Reviewer's report
Title: Cognitive medicine - a new approach in health care science

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Reviewer: Helen Macpherson

Reviewer's report:
This perspective article covers an important topic, that a cognitive medicine approach is needed to help understand how to maintain and optimise cognitive health. The structure of this perspective piece is not effective and the main points of the article, which are important, are not easily identifiable. The concept of cognitive medicine is not introduced until page 10 and this article would be more cohesive if this concept was introduced at the beginning, with the rest of the article supporting the importance of the premise.

Major suggestions:
Restructure the article so that the article begins with 'cognitive medicine - an emerging field'. This may require integrating some of the content from the earlier sections. The dot points included in the 'Conclusions' section should become the main focus of the paper with relevant evidence used to describe both the problem raised and potential solutions.
This paper lacks concrete evidence which would help to provide a stronger argument. How many people are affected, by which conditions? What is the size of the problem? Without evidence this perspective is superficial and potentially valuable points are weaker than they could be.

Additional suggestions:
Cognitive function: would be better integrated with the section on 'Cognitive function throughout the lifespan'. The 'Cognitive functions' section is not effective in its current form. Which domains change with age and which are affected in other pathological conditions? Which cognitive domains may be most relevant to the concept of cognitive medicine?
Cognitive function throughout the lifespan: is lacking references and is very superficial. The focus should include both decline as well as development.
Disability: is lacking references and is very superficial. Given that disability due to mental illness versus physical illness may have markedly different impacts on cognition, this should be explored.

Patient and disease perspective: The first paragraph does not meaningfully contribute to the paper.

Global Issue perspective: It would seem relevant here to mention the population ageing that is taking place even in developing countries and the impact this will have on number of people affected by dementia in the future.

Can the authors discuss how cognitive medicine could be integrated with existing medical care practices and how it could complement existing mental health services?

Generally this paper is lacking references.

**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
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