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27th Congress of the **Balkan Stomatological Society (BaSS)**

“ Past, Present and Future of Dental Implants and Gerodontology ”

November 9-11, 2023
Istanbul Atlas University
Istanbul, Türkiye



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Is there any difference in arch dimension measurements at digital vs. plaster models?

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Digital models are a reliable alternative to conventional plaster models that are accurate, efficient, easy to use, and allow visualization of the planned treatment results.

The Aim: To make a comparison of arch dimensions measurements (width, length, and height) made on digital and plaster models.

Material-Methods: Orthodontic plaster models of 60 patients with dental crowding, aged 13-18 year were observed. Linear measurements of arch dimensions were performed first manually with a digital caliper and then digitally with 3Shape's OrthoAnalyzer TM software program on the scanned plaster models with 3Shape D800 TM scanner. Dental arch width, length and height by Harper were performed. Arch width was measured as intercanine, interpremolar (IPM4, IPM5) and intemolar (IM6) distance. Arch length was measured as the distance between the distal surface of the first permanent molar and the point of contact between