Reviewer's report

Title: Long-acting olanzapine versus long-acting risperidone for schizophrenia in Spain - a cost-effectiveness comparison

Version: 3 Date: 10 September 2013

Reviewer: Yen Kuang Yang

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Re: Long-acting olanzapine versus long-acting risperidone for schizophrenia in Spain – a cost-effectiveness comparison

Dr. Dilla et al investigated the cost-effectiveness between two important long-acting injections (LAIs) for schizophrenia. Several dependents were employed in their protocol: such as medical cost, and patient-reported outcome. The finding favored the olanzapine LAI than risperidone LAI. I think the topic is important for clinical practice and decision maker. However, I have several comments listed below.

For Background

1. Since the study aim is to compare the cost-effectiveness between OLAI and RLAI, please add more information related to RLAI. In current manuscript, RLAI is kind of missing from background.

2. As an article for cost-effectiveness comparison, there is too much pharmacological detail for OLAI (paragraph 2, page 5). It would be better to trim it.

For Methods

1. The first two paragraphs (page 7) are more likely to be parts of background rather than methods, please adjust it.

2. The authors applied the DES model which is a complicated, and the structure of content made these consumptions and parameters more difficult to understand, please rearrange the methods, especially definition and description of key variables needs more organized.

3. How to adapt the central theme (figure 1, factors influencing DES model) to DES analysis?

4. These variables defined as outcomes following treatment, such as relapse, QALYs, LYS and discontinuation rate were time-dependent variables, how to deal with these variables? how about to show a example of patient history from time to entering model to 5 years-follow-up.

5. How or where to get these cost items of therapy over a 5-year time horizon (Table 4)?

6. Why the authors showed the base case cost and sensitivity analysis results in
the form of OLAI/RLAI, rather than showing the original estimation?

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

I declare that I have no competing interests