

TRIAL NATION DEMENTIA

A network of Danish memory clinics

Your clinical research partner within Alzheimer's disease and other dementia diseases.

Trial Nation
Clinical Trials Denmark



DANISH DEMENTIA
RESEARCH CENTRE

Trial Nation Dementia

Trial Nation Dementia is a network of Danish memory clinics involved in clinical research with medicinal products in Alzheimer's disease and other dementia diseases.

The network was established in 2018 as a subgroup of the ADEX alliance which was established in 2015. Trial Nation offers one point of contact to the network.

Trial Nation Dementia Clinics



- clinical rater training and certification of staff
- standardized sampling of blood and cerebrospinal fluid (CSF)
- a standardized protocol for magnetic resonance imaging (MRI)
- harmonization initiatives at annual network meetings

The main purpose of Trial Nation Dementia is to facilitate clinical trials regarding pharmacological interventions in dementia.

Trial Nation Dementia facilitates clinical trials requiring large sample of participants diagnosed in a specialized clinical setting with trained staff, harmonized clinical assessments, and standardized cognitive assessment, access to state-of-the art brain imaging techniques, analysis of cerebrospinal fluid (CSF) biomarkers, and other specialized diagnostic methods, individual memory clinics generally lack the necessary capacity and volume to perform the trials on their own.

The memory clinics constituting the Trial Nation Dementia network collaborate on:

- a uniform set of diagnostic criteria for types of dementia
- preferred rating scales in relation to diagnostic work-up

DANISH MEMORY CLINICS PARTICIPATING IN TRIAL NATION DEMENTIA	REGION
Danish Dementia Research Centre, Dept. of Neurology, Rigshospitalet, University of Copenhagen	The Capital Region of Denmark
Regional Dementia Research Centre, Dept. of Neurology, Zealand University Hospital	Region Zealand
Dementia Clinic, Dept. of Neurology, Odense University Hospital	The Region of Southern Denmark
Department of Geriatrics, Odense University Hospital, Svendborg Hospital	
Dementia Clinic, Dept. of Neurology, Aarhus University Hospital	The Central Denmark Region
Memory Clinic, Dept. of Neurology, Aalborg University Hospital	The North Denmark Region

Patients

The clinics have the ability to recruit patients for clinical trials with Alzheimer's disease, vascular dementia, dementia with Lewy bodies, Parkinson's disease dementia and frontotemporal dementia. Some clinics can also

recruit patients with mild cognitive impairment and Huntington's disease. Experience with clinical trials, clinical use of CSF biomarkers and neuroimaging techniques vary across the clinics.

Clinic	Patients	Clinical drug trial interest	CSF biomarkers	MRI	FDG-PET	Amyloid PiB-Pet	Tau PET	PET-MRI	Contact for trials
Danish Dementia Research Centre, Copenhagen University Hospital, Rigshospitalet	MCI, AD, VAD, DLB, FTD, HD, PDD	Phase I, II, III, IV Incl. FIH.	+	+	+	+	+	+	Dementia Consultant neurologist Peter Johannsen peter.johannsen.01@regionh.dk Huntington's disease Consultant neurologist Lene Hjermind lena.elisabeth.hjermind.01@regionh.dk
Regional Dementia Research Centre, Dept. of Neurology, Zealand University Hospital	MCI, AD, VAD, DLB, FTD, PDD	Phase II, III, IV	+	+	+	(+)			Consultant neurologist Peter Høegh phh@regionsjaelland.dk
Dementia Clinic, Odense University Hospital	MCI, AD, VAD, DLB, FTD, HD, PDD	Phase II, III, IV	+	+	+	+			Consultant neurologist Lene Wermuth lene.wermuth@rsyd.dk
Department of Geriatrics, Odense University Hospital, Svendborg Hospital	MCI, AD, VAD, DLB, FTD, PDD	Phase II, III, IV	+	+	+	(+)		+	Consultant geriatrician Søren Jakobsen soeren.jakobsen@rsyd.dk
Dementia Clinic, Aarhus University Hospital	MCI, AD, VAD, DLB, FTD, PDD, HD	Phase II, III, IV	+	+	+	+	+		Dementia Consultant neurologist Hanne Gottrup hanggott@rm.dk Huntington's disease Consultant neurologist Anette Torvin Møller anetmoel@rm.dk
Dementia Clinic, Aalborg University Hospital	MCI, AD, VAD, DLB, FTD, PDD, (HD)	Phase III, IV	+	+	+				Consultant neurologist Karsten Vestergaard k.vestergaard@rn.dk
For coordinated request to all clinics, please contact: Karina Markersen, Senior Network Manager: kma@trialnation.dk, +45 2442 5855									

Note: MCI = mild cognitive impairment; AD = Alzheimer's disease; VAD = vascular dementia; DLB = dementia with Lewy bodies; FTD = frontotemporal dementia; HD = Huntington's disease; PDD = Parkinson's disease dementia; CSF = cerebrospinal fluid; MRI = magnetic resonance imaging; FDG PET = fluorodeoxyglucose positron emission tomography; PiB = Pittsburgh compound B; + = method available in-house; (+) = method available via collaboration with other hospitals.

Diagnostic Criteria and Clinical outcome measures in clinical practice

Trial Nation Dementia uses joint diagnostic criteria for the most prevalent types of dementia. The list of diagnostic criteria will be

extended and updated. Most memory clinics have experience with diagnostic criteria for other types of dementia as well.

DIAGNOSTIC CRITERIA USED IN CLINICAL PRACTICE	
Diagnosis	Diagnostic criteria
Dementia	National Institute of Aging and Alzheimer's Association (NIA-AA) workgroup criteria (2011) ¹
Alzheimer's disease dementia	National Institute of Aging and Alzheimer's Association (NIA-AA) workgroup criteria (2011) ¹
Vascular dementia	The International Society for Vascular Behavioral and Cognitive Disorders (VASCOG) criteria (2014) ²
Dementia with Lewy bodies	The dementia with Lewy bodies Consortium criteria 3rd revision (2006) ^{3,4}
Frontotemporal dementia	The Work Group on Frontotemporal Dementia and Pick's Disease criteria (2001) ⁵

Trial Nation Dementia clinics use a minimum set of scales for the regular clinical assessment of cognition, activities of daily living

(ADL), mood and neuropsychiatric symptoms. The clinics are familiar with several other instruments and scales as well.

CLINICAL OUTCOME MEASURES USED IN CLINICAL PRACTICE	
Cognition	Mini-Mental State Examination (MMSE) ⁶ (Danish-speaking subjects) Rowland Universal Dementia Assessment (RUDAS) ⁷ (third world ethnic minority groups)
Activities of daily living	Disability Assessment for Dementia (DAD) ⁸ Functional Assessment Questionnaire (FAQ-IADL) ^{9,10}
Mood	Geriatric Depression Scale (GDS) ¹¹ either full version or abridged version (GDS-15)
Neuropsychiatric symptoms	Neuropsychiatric Inventory (NPI) ¹² either full version or abridged version (NPI-Q)

Trial Nation Dementia clinics have further agreed upon a minimum MRI protocol for dementia. Minimum MRI protocol for standard clinical workup:

- T1 weighted images with coronal reconstruction
- T2 weighted images with axial reconstruction

- T2-FLAIR images with axial reconstruction
- T2* weighted images with axial reconstruction

Updates regarding Trial Nation Dementia are posted on:

- www.trialnation.dk
- www.videnscenterfordemens.dk
- www.linkedin.com/in/trialnation

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