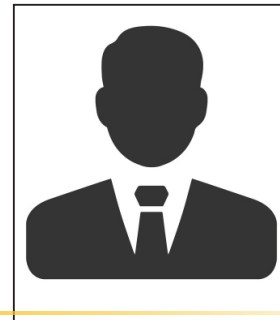


## Title: Use Of Panoramic Radiographs For Evaluation Of Maxillary And Mandibular Residual Ridge Resorption: In Vitro Study

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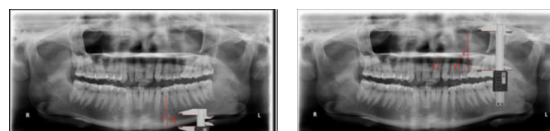
**Introduction-** Progressive ridge resorption is one of the main causes of loss of stability and retention of mandibular complete dentures. The location of the mental foramen can be identified easily on panoramic radiographs, and radiographic examinations are considered an important component of Prosthodontics diagnostic and treatment planning. Also the location of maxillary landmark is important to know how much resorption is there. Aim: To determine the average ratio of bone height with nearest constant anatomical landmarks in maxilla and in mandible.

**Objective:** To find out the association between radiographic findings & prosthodontics, such as measurements of the amount of resorption and the variation in the treatment planning of edentulous patients. **METHODS-** The subjects OPG was taken using standard radiographic procedural parameters. The measurement was done for distance 'c', 'a', 'x', 'y', 'z'. Then the calculations from measurements were done to calculate the ratio of c/a, to calculate the ratio of x/y, to calculate the ratio of x/z. **RESULT-** The descriptive statistics was done. The C/a ratio mean is  $2.71 \pm 0.31$ . The X/Y ratio mean is  $1.49 \pm 0.34$  and the X/Z ratio mean is  $1.51 \pm 0.24$ . **CONCLUSION-** This ratio can be assessed in edentulous patients and then there further treatment plan can be decided according to the ratio. The implant placement can be assessed by using the measurements in this study.

**Keywords:** Average alveolar bone, panoramic radiograph, mental foramen, mandibular ridge, zygomatic process, maxillary ridge.

**Figure 1:** Mandibular landmarks - 'c': is from the inferior border of the mandible to the alveolar crest. 'a': is from the inferior border of the mandible to lower edge of the mental foramen in dentulous mandible.

**Figure 2:** Maxillary landmarks- 'x': from line joining most inferior points of borders of bony orbits to line joining inferior margins of images of zygomatic processes. 'y': point from zygomatic process to alveolar crest in maxillary first molar regions) in dentulous maxilla. 'z': point from zygomatic process to alveolar crest in maxillary lateral incisor region) in dentulous maxilla.



### Biography

Dr. Priyanka Tiwari did her Bachelor's in Dental Surgery (BDS) from People's Dental Academy, Bhopal (M.P.), and India and did her Master's in Dental Surgery (MDS) in Prosthodontics from K.M. Shah Dental College & Hospital, Vadodara, (Gujarat), India. Completed a Certificate course by the name "JADE: Joint Alliance Duke-NUS Education Certificate Program in Medical Affairs" in 2020 from Singapore Duke-NUS Medical University. She has 6 years of experience including teaching & clinical in various eminent hospitals, college and clinics.