

Memory clinic introduction

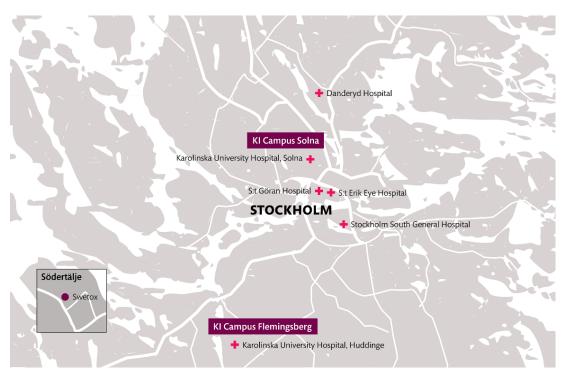
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Karolinska Institutet One university – two campuses



- Campus Solna
- Campus Flemingsberg

Collaboration with and presence at the main hospitals, local health authorities and primary care facilities in the Stockholm region.



KI at Campus Flemingsberg





Maria Eriksdotter



Campus Flemingsberg







Two highly specialized Memory Clinics at Karolinska University Hospital in Huddinge and in Solna



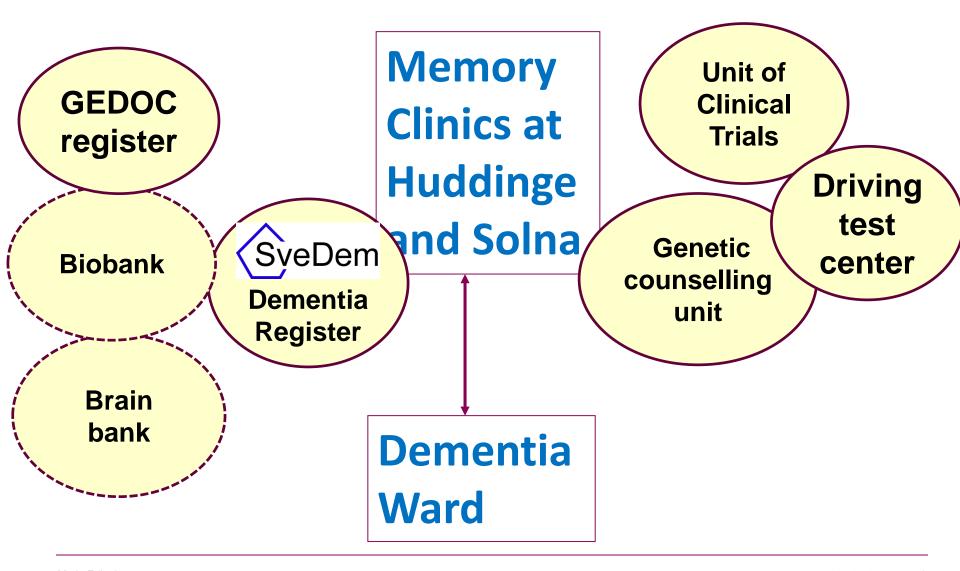




Theme Aging



Karolinska Univ Hospital, Huddinge and Solna





Demographics from SveDem on persons with dementia 2007-2018



Photo: Yanan Li

Demographics	2007-2018
N	82 188
Women (%)	58
Age, mean (y)	79,6
Stratification by age (%)	
<65	4
65-74	19
75-84	48
≥85	29
Living in own home (%)	91
Living alone (%)	48
MMSE median	22
MMSE ≥ 25 (%)	24
MMSE <10 (%)	3

SveDem annual report 2018



Some facts about the Memory Clinic in Huddinge



- Established in 1990
- Catchment area; 350 000, 26 primary are units also patients < 65 y</p>
- Total visits per year: 9000 including ca 600 new referrals
- Mean age at referral: 63 y

 Mean age at dementia: 75 y
- Mean MMSE at referral: 26
 Mean MMSE at dementia: 23



Some facts about Memory Clinic in Solna



- Clinic started April 2018
- Patients referred from the greater Northern
 Stockholm area, including Stockholm City north
- Specialized referrals; Patients younger than 70 years, still working.
- Mean age at referral: 58 y
 Mean age at dementia diagnosis: 61 y, MMSE 24



Memory unit, Karolinska-Huddinge



M 51

Memory Outpatient Clinic M 51

- out-patient cognitive assessment
- mild dementia, younger patients
- MCI (assessment, follow-up)
- asymptomatic patients with high risk-profile

R 71

Inpatient ward R 71

- 16 beds
- advanced dementia or delirium
- fast progression
- BPSD / treatment
- ADL assessment
- planning för long-term care settings

Dementia work-up according to **National guidelines**



Basal dementia work-up

Primary care

- Patient history
- Physical examination
- Routine blood work
- MMSE and clock test
- Evaluation of functional ability
- CT brain scan

Extended work-up

Memory clinic

Neuropsychology testing

Testing by occupational therapist

Testing by speech therapist

MRI scan

Lumbar puncture-CSF analyses

PET-Scan

EEG



National Swedish dementia Guidelines, 2010, Revised 2017

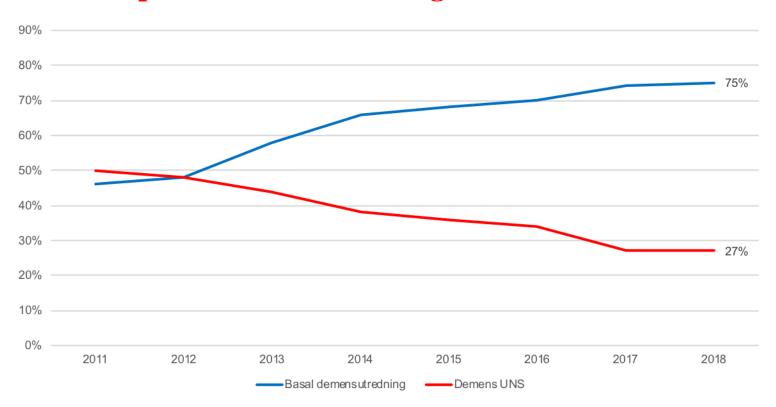




In primary care:

When quality of dementia work-up improves

Number of unspecified dementia diagnoses is reduced



SveDem annual report 2018

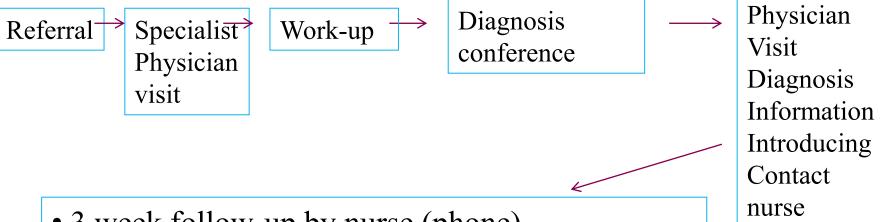
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Patient Flow in the memory clinic at Huddinge



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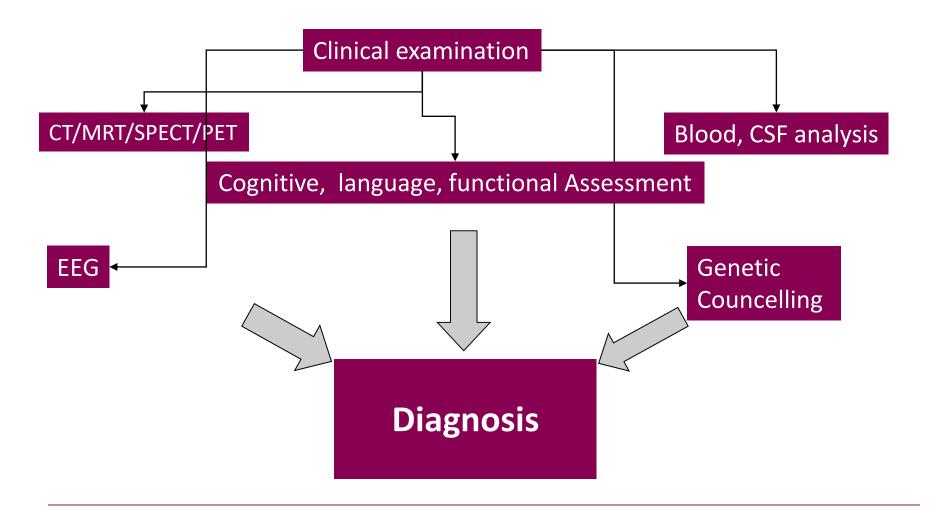


