

UNIVERSITÄT ZU LÜBECK

CLINICAL PREDICTORS OF DYSPHAGIA IN PARKINSON'S DISEASE

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OBJECTIVE

BACKGROUND

- reduced quality of life.

METHODS

- consistencies.
- performance in 18 standardized parameters.

RESULTS

- Dysphagia correlated weakly with worsened DSS (rs= +0.26, p=0.020, Table 3).
- Age, disease duration, BMI, or dysarthria score did not interact with swallowing.

CONCLUSIONS

REFERENCE

1. Simons JA. Munich Dysphagia Test–Parkinson's Disease: A new clinical questionnaire for early assessment of dysphagia in PD. Eur Soc Swallow Disord. Dysphagia 2013;28(2):289



• To investigate clinical characteristics and swallowing impairments to predict oropharyngeal dysphagia and laryngeal aspiration risk.

Dysphagia is a relevant but often underdiagnosed problem in patients with Parkinson's Disease (PD), leading to severe pulmonary disease and

Identification of clinical parameters predicting dysphagia should aid deciding when to initiate further diagnostic procedures.

• 77 consecutive PD patients were assessed by neurological examinations, clinical and endoscopic swallowing evaluations (FEES) with different

Patients were assigned to groups 'not dysphagic (ND)', 'oropharyngeal dysphagia (OD)' and 'with penetration/aspiration (P/A)' according to their

• Association (+/-) between dysphagia severity and the predictor variables Hoehn & Yahr stage, UPDRS III, disease duration, age, Drooling Score Scale (DSS), body mass index, and dysarthria score were analyzed using Spearman's Rank Correlation or Kendall's Tau (α =0.05).

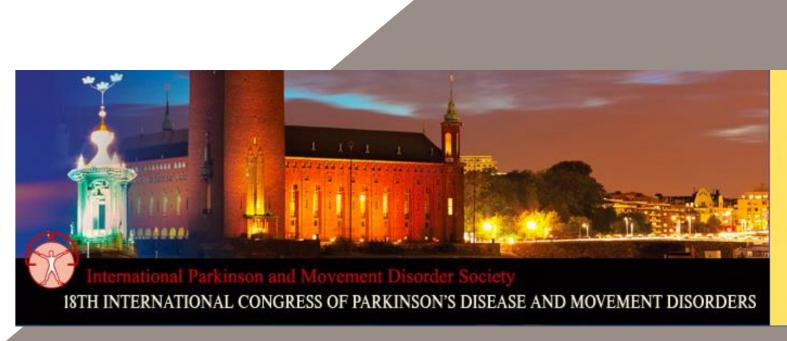
• 21 patients were classified as ND (mean age 68.8 \pm 7.4 years, median HY 3), 34 patients as OD (70.7 \pm 8.4, HY3) and 22 as P/A (71.8 \pm 9.5, HY 4). The higher the stage of PD the more frequent were swallowing problems (tb= +0.43, p < 0.001, Table 1).</p> Whereas HY 4/5 were represented in group ND with <10/0%, they were found more frequently in OD (38%) and P/A (77%). Dysphagia correlated moderately with worsened motor performance (rs= +0.48, p < 0.001, Table 2).</p> Significant differences of UPDRS III were detected between ND (20.89 \pm 12.71) and OD (31.50 \pm 9.77), or P/A (38.46 \pm 14.28).

• Dysphagia is shown to be closely associated with higher HY stages and worsened motor performance, which therefore can be used as predictors. • For practical routine we suggest to screen for dysphagia when patients are HY ≥ 4 , or have scores at about > 30 in the UPDRS motor part. • These cut-offs need confirmation by further research. A reasonable screening approach could be a recently validated patient questionnaire¹.



