LH and FSH relaese by the pituitary, de inhibitive effect of estradiol in male to female transsexuals

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to study the effect of estradiolapplication on gonadotropin relaese in young and older men in the abscense of circulating testosterone.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Endocrine disorders of gonadal function
Study type	Interventional

Summary

ID

NL-OMON30398

Source ToetsingOnline

Brief title effect of estradiol on gonadotropin release in men

Condition

• Endocrine disorders of gonadal function

Synonym hypogonadism, testosterone defciency

Research involving Human

Sponsors and support

Primary sponsor: Vrije Universiteit Medisch Centrum Source(s) of monetary or material Support: onderzoeksbudget endocrinologie

Intervention

Keyword: estradiol, gonadotropins, HPG axis, male

Outcome measures

Primary outcome

blood tests for estradiol, LH and FSH

Secondary outcome

not applicable

Study description

Background summary

from our earlier studies it appeared that in men circulating estradiol has a strong inhibitive effect on the ginadotropin secretion by the pituitary. This observation challenges the traditional viewpoint that testosterone is responsible for the feedback on gonadotropin secretion in men. Aging is associated with a relative decline in gonadotropin secretion. This has been attributed to an increased sensitivity of the hypothalamus and pituitary for the feedback inhibition by testosterone.

Study objective

to study the effect of estradiolapplication on gonadotropin relaese in young and older men in the abscense of circulating testosterone.

Study design

open label intervention study

Intervention

estradiol is administered with a patch in varying doses (100 microgram per 24 uur, 50 microgram per 24 uur, 25 microgram per 24 uur en no oestradiol); every dose for 7 days

Study burden and risks

visits to the study center and 5 venepunctures

Contacts

Public

Vrije Universiteit Medisch Centrum

postbus 7057 1007 MB Amsterdam Nederland **Scientific** Vrije Universiteit Medisch Centrum

postbus 7057 1007 MB Amsterdam Nederland

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years) Elderly (65 years and older)

Inclusion criteria

male-to-female transsexual, after gonadectomy, age between 18-40 years (young group) or >60 years (old group)

Exclusion criteria

use of other medication apart from estradiol, hyperprolactinemia, SHBG level >60nmol/l

Study design

Design

Study type: Interventional	
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Other

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-02-2007
Enrollment:	20
Туре:	Anticipated

Ethics review

Approved WMO	
Application type:	First submission
Review commission:	METC Amsterdam UMC

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register

ССМО

ID NL15554.029.06