



Lintang Qusnul Budi Setiawati <lintangqusnulbs@gmail.com>

Fw: Dove Medical Press invites you to review a paper for Neuropsychiatric Disease and Treatment Submission ID: 400925

1 message

Prastiya Indra Gunawan <prastiya_ig@yahoo.co.id>
To: Lintang Qusnul Budi Setiawati <lintangqusnulbs@gmail.com>

Thu, Feb 23, 2023 at 11:51 PM

----- Pesan yang Diteruskan -----

Dari: Mrs Beverley Finn <beverleyfinn@dovepress.com>**Kepada:** "prastiya_ig@yahoo.co.id" <prastiya_ig@yahoo.co.id>**Terkirim:** Rabu, 21 Desember 2022 pukul 14.39.23 WIB**Judul:** Dove Medical Press invites you to review a paper for Neuropsychiatric Disease and Treatment Submission ID: 400925

Dear Dr Gunawan

Dove Medical Press invites you to join our peer review community. Our expert reviewers greatly contribute to the high standards of the journal.

The reviewer selection team search and invite peer reviewers in the same area of medicine and science as our authors and we hope that you will be willing to provide your expert assessment on this article.

Manuscript title: The relationship between neuron specific enolase and clinical outcomes in patients undergoing mechanical thrombectomy

Article type: Original Research

Author: Dr Rui Duan

Journal: Neuropsychiatric Disease and Treatment (Journal impact factor: 2.989)
<https://www.dovepress.com/neuropsychiatric-disease-and-treatment-journal>

Abstract: Purpose: Neuron specific enolase (NSE) is considered as a biomarker for the severity of nervous system diseases. We sought to explore whether serum NSE concentration in ischemic stroke patients undergoing mechanical thrombectomy (MT) is related to 3-month functional outcome and symptomatic intracranial hemorrhage (sICH).

Patients and Methods: We retrospectively collected the data of acute ischemic stroke patients with anterior circulation infarction receiving MT within 6 h in our stroke center. Favorable outcome and poor outcome at 3 months were defined as modified Rankin Scale (mRS) score 0-2 and 3-6, respectively. sICH was defined according to the Heidelberg bleeding classification. We used multivariate logistic regression model and receiver operating characteristic curves to investigate the correlation between NSE and the clinical outcomes.

Results: Among the 426 patients enrolled, 40 (9.4%) patients developed sICH. 3-month favorable outcome in 160 (37.6%) and poor outcome in 266 (62.4%) patients were observed. Serum NSE levels was significantly correlated with 3-month mRS score ($R = 0.473$, $P < 0.001$). A cutoff value of 15.29 ng/mL and 23.12 ng/mL for serum NSE was detected in discriminating 3-month poor outcome (area under the curve, 0.724) and sICH (area under the curve, 0.716), respectively. Multivariate analysis showed that high serum NSE levels were independently associated with 3-month poor outcome (odds ratio [OR] 5.049, 95% confidence interval [CI] 2.933-8.689, $P < 0.001$) and sICH (OR 5.111, 95% CI 2.210-11.820, $P < 0.001$).

Conclusions: Our study demonstrated that high serum NSE levels after receiving MT were independently associated with 3-month poor outcome as well as sICH in acute ischemic stroke patients. Serum NSE levels could be a good predictor of prognosis for patients receiving MT.

We would appreciate your response to this email by 28 Dec 2022. If you agree to review this manuscript, your comments will be due 10 days from accepting the invitation.

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I thank you for considering our invitation.

If you have any questions do not hesitate to contact me.

Yours sincerely

Mrs Beverley Finn
On behalf of Dr Roger Pinder
Neuropsychiatric Disease and Treatment
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Manuscript ID number: 400925

Title of paper: The relationship between neuron specific enolase and clinical outcomes in patients undergoing mechanical thrombectomy

Reviewed by: Dr Gunawan on 24 February 2023

Title & Abstract

1. Do the title and abstract cover the main aspect of the work?

Yes they cover the main aspect of the work.

Introduction

2. Does the introduction provide background and information relevant to the study?

Yes it is relevant to the study.

Material and Methods

3. Are the methods clear and replicable? Do all the results presented match the methods described?

I think they are clear.

Comment:

- I just wonder how to know the Normal Value for NSE in Stroke? How would the author define Normal Value for NSE in Stroke?

Results

4. If relevant are the results novel? Does the study provide an advance in the field? Is the data plausible?

There is novelty to this study. It is not so advanced but this research is applicable to medical practice.

The author already state about the sensitivity and the specificity of NSE.

Comment:

- To define sensitivity and specificity there must be a gold standard. How would the authors define the terms?

Discussion

5. Do the findings described by the author correlate with the results? Are the findings relevant?

Yes, it correlate with the results

Conclusion

6. Do the conclusions correlate to the results found?

Yes, I think the conclusion correlates to the results found

Figures & Tables

7. If the author has provided figures and tables are the figures and tables clear and legible? Are the figures free from unnecessary modification?

Yes, it is free from unnecessary modification

8. Does the paper raise any concerns?

This paper concerns biomarker of brain injury as a predictor of prognosis. I think it is a good idea and has practical importance in clinical practice.

The statistical analysis appropriate to the result and the references are relevant.

Competing interest

9. Do any of the authors' competing interests raise concerns about the validity of the study i.e. have the authors' competing interests created a bias in the reporting of the results and conclusions?

No

Recommendations to the Editor

10. Recommendations to Editors

Very good

11. Would you be willing to review a revision of this manuscript?

Yes

Additional comments

Please add some references (see below); this is necessary for your discussion.

The author think that there is a considerable theory that the NSE could increase in hypoxic ischemic and also brain infection:
Prastiya Indra Gunawan, Riza Noviandi, Sunny Mariana Samosir Increased Neuron Specific Enolase in a Hypoxic Ischemia Rat Model in Biomedical Research and Therapy 2022, 9(6):5161-5165
and,

Dian Pratamastuti, Prastiya Indra Gunawan,Darto Saharso

Serum neuron specific enolase is increased in pediatric acute encephalitis syndrome
Korean J Pediatr 2017; 60(9): 302-306.

Confidential comments for Editor

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Competing Interest Disclosure

none

Peer Reviewer Competing Interest Disclosure

We have no competing interest

Round 2 review

Recommendations to the Editor

1. Recommendations to Editors

Outstanding

Evaluation

The author already makes some corrections based on reviewer comments. Although it is not perfect but there are attempts to improve the paper on some aspects .There is novelty of medical practice in this study.

Confidential comments to Editor

There is no plagiarism in this study. The author shows willingness to improve the manuscript. This should be taken into consideration of publication.

Financial disclosure

none

Conflicts of Interest

There is no conflict of interests



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Fw: Invitation to re-review Submission ID: 400925

1 message

Prastiya Indra Gunawan <prastiya_ig@yahoo.co.id>
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Thu, Feb 23, 2023 at 11:52 PM

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Dari: Melissa Hardgrave <melissahardgrave@dovepress.com>**Kepada:** "prastiya_ig@yahoo.co.id" <prastiya_ig@yahoo.co.id>**Terkirim:** Selasa, 21 Februari 2023 pukul 03.37.48 WIB**Judul:** Invitation to re-review Submission ID: 400925

Dear Dr Gunawan,

Manuscript title: "The relationship between neuron specific enolase and clinical outcomes in patients undergoing mechanical thrombectomy".

Author: Dr Duan.

Journal: Neuropsychiatric Disease and Treatment.

Due date: 28 Feb 2023.

Following author changes to their paper, the Editor-in-Chief has requested a re-review on this paper that you have recently reviewed.

To undertake this review please go to <https://www.dovepress.com/review.php?l=tOlbAq3XxzQl8l0gHWGcrknv1510986>.

Please email: melissahardgrave@dovepress.com for assistance.

Melissa Hardgrave

Editorial Department

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To whom it may concern

Dr Prastiya Indra Gunawan has reviewed 1 submission in the journal *Neuropsychiatric Disease and Treatment* (journal Impact Factor: 2.989) during 2023.

This contribution is greatly appreciated.

Regards

Angela Jones

General Manager, Dove Medical Press Ltd

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