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REVIEWER'S REPORT

Manuscript No.: IJAR- 56534

Title: Bone Regeneration Under Tension: Advances in Distraction Osteogenesis

Recommendation:

Accept as it is

Accept after minor revision...

Accept after major revision

Do not accept (*Reasons below*)

| Rating | Excel. | Good | Fair | Poor |
|----------------|-----------|------|------|------|
| Originality | | Good | | |
| Techn. Quality | | Good | | |
| Clarity | Excellent | | | |
| Significance | Excellent | | | |

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

- 1. Craniofacial reconstruction involves specialized, multi-disciplinary surgery to reshape or repair congenital, traumatic, or tumor-related deformities of the skull, face, and jaws. Procedures include reconstructing bone and tissue to restore function and appearance, often using bone grafts and titanium plating. The complex surgeries (4-14+ hours) aim to improve life quality, with long-term care often needed for developmental monitoring.**
- 2. Distraction osteogenesis is a surgical technique that stimulates new bone growth by gradually pulling apart two segments of bone created by an osteotomy. Using a specialized device (distractor), the bones are moved 1mm per day, allowing natural bone regeneration (callus formation) to fill the gap.**
- 3. Activation of the distraction device to slowly separate the bones may cause mild discomfort. In general, the slow movement of bony segments produces discomfort roughly similar to having braces tightened.**
- 4. Alveolar ridge augmentation is a surgical dental procedure that rebuilds the jawbone's height and width after bone loss from tooth**

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extraction, trauma, or gum disease. By placing bone graft material—often secured with a membrane—into the socket, it restores the ridge for future dental implants. The process ensures adequate bone for functional and aesthetic, with costs typically ranging from \$1,500 to \$3,500 per quadrant.

5. **Dental implant rehabilitation restores missing teeth by surgically placing titanium posts into the jawbone, followed by attaching custom prosthetic teeth (crowns, bridges, or dentures). This process takes 3–6 months for (fusion with bone). It significantly improves chewing, speech, and aesthetics, often lasting over 25 years with proper oral hygiene.**
6. **Virtual Surgical Planning (VSP) is a technology-driven, patient-specific approach that uses CT or MR imaging to create 3D, digital, and physical models for preoperative simulation. It allows surgeons to visualize, analyze, and map complex procedures, such as craniomaxillofacial reconstructions, reducing operative time and enhancing precision.**
7. **Key words are given excellent!**
8. **Significant points are given good but result part should focus tables with graphs for values.**
9. **Summary points must be included.**
10. **References should be in alphabetical order.**
11. **After those changes good to publish in your journal.**