

Overall research theme:

Cardiovascular disease and postmenopausal replacement therapy: Clinical, epidemiological and experimental studies

Latest update:

July 15, 2002

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Characteristics of the research group:

Hormone replacement therapy and cardiovascular disease in postmenopausal women. Both epidemiological and experimental studies indicate a cardioprotective effect of estrogen as well as a combination of estrogen plus progestin on ischemic heart disease. This notion has recently been questioned by a randomised clinical trial. The aim of the research team is to elucidate the effect of various hormone regimens in clinical, biological and epidemiological studies.

Running projects: Titles and abstracts:

Torur Dalsgaard

Long term effects of hormone replacement therapy on function of atherosclerotic arteries in heart and brain.

Claus Otto Lund

Østrogens kardiovaskulære protektive virkning: effekt på cerebrale og koronare resistenskar fra aterosklerotiske hunkaniner

Morten Beck Sørensen

Postmenopausal hormone replacement therapy and cardiovascular disease

Anette Tønnes Pedersen

Hormone replacement therapy and risk of stroke

Ellen Løkkegaard

The influence of cardiovascular risk factors on the association between hormone replacement therapy and cardiovascular disease

Claudia Stahlberg

Hormone replacement therapy and breast cancer – The European perspective

Recent publications related to the projects described above:

- Ottesen B, Pedersen AT. Physiological effects of ovarian hormones: Clinical aspects and compliance. *Eur Heart J*, 1996;17 (suppl. D): 20-26
- Ottesen B, Sorensen MB. Women at cardiac risk: is HRT the route to maintaining cardiovascular health. *Int J Gynaecol Obstet* 1997;59 Suppl:19-27
- Pedersen AT, Lidegaard Ø, Kreiner S, Ottesen B. Hormone replacement therapy and risk of non-fatal stroke. *Lancet*. 1997;350:1277-83
- Sørensen MB, Skouby SO, Ottesen BS. Postmenopausal hormonsubstitution og iskæmisk hjertesygdom. *Ugeskr Læg* 1999;161/5:607-8.
- Sørensen MB, Rasmussen V, Jensen G, Ottesen B. Temporal changes in clinic and ambulatory blood pressure during cyclic postmenopausal hormone replacement therapy. *J Hypert* 2000;18:1387-91
- Sørensen MB, Fritz-Hansen T, Pedersen AT, Jensen HH, Højgaard L, Ottesen B. Temporal changes in cardiac function and cerebral blood flow during sequential postmenopausal hormone replacement. Submitted. *Am J Obstet Gynecol* 2001;184(2):41-7
- Sørensen MB, Rosenfalck AM, Højgaard L, Ottesen B. Obesity and sarcopenia after menopause are reserved by sex hormone replacement therapy. *Obes Res* 2001;10:622-6
- Dalsgaard T, Larsen CR, Mortensen A, Larsen JJ, Ottesen B. New animal model for the study of postmenopausal coronary and cerebral artery function: the Watanabe heritable hyperlipidemic rabbit fed on a diet avoiding phytoestrogens. *Climacteric* 2002;5:178-89
- Pedersen AT, Ottesen B. Hormone replacement therapy, stroke and thromboembolism: epidemiological evidence. Martin Dunitz Ltd 2002. The Cromwell Press, Trowbridge
- Pedersen AT, Ottesen B. Hormonbehandling i overgangsalderen og risiko for kardiovaskulær sygdom. *Ugeskr Læg* 2002;164:2414
- Sørensen MB, Ottesen B. P-piller og risiko for myokardieinfarkt. *Ugeskr Læg* 2002; 164:2415-16.
- Løkkegaard EL, Pedersen AT, Laursen P, Loft IP, Larsen S, Jørgensen TJ. The influence of hormone replacement therapy on the age related change in cognitive performance. Analysis based on a Danish cohort study. *Maturitas*. In press.
- Løkkegaard EL, Pedersen AT, Ottesen B. Long term effects of hormone replacement therapy: Cardiovascular disease. *Reviews in Gynaecological Practice*, in press.
- Løkkegaard EL, Nielsen LF, Køster A, Garde K. Description of women who choose hormone replacement therapy on cardiovascular risk factors and personality traits. Analyses based on a Danish cohort study. *Archives on Women's Mental Health*. In press.
- Stahlberg C, Pedersen AT, Lynge E, Ottesen B. Hormone Replacement Therapy and Risk of Breast Cancer – the role of progestins. *Acta Obst Gynecol Scand*. In press.
- Dalsgaard T, Hannibal J, Fahrenkrug J, Rifbjerg Larsen CH, Ottesen B. VIP and PACAP display different vascular effects in rabbit coronary and cerebral arteries. *Reg Pep*. Submitted
- Dalsgaard T, Mortensen A, Larsen JJ, Ottesen B. Long-term estradiol treatment in atherosclerotic Watanabe-rabbits coronary arteries: Changes in electro-mechanical but not in pharmaco-mechanical response. Submitted
- Dalsgaard T, Mortensen A, Larsen JJ, Ottesen B. Long-term estradiol treatment improves VIP-mediated vasodilatation in atherosclerotic coronary Watanabe-rabbits arteries. Submitted
- Dalsgaard T, Mortensen A, Larsen JJ, Ottesen B. Longterm estradiol treatment decreases endothelin induced contraction in atherosclerotic cerebral watanabe rabbit arteries. In prep
- Pedersen NG, Pedersen S, Dalsgaard T, Nilas L, Ottesen B. Endothelin-1 induced vasoconstriction variates with the progestogen used for pretreatment. In prep
- Pedersen S, Pedersen NG, Dalsgaard T, Nilas L, Ottesen B. Long-term treatment with the progestogens medroxyprogesteroneacetate (MPA) and norethisterone acetate (NETA) displays different vascular effect. In prep.