

REFERENCES

CHAPTER 7

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Barry RE, Salmon PR, Read AE, Warin RP. Mucosal architecture of the small bowel in cases of psoriasis. *Gut* 1971; 12: 873-874.

Basavaraj KH, Darshan MS, Shanmugavelu P, Rashmi R, Mhatre AY, Dhanabal SP, Rao KSJ. Study on the levels of trace elements in mild and severe psoriasis. *Clinica Chimica Acta* 2009; 405: 66-70.

Bedi TR. Clinical profile of psoriasis in North India. *Indian J Dermatol Venereol Leprol* 1995;61:202-5.

- Bernstein BE, Hoffman RC, Klevit RE: Sequence -specific DNA recognition by Cys2, His2 zinc fingers .Ann NY Acad Sci 1994; 726:92-104.
- Bhatnagar M, Bapna A, Khare AK. Serum proteins, trace metals and phosphatases in psoriasis. Indian J Dermatol Venereol Leprol 1994; 60:18-21.
- Bruch-Gerharz D, Schnorr O, Suschek Ch, Beck KF, Pfeilschifter J, Ruzicka T, Kolb-Bachofen V. Arginase 1 Overexpression in Psoriasis: Limitation of Inducible Nitric Oxide Synthase Activity as a Molecular Mechanism for Keratinocyte Hyperproliferation . Am J Pathol 2003 ; 162: 203–211.
- Bruske K, Salfeld K. Zinc and its status in some dermatologic diseases-a statistical assessment. Z Hautkr 1987; 62: 125 - 31.
- Burrows NP, Turnbull AJ, PUNCHARD NA, Thompson RP, Jones RR. A trial of oral zinc supplementation in psoriasis. Cutis 1994; 54(2):117-8.
- Butnaru C, Pascu M, Mircea C, Agoroaei L, Solovăstru L, Vâță D, Butnaru E, Petrescu Z. Serum zinc and copper levels in some dermatological diseases. Rev Med Chir Soc Med Nat Iasi 2008 ; 112(1): 253-7.

- Coleman JE. In. Kaiser ET and Kezdy FT. editors. Progress in Bioinorganic Chemistry. Wiley, New York, 1971. Vol.1, pp.159-344.
- Coleman JE. In. Eichhorn GL.editor. Inorganic Biochemistry, Elsevier, New York, 1973 .Vol. 1, pp.488-548.
- Christianson DW, Fierke CA. Carbonic Anhydrase: Evolution of the Zinc Binding Site by Nature and by Design. Acc Chem Res 1996; 29: 331-339.
- Clemmensen OJ , Siggard- Andersen J , Worm AM, Stahl D, Frost F, Bloch I. Psoriatic arthritis treated with oral zinc sulphate. Br J Dermatol 1980 Oct ; 103 (4) : 411-5.
- Day C, McCollum EV. Effect of acute dietary zinc deficiency in rat. Proc Exp Biol Med 1940; 45: 282-7.
- Demir N, Kufrevioglu OI, Keha EE, Bakan E. An enzymatic method for zinc determination in serum. Biofactors 1993; 4(2):129-32.
- Demir N, Demir Y, Bakan E, Kufrevioglu I. Zinc determination in pleural fluid. Turk J Chem 2000; 24:377-380.
- Dogra S, Yadav S. Psoriasis in India: Prevalence and pattern. Indian J Dermatol Venereol Leprol 2010; 76: 595-601.
- Donadini A, Parzzaglia A, Disirello G, Minoia C, Colli M. Plasma levels of Zinc, copper and nickel in healthy controls and psoriasis patients. Acta Vitaminol Enzymol 1980; 2 (1-2): 9-16.

