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PEER-REVIEW REPORT

Name of journal: World Journal of Methodology

Manuscript NO: 73452

Title: Assessment of diagnostic capacity and decision making based on the American

Thyroid Association 2015 ultrasound system

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05724323 Position: Peer Reviewer Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Mexico

Manuscript submission date: 2021-12-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-23 04:12

Reviewer performed review: 2022-01-02 13:32

Review time: 10 Days and 9 Hours

Scientific quality	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[] Grade A: Priority publishing [] Grade B: Minor language polishing [Y] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) [] Minor revision [Y] Major revision [] Rejection
Re-review	[Y]Yes []No



Baishideng **Publishing**

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Peer-reviewer

Peer-Review: [Y] Anonymous [] Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The findings of this meta-analysis are interesting. However, there are a few major 1. According to the results of the meta-analysis, there was significant concerns. heterogeneity. Please point out the underlying reasons for the heterogeneity. Sensitivity analysis and subgroup analysis are suggested to be conducted to further address the heterogeneity. 2. The overall quality of included studies is low, which indicates a high risk of bias. Minor concerns: 1. The titles of the forest plots are not comprehensive. 2. The titles of other figures should be revised, such as "Figure 9. Net Benefit interventions avoided, in study patterns."



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Peer-review model: Single blind

Reviewer's code: 05445949 Position: Editorial Board Academic degree: MD, PhD

Professional title: Assistant Professor, Chief Physician, Research Associate

Reviewer's Country/Territory: Serbia

Author's Country/Territory: Mexico

Manuscript submission date: 2021-12-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-03 14:47

Reviewer performed review: 2022-01-03 15:25

Review time: 1 Hour

Scientific quality	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[] Grade A: Priority publishing [Y] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] Minor revision [] Major revision [] Rejection
Re-review	[Y]Yes []No



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Peer-reviewer

Peer-Review: [Y] Anonymous [] Onymous

statements Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors were eager to perform a systematic review and meta-analysis of the diagnostic value of 2015 ATA US system for the initial assessment of thyroid nodules. All points according to PRISMA were correctly involved. Final studies meta-analyzed seems to be presented with heterogeneous data, so I think that the results are under a higher pressure of bias. Some important papers in this area are unintentionally omitted. Some parts of paper must be analyzed by biostatician. The discussion is correct, an Intro is longer than it has to be. The results are correctly presented, illustrations and figures, The manuscript is well organized and presented, but language need to be too. polished. Major revision: to decrease data heterogeneity by better and more precise inclusion criteria; - to involve other studies, that are very important in this area. Minor: too long Introduction; - to describe the implication of presented study to every day endocrine surgeon clinical practice.



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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05420967 Position: Peer Reviewer

Academic degree: FACE, MD

Professional title: Doctor

Reviewer's Country/Territory: India

Author's Country/Territory: Mexico

Manuscript submission date: 2021-12-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-01-04 16:21

Reviewer performed review: 2022-01-09 19:13

Review time: 5 Days and 2 Hours

Scientific quality	[Y] Grade A: Excellent [] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[] Grade A: Priority publishing [Y] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [Y] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Re-review	[Y]Yes []No



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Peer-reviewer

Peer-Review: [Y] Anonymous [] Onymous

SPECIFIC COMMENTS TO AUTHORS

Thyroid nodule is a common problem and ultrasound finding is an important guide for delineating the subsequent course of management. The authors have performed a meta-analysis and systemic review to asses the diagnostic value of ATA criteria for USG classification of thyroid nodule. The cases have been analyzed both by traditional diagnostic methods, as well as the threshold approach to clinical decision-making and decision curve analysis. The authors concluded the ATA ultrasound risk patterns to decide which patients need FNAB is not beneficial, unless the nodule is completely cystic. All other nodules regardless of their size, should undergo FNAB as per their findings. The findings are important and the method used to reach the conclusion is innovative. Some suggestions and comments for the authors 1. The search methodology should be defined more clearly and should be replicable. 2. Abstract should be revised. The background section in the abstract should be reframed. The result section of the abstract is unclear. 3. The core-tip section should be more specific and precise. 4. The methodology for decision curve analysis can be better described in a tabular/flow-chart/graphical manner. 5. The language is sometimes repetitive and needs editing.