Reviewer’s report

Title: Relationship between neutrophil-lymphocyte ratio and insulin resistance in newly diagnosed type 2 diabetes mellitus patients

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Reviewer: Kultigin Turkmen

Reviewer's report:

The authors investigated the relation between NLR and insulin resistance in newly diagnosed T2DM patients. They found that NLR values of the diabetic patients were significantly higher than those of the healthy controls (P < 0.001), and the NLR values of the patients have a HOMA-IR value of ≥ 2.0 than those of the patients have a HOMA-IR value of < 2.0. They also concluded that increased NLR was significantly associated with IR, and high NLR values may be a reliable predictive marker of IR.

In general, the study is well designed and presented. Hence, this study can be published, however, a number of queries have arisen.

Major Comments

1. Selection of patient population needs to be described briefly.
2. The authors should avoid the duplication of the results of the study. If they present the results in tables, they do not need to present them in the text. They also should delete the results (for instance regression results) from discussion part.
3. The authors did not clearly conclude the results and they should discuss their findings briefly in the discussion section.
4. In conclusion they wrote a sentence beginning with ‘The NLR values of diabetic patients must be calculated…..’. Must is very strong term and it is better to use might.

Minor Comments

1. There are many grammatical and spelling errors that should be corrected.
2. Cross-sectional nature of the relationship need to be underlined in the abstract section.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published
**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests