

Evaluation of ridge changes in immediate implant placement in split crest technique

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Abstract

Objectives: This research was carried out to evaluate crestal bone level changes around dental implants immediately installed after split-crest technique in mandible.

Materials and Methods: Ten patients receiving 20 dental implants with inadequate mandibular buccolingual dimension, 263 mm of crestal width; and sufficient height from the tip of the alveolar ridge to the inferior alveolar canal were evaluated in this retrospective study. All the patients underwent split-crest technique with immediate implant insertion. Implant placement was conducted through a conventional two-step procedure. After 4 months the patients received a mandibular (partial or complete) overdenture retained by ball and socket attachments. Crestal bone level changes around dental implants were assessed using cone beam computed tomography.

Results: Using the split ridge technique showed high rate of success and minimal ridge height changes.

Egyptian Dental Journal 2014, January