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Full title:

Information provision for stroke survivors and their carers: Cochrane Review

Authors' names, academic degrees, and affiliations:

Thomas F Crocker, MA, MSc, PhD [1]

Lesley Brown, PhD [1]

Natalie Lam, MSc, PGDip, MPH [1]

Faye Wray, MSc, PhD [1]

Peter Knapp, RGN, BA, PhD, SFHEA [2]

Anne Forster, BA, PhD, FCSP [1]

1: Academic Unit for Ageing and Stroke Research (University of Leeds), Bradford Institute for Health Research, Bradford Teaching Hospitals NHS Foundation Trust, Bradford UK

2: Department of Health Sciences, University of York and the Hull York Medical School, York, UK

Short title (not to exceed 50 characters, including spaces)

Information provision for survivors and carers

Name, email address, and complete address of corresponding author

Thomas F Crocker

Tom.Crocker@bthft.nhs.uk

Academic Unit for Ageing and Stroke Research, Bradford Institute for Health Research, Bradford Royal Infirmary, Duckworth Lane, Bradford. BD9 6RJ UK The total word count of the manuscript (including Title Page, Abstract, Text, References, ...): 1015

department Twitter handle: @AUASResearch

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The provision of appropriate, accurate and timely information and advice about stroke is a recommended component of stroke services. Patients should have information that empowers them to share in decisions about their care, access appropriate services and adjust to life after stroke. Yet research suggests that survivors' understanding of stroke, its consequences, and the support available, remains poor. Stroke survivors and carers routinely report dissatisfaction with information provision, and a need for relevant and usable information.

In this review we categorised information provision as either active or passive: active information provision included active participation with subsequent opportunities for clarification and reinforcement; passive information provision provided no systematic follow-up or reinforcement procedure.

Objectives

Primary objective: to assess the effects of active or passive information provision for stroke survivors (people with a clinical diagnosis of stroke or transient ischaemic attack (TIA)) or their identified carers. Primary outcomes: knowledge about stroke and stroke services, and anxiety.

Search methods

Searches of the Cochrane Stroke Group Specialised Register were updated on 28 September 2020 and for ten other databases to May/June 2019, including: CENTRAL, MEDLINE, Embase, and CINAHL. We searched seven study registers and checked reference lists of reviews.

Selection criteria

Randomised trials involving stroke survivors, their identified carers or both, where information provision was the difference in treatment, or comparisons were between active and passive information provision.

Data collection and analysis

Two review authors independently assessed eligibility, extracted data and judged risk of bias. We used GRADE methods to assess the overall certainty of the evidence.

Main results

We retrieved 45,483 records from our electronic search updates and identified 4413 records from other sources. Following screening we assessed eligibility of 190 full-text reports. Twelve new studies were included. The previous version of the review already included 21 studies.

This updated review includes 33 studies involving 5255 stroke-survivor and 3134 carer participants. Twenty-two trials evaluated active information provision and 11 trials evaluated passive information provision. Most trials were at high risk of bias and the following estimates have low certainty, unless stated otherwise.

For stroke survivors, active information provision may improve stroke-related knowledge (standardised mean difference (SMD) 0.41, 95% confidence interval (CI) 0.17 to 0.65; 3 studies, 275 participants), and may reduce Hospital Anxiety and Depression Scale Anxiety subscale (HADS-A) cases and scores slightly, where a lower score equals fewer anxiety symptoms (risk ratio 0.85, 95% CI 0.68 to 1.06; 5 studies, 1132 participants; mean difference (MD) -0.73, 95% CI -1.10 to -0.36; 6 studies, 1171 participants). For carers, active information provision may reduce HADS-A scores slightly (MD -0.40, 95% CI -1.51 to 0.70; 3 studies, 921 participants). The evidence is very uncertain (very low certainty) for the effects of active information provision on carers' stroke-related knowledge, and cases of anxiety.

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For stroke survivors, passive information provision may slightly increase HADS-A score (MD 0.67, 95% CI –0.37 to 1.71; 3 studies, 227 participants) and the evidence is very uncertain for the effects on stroke-related knowledge and cases of anxiety. For carers, the evidence is very uncertain for the effects of passive information provision on stroke-related knowledge, and anxiety.

Implications for practice

Although the effects of information provision remain uncertain, these results suggest that strategies which actively involve stroke survivors and carers and include planned follow-up for clarification and reinforcement should be used in routine practice, and favoured over passive approaches.

Implications for research

Direct comparison of active and passive approaches to information provision would help confirm these tentative implications. Information provision for carers and people with aphasia and cognitive impairment requires further attention.

Disclosures

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This paper is based on a Cochrane Review published in The Cochrane Library 2021, Issue 11 (see <u>www.thecochranelibrary.com</u> for information). Cochrane Reviews are regularly updated as new evidence emerges and in response to feedback, and The Cochrane Library should be consulted for the most recent version of the review.¹ We are grateful to the Cochrane Stroke Group for their support in producing this update and the many individuals acknowledged in the Cochrane Review, without which this would not have been possible.

Reference

 Crocker TF, Brown L, Lam N, Wray F, Knapp P, Forster A. Information provision for stroke survivors and their carers. Cochrane Database of Systematic Reviews 2021, Issue 11. Art. No.: CD001919.pub4. DOI: 10.1002/14651858.CD001919.pub4.

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