



Effectiveness and safety of Wuling capsule for post stroke depression: A systematic review



Le Peng, Xin Zhang, De-ying Kang*, Xue-ting Liu, Qi Hong

Department of Evidence-based Medicine and Clinical Epidemiology, West China Hospital, Sichuan University, Chengdu 610041, China
Available online 6 May 2014

KEYWORDS

Wuling capsule;
Conventional treatment;
Post stroke depression (PSD);
Systematic review;
Meta-analysis

Summary

Objective: To review the effectiveness and safety of Wuling capsule for post stroke depression (PSD) systematically.

Methods: We searched electronic databases for randomized controlled trials (RCTs) that compared either Wuling capsule with placebo, no treatment or Wuling capsule plus conventional treatment with conventional treatment alone in adults with post stroke depression. Relevant resources were also retrieved. Two reviewers screened the citations, assessed the risk of bias and extracted data independently.

Results: A total of 16 studies involving 1378 patients were identified for this review. There were 3 trials comparing Wuling capsule with no treatment control and 13 trials comparing Wuling capsule plus conventional treatment (Deanxit, Fluoxetine, Sertraline, Paroxetine or Citalopram) with conventional treatment alone. Meta-analyses indicated Wuling capsule used alone or integrated with conventional treatment was effective for PSD in terms of HAMD (Hamilton depression scale) scores, response rate and with less adverse effects, of which, HAMD scores decreased significantly in favor of Wuling capsule from onset time to 1 week (SMD = 1.27, 95%CI: 0.71–1.83, $P < 0.00001$), 2 weeks (SMD = 1.45, 95%CI: 0.57–2.33, $P = 0.001$), 4 weeks (SMD = 2.84, 95%CI: 2.15–3.52, $P < 0.00001$), 6 weeks (SMD = 2.70, 95%CI: 2.15–3.24, $P < 0.00001$), and 8 weeks (SMD = 4.53, 95%CI: 3.55–5.50, $P < 0.00001$) and overall effect (SMD = 2.40, 95%CI: 1.75–3.05, $P < 0.00001$) (SMD = standardized mean difference).

Conclusion: Wuling capsule appeared to present certain antidepressant effect compared to no treatment control. With a combination of several Western medicines, Wuling capsule could be helpful in strengthening efficacy and reducing the incidence of adverse events as an alternative choice in the treatment of PSD. However, due to the limited number of included trials and relatively moderate methodological quality in the majority of studies, further large scale and rigorously designed trials are warranted to confirm the effectiveness and safety of Wuling capsule for post stroke depression.

© 2014 The Authors. Published by Elsevier Ltd. This is an open access article under the CC BY-NC-ND license (<http://creativecommons.org/licenses/by-nc-nd/3.0/>).

* Corresponding author. Tel.: +86 28 85423691; fax: +86 28 85423691.
E-mail address: deyingkang@126.com (D.-y. Kang).

Contents

Introduction.....	550
Methods.....	551
Criteria for considering studies for this review.....	551
Type of studies.....	551
Types of participants.....	551
Types of interventions.....	551
Types of outcome measures.....	551
Search strategies.....	551
Electronic searches.....	551
Searching other resources.....	552
Data collection and analysis.....	552
Selection of studies.....	552
Data extraction and management.....	552
Assessment of risk of bias in included studies.....	552
Statistical analysis.....	552
Results.....	552
Study selection.....	552
Characteristics of included studies.....	552
Assessment of risk of bias in included studies.....	555
Primary outcomes.....	555
HAMD scores changes: Wuling capsule vs. no treatment.....	555
HAMD scores changes: Wuling capsule plus Deanxit vs. Deanxit alone.....	555
HAMD scores changes: Wuling capsule plus Fluoxetine vs. Fluoxetine alone.....	555
HAMD scores changes: Wuling capsule plus Sertraline vs. Sertraline alone.....	555
HAMD scores changes: Wuling capsule plus Paroxetine vs. Paroxetine alone.....	555
HAMD scores changes: Wuling capsule plus Citalopram vs. Citalopram alone.....	555
Secondary outcomes.....	555
Response rate: Wuling capsule vs. no treatment.....	555
Response rate: Wuling capsule plus Deanxit vs. Deanxit alone.....	556
Response rate: Wuling capsule plus Fluoxetine vs. Fluoxetine alone.....	556
Response rate: Wuling capsule plus Sertraline vs. Sertraline alone.....	556
Response rate: Wuling capsule plus Paroxetine vs. Paroxetine alone.....	556
Response rate: Wuling capsule plus Citalopram vs. Citalopram alone.....	556
Response rate: Wuling capsule plus antidepressants vs. antidepressants alone.....	556
Safety evaluation.....	558
Publication bias.....	558
Discussion.....	558
Conclusion.....	565
Funding.....	565
Author's contribution.....	565
Conflicts of interest.....	565
References.....	565

Introduction

As the third leading cause of death in the world, stroke is a major health issue in elderly population because it not only affects physical impairment, but also leads to a high risk of disability, social nonparticipation (handicap) and psychological problem.^{1,2} Of those, depression is the most common neuropsychiatric comorbidity of a stroke.³ Post stroke depression (PSD) is often accompanied by disorders of recognition, causing adverse influence on patient recovery and it has been the most serious factor causing low quality of life in patients.⁴ The incidence of post stroke depression varies from 23.0% to 76.1% in China.⁵ Mortality in depressed stroke patients has been estimated between

3.5 and 10 times higher than in non-depressed stroke patients; suicide ideation can be observed in 11.3% of stroke patients too.⁶ Although depression may influence functional recovery and quality of life after stroke, such condition is often ignored. In fact, only a minority of patients is diagnosed and even fewer are treated in the common clinical practice.⁷

Currently, pharmacotherapy, psychotherapy, or electroconvulsive therapy was selected in the treatment of depression in patients with stroke. The main therapeutic approach of PSD is essentially pharmacological.⁷ Drugs therapy showed the importance of antidepressant medications, particularly with SSRIs (selective serotonin reuptake inhibitors) as this may improve not only the life expectancy of post stroke patients but also their quality of life.⁸

Download English Version:

<https://daneshyari.com/en/article/5865628>

Download Persian Version:

<https://daneshyari.com/article/5865628>

[Daneshyari.com](https://daneshyari.com)