- Donangelo CM, Chang GW. An enzymatic assay for available zinc in plasma and serum. *Clin Chim Acta* 1981; 113(2): 201-206
- Dreno B, Vandermeeren MA, Boiteau HL, Stalder JF, Barriere H. Plasma zinc is decreased only in generalized pustular psoriasis. *Dermatologica* 1986; 173(5):209-12.
- Duff TA, Coleman JE. *Macaca mulata* carbonic anhydrase. Crystallization and physico-chemical and enzymatic properties of two isozymes. *Biochemistry* 1966; 6:2009-2019.
- Erel O , Avci S. Semi-automated enzymatic measurement of serum zinc concentration. *Clin Biochem* 2002 ; 35: 41–47.
- Fujita T, Hamasaki H, Furukata C, Nonobe M. New enzymatic assay of iron in serum. *Clin Chem* 1994; 40(5):763-7.
- Grashin RA, Antonov VG, Karpishchenko AI, Khaġrutdinov VR. The free radical oxidation and antioxidant defense systems as indicators of the activity of keratinocytic proliferation in psoriasis .*Klin Lab Diagn* 2010;(1):18-24.
- Greaves MW, Boyde TRC. Plasma zinc concentrations in patients with psoriasis, other dermatoses, and venous leg ulcerations. *Lancet* 1967; 2:1019-20.
- Greaves MW. Zinc and copper in psoriasis. *Br J Dermatol* 1971; 84:178.
- Greaves MW. Zinc in psoriasis. *Lancet* 1970; 1:1295.

- Griffiths CE, Barker JN. Pathogenesis and clinical features of psoriasis. *Lancet* 2007 ; 370: 263-7.
- Gueniche A, Viac J, Lizard G ,Charveron M. Protective effect of zinc on keratinocyte activation markers induced by interferon or nickel. *Acta Derm Venereol* 1995; 75(1):19-23.
- Hajini GH, Hussain ST and Ahmad Shah SN. Alkaline phosphatase levels of psoriatic and normal skin, *Indian J Dermatol Venereol Leprol* 1977; 43: 197-198.
- Håkansson K, Carlsson M, Svensson LA and Liljas A. Structure of native and apo carbonic anhydrase II and structure of some of its anion-ligand complexes. *J Mol Biol* 1992 ; 227: 1192-1204.
- Halprin KM, Taylor JR. The Biochemistry of skin disease: Psoriasis. *Adv Clin Chem* 1971;14:319-88.
- Haslett C, Chilvers ER, Boon NA, Colledge NR, Hunter JAA, editors. *Davidsons Principles and Practice of Medicine*. 19th ed.London: Elsevier Ltd; 2002.p.1216.
- Hawkins T, Marks JM, Plummer VM, Greaves MW. Whole body monitoring and other studies of zinc-65 metabolism in patients with dermatologic diseases.*Clin Exp Dermatol* 1976; 1:243-252.
- Hinks J, Young S, Clayton B. Trace element status in eczema and psoriasis. *Clin Exp Dermatol* 1987;12: 93–97.

- Homsher R, Zak B. Spectrophotometric investigation of sensitive complexing agents for the determination of zinc in serum. *Clin Chem* 1985; 31(8): 1310-1313.
- Hunt JB, Rhee M-J, Storm CB. A rapid and convenient preparation of apocarbonic anhydrase. *Anal Biochem* 1977; 79: 614-617.
- Karagolge A, Demir N, Demir Y, Kufrevioglu I. Apocarbonic anhydrase-enzymatic determination of zinc in fruit juices. *Turk J Chem* 1997 ; 21:162-166.
- Kaur I, Handa S, Kumar B. Natural history of psoriasis: a study from the Indian subcontinent. *J Dermatol* 1997; 24: 230-4.
- Kaur I, Kumar B, Sharma VK, Kaur S. Epidemiology of psoriasis in a clinic from north India. *Indian J Dermatol Venereol Leprol* 1986; 52: 208-12.
- Kidani Y, Hirose J, Koike H. Coordination chemical studies on metalloenzymes. Kinetics and mechanism of the Zn(II) exchange reaction between chelating agent and apo-bovine carbonic anhydrase. *J Biochem (Tokyo)* 1976; 79:43-51.
- King JC, Keen CL. Zinc. In. Shils ME, Olson JA , Shike M, Ross CA, editors. *Modern Nutrition in Health and Disease*. 9th Ed. Lippinkott Williams & Wilkins-Lea Febiger; 2003. p.223-239.

