

# ALL-ON-FOUR WITH ZYGOMATIC IMPLANT: AN INTERESTING CASE FROM NEPAL

**Dr. Bikal Ghimire, Dr. Nabina Miya, Dr. Bidhan Shrestha**  
Kantipur Dental College Teaching Hospital and Research Centre  
Kathmandu, Nepal

## Introduction

- Patients with a completely or partially edentulous maxilla who lack sufficient bone volume to insert regular implants benefit from All-on-4 concept.
- Straight and angled multi-unit abutments, provide edentulous patients with an immediately loaded full arch restoration with only four implants.

## Case Presentation



Fig 1: Preoperative panoramic radiograph

- A 49 years old male patient presented with partial edentulism in both the maxillary and mandibular arches.
- A comprehensive physical examination revealed severe atrophy of the alveolar bone.
- Radiographic examinations revealed loss of height, thickness and bilateral maxillary sinus pneumatization.

## Treatment Planning



Fig 2: Bedrossian zone classification of maxilla

## Surgical Procedure

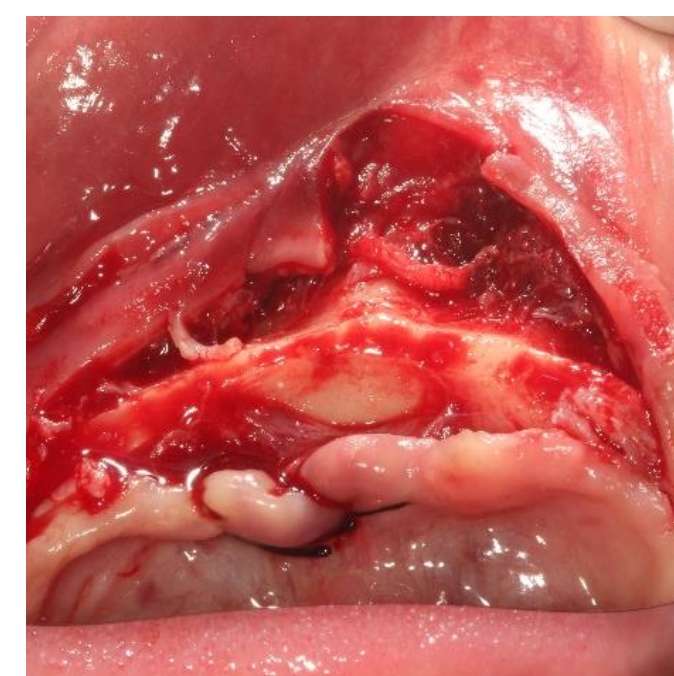


Fig 3: Full thickness mucoperiosteal flap reflected

