

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 68043

Title: Analysis of the incidence and influencing factors of hyponatremia before the 131I treatment of differentiated thyroid carcinoma

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03848100

Position: Peer Reviewer

Academic degree: MD

Professional title: Assistant Professor

Reviewer's Country/Territory: Iran

Author's Country/Territory: China

Manuscript submission date: 2021-05-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-19 11:12

Reviewer performed review: 2021-06-26 19:38

Review time: 7 Days and 8 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/> Y] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/> Y] No
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SPECIFIC COMMENTS TO AUTHORS

The authors aimed to assess the incidence and to find the potential factors that may play a role in hyponatremia in patient on thyroxine withdrawal before radioactive iodine treatment in a large cohort of patients. The subject is under debate and worth investigating. There are a few issues to be clarified. 1. Please provide a more concise and informative abstract which contains the main points. 2. The introduction section is presented too briefly. There should be more details about the problem and the available knowledge and the unknown or the gaps. Then, justify the need for further investigation. 3. Study design and methodology: the authors classified the patient into two group based on hyponatremia (as an outcome) and then intended to find the association of several variable with this outcome. So, the study is a case control one, not a retrospective cohort. Clarify this mislabeling. 4. Present more details about the lab tests for measuring hyponatremia. The time before and after surgery and before iodine therapy and the method and whether they are performed in one laboratory. 5. No need to report the values of t or z statistics. P value is enough but mention the test used to compare. For example, the test used for comparing Na before surgery and just before iodine therapy. 6. For number of patients in each context, present the percentages. 7. Clarify and explain that why distant metastasis can be regarded as an influencing factor (statistically significant difference between the proportion in two groups). Is it related to presence of confounding factor? Is it related to presence of other comorbidities? 8. Since the study is a case control one please provide the odds ratio for each variable. 9. In logistic regression, one of the assumptions is that there should not be a collinearity between independent variables. use correlation matrix for this purpose. Use fewer



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number of independent variables and then, present the formula or model for regression as well as the plots. 10. Do not conclude causality in discussion section. For example, the hyponatremia caused by iodine treatment. There is only an association. 11. To examine the gender predisposition, first consider other factors including the use of diuretics and other medical conditions. Make some refinement or exclude some and then make a comparison. 12. Format the references according to the journal style.