

MANDIBULAR BONE BLOCK GRAFT FOR LOCALISED RIDGE AUGMENTATION- A CASE REPORT

Autogenous bone grafts are still considered the gold standard for jaw reconstruction. Intraoral autogenous bone grafts from sites such as mandibular symphysis and ramus offer various advantages over the extraoral sites. Provide good stability and resistance to deformation in the extracted site.

This case report evaluates the clinical and radiological outcome of autologous chin block graft used to augment a unilateral defect prior to dental implant placement for the purpose of improving function and aesthetics.

CASE PRESENTATION- A 46 year old female patient chief complaint missing in relation to 31region.

Patient reviewed after 6months for implant placement with adequate bone width and height

PRE-OPERATIVE



Pre-operative clinical view



Pre-operative CBCT

BONE WIDTH- 3.61mm
BONE HEIGHT- 10.76mm

6 MONTHS POST-OPERATIVE VIEW



6 months post-operative clinical view



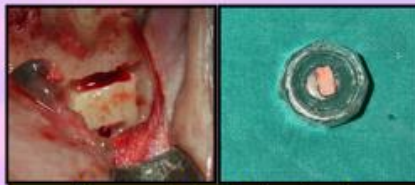
Post-operative CBCT

BONE WIDTH- 5.92mm
BONE HEIGHT- 12.15mm

SURGICAL THERAPY



Incision & flap elevation



Procurement of symphysis autograft

2 WEEKS POST-OPERATIVE VIEW



Temporary prosthesis cemented



Graft stabilization using titanium fixation screws



Xenograft+ pericardial membrane placed



Flaps approximated using simple interrupted sutures

IMPLANT PLACEMENT



Incision & flap elevation



Osteotomy site



Implant & xenograft placed

1 MONTH POST-OPERATIVE VIEW



Radiographic view & Clinical view- prosthesis cemented



Radiographic view



Suture & coepak placed



2 week post-op

DISCUSSION

- Autogenous bone grafts- golden standard for its osteogenic and osteoinductive and osteoconductive properties. (Chavda and Levin, 2018)
- Corticocancellous nature of bone harvested from the mandibular symphysis facilitates faster vascularization, helps in rapid integration, and has less potential resorption during healing.

RESULTS

Successful results were achieved with no significant complications during or after the treatment.

CONCLUSION

Block bone graft procured from symphysis region was a feasible option to augment the alveolar ridge vertically and horizontally in anterior mandible and facilitate implant placement.

	PRE-OPERATIVE	POST-OPERATIVE
BONE WIDTH-	3.61mm	5.92 mm
BONE HEIGHT-	10.76 mm	12.15 mm