

Review Form 3

Journal Name:	Asian Journal of Medicine and Health
Manuscript Number:	Ms_AJMAH_130490
Title of the Manuscript:	Novel therapeutic multiratio lipid profile indices with chronic inflammatory biomarker for predictive detection of early muscle loss in young obese adults
Type of the Article	Research Article

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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.	This manuscript contributes significantly to the scientific community by: Investigating the relationship between obesity, dyslipidemia, and muscle loss, a critical area in public health given the rising prevalence of obesity worldwide. Identifying lipid profile indices (CRI-1, CRI-2, and AIP) as potential predictors of early muscle loss in young obese adults. Highlighting the role of systemic inflammation and oxidative stress in the pathogenesis of muscle loss associated with obesity. Potentially aiding in the early identification and management of individuals at risk for sarcopenia, a condition with significant morbidity and mortality.	Thanks for the comments
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, "Novel therapeutic multiratio lipid profile indices with chronic inflammatory biomarker for predictive detection of early muscle loss in young obese adults," is comprehensive and informative. However, it might be slightly lengthy. A potential alternative could be: "Lipid Ratios, Inflammation, and Early Muscle Loss in Young Obese Adults."	Noted and revised
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.	The abstract provides a good overview of the study. However, it could be improved by: Explicitly stating the study's hypothesis. Briefly mentioning the role of C-reactive protein (CRP) as the chronic inflammatory biomarker. Quantifying the observed differences in lipid ratios between groups (e.g., "CRI-1 was significantly higher in obese subjects by X%").	Ok
Is the manuscript scientifically, correct? Please write here.	The manuscript appears to be scientifically sound. The methodology is well-described, and the statistical analysis is appropriate. However, a few minor points could be clarified: The inclusion and exclusion criteria for study participants could be more detailed. The methods for assessing muscle loss (if any) should be explicitly described. The discussion could further elaborate on the potential mechanisms linking elevated lipid ratios to muscle loss, including the role of insulin resistance and mitochondrial dysfunction.	Thanks. Done
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The reference list appears to be comprehensive and includes relevant and recent publications. However, a few additional references could be considered: Studies investigating the effects of specific interventions (e.g., diet, exercise) on lipid profiles and muscle health in obese individuals. Reviews on the role of oxidative stress in sarcopenia.	Noted
Is the language/English quality of the article suitable for scholarly communications?	The language is generally clear and concise. However, there are a few minor grammatical and stylistic issues that could be addressed during the editing process.	Thanks for the suggestions. Noted and revised
Optional/General comments	The study focuses on young female subjects. Investigating the findings in male subjects and in older populations would be valuable. Further research is needed to explore the clinical utility of these lipid ratios in predicting and preventing muscle loss in obese individuals. Longitudinal studies are warranted to investigate the temporal relationship between changes in lipid profiles and the development of muscle loss.	Ok

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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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	