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| Journal Name: | [**Asian Journal of Medicine and Health**](https://journalajmah.com/index.php/AJMAH) |
| Manuscript Number: | **Ms\_AJMAH\_140591** |
| Title of the Manuscript: | **Diagnostic Utility of Lipid Indices for Detecting MASLD in Patients with Metabolic Syndrome** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | Overall, this is a well-conceived and clearly presented study that addresses an important clinical issue. With minor revisions to improve transparency and context, it would offer a valuable contribution to the field. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The terminology appears consistent, but as MASLD is a relatively new nomenclature, it would be helpful to confirm whether the term is being used strictly according to updated international consensus or interchangeably with NAFLD. |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | This abstract presents a timely and relevant investigation into the use of lipid-derived indices for detecting MASLD in patients with metabolic syndrome. The objective is clear, and the study addresses an important clinical challenge—identifying non-invasive, cost-effective markers for early diagnosis of MASLD, which is increasingly common and often underdiagnosed. |  |
| Is the manuscript scientifically, correct? Please write here. | Some aspects would benefit from clarification and further detail. For instance, the inclusion and exclusion criteria for patient selection are not stated, and it would be helpful to know how MASLD severity was classified via ultrasound. A brief mention of the grading scale or criteria used would make the methodology more transparent. Additionally, while statistical significance is reported, presenting interquartile ranges along with medians would improve the clarity of the results.  The study reports modest AUC values, with the highest being 0.70. While statistically significant, these values suggest only moderate discriminative ability, and this should be acknowledged more cautiously in the conclusions. It would also strengthen the discussion to briefly compare these findings with existing literature or clinical guidelines and to comment on why certain indices, like HDL/LDL, did not perform well as predictors |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** |  |  |
| Is the language/English quality of the article suitable for scholarly communications? |  |  |
| Optional/General comments | There is minimal comparison with previous literature or guidelines (e.g., AASLD, EASL).  Expand on why HDL/LDL was not predictive and its potential clinical implication. |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Lina Eltaib, Northern Border University, KSA**