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A clinical study to evaluate the intercommissural width, the interalar width and the inner intercanthal distance as guides for the selection of maxillary anterior teeth width in complete denture

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Abstract:

Statement of the Problem: Various facial parameters have been studied to find reliable esthetic guides for the selection of artificial anterior teeth. However, there is no universally accepted formula to estimate the artificial teeth width.

Purpose: The purpose of this study was to find the correlation of the intercommissural width (ICW), the interalar width (IAW) & the inner intercanthal distance (IID) with the intercanine distance (ICD).

Methods: 50 male and 50 female Indian subjects of age between 18 & 25 years were selected. The ICW, IAW and IID were measured using a digital Vernier caliper. Accurate casts were made from the impression made using irreversible hydrocolloid, to quantify the intercanine distance, by use of a dental floss and digital Vernier caliper. Pearson correlation coefficient was calculated between facial measures and intercanine distance. The results were interpreted.

Results: ICD was lesser by 16% than ICW, greater by 11% than IAW and greater by 24% than IID. Multiple regression equation was calculated.

Conclusion: The interalar width and the intercommissural width can be used for the estimation of the maxillary anterior teeth width, when multiplied by a respective ratio of 1.11 and 0.86

Clinical significance:

The distance between corners of mouth and the width of the nose can be utilized as esthetic guides for the selection of the maxillary anterior teeth width.

Keywords: Complete dentures, Intercommissural width, Interalar width, Inner intercanthal distance, Intercanine distance

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