

**Trial Nation**  
Clinical Trials Denmark



DANISH DEMENTIA  
RESEARCH CENTRE

## CENTER FOR DEMENTIA

A network of Danish memory clinics

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

# Trial Nation Dementia

Trial Nation Dementia is a network of Danish memory clinics involved in clinical research with medicinal products in Alzheimer's disease among many 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



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

- 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, 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.

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, Svendborg HD-Clinic, Dept. of Neurology, Odense University Hospital	The Region of Southern Denmark
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 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 bio-markers	MRI	FDG-PET	Amyloid PIB-Pet	Tau PET	PET-MRI	Contact for trials
Danish Dementia Research Centre, Copenhagen University Hospital, Rigshospitalet	AD, DLB, FTD, HD, MCI, PDD, VAD	Phase I, II, III, IV Incl. FIH.	+	+	+	+	+	+	Dementia Clinical trials director, Neurologist Kristian Steen Frederiksen kristian.steen. frederiksen@regionh.dk  Huntington's disease Consultant neurologist Lene Hjermand lena.elisabeth.hjermand. 01@regionh.dk
Regional Dementia Research Centre, Dept. of Neurology, Zealand University Hospital	AD, DLB, FTD, MCI, PDD, VAD	Phase II, III, IV	+	+	+	(+)			Consultant neurologist Peter Høegh phh@regionsjaelland.dk
Dementia Clinic, Dept. of Neurology, Odense University Hospital, Svendborg	AD, DLB, FTD, HD, MCI, PDD, VAD	Phase II, III, IV	+	+	+	+		+	Neurologist Berit Dall Sørensen berit.dall.sorensen@rsyd.dk  Huntington's disease Professor Consultant neurologist Morten Blaabjerg morten.blaabjerg1@rsyd.dk
Dementia Clinic, Aarhus University Hospital	AD, DLB, FTD, HD, MCI, PDD, VAD	Phase II, III, IV	+	+	+	+	+		Dementia Consultant neurologist Hanne Gotttrup hanngott@rm.dk  Huntington's disease Consultant neurologist Anette Torvin Møller anetmoel@rm.dk
Dementia Clinic, Aalborg University Hospital	AD, DLB, FTD, (HD), MCI, PDD, VAD	Phase III, IV	+	+	+				Consultant neurologist Karsten Vestergaard k.vestergaard@rn.dk

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

### For coordinated request to all clinics, please contact

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# 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) <sup>1</sup>
Alzheimer's disease dementia	National Institute of Aging and Alzheimer's Association (NIA-AA) workgroup criteria (2011) <sup>1</sup>
Vascular dementia	The International Society for Vascular Behavioral and Cognitive Disorders (VASCOG) criteria (2014) <sup>2</sup>
Dementia with Lewy bodies	The dementia with Lewy bodies Consortium criteria 3rd revision (2006) <sup>3,4</sup>
Frontotemporal dementia	The Work Group on Frontotemporal Dementia and Pick's Disease criteria (2001) <sup>5</sup>

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) <sup>6</sup> (Danish-speaking subjects) Rowland Universal Dementia Assessment (RUDAS) <sup>7</sup> (third world ethnic minority groups)
Activities of daily living	Disability Assessment for Dementia (DAD) <sup>8</sup> Functional Assessment Questionnaire (FAQ-IADL) <sup>9,10</sup>
Mood	Geriatric Depression Scale (GDS) <sup>11</sup> either full version or abridged version (GDS-15) or Major Depression Inventory (MDI)
Neuropsychiatric symptoms	Neuropsychiatric Inventory (NPI) <sup>12</sup> 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](http://www.trialnation.dk)
- [www.videnscenterfordemens.dk](http://www.videnscenterfordemens.dk)
- [www.linkedin.com/in/trialnation](https://www.linkedin.com/in/trialnation)

## References

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# Trial Nation

## Get in touch

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