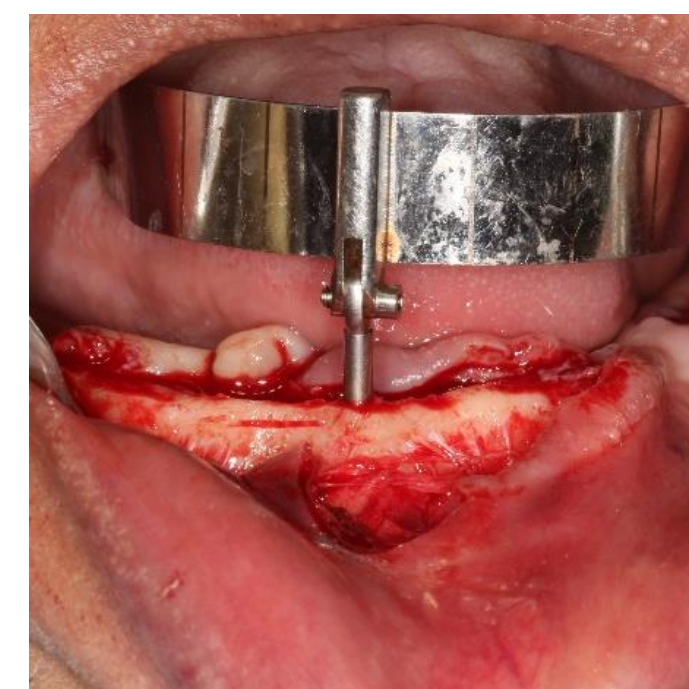


Fig 4: Guides for implant placement for osteotomy preparation

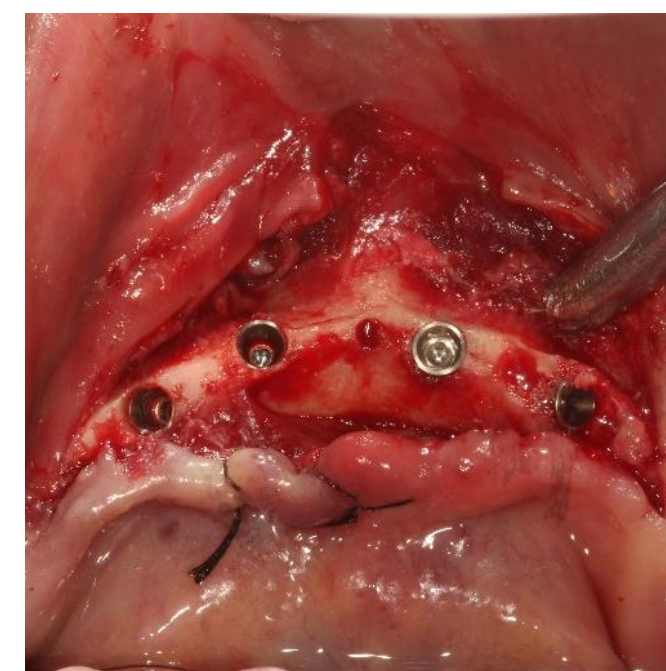


Fig 5: 4 mandibular implants placed



Fig 6: Zygomatic implant placement

## Prosthetic Procedure

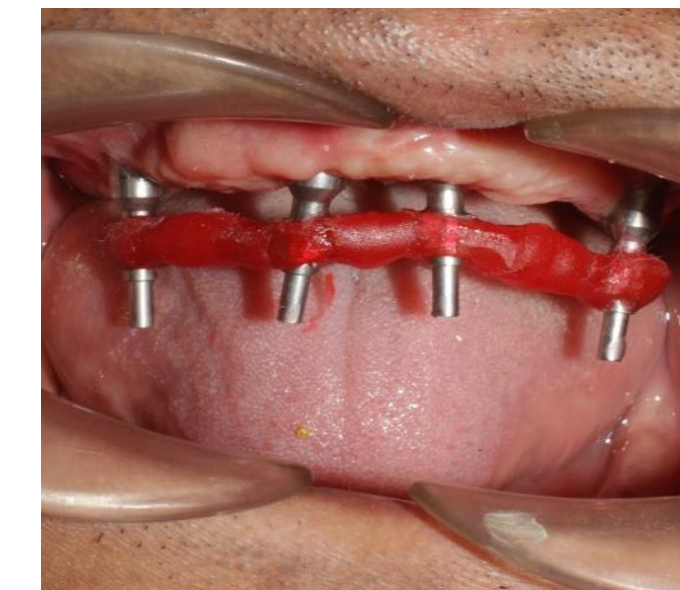


Fig 7: Jig trial



Fig 8: OPG confirming implant placement



Fig 9: Final Impression



Fig 10: Mastercast with analogues

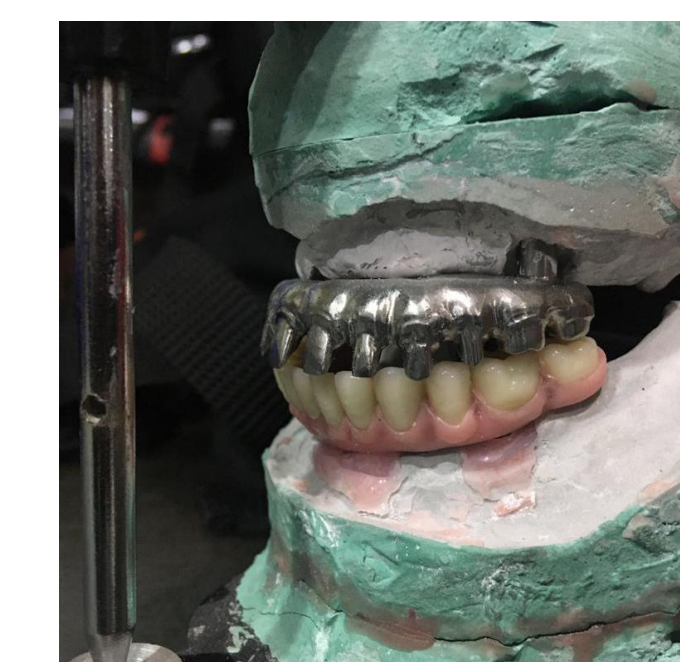


Fig 11: Jaw-relation



Fig 12: Titanium Frame



Fig 13: Denture trial



Fig 14: Final screw retained prostheses

## Result



## Conclusion

- In conclusion, zygomatic implants are very useful in the prosthetic rehabilitation of the severely resorbed maxilla whether the patient is partially or completely edentulous.
- Compared to bone grafts, this technique is less invasive and complicated and has a lower risk of morbidity.

## Disclosure of Interest

- The author declare that they have no known competing financial interest or personal relationship that could have appeared to influence the work reported in this paper

