A systematic review of standardized outcome measures used in aphasia rehabilitation, including meta-analyses

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INTRODUCTION

- 30-40% of stroke survivors experience aphasia primarily impacting their speaking, listening, reading, and writing skills, and in some cases, other cognitive skills (e.g., attention).

- Measurement tool use in aphasia rehabilitation is inconsistent.

- Steps have been taken to improve measurement practice in aphasia rehabilitation (e.g., core outcome set),

- Average significance change on these outcome measures remains unknown.

RESEARCH AIMS

1. Classification of interventions and outcome measures according to their association with health and health-related domains (e.g., QOL) (not presented here).

2. Calculation of the mean significant change reported on the most frequently-used and most relevant outcome measures.

3. Determine if the SES significantly differed across subgroups for the various outcome measures (i.e., post test outcome, dosing, treatment type).

METHODS

Identification

- Databases (n = 15,809)
- Other sources (n = 151)

Records after duplicates removed (n = 2,298)

Screening

- Tally and abstracts (n = 9,286)

Excluded (n = 8,428)

Eligibility

- Full-text articles (n = 8,585)

Excluded (n = 5,548)

Included

- Studies included in qualitative synthesis (n = 107)

- Studies included in quantitative synthesis (n = 310)

Independent Groups

- Pre-Post Single Group (Study n=70)
- Independent Groups (Study n=8)

- Random-effects meta-analysis
- Raw unstandardized mean difference
- E: Pre-Post M: MD
- Effect Direction (+/ - Pre-Post)

Publication Bias

- funnel plot

- heterogeneity (i.e., Q, df, p-value)

Subgroup and sensitivity analyses

- ICF
- TPO

RESULTS

- Meta-analyses were conducted using Comprehensive Meta-analysis Software (CMA),

CONCLUSIONS

- Benchmarks have been established to evaluate overall aphasia severity (WAB-AQ), functional communication (CETI) and naming ability (BNT).

- More work is needed to identify change metrics on additional assessments that span the ICF.

SELECTED REFERENCES

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REFERENCES