**Speech Changes in Neurodegenerative Diseases Relate to Clinical Outcomes**

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### Introduction

- Changes across different domains of speech and language occur in neurodegenerative diseases such as Alzheimer’s Disease.1,5
- We can differentiate between healthy older speakers and speakers with primary progressive aphasia, Alzheimer’s disease, and post-stroke aphasia.

**How do speech changes in patients with neurodegenerative diseases relate to clinical outcomes?**

### Methods

N = 130 patients diagnosed with various neurodegenerative diseases including Alzheimer’s Disease and Frontotemporal dementia variants

Speech recorded from Picture Description Task:

- Western Aphasia Battery (WAB)
- Mattis Dementia Rating Scale (DRS)
- New Adult Reading Test (NART)
- Mini-Mental Status Exam (MMSE)

Clinical outcomes measured with:

- Demographics
- Sex
- Age
- Years of education
- MMSE

- Disease and Frontotemporal diseases including Alzheimer's
- Various neurodegenerative diseases such as Alzheimer’s Disease.

- Patients with more severe neurodegenerative disease symptoms use shorter words, fewer prepositions, and fewer nouns.

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### References


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