- Kobayashi K, Fujiwara K, Haraguchi H, Fuwa K. Determination of ultratrace zinc by enzymatic activity of carbonic anhydrase. *Bull Chem Soc Jpn* 1979; 52(7):1932–6.
- Kobayashi K, Fujiwara K, Karaguchi H, Fuwa K. Determination of ultratrace zinc by enzymatic activity of carbonic anhydrase *Bull Chem Soc Jpn* 1981;54: 2700-2704.
- Kreft B, Wohlrab J, Fischer M, Uhlig H, Skolziger R, Marsch WC. Analysis of serum zinc level in patients with atopic dermatitis, psoriasis vulgaris and in probands with healthy skin. *Hautarzt* 2000 ; 51 (12): 931-4.
- Kufrevioglu OY, Keha EE. Bazı vücut sıvılarında Zn²⁺miktarının enzimatik yolla tayini. *Doğa TU Kimya D* 1988;2: 214-21.
- Kumar B, Saraswat A, Kaur I. Palmoplantar lesions in psoriasis: A study of 3065 patients. *Acta Derm Venereol* 2002; 82:192-5.
- Laemmli UK. Cleavage of structural proteins during the assembly of bacteriophage T4. *Nature* 1970 ; 227:680-85.
- Leibovici V, Statter M, Weinrauch L, Tzfon E, Matzner Y. Effect of zinc therapy in neutrophil chemotaxis in psoriasis. *Isr J Med Sci* 1990; 26(6): 306-9.
- Lindskog S, Nyman PO. Metal-binding properties of human erythrocyte carbonic anhydrases. *Biochim Biophys Acta* 1964; 85:462-474.

- Lindskog S. Structure and mechanism of carbonic anhydrase. *Pharmacol Ther* 1997;74: 1-20.
- Lindskog S, Malmstrom BG. Metal binding and catalytic activity in bovine carbonic anhydrase. *J Biol Chem* 1962 ; 237(4):1129-1137.
- Lindskog S, Henderson LE, Kannan KK, Liljas A, Nyman PO, Strandberg B. In. Boyer PD. Editor. *The Enzymes*, Academic Press, New York, 1971.Vol.5, p.587-665.
- Linder N, Statter M, Leitrovici V, Livshin R, Schindler A, Tamir I. An oral zinc loading test in psoriasis. *Metabolism* 1998; 37(9): 807-9.
- Lowry OH, Rosebrough NJ, Farr AL, Randall RJ. *J Biol Chem* 1951; 193: 265-275.
- Makino T. A sensitive, direct colorimetric assay of serum zinc using nitro-PAPS, and microwell plates. *Clin Chim Acta* 1991; 197:209-220,
- Mc Millan E M, Rowe D. Plasma zinc in psoriasis: relation to surface area involvement. *Br J Dermatol* 1983; 108 (3): 301-5.
- Merril CR. Gel –staining techniques. *Meth Enzymol* 1990;182:477-88.
- Milne DB. Trace Elements. In. Burtis CA, Ashwood ER. editors. *Tietz Textbook of Clinical Chemistry .3rd ed.* W. B. Saunders Company, Philadelphia 1999. p.1037–1041.

- Molokhia MM, Portnoy B. Neutron activation analysis of trace elements in skin. I. Copper in normal skin. *Br J Dermatol* 1969; 81:110–4.
- Molokhia MM, Portnoy B. Neutron activation analysis of trace elements in skin. Serum copper and zinc in psoriasis. *Br J Dermatol* 1970 ; 83: 376.
- Nigam PK. Serum zinc and copper levels and Cu: Zn ratio in psoriasis. *Indian J Dermatol Venereol Leprol* 2005; 71(3):205-6.
- Okhandiar RP, Banerjee BN. Psoriasis in the tropics: An epidemiological survey. *J Indian Med Assoc* 1963; 41:550-6.
- Ortonne JP. Aetiology and pathogenesis of psoriasis. *Br J Dermatol* 1996; 135 (suppl.49): 1-5.
- Ozturk G, Erbas D, Gelir E, Gulekon A. Natural killer cell activity, serum immunoglobulins, complement proteins, and zinc levels in patients with psoriasis vulgaris. *Immunol Invest* 2001; 30 (3): 181-90.
- Pocker Y, and Meany JE. The catalytic versatility of erythrocyte carbonic anhydrase I: Kinetic studies of the enzyme catalyzed hydration of acetaldehyde. *Biochemistry* 1965; 4:2535-2541
- Pocker Y, Stone JT. The catalytic versatility of erythrocyte carbonic anhydrase III. Kinetic studies of the enzyme-catalyzed

