Reviewer's report

**Title:** Interventions to decrease the risk of adverse cardiac events for patients receiving chemotherapy and serotonin (5-HT3) receptor antagonists: A systematic review

**Version:** 1  
**Date:** 16 November 2014

**Reviewer:** Mitsue Saito

**Reviewer's report:**

<Major comments>

1) If the authors want to clarify the necessity and efficacy of intervention to detect cardiac side effects of 5HT3ra, case studies and case reports should have been included, as the more the severity of side effect becomes, the less the number of cases tends to be. In this study, case studies were excluded, therefore, the most severe cases might not be retrieved, as patients with risk cannot be enrolled in randomized control study.

2) Table 4; What is the definition of severe prolongation of QT interval? In this manuscript, the mean or median interval of QT or PR after administration of 5HT3ra was not significantly different from baseline interval, however, some of the mean interval tended to be longer than the baseline. Therefore, the maximum interval might be significantly prolonged depending on the definition.

3) More important thing than the comparison in QT or PR interval between one 5HT3ra and others should be investigating the possibility of any influences by 5HT3ra on cardiac function. If there are some changes on cardiac function, time period and grade of those changes should be the second important things. In that sense, the methodology of this research should have been reconsidered.

<Minor comments>

1) In study selection process, retrieval period and key words of literatures should be written for the verification by readers and reviewers.

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**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