

## Use of Autogenous Symphyseal Bone Graft for Ridge Augmentation: Clinico-Radiographic Study

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**Context:** Reconstruction of the lost bone has always thrown a challenge to maxillofacial surgeons. Various attempts have been made in pursuit of gaining maximum quantitative and qualitative bone fill with attempts of minimizing the morbidity.

**Aims:** Study is done to evaluate clinical & radiological efficacy of autogenous graft from mandibular symphysis with platelet rich plasma in correction of bony defects of jaws.

**Settings and Design:** This prospective study includes 25 patients. Follow up period was 12 months. The outcome was evaluated according to Bergland's scale & Coole's method.

**Methods & Materials:** All patients had undergone autogenous symphysis grafting with simultaneous placement of platelet rich plasma. All surgeries were conducted under local anaesthesia.

**Statistical Analysis Used:** Chi-square test & student 't' tests were used for significance. Results were found statistically significant. Comparison between the two radiographic techniques was found insignificant.

**Results:** The amount of available bone at recipient site before grafting was found to be in the range of 7% - 60.8% & 10%-70% according to different methods of measurement. The bone bridge height obtained after bone grafting, at the end of 12 months was in the range of 60% - 100% & 66% - 100% respectively.

**Conclusion:** For repair of most localized bone defects onlay block bone, from the mandibular symphysis with platelet rich plasma, provide certain advantages with excellent quality of autogenous bone. Along with this we have also utilized the opportunity to evaluate two different radiographic scales to compare the bone fill. Limited amount of graft precludes its use for extensive bony defects.

**Key words:** autogenous graft; onlay block graft; mandibular symphysis; platelet rich plasma.

### Biography:

Dr. Prashant A. Punde has completed his BDS from esteemed Government Dental College Nagpur in the year 2007. He has achieved success in national level postgraduate entrance exam & completed MDS in subject of Oral & Maxillofacial Surgery from Krishnadevaraya College of Dental Sciences, Bangalore in the year 2011. He had contributed his work on LASERs in asia's highest selling Textbook of Oral & Maxillofacial Surgery by Dr. Neelima Malik. He has presented 12 scientific papers and has 14 scientific articles in various Journals. He has guided undergraduate scientific projects and papers in various conferences with notable success. He has worked as reviewer for International Journal of Health & Allied Sciences, Ethiopian Journal of Health Sciences & Dental Research Journal. His work expertise includes Orthognathic surgery, traumatology & Temporomandibular joint surgery.