

Early diagnosis, symptoms and outcome

Read about DDRC's research projects on early diagnosis, symptoms and outcome.



A brief case-finding instrument for dementia (BASIC)

The *Brief Assessment of Impaired Cognition* (BASIC) was developed in 2017 to 2018 as a brief and accurate case-finding instrument for dementia and cognitive impairment. Previous research indicates that combining cognitive tests with informant and self-report may improve accuracy in dementia case-finding. BASIC integrates these three sources of information.

The Danish College of General Practitioners recommends BASIC for assessment of patients with symptoms of dementia in general practice.

BASIC has been validated twice in Denmark. In 2018 to 2019 it was validated in five Danish memory clinics in patients aged 65 years or above. A total of 300 cases and 135 controls were included in the validation. Head-to head comparison of the sensitivity and specificity of BASIC and MMSE showed that BASIC has significantly higher discriminant validity than MMSE.

In 2021 to 2022 BASIC was validated in 14 general practice clinics across Denmark involving 275 patients aged 70 years or above. The results will be published in 2024. Further validation in major European countries is underway.

BASIC is currently available in English, Spanish, French, Italian, Chinese, Japanese and Danish. Please, contact Kasper Jørgensen for further information.

Download the English version of BASIC

Video manual for BASIC (in English)

The English version of BASIC is available as online supplemental material in <u>the International Journal of</u> <u>Geriatric Psychiatry</u>. An Excel scoring sheet for BASIC is also available.

BASIC may be used without restrictions for clinical and research purposes.

Neuropsychologist Kasper Jørgensen

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Publications

Jorgensen K, Nielsen TR, Nielsen A, et al. Brief Assessment of Impaired Cognition (BASIC)-Validation of a new dementia case-finding instrument integrating cognitive assessment with patient and informant report. Int J Geriatr Psychiatry, 2019;34(11):1724-33.

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A brief questionnaire for identification of cognitive impairment in community settings (BASIC-Q)

The Brief Assessment of Impaired Cognition Questionnaire (BASIC-Q) was developed and validated in 2018 to 2019. The rationale was to develop a questionnaire-based version of BASIC (BASIC-Q) for identification of cognitive impairment in community settings. Previous research indicates that combining brief cognitive assessment with informant and self-report may improve accuracy in dementia case-finding. BASIC-Q integrates assessment of orientation with informant and self-report.

BASIC-Q is used by primary healthcare professionals in the City of Copenhagen for assessement of older citizens with cognitive symptoms.

BASIC-Q has been validated twice in Denmark. In 2018 to 2019 it was validated in five Danish memory clinics in patients aged 65 years or above. A total of 300 cases and 135 controls were included in the validation. Head-to head comparison of the sensitivity and specificity of BASIC-Q and MMSE showed that BASIC-Q has significantly higher discriminant validity than MMSE.

In 2021 to 2022 BASIC-Q was validated in 14 general practice clinics across Denmark involving 275 patients aged 70 years or above. Further validation in major European countries is underway.

BASIC-Q is currently available in English, Spanish, French, Italian, Arabic and Danish. Please, contact Kasper Jørgensen for further information.

The BASIC-Q record form in English is available here

The BASIC-Q manual in English is available here

Video manual for BASIC-Q (in English)

The English version of BASIC-Q is available as online supplemental material in <u>the International Journal of</u> <u>Geriatric Psychiatry</u>. An Excel scoring sheet for BASIC-Q is also available.

BASIC-Q may be used without restrictions for clinical and research purposes.

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Publications

Jorgensen K, Nielsen TR, Nielsen A, Waldonff FB, Waldemar G. Brief Assessment of Impaired Cognition Questionnaire (BASIC-Q)-Development and validation of a new tool for identification of cognitive impairment in community settings. Int J Geniatr Psychiatry. 2020;35(7):693-701

Jorgensen K, Nielsen TR, Nielsen A, Waldorff FB, Waldemar G. Validation of the Brief Assessment of Impaired Cognition and the Brief Assessment of Impaired Cognition Questionnaire for identification of mild cognitive impairment in a memory clinic setting. Int J Geriatr Psychiatry. 2020;35(8):907-15

Oxbøll A-B, Jorgensen K, Nielsen TR, Christiansen SD, Nielsen A, Waldorff FB, et al. Diagnostic accuracy of BASIC-Q for detection of cognitive impairment in a primary care setting – a cross-validation study. BMC Geriatr. 2024



Identification and diagnostic evaluation of possible dementia in general practice (the HUSK-study)

The aim of the HUSK – study was to investigate the rate of diagnostic evaluation of dementia for patients in whom a suspicion of dementia was raised, and to investigate reasons why a diagnostic evaluation was not always performed.

In the study participated 17 practices comprising a total of 24 GPs in the central district of Copenhagen. Patients aged 65 years or older consulting their GP, regardless of reason for the encounter, were asked to participate in the study. In total 793 patients were included in the cohort in 2002. The cohort have been followed in the Danish national health registries in the years after inclusion.

Contact

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Publications

Quaade AS, Davidsen AS, Siersma V et al. Subjective memory complaints and future depression in primary care patients: A four-year follow-up study. General hospital psychiatry. 2018;55:4-9.

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Siersma V, Waldemar G, Waldorff FB. Subjective memory complaints in primary care patients and death from all causes: a four-year follow-up. Scandinavian journal of primary health care. 2013;31(1):7-12.

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Waldorff FB, Rishoj S, Waldemar G. If you don't ask (about memory), they probably won't tell. The Journal of family practice. 2008;57(1):41-4.

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Earliest memory symptoms in Alzheimer's disease (MYSELF)

Subjective Memory Symptoms in the Earliest Clinical Phases of Alzheimer's Disease (MYSELF) is a ongoing project focusing on possible impairments in personal memory (autobiographical memory) and sense of identity in the earliest phases of Alzheimer's disease (AD). Patients with amnestic Mild Cognitive Impairment due to AD, mild AD dementia and Subjective Cognitive Decline are included.

The project is supported by Alzheimerforskningsfonden (Danish Alzheimer Research Fund) and is a collaboration between researchers at DDRC and at Department of Psychology, University of Copenhagen.

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Publications

A Bruus, G Waldemar, A Vogel. Impairment of Episodic-Specific Autobiographical Memory in Individuals with Subjective Cognitive Decline and in Patients with Prodromal or Mild Alzheimer's Disease. Journal of Alzheimer's Disease 2021 84 (4), 1485-1496

A Bruus, G Waldemar, A Vogel. Subjective Complaints are Similar in Subjective Cognitive Decline and Early-Stage Alzheimer's Disease when Assessed in a Memory Clinic Setting, Journal of Genatric Psychiatry and Neurology 2023, 08919887231164352

A Vogel, A Bruus, G Waldemar Developing a Danish version of the LASSI-L test - reliability and predictive value in patients with mild cognitive impairment, mild dementia due to AD and subjective cognitive decline. Aging Neuropsychol Cogn 2022; 12;1-13

Quality of life in dementia

A variety of assessment tools have developed to examine the Quality of Life in persons with dementia. From 2009 to 2012 different Quality of Life scales were investigated in Danish cohorts. The purpose of these studies was to assess the validity of different Quality of Life measures and to investigate the longitudinal trajectories of Quality of Life in persons with mild Alzheimer's disease as rated by patients and proxies.

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Publications

Vogel A, Bhattacharya S, Waldorff FB, et al. Proxy rated Quality of life in Alzheimer's disease - a 3 year longitudinal study, International Psychogeriatrics. 2012;24:82-89.

Bhattacharya S, Vogel A, Hansen MH, et al. Generic and Disease Specific Measures of Quality of Life in Patients With Mild Alzheimer's Disease. Dementia and Geriatric Cognitive Disorders. 2010;30:327-333.



Early cognitive deficits in dementia – validating neuropsychological tools

Neuropsychological dysfunction in the earliest phases of dementia diseases (especially Alzheimer's disease) has been a highly prioritized area of research in DDRC.

Several projects aiming at describing cognitive changes in Mild Cognitive Impairment and early stage Alzheimer's disease have been conducted with the overarching aim to develop and validate cognitive tests for diagnosing and monitoring change in neurodegenerative dementia disease. Many of these tests have been implemented as routine tools in everyday practice in Danish memory clinics.

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Publications

RK Hendel, MNN Hellem, LE Hjermind, JE Nielsen, A Vogel. On the association between apathy and deficits of social cognition and executive functions in Huntington's disease. Journal of the International Neuropsychological Society 2022. doi: 10.1017/S135561772200036

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A Vogel, J Stokholm, K Jørgensen. Normative data for eight verbal fluency measures in older Danish adults. Aging, Neuropsychology and Cognition 2020, 27, 114-124

A Vogel, C Mellergaard, G Waldemar, KS Frederiksen. Impaired performances on the category cued memory test in mild Alzheimer's disease and dementia with Lewy bodies: A comparative validity study. Applied Neuropsychology 2022

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Latest update: 10. December 2020