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Substitution mit DHEA – klinische Studien bei Mann und Frau.

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Literatur

1. Arlt W et al. Dehydroepiandrosterone replacement in women with adrenal insufficiency. *N Engl J Med* 341 (1999):1013-20.
2. Arlt W et al. Dehydroepiandrosterone supplementation in healthy men with an age-related decline of dehydroepiandrosterone secretion. *J Clin Endocrinol Metab* 86 (2001):4686-92.
3. Baulieu EE et al. Dehydroepiandrosterone (DHEA), DHEA sulfate, and aging: Contribution of the DHEAge Study to a sociobiomedical issue. *Proc Natl Acad Sci USA* 97 (2000):4279-4284.
4. Callies F et al. Dehydroepiandrosterone replacement in women with adrenal insufficiency: effects on body composition, serum leptin, bone turnover, and exercise capacity. *J Clin Endocrinol Metab.* 86 (2001): 1968-72.
5. Casson PR, Andersen RN, Herrod HG, et al. Oral dehydroepiandrosterone in physiologic doses modulates immune function in postmenopausal women. *Am J Obstet Gynecol* 1993; 169:1536-9
6. Chang DM et al. Dehydroepiandrosterone treatment of women with mild-to-moderate systemic lupus erythematosus: A multicenter randomized, double-blind, placebo-controlled trial. *Arthritis Rheum* 46 (2002):2924-7.
7. Coevorden van A, Mockel J, Laurent E, Kerkhofs M et al: Neuroendocrine rhythms and sleep in aging men. *Am J Physiology* 260 (1991): 651-661.
8. Corsini, Lucchi, Meroni, Racchi, Solerte, Fioravanti, Viviani, Marinovich, Govoni, Galli In vivo dehydroepiandrosterone restores age-associated defects in the protein kinase C signal transduction pathway and related functional responses. *J Immunol* Feb 2002; 168(4):1753-8
9. De Pergola G. The adipose tissue metabolism: role of testosterone and dehydroepiandrosterone. *Int J Obes Relat Metab Disord.* 24 Suppl 2 (2000): 859-63.
10. Dequet C, Wallace D. Novel therapies in the treatment of systemic lupus erythematosus. *Curr Opin Investig Drugs* 2 (2001):1045-53.
11. Feldman HA et al. Low dehydroepiandrosterone and ischemic heart disease in middle-aged men: Prospective results from the Massachusetts male aging study. *Am J Epidemiol.* 153 (2001):79-89.
12. Flynn MA et al. Dehydroepiandrosterone replacement in aging humans. *J Clin Endocrinol Metab* 84 (1995):1527-33.
13. Gordon CM et al. Effects of oral dehydroepiandrosterone on bone density in young women with anorexia nervosa: A randomized trial. *J Clin Endocrinol Metab* Nov; 87(2002):4935-41.

14. Harris TB, Ferrucci L, Tracy RP, Corti MC, Wacholder S, Ettinger WH Jr, Heimovitz H, Cohen HJ, Wallace R . Associations of elevated interleukin-6 and C-reactive protein levels with mortality in the elderly. *Am J Med.* 1999;106(5):506-12
15. Hunt PJ et al. Improvement in mood and fatigue following DHEA replacement in a randomised double-blind trial in Addison's disease. *J Clin Endocrinol Metab* 85 (2000):4650-56.
16. Jedrzejuk D et al. Dehydroepiandrosterone replacement in healthy men with age-related decline of DHEA-S: effects on fat distribution, insulin sensitivity and lipid metabolism. *Aging Male.* 6 (2003):151-6.
17. Johannsson G et al. Low dose dehydroepiandrosterone affects behavior in hypopituitary androgen-deficient women: A placebo-controlled trial. *J Clin Endocrinol Metab* 87(2002):2046-52.
18. Kawano H et al. Dehydroepiandrosterone supplementation improves endothelial function and insulin sensitivity in men. *J Clin Endocrinol Metab.* 88 (2003):3190-5.
19. Khorram O, Vu L, Yen SS. Activation of immune function by dehydroepiandrosterone (DHEA) in age-advanced men. *J Gerontol A Biol Sci Med Sci.* 1997;52(1):M1-7
20. Labrie F et al. Effect of 12-month dehydroepiandrosterone replacement therapy on bone, vagina, and endometrium in postmenopausal women. *J Clin Endocrinol Metab.* 82 (1997):3498-505.
21. Lasco A et al. Metabolic effects of dehydroepiandrosterone replacement therapy in postmenopausal women. *Eur J Endocrinol* 145 (2001):457-61.
22. Leder BZ et al. Differential effects of androgens and estrogens on bone turnover in normal men. *J Clin Endocrinol Metab.* 88 (2003):204-10.
23. Liu D, Dillon JS. Dehydroepiandrosterone activates endothelial cell nitric oxide synthase by a specific plasma membrane receptor coupled to G α _{i2,3}. *J Biol Chem* 277, 21379-88, 2002.
24. Minetto M et al. Bone loss is more severe in primary adrenal than in pituitary-dependent Cushing's syndrome. *Osteoporos Int.* 18 (2004):
25. Morales AJ et al. The effects of six months treatment with a 100 mg dose of dehydroepiandrosterone (DHEA) on circulating sex steroids, body composition and muscle strength in age-advanced men and women. *Clin Endocrinol* 49 (1998):421-32.
26. Nawata H et al. Mechanism of action of anti-aging DHEA-S and the replacement of DHEA-S. *Mech Ageing Dev* 123 (2002):1101-6.
27. Nestler JE et al. Dehydroepiandrosterone reduces serum low density lipoprotein levels and body fat but does not alter insulin sensitivity in normal men. *J Clin Endocrinol Metab.* 66 (1988):57-61.
28. Oelkers W. Dehydroepiandrosterone for adrenal insufficiency. *N Engl J Med* 341 (1999):1073-1074.
29. Ohmori N et al. Osteoporosis is more prevalent in adrenal than in pituitary Cushing's syndrome. *Endocr J.* 50 (2003):1-7.

