Very Early Rehabilitation in SpEech (VERSE): A prospective, multicentre randomised, controlled, open-label, blinded-endpoint trial in patients with aphasia following acute stroke

<u>E. Godecke</u>^{1,2}, E. Armstrong¹, T. Rai³, S. Middleton^{2,4}, N. Ciccone¹, M. Rose⁵, A. Holland⁶, A. Whitworth⁷, F. Ellery⁸, G.J. Hankey⁹, D.A. Cadilhac^{2,10}, J. Bernhardt^{8,2}.

¹Edith Cowan University, School of Medical and Health Sciences, Perth, Australia.

³University of Technology Sydney, Graduate Research School, Sydney, Australia.

⁵La Trobe University, Aphasia Lab, Melbourne, Australia.

⁶University of Arizona, Speech-Language and Hearing Sciences, Arizona, USA.

Background

Limited evidence exists to support very early intensive aphasia rehabilitation. VERSE is a PROBE trial designed to determine whether two types of intensive aphasia therapy, beginning within 14 days of acute stroke, provide greater therapeutic and cost-effectiveness than usual care.

Methods

Participants with aphasia following acute stroke were recruited from 17 acute-care hospitals across Australia/New Zealand and randomised (stratified by aphasia severity) using a centralised computer-generated system to receive Usual Care (UC), Usual Care-Plus (UC+) (usual care plus 20 sessions of direct aphasia therapy) or VERSE therapy (usual care plus 20 sessions of a prescribed direct aphasia therapy). The sample size required for the primary outcome (20% greater score on the Aphasia Quotient (AQ) of the Western Aphasia Battery) at 12 weeks was 246 patients. Secondary outcomes included AQ, discourse, quality of life, and depression measures at 12 and 26 weeks. Cost evaluation will be reported separately.

Results

13,654 patients were screened; 25% had aphasia and of these 25% were trial eligible. 246 patients were recruited. Median scores were: NIHSS 9, mRS 4; 92% had an ischaemic stroke. Median age was 75 years, 50% were female. Baseline characteristics were equivalent for stroke and aphasia severity, age, gender and aetiology for UC (n=81), UC+ (n=82) and VERSE (n=83). Eighty three percent of participants completed the trial and 'data-lock' occurred on 30/7/2018.

Discussion

The VERSE trial was completed with high fidelity data. The overall results, to be reported in this paper, will influence future aphasia rehabilitation practice after acute stroke.

Keywords

randomised controlled trial, aphasia, rehabilitation, early, intensive

²Centre of Research Excellence in Stroke Rehabilitation and Brain Recovery, Florey Institute of Neuroscience and Mental Health, Melbourne, Australia.

⁴St Vincent's Health Australia- Sydney and Australian Catholic University-, Nursing Research Institute, Sydney, Australia.

⁷Curtin University, School of Occupational Therapy- Social Work and Speech Pathology, Perth, Australia.

⁸University of Melbourne, Florey Institute of Neuroscience and Mental Health, Melbourne, Australia.

⁹University of Western Australia, School of Medicine and Pharmacology, Perth, Australia.

¹⁰Monash University, School of Clinical Sciences at Monash Health, Melbourne, Australia.