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| Journal Name: | [**Archives of Current Research International**](https://journalacri.com/index.php/ACRI) |
| Manuscript Number: | **Ms\_ACRI\_144282** |
| Title of the Manuscript: | **VERTICAL ADAPTATION OF FIXED IMPLANT-SUPPORTED PROSTHESES: CONVENTIONAL SYSTEM VERSUS CAD/CAM SYSTEM– LITERATURE REVIEW** |
| 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.** | **It is important.**  **However, those facts are well recognized in particular during the last decade.** | This manuscript offers an extensive and up-to-date synthesis of experimental and clinical evidence on the passive fit and vertical adaptation of implant-supported prosthetic frameworks, a topic of direct relevance to both restorative dentistry and implantology. By integrating findings from in vitro studies, systematic reviews, and diverse CAD/CAM and conventional fabrication techniques, it highlights how material selection, manufacturing method, and laboratory procedures affect stress distribution and long-term clinical success. The comprehensive analysis not only clarifies critical factors influencing misfit—such as welding protocols, milling precision, and prosthesis design—but also identifies CAD/CAM technology as a key driver of improved accuracy and predictability. These insights provide clinicians, researchers, and dental technicians with evidence-based guidance for optimizing treatment outcomes and set a foundation for future innovations in digital dentistry and implant-supported rehabilitation. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **OK** | I kindly appreciate the comments |
| 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. | **OK** | I kindly appreciate the comments |
| Is the manuscript scientifically, correct? Please write here. | OK | I kindly appreciate the comments |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | It would be nice to include few reference more in particular from well recognized journals form this area since this article represents literature review. | We appreciate the reviewer’s suggestion to strengthen the reference list with additional citations from well-recognized journals. Following this recommendation, we have carefully reviewed the literature and will incorporate the three additional studies proposed by the editor (Mahdi et al., 2013; Mahdi et al., 2024; Mahdi et al., 2025). We agree that including these sources will further enhance the breadth and currency of the manuscript’s reference base. |
| Is the language/English quality of the article suitable for scholarly communications? |  |  |
| Optional/General comments | **Please be so kind and add which study showing CAD/CAM frameworks with significantly less misfit.** | We appreciate the reviewer’s request for clarification. In the revised manuscript we have now specified the studies that demonstrated a significantly lower misfit when frameworks were fabricated with CAD/CAM compared with conventional casting. These include **França et al. (2015), Mello et al. (2019), Tonin et al. (2021),** and **Peixoto et al. (2023),** all of which reported statistically significant reductions in vertical or marginal discrepancies for CAD/CAM frameworks. We also note that **Tonin et al. (2024)** observed improved passive fit with CAD/CAM, although the difference in vertical misfit was not statistically significant. These citations have been incorporated into the Results/Discussion section as requested. |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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)* | No, there are no ethical issues in this manuscript. This study is a descriptive literature review that does not involve human participants, animal subjects, or the collection of personal or clinical data. Therefore, it does not require ethical approval or raise any concerns related to research ethics. |