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| Journal Name: | **[Journal of Advances in Medical and Pharmaceutical Sciences](https://journaljamps.com/index.php/JAMPS)**  |
| Manuscript Number: | **Ms\_JAMPS\_138922** |
| Title of the Manuscript:  | **Evaluation of Omega-3, Omega-6 and Lipid Contents of Wistar Rats Treated with Frequently Used Cooking Oil in Nigeria** |
| Type of the 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.** | This study offers significant contributions to the scientific community by examining how cooking oils influence lipid profiles of Wistar rats, relevant to human cardiovascular health. It provides data on how oils affect cholesterol, HDL-C, LDL-C, and triglyceride levels, contributing to our understanding of nutrition. Analysing the omega-3 and omega-6 within the oils helps expand knowledge of its contribution to cardiovascular disease. This study will help in the development of more precise food standard and recommendations and also, public health strategies.  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | For me, it is suitable |  |
| 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. | While it mentions that “Palm, Golden Penny, and Emperor oils are high in omega-3” and “Emperor and Golden Penny are abundant in omega-6”, it doesn’t provide numerical values for these in the abstract itself. This information is present in the main results section (Table 2 and 3) but not summarized in the abstract. Including a brief mention of the range or highest/lowest values could enhance the abstract. |  |
| Is the manuscript scientifically, correct? Please write here. | Yes, the manuscript is scientifically correct. It demonstrates a systematic approach to research, employs scientific techniques, and interprets its findings within scientific framework. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references include a good mix of recent publications. Many references in the introduction and discussion are from the last 5-10 years. Some older citation (e.g., Allain et al., 1974; Fossati & Prencipe, 1982; Assmann, 1979; Friedwald et al., 1972) is appropriate as these are standard and validated techniques. However, Friedwald et al (1972) is not found in the REFERENCE section. |  |
| Is the language/English quality of the article suitable for scholarly communications? | In section 3.1, the phrasing "Across all oil brands, there was a significantly higher average level (p<0.05) of Omega-3. The exception was King's Oil, which had a statistically significantly lower level than the Control group at 7.86±3.95(p<0.05) The mean levels of Omega-6 were lower, as shown in Table 2." is a bit convoluted and could be streamlined for better readabilityOverall, the English quality is sufficiently strong to communicate its scientific content effectively to the scholarly community. |  |
| Optional/General comments | * Probably give a brief explanation on why this study does not align with other studies (e.g., Hishan et al (2020)) regarding palm oil. Since palm oil is a very common oil found in the household.
* It is important to acknowledge the limitations of the research; for example, the oil does not undergo heating processes similar to those used in household cooking
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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:**

**Annabelle C. Flores, Industrial Technology Development Institute, Philippines**