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# Dementia with Lewy Body (DLB) Symptoms Hidden within the Diagnosis "Dementia Not Otherwise Specified" a Cross-Sectional Study in 40 Swedish Nursing Homes.

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2017

*Document Version:* Publisher's PDF, also known as Version of record

Link to publication

Citation for published version (APA):

Zahirovic, I., Londos, E., Torisson, G., & Wattmo, C. (2017). *Dementia with Lewy Body (DLB) Symptoms Hidden within the Diagnosis "Dementia Not Otherwise Specified" a Cross-Sectional Study in 40 Swedish Nursing Homes.*. Poster session presented at Alzheimer's Association International Conference (AAIC), 2017, London, United Kingdom.

*Total number of authors:* 4

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# Core Clinical Features of Dementia with Lewy Body (DLB) hidden within Different Dementia Diagnoses; a Cross-Sectional Study in 40 Swedish Nursing Homes

# LUND UNIVERSITY Faculty of Medicine

# Background

DLB is a neurocognitive disorder with core elinical features; such as Parkinsonian, visual halkunations, functianitian cognitorio reacesive daytime despress and racid per movement sleep behavior disorder (HBD) (1, 2), DLB is often misdiagnosed and unrecognized in elderly individuals. A diagnosis of DLB important because of the risk of alrephysichic hypersensitivity, and the benefit of cholinestensae inhibitor treatment (3, 4). Moreover, appropriate treatment of symptoms can improve quality of file considerably for bath in individual with DLB and their cangelvers.

We hypothesized that we would find potential DLB signs in nursing home (NH) residents, hidden within different dementia diagnoses besides DLB. We also hypothesized a difference in treatment between these different diagnoses, mostly in the usage of antidementia medication.

### Methods

Between 2012 and 2013, we applied a specially designed questionnaire that covered circles (and DE) applies of the Applies of the Applies and Applies

#### ► Table 1: The Pharmacological treatment in the different diagnoses

Diagnoses N (%)	The Study Population * Nursing Home residents N (%)	DLB0-1 N (%)	DLB2-4 N (%)	Antidementia Medication N (%)	Antipsychotic Medication N (%)
AD	115 (26)	92 (80)	23 (20)	71 (64)	30 (26)
AD + AD Mix	97 (22)	83 (86)	14 (14)	66 (69)	25 (26)
VaD	85 (19)	69 (81)	16 (19)	5 (6)	20 (24)
DLB / PDD	22 (5)	2 (9)	20 (91)	13 (62)	5 (23)
Dementia NOS	121 (28)	102 (84)	19 (16)	37 (32)	22 (18)

\* Nursing homes residents were: 610 (all residents) and 440 (residents with dementia diagnosis) Alzheimer's disease (AD), Alzheimer's mixed (AD-Mix), Vascular dementia (VaD), Dementia with Lewy bodies (DLB) and Parkinson's disease dementia (PDD).

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## Results

Participants: 650 nursing home residents, 610 (94%) were included (595 medical records). The mean age was 86.0 ± 7.5 years; 467 (75%) were women.

2-4 of the main DLB signs were found in 20-29% of the elderly with different dementia diagnoses (beside the DLB/PDD diagnosis). In the residents with a DLB/PDD diagnosis, 91% had 2-4 main DLB signs (Fig.3).

The dementia diagnoses of the residents according to the medical records; AD in 115 (19%), AD-Mix in 97(16%), VaD in 85 (14%) and DLB/PDD in 22 (5%), Dementia NOS in 121 (20%) and no formal dementia diagnosis in 155 (26%).

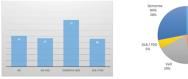
The antidementa medication did not differ between residents with 0-1 DLB (32%) and 2-4 DLB (37%) signs. The antidementa medication among different dementia diagnoses variade. In the resident with a Dementian NOS diagnosis, the prevalence of cholinesterase inhibitor or memantine treatment was only about half (32%), compared to the other dementia diagnoses (32-49%) (-0.001).

The antipsychotic treatment was found in 32% of the residents with 2-4 DLB signs and in 19% of those with 0-1 DLB signs (p=0.003). However, the antipsychotic treatment varied between 18-26% but did not differ between the dementia diagnoses.

#### ▶ Fig. 1: The unsuitable Pharmacological treatment \*



22%



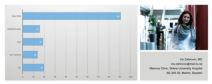
Alzheimer's disease (AD), Alzheimer's mixed (AD-Mix), Vascular dementia (VaD), Dementia with Lewy bodies (DLB) and Parkinson's disease dementia (PDD). \* Unsulatable pharmacological treatment definition: none anti-dementia medication and existing antipsycholic treatment.

# Conclusions

We conclude that about one fourth of the residents with a dementia diagnosis, beside DLB/PDD, had two or more of the four main DLB signs.

Residents with increasing number of main DLB signs are at a higher risk of receiving antipsychotic treatment. Residents without a specified dementia diagnosis have the least beneficial treatment. This emphasizes the importance of identification of specific dementia diagnoses, recognition of DLB sign and suitable treatment.

#### Fig. 3: Core Clinical DLB Features among Different Dementia Diagnoses inclusive DLB/PDD



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