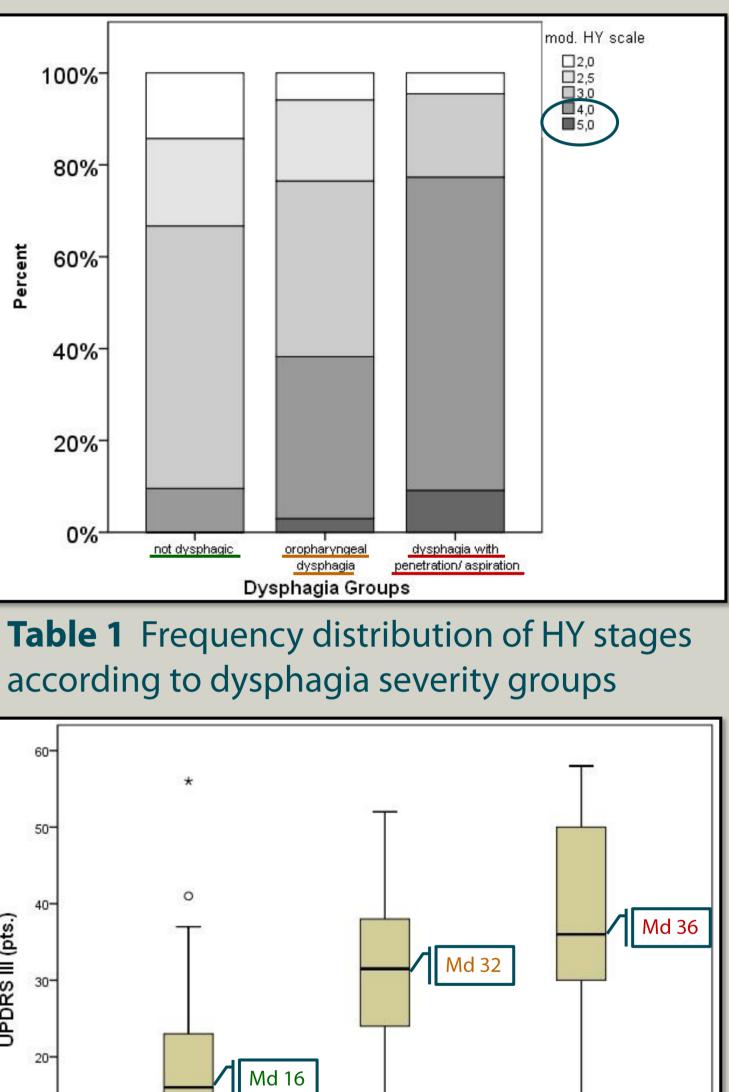
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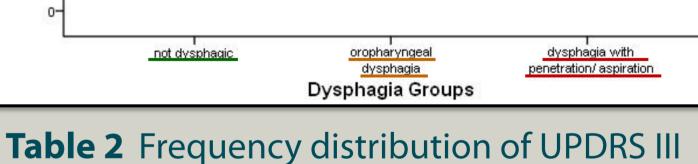












values according to dysphagia severity groups

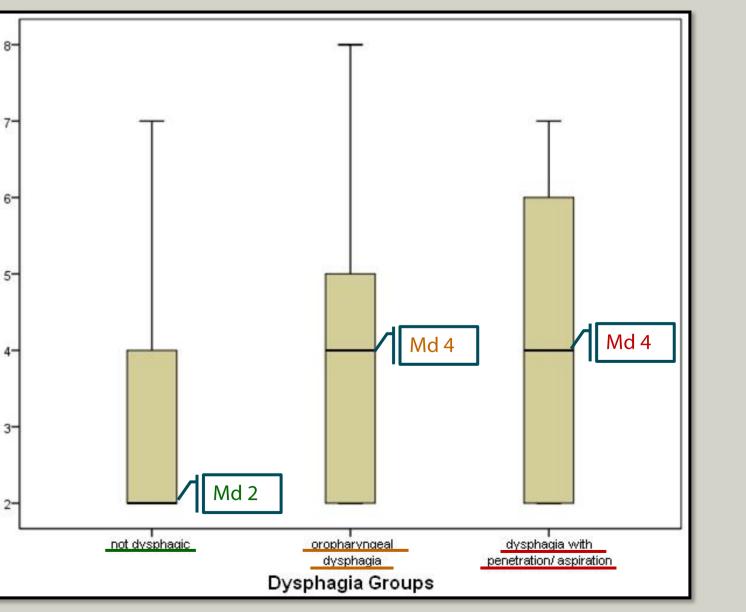


Table 3 Frequency distribution of DSS sum
 scores according to dysphagia severity groups

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