

44th International Conference on Dental Research and Oral Health

November 07-08, 2022 | Webinar

Priyanka Tiwari, Dent Health Curr Res 2022, Volume 08

Use of panoramic radiographs for evaluation of maxillary and mandibular residual ridge resorption: in vitro study

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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.

Results: The descriptive statistics was done. The C/a ratio mean is 2.71 ± 0.31 . The X/Y ratio mean is 1.49 ± 0.34 and the X/Z ratio mean is 1.51 ± 0.24 .

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

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.

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. She practices Prosthodontics as well as general dentistry.

Received: September 20, 2022; **Accepted:** September 22, 2022; **Published:** November 16, 2022