The study entitled “Dietary Risk Factors for Non-Communicable Diseases among Omani adults by Latent Class Analysis and Structural Equation Modelling” tries to investigate the dietary risk factors and its associations based on a first-of-its-kind analysis employing both Latent Class Analysis (LCA) and Structural equation modelling (SEM) to explore the hidden heterogeneity and subgroups with shared dietary pattern and to demonstrate the complex interaction of dietary factors with other risk factors in the development of NCDs. The manuscript is well organized and the methodology is considerable to accept for publication. However, I suggest some improvements below:

1. Provide some research gaps in the introduction.

2. Please explain all variables and how you categorized them. If needed, provide references.

3. Please follow some recently published papers related to your study from high-impact journals.

4. Please explain, how you reached the final model, do you use any model evaluation techniques like AUROC, multicollinearity, feature selection, P-value, etc?

5. Please, explain the discussion based on your findings in brief.

6. There is much room for improvement in both writing and grammar. I advise the authors to work with a writing coach or copy editor to improve the flow and readability of the text.