

NERVE GROWTH FACTOR * MEASUREMENT METHOD VALIDATION STUDY: DRIED BLOOD SPOT ANALYSIS AND SALIVA SAMPLE TESTING COMPARED TO VENOUS SERUM CONCENTRATION

Published: 15-01-2018

Last updated: 15-05-2024

To answer the question if dried blood spot (DBS) analysis and saliva hormone testing are reliable methods to determine the concentration of NGF- β in healthy subjects.

Ethical review	Approved WMO
Status	Pending
Health condition type	Other condition
Study type	Observational invasive

Summary

ID

NL-OMON44502

Source

ToetsingOnline

Brief title

NGF * validation study

Condition

- Other condition
- Gonadotrophin and sex hormone changes

Synonym

nerve growth factor, nerve growth factor □

Health condition

valideren van diagnostische testen

Research involving

Human

Sponsors and support

Primary sponsor: Vrije Universiteit Medisch Centrum

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: Dried blood spots, Nerve growth factor α , Saliva, Validation study

Outcome measures

Primary outcome

The main study parameters are the correlation and limits of agreement between dried blood spots/saliva samples compared to venous blood concentration.

Secondary outcome

not applicable

Study description

Background summary

There are roughly two types of ovulation: spontaneous and induced. Copulation is the speculated mechanism behind induced ovulation. The ovulation induction substance in semen has been identified as nerve growth factor α (NGF- α). In animal studies, semen plasma derived NGF- α indeed has an effect on female ovulation, follicle development and a luteotropic effect. The role of NGF- α on human ovulation has never been studied. It is known that NGF- α plays an important role in many different types of human tissue, for instance the nervous system and immune system. All studies use venous blood to measure the NGF- α concentration. However, in order to study the effect of NGF- α on human ovulation, multiple serial measurements are needed, ideally immediately before and after natural intercourse. Therefore, a patient-friendly and minimally interrupting method is necessary. Serial dried blood spot analysis and saliva sample testing are potential methods, but both are not validated for NGF- α yet. The aim of this study will be to do a method comparison study, to validate the use of both methods compared to venous blood for NGF- α .

Study objective

To answer the question if dried blood spot (DBS) analysis and saliva hormone testing are reliable methods to determine the concentration of NGF- β in healthy subjects.

Study design

Cross sectional method comparison validation study.

Study burden and risks

The procedure for participants includes one hospital visit or home visit for saliva, dried blood spot and venous blood sampling and a questionnaire has to be completed. There will be no extra risks nor benefits for the participants. The risk analysis for this study concluded the risk for (serious) adverse events is negligible.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

Healthy female and male participants, 18 years or older, who are willing to give informed consent, have sufficient command of Dutch or English language and are capable of understanding participants information.

Exclusion criteria

- Contraindications for donating blood (phlebitis, dermatitis, psoriasis, lymphedema, arterial venous fistula, hematoma on or around insert place, mamma-amputation or axillary dissection of lymph nodes)
- Poor dental condition
- Age <18 years
- Volunteers who brushed their teeth within 45 minutes prior to saliva sample collection.
- Volunteers who had dental work within 24 hours prior to saliva sample collection.
- Volunteers who had their last meal, or drank anything except for water within 60 minutes prior to saliva sample collection.

Study design

Design

Study type: Observational invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Diagnostic

Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 20-12-2017

Enrollment: 60

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15-06-2025

Type:

Anticipated

Ethics review

Approved WMO

Date:

15-01-2018

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

ID: 25927

Source: Nationaal Trial Register

Title:

In other registers

Register	ID
CCMO	NL63048.029.17
OMON	NL-OMON25927