

## REVIEWER'S REPORT

Manuscript No.: IJAR-52929

Date: 21/07/2025

Title: Serology of Blood Group A2 in Tertiary Care Hospital of Lahore

### 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: 21/07/2025

### Reviewer's Comment for Publication.

#### Abstract:

The abstract clearly explains the purpose of the study which is to check the frequency of Blood Group A2 and anti-A1 antibodies among blood donors in Lahore.

#### Introduction:

The introduction gives good background information about ABO blood groups and their subtypes A1 and A2. It explains how these subgroups can cause blood group mismatch during transfusions. It also highlights why this study is important for Lahore since no such study has been conducted in this population before. The introduction is clear and relevant.

#### Material and Methods:

The study is cross-sectional and was done in Jinnah Hospital and Allama Iqbal Medical College, Lahore. 247 blood donors were selected. Blood typing was done using proper techniques. The method of typing A1 and A2 was explained clearly, including the use of anti-A1 lectin and reverse grouping. Data analysis using SPSS is also mentioned. The study design is appropriate and well explained.

#### Result and Discussion:

Out of 247 donors, 242 (98%) had blood group A1, and 5 (2%) had blood group A2. Only 1 out of 5 A2 donors had anti-A1 antibodies. All donors were male and of Punjabi ethnicity. The average age was 28 years. The author highlighted that Anti-A1 antibodies, though rare, can cause serious transfusion issues. The discussion is long and repeats the same points. It should be shortened to make it clearer and more focused on the main findings.

#### Relevance and Contribution:

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The study provides useful data on the frequency of blood group A2 in Lahore. It helps to improve blood bank safety and shows the importance of proper typing in transfusions. This research can help healthcare providers plan better for transfusions in this population.

### **Clarity and Writing:**

The writing is mostly clear but can be improved. Some grammar mistakes and long sentences should be corrected. Proper alignment should be done. Discussion part should be shorten.

### **Recommendation:**

Manuscript accepted for the publication.