Reviewer's report

Title: Magnesium supplementation and high volume hydration reduce the renal toxicity caused by cisplatin-based chemotherapy in lung cancer patients; a toxicity study.

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Reviewer: Hidehito Horinouchi

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Takako Oka et al. analyzed the effect of fluid volume and magnesium supplementation on the renal toxicity by cisplatin. I understand that it is important to seek better supportive therapy concerning the cisplatin nephrotoxicity. However, the conclusion is not acceptable based on the basically retrospective analysis with relatively small sample size. According to the result of this study, we can only assume that Mg supplementation might be effective to prevent cisplatin nephrotoxicity but cannot compare the value of high- and low-volume hydration.

Major Compulsory Revisions

1) Page 9, line 165-: Authors argued that "a trend towards a decrease in the post-Ccr compared to the pre-Ccr." However I wonder whether the difference of median value between pre- and post Cre and Ccr was clinically meaningful (Table 4). Furthermore, authors should be more cautious to conclude that "high-volume hydration and Mg" is better than "low-volume hydration with Mg" based on ONLY 17 patients of low volume hydration.

2) Authors did not present and include adverse events other than the renal toxicity. The gastrointestinal toxicity is closely related to oral fluid intake and should be reported and included in multivariate analysis as an explanatory variable.

3) Page 6, line 108 and Page 7, line 124: Authors reported "The chemotherapy procedure was explained and informed consent was obtained from all the patients." and "These regimes were approved by the Institutional Review Board for Chemotherapy of Osaka City University Hospital, and conducted in accordance with the Japanese Good Clinical Practice guide lines." However, authors did not declare whether there was an approval of institutional review board to conduct this exploratory analysis using patients' clinical data.

Level of interest: An article of limited interest

Quality of written English: Acceptable

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

Declaration of competing interests:

None declared.