PET imaging of the noradrenaline system in healthy volunteers - a pilot study

No registrations found.

Ethical review	Not applicable
Status	Pending
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON21724

Source
NTR

Brief title
TBA

Health condition

Pilot study: healthy volunteers only.

Sponsors and support

Primary sponsor: University Medical Center Groningen
Source(s) of monetary or material Support: ZonMW

Intervention

Outcome measures

Primary outcome

From both the 90-min dynamic data and the 30-min static data, several values will be computed. These include NET binding potentials (BP), standardized uptake values (SUV) and K values for each region of interest (LC and projection areas), which will then be used to compute ratios using appropriate reference tissue models

Secondary outcome

Not applicable.

Study description

Background summary

This study is a pilot study in healthy volunteers to verify PET scan time reduction, after which in the intended future study the same procedure will be used to investigate the noradrenaline system in groups of patients with Alzheimer's disease, Parkinson's disease and Down syndrome.

Study objective

This pilot study is a feasibility study to verify a shortened scan time duration. We hypothesize that the 30-min protocol provides results as reliable as the 90-min protocol.

Study design

Each subject undergoes one PET scan.

Contacts

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Eligibility criteria

Inclusion criteria

Age ≥ 50 years and < 80 years; willingness to cooperate and sign written informed consent.

Exclusion criteria

Past or present developmental disorder or psychiatric disorder; abnormal results on the MMSE (<27); (subjective) memory complaints; presence of any contra-indication for PET scanning; participation in PET study in the last 12 months; use of any medication that acts on the NA system; absence of signed informed consent form.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-09-2019
Enrollment:	4
Type:	Anticipated

IPD sharing statement

Plan to share IPD: Undecided

Ethics review

Not applicable

Application type:	Not applicable

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	ID
NTR-new	NL7923
Other	METC UMCG : METC2019109

Study results