Leiden – Alzheimer Research Nederland

https://neurodegenerationresearch.eu/cohort/leiden-%c2%96-alzheimer-research-nederland/

Cohort Acronym
LeARN

Cohort type
Neurodegenerative disease-specific cohort

Disease
Alzheimer's disease, Dementia (unclassified), Frontotemporal dementia, Lewy body disease, Mild cognitive impairment (MCI), Subjective memory complaints (SMC) or subjective cognitive decline (SCD), Vascular dementia

Participant type
Condition diagnosed

Profile
Recruitment Period Oct-08
Sample size at start or planned sample size if still recruiting 304
Estimated Current Sample Size 0 to 4,999
Age at Recruitment >18
Gender Male and Female
Abstract

This project comprises of two complementary parts. One part is aimed at the development of innovative diagnostic techniques to detect molecular signatures of AD based on disturbances of amyloid metabolism and glutamate neurotransmission. In this part, the focus is on the two most promising diagnostic approaches in AD: (molecular) imaging techniques and molecular diagnostic tests of CSF. In the second part of this study, techniques for which proof-of-concept has been found in humans are applied in a large group of AD patients. These patients are recruited in an established network of 4 collaborating memory clinics in The Netherlands, which use a standardized diagnostic protocol and share an extensive common database. Furthermore, more mature molecular, structural, and functional imaging and molecular diagnostic CSF techniques as well as the conventional diagnostic work-up will be applied from the start of the study in patients from the same network of memory clinics.

Country Netherlands
Contact details
Institution name Leiden University Medical Center, Maastricht University Medical Center, Radboud University Nijmegen Medical Center, VU University Medical Center
Website http://www.ctmm.nl/en/projecten/neurodegeneratief/learn?set_language=en publication of the protocol: https://bmcneurol.biomedcentral.com/articles/10.1186/1471-2377-12-72
Principal Investiator (PI) Professor Dr. F.R.J. Verhey, Professor Dr. M.A van Buchem, Professor Dr. B. van Berckel and Dr. M. Verbeek

Variables Collected

Brain related measures:
Behaviour, Cognitive function, Mental health, Neurological
Funtional rating:
Caregiver, Individual psychological
Anthropometric:
Blood pressure, Height, Weight
Physical:
Cardiovascular
Biological samples:
Cerebral spinal fluid (CSF), CSF biomarker data available
Genotyping:
N/A
Brain imaging:
Magnetic resonance imaging (MRI), Positron emission tomography (PET) - amyloid, Positron emission tomography (PET) fluorine18 flurodeoxyglucose (FDG)
Brain banking:
N/A
Lifestyle:
Alcohol, Smoking
Socio-economic:
Education, Family circumstances, Housing and accommodation, Income and finances, Marital status, Occupation and employment, Unpaid care
Health service utilisation:
Formal health and social care service utilisation including private care