, Torok HM, The Nicotinide improvement in clinical outcomes study (NICOS): results of an 8-week trial. *Cutis* 2006; 77: 17-28.
12. Dreno B, Foulc P, Reynaud A, Moyse D, Habert H, Richet H. 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: 152-5.
13. Mccarty M. High-chromium yeast for acne? *Med Hypotheses* 1984; 14: 307-10.
14. Jablonska S. Treatment of acne vulgaris and rosacea. *Arch Dermatol* 1975; 111: 929.
15. Pierard-Franchimont C, Gopfin V, Visser JN, Jacoby H, Pierard GE. A double-blind controlled evaluation of the sebo suppressive activity of topical erythromycin-zinc complex. *Eur J Clin Pharmacol* 1995; 49(1-2): 57-60.
16. VanHoog dalem EJ, Terpstra IJ, Baven AL. Evaluation of the effect of zinc acetate on the stratum corneum penetration kinetics of erythromycin in healthy male volunteers. *Skin Pharmacol* 1996; 9(2): 104-10.
17. Fluhr JW, Bösch B, Gloor M, Höffler U. In vitro and in-vivo efficacy of zinc acetate against propionibacteria alone and in combination with erythromycin. *Zentralbl Bakteriologie* 1999; 289(4): 445-56.