30. Perrini S et al. Dehydroepiandrosterone stimulates glucose uptake in human and murine adipocytes by inducing GLUT1 and GLUT4 translocation to the plasma membrane. *Diabetes*. 53 (2004):41-52.
31. Römmler A. Androgene für Mann und Frau. DHEA – Androstendion - Testosteron. In: Römmler A, Wolf AS. (Hrsg.) *Anti-Aging Sprechstunde, Teil 1: Leitfaden für Einsteiger*. Congress Compact Verlag, Berlin, (2002a):103-138.
32. Römmler A. Die Adrenopause: Individuelle Substitution mit DHEA (Dehydroepiandrosteron). In: *Lifestyle & Anti-Aging Medizin*. Rabe T & Strowitzki T (Hrsg.), Rendezvous Verlag Baden-Baden, Germany (2002b):127-146.
33. Römmler A. Adrenopause und Dehydroepiandrosteron: Pharmakotherapie versus Substitution. *Gynakol Geburtshilfliche Rundsch* 43 (2003):79-90.
34. Römmler A. Andropause: Differenzierte Diagnostik und Substitution mit DHEA, Testosteron und Estrogenen. In: Wolf A, Römmler A, Motz L, Klentze M (Hrsg.) *Anti Aging Medizin 2003*, congress compact verlag Berlin, 2004,195-219.
35. Simoncini T et al. Dehydroepiandrosterone modulates endothelial nitric oxide synthesis via direct genomic and nongenomic mechanisms. *Endocrinology*. 144 (2003):3449-55.
36. Straub RH, Konecna L, Hrach S, Rothe G, Kreutz M, Scholmerich J, Falk W, Lang B. Serum dehydroepiandrosterone (DHEA) and DHEA sulfate are negatively correlated with serum interleukin-6 (IL-6), and DHEA inhibits IL-6 secretion from mononuclear cells in man in vitro: possible link between endocrinosenescence and immunosenescence. *J Clin Endocrinol Metab*. 1998 Jun;83(6):2012-7
37. Sun Y et al. Treatment of osteoporosis in men using dehydroepiandrosterone sulfate. *Chin Med J* 115 (2002):402-404.
38. Suzuki M et al. Mitotic and neurogenic effects of dehydroepiandrosterone (DHEA) on human neural stem cell cultures derived from the fetal cortex. *Proc Natl Acad Sci USA*. 101(2004):3202-7.
39. Takayanagi R et al. Dehydroepiandrosterone (DHEA) as a possible source for estrogen formation in bone cells: correlation between bone mineral density and serum DHEA-sulfate concentration in postmenopausal women, and the presence of aromatase to be enhanced by 1,25-dihydroxyvitamin D3 in human osteoblasts. *Mechanisms of Ageing and Development* 123 (2002):1107-14
40. Vallee M et al. Role of pregnenolone, dehydroepiandrosterone and their sulfate esters on learning and memory in cognitive aging. *Brain Res Brain Res Rev*. 37 (2001):301-12.
41. Villareal DT et al. Effects of DHEA replacement on bone mineral density and body composition in elderly women and men. *Clin Endocrinol (Oxf)*. 53 (2000):561-8.
42. Vollenhoven van RF et al. A double-blind, placebo-controlled, clinical trial of dehydroepiandrosterone in severe systemic lupus erythematosus. *Lupus* 8 (1999):181-7.
43. Vollenhoven van RF. Dehydroepiandrosterone for the treatment of systemic lupus erythematosus. *Expert Opin Pharmacother* 3 (2002):23-31.
44. Yen SSC et al. Replacement of DHEA in aging men and women. Potential remedial effects. *Ann NY Acad Sci* 774 (1995):128-141.