- 3 week follow-up by nurse (phone)
- Establish contact with primary care
- 6-month follow-up visit by physician

Next follow-up by primary care physician

Diagnostic work-up at Memory clinic at Huddinge







Speedy track at Solna





Monday: Multiprofessional teamwork: Meetings with physician, nurse, neuropsychologist, occupational therapist, speech therapist. Everyone visits the patient in one single office. Investigation using 3T MRI.

Tuesday: Lumbar punction, possible investigation using 3T MRI.

Thursday: Team conference with the entire team for consensus diagnosis.

Friday: Diagnosis revisit, possible inclusion in clinical trial when applicable (pharmacological studies or lifestyle interventions), visit to dentist or inclusion in patient group with neuropsychologist.

Work process:



• Daily referral assessments with the entire team





- The clinic is integrated with front line clinical research from day one
- Use of set times for lumbar punction/MRI/blood sampling
- Use of digital workflows and tools
 - Digital medical records
 - 1177/online national Health Care system
 - Digital questionnaire sent to the patient
 - Alignment of use of templates

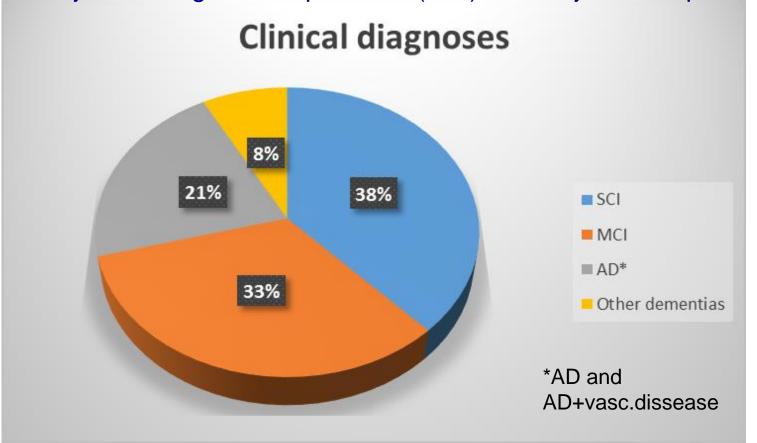




DIAGNOSES AT HUDDINGE Based on 1700 patients



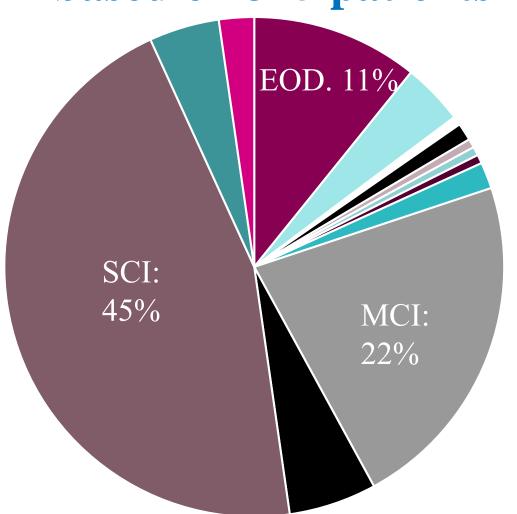
Mild Cognitive Impairment (MCI) – Winblad et al, 2004 criteria Subjective Cognitive Impairment (SCI) – no objective impairment





Diagnoses at Solna based on 315 patients





315 patients

Average age: 58,4 years

43% 57%



Successful research at the memory clinics

- Clinical Cohort follow-ups
- SveDembased registry studies
- Biomarker studies: CSF, lab, neuroimaging (MRI, PET), EEG
- Clinical trials on prevention and dementia treatments
- Studies using digital tools, APPs, robotics, AI









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