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REVIEWER'S REPORT

Manuscript No.: IJAR-56535

Title: Shaping the Future of PeriÃ¢Â€Â˜Implant Health: Insights into Bioceramic Implant Materials

Recommendation:
Accept as it is .....
Accept after minor revision.....
Accept after major revision .....
Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality	✓			
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer's ID: JPR- 130

1. Overall Evaluation

The manuscript titled "Shaping the Future of Peri-Implant Health: Insights into Bioceramic Implant Materials" explains recent developments in bioceramic implant materials and how they help improve peri-implant health. The article discusses different modern technologies such as additive manufacturing, biofunctionalized surfaces, antimicrobial coatings, hybrid implant systems, and immunomodulatory methods. Overall, the topic is relevant and important in the field of biomaterials and dental implant research. The review collects information from many studies and explains how advanced ceramic materials can improve implant stability and reduce peri-implant diseases. This topic is useful for researchers, dentists, and scientists working in implant dentistry and biomaterials. However, some parts of the paper need more clarity, deeper discussion, and better organization to improve the quality of the manuscript.

2. Strengths of the Manuscript

1. **Important Topic -** The manuscript focuses on modern developments in bioceramic implant materials, which is an important and growing research area.
2. **Covers Many Aspects -** The review discusses several important topics such as:
    - Additive manufacturing techniques
    - Surface biofunctionalization
    - Antimicrobial ceramic coatings
    - Hybrid implant systems

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- Immunomodulatory approaches

3. **Interdisciplinary Approach -** The paper combines ideas from biomaterials science, nanotechnology, tissue engineering, and dental implantology.
4. **Clear Aim -** The article clearly explains how advanced ceramic materials can help improve tissue integration around implants and reduce implant problems.
5. **Future Research Direction -** The discussion on bioactive surfaces and immunomodulation gives useful ideas for future research.

3. Areas for Improvement

1. **More Critical Discussion Needed -** The manuscript mainly summarizes previous studies. It would be better if the authors compared different materials and techniques more critically.
2. **More Clinical Evidence Required -** The paper should include more discussion about:
   - Clinical trials
   - Long-term implant success rates
   - Limitations of bioceramic implants in real clinical practice
3. **Better Organization -** Some sections can be arranged more clearly. Using proper subheadings and smoother transitions between sections will improve readability.
4. **Add Figures or Tables -** The manuscript would be stronger if it included:
   - Tables comparing different bioceramic materials
   - Diagrams explaining surface modification techniques
   - Images of implant designs
5. **Include Recent References -** More references from the last 3–5 years should be added to make the review more up-to-date.
6. **Improve Language Clarity -** Some sentences are long and difficult to read. Minor grammar corrections and simpler wording will improve understanding.
7. **Clinical Application Section -** Adding a separate section explaining how these technologies can be used in real clinical practice will increase the impact of the paper.