- hydrolysis of p-nitrophenyl acetate. *Biochemistry* 1967; 6(3): 668-78.
- Portnoy B, Molokhia MM. Zinc and copper in psoriasis. *Br J Dermatol* 1972; 86:205.
- Prasad AS. Effects of zinc deficiency on Th1 and Th2 cytokine shifts. *J Infect Dis* 2000; 182: 62-8.
- Prasad AS. Clinical, immunological, antinflammatory and antioxidant roles of zinc. *Exp Gerontol* 2008; 43 (5): 370-7.
- Prasad AS. Zinc in human health: Effect of Zinc on immune cells. *Mol Med* 2008; 14 (5-6): 353-7.
- Rasmi R, Rao KS, Basavaraj KH. A comprehensive review of biomarkers in psoriasis. *Clin Exp Dermatol* 2009; 34(6) : 658-63.
- Raynaud F, Evain-Brion D, Gerbaud P, Marciano D, Gorin I, Liapi C, Anderson WB. Oxidative modulation of cyclic AMP-dependent protein kinase in human fibroblasts: possible role in psoriasis. *Free Radic Biol Med* 1997; 22(4) : 623-32.
- Relhan V, Gupta SK, Dayal S, Pandey R, Lal H. Blood thiols and malondialdehyde levels in psoriasis. *J Dermatol* 2002; 29 (7) : 399-403.
- Rhodes D, Klug A : Zinc fingers. *Sci Am* 1993; 268:56-65.

- Rostan E F, Holly VD, Madey DL , Pinnel S R. Evidence supporting zinc as an important antioxidant for skin. *Int J Dermatol* 2002; 41: 606- 611.
- Saxena N, Sharma RP, Singh VS. A study of serum zinc and copper levels in psoriasis. *Indian J Dermatol Venereol Leprol* 1990; 56:216-8.
- Schön MP, Boehncke WH. Psoriasis. *N Engl J Med* 2005;352:1899-1912.
- Svenson KL, Hällgren R, Johansson E, Lindh U. Reduced zinc in peripheral blood cells from patients with inflammatory connective tissue diseases. *Inflammation* 1985 ; 9(2):189-99.
- Tasaki M, Hanada K, Hashimoto I. Analyses of serum copper and zinc levels and copper/zinc ratios in skin diseases. *J Dermatol* 1993 ; 20(1):21-4.
- Taylor JS, Coleman JE. Electron spin resonance of metallocarbonic anhydrases. *J Biol Chem* 1971; 246:7058-7068.
- Taylor RP, James T. Enzymatic determination of sodium and chloride in sweat. *Clin Biochem* 1996 ; 29:33-37.
- Thomas J, Kandhari S. A double- blind randomized multicenter controlled study of Topical 0.05% Clobetasol propionate with 2.5% zinc sulphate preparation. *Indian J Dermatol Venereol Leprol* 2001;67(3): 135-137.

- Thune P. Abnormally low plasma zinc levels in pustular psoriasis.
Dermatologica 1980;161(3):179-82.
- Tsambaos D, Orfanos CE. Zinc distribution disorders in psoriasis.
Arch Dermatol Research 1977; 259(1): 97-100.
- Underwood E J. Trace elements in Human and Animal Nutrition. New
York, 1962.
- Voorhees JJ, Chakrabarti SG, Botero E, Mielder L, Harrell ER. Zinc
therapy and distribution in psoriasis. Arch Derm 1969;
100: 669-73.
- Withers AF, Baker H, Mussa M, Dormandy, TL. Plasma-zinc in
psoriasis. Lancet 1968 ; 2(7562): 278.
- Yamaoka J, Kume T, Akaike A, Miyachi Y. Suppressive effect of zinc
ion on iNOS expression induced by interferon-gamma
or tumor necrosis factor-alpha in murine keratinocytes. J
Dermatol Sci 2000 ; 23(1): 27-35.
- Yildirum M, Inaloz HS, Baysal V, Delibas N. The role of oxidants and
antioxidants in psoriasis. J Eur Acad Dermatol Venereol
2003; 17(1): 34-36.
- Zadorozhny BA, Alolf EV, Shevchenko VP. Free radicals in the skin
of patients with psoriasis and their relationship to
oxidative-reductive processes. Vestnik Dermatologic I
Venereologic 1973; 47: 25-28.

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