

REVIEWER'S REPORT

Manuscript No.: IJAR-53134

Date: 05/08/2025

Title: Screening of Metal Ions Among Patients with Autoimmune Thyroid Diseases – A Pilot Study

Recommendation:

Accept as it is ☐☐☒☐☐

Accept after minor revision ☐☐☐☐

Accept after major revision ☐☐☐☐☐

Do not accept (*Reasons below*) ☐☐☐

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance	✓			

Reviewer Name: Sakshi Jaju

Date: 05/08/2025

Reviewer's Comment for Publication.

Abstract:

The study aims to check nickel, titanium, and chromium levels in patients with autoimmune thyroid diseases (AITDs). It compares these with healthy people. The results and conclusion are clear. The language can be made simpler.

Introduction:

The introduction explains AITDs and their types. It tells how metals may trigger immune problems. It says that little research has been done on nickel and thyroid disease. The aim of the study is clear.

Material and Methods:

The study included 100 AITD patients and 100 healthy people. It was done at King Khalid University Hospital, Riyadh. Patients were diagnosed using thyroid antibodies and hormone tests. Blood samples were tested for nickel, titanium, and chromium. Tests were done using ICP-MS. Data was analyzed with t-tests.

Result and Discussion:

Nickel levels were higher in AITD patients than in healthy people. Titanium and chromium levels were similar in both groups. Nickel levels did not match with antibody levels. The study suggests nickel may play a role in thyroid autoimmunity.

Relevance and Contribution:

The study shows a possible link between nickel and thyroid disease. It can help future research and prevention.

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Clarity and Writing:

The writing is clear, organized, and easy to understand. Only minor language simplification may be needed..

Recommendation:

Manuscript accepted for the publication.