Reviewer’s report

Title: Effectiveness of spinal cord stimulation for painful camptocormia with Pisa syndrome in Parkinson's disease: A case report

Version: 0 Date: 10 Apr 2017

Reviewer: Ming-Kuei Lu

Reviewer's report:

The authors described effective treatment of painful camptocormia with Pisa syndrome by spinal cord stimulation (SCS). This is an interesting report with clinical significance. However, there are some concerns in this report.

1. Camptocormia can be one of the manifestations for multiple system atrophy (MSA). The patient presented urinary incontinence (p.4 line 54), resistance to oral L-DOPA and dopamine agonists (p.6 line 12-14) and received midodrine hydrochloride (p.4 line 45) which is usually prescribed for orthostatic hypotension. This reviewer wonder how the authors could exclude the possibility of MSA without supportive evidences such as SPECT (p.5 line 4) or negative findings on autonomic function examinations.

2. The conclusion concerning pain relief by SCS is a little confusing. What does the "SCS-dependent or -independent mechanism" (the last sentence of the abstract) really mean? The patient's pain was markedly improved by SCS on the day of surgery (VAS score 10 to 2 points) but not significantly improved on the 29th day after SCS (NRS 9 to 7). By contrast, the postural abnormality remained improved. How could the vague relevance between the temporary pain relief and the effect on posture abnormalities lead to the current conclusions "This case suggests that SCS could be effective for improving camptocormia or Pisa syndrome and motor symptoms of Parkinson's disease through pain relief, ….." (p.7 line 12-14)?
Minor points

1. The sentence "Here we report a case….. in a woman with Parkinson's disease" (p.2 line 9-11; p.4 line 12-14) is difficult to read.

2. DBS was very effective on camptocormia for this patient even though the benefit duration was not long. Where was the DBS target? GPi or STN? The maximal voltage ever used has to be mentioned.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Unable to assess

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Unable to assess

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable
**Declaration of competing interests**
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests.

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license ([http://creativecommons.org/licenses/by/4.0/](http://creativecommons.org/licenses/by/4.0/)). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal