

REVIEWER'S REPORT

Manuscript No.: IJAR-59029

Title: Digital Rehabilitation of Severe Post-Traumatic Anterior Alveolar Ridge Deficiency Using Customized Patient-Specific Implants: A Case Report

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 ID: JPR -085

Reviewer's Comment for Publication.

This case report describes the use of customized patient-specific titanium implants (PSIs) in a 26-year-old male with severe loss of the anterior maxillary and mandibular alveolar ridge after facial trauma. Digital planning and 3D printing were used to design the implants. The patient received fixed zirconia prostheses and achieved satisfactory function, aesthetics, and stability.

Strength:

1. The topic is interesting and clinically relevant.
2. The case is clearly described.
3. Digital planning and 3D printing methods are explained.
4. Different treatment options were discussed with the patient.
5. The implant design and surgical procedure are presented in detail.
6. The patient was followed after treatment.
7. Functional, aesthetic, and prosthetic outcomes are reported.

Weakness:

1. It is a single case report, so the results cannot be generalized.
2. Long-term implant survival is not reported.
3. The duration of final follow-up is not clearly mentioned.
4. Soft tissue complications occurred, including flap dehiscence and incomplete graft healing.

Overall assessment:

The article presents an interesting and useful case of customized patient-specific implants for severe post-traumatic alveolar ridge deficiency. The digital planning and customized implant approach are well described, and the patient achieved satisfactory functional and aesthetic results. However, it is only a single case, and long-term outcomes are not available. The soft tissue complication should also be discussed more clearly.

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