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Fatigue after stroke is common and distressing to patients. It is unknown how to best treat fatigue after stroke, and a number of different interventions may, in theory, be of benefit. Our main objective was to determine whether any treatment for fatigue after stroke reduces the proportion of patients with fatigue, the severity of fatigue, or both.

Materials and Methods

Search Strategy

Selection Criteria
We included randomized trials of any intervention aimed at treating fatigue in adult patients with stroke, with fatigue as a primary or a secondary end point.

Data Collection and Analysis
Two reviewers independently scrutinized potentially relevant studies, applied the inclusion criteria, assessed trial quality, and extracted the data. We performed a narrative review; we had intended to perform a meta-analysis, but this was not possible because the interventions were too dissimilar and the data could not be combined.

Results
We identified 3 completed trials and 2 ongoing trials. One completed trial randomly evaluated the effect of fluoxetine or placebo on emotional disturbance after stroke in 83 patients and found no effect on fatigue at follow-up. The second trial evaluated the effect of tirilazad mesylate in 31 women with subarachnoid hemorrhage, of whom 18 were available for follow-up. There was no difference in fatigue between the 2 groups at follow-up. The third trial evaluated a complex, multicomponent intervention (Chronic Disease Self-Management Programme) in 1150 community-based patients with chronic diseases, of whom 125 (11%) had experienced a stroke. No significant differences were found for fatigue scales between control and intervention groups at follow-up in the subgroup of patients with stroke.

One ongoing trial is randomizing patients with sleep-disordered breathing after stroke to continuous positive airway pressure or sham continuous positive airway pressure; fatigue severity score is a secondary end point. The other is randomizing 96 patients with stroke to a cognitive treatment vs a cognitive treatment plus graded exercise, and it is including fatigue as an outcome measure.

Conclusions

Implications for Practice
Currently, there is insufficient evidence to guide practice in treating fatigue after stroke.

Implications for Research
More research is urgently needed to develop and test treatments for fatigue after stroke. Further work could be usefully performed to explore associations of fatigue after stroke, which might provide targets for treatment. Given that some observational studies have found an association between fatigue and mood disorders, the development of a cognitive intervention might be a logical step forward.

Note: The full review for “Interventions for Fatigue After Stroke” is published in Issue 3, 2009, of the Cochrane Library.

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Disclosures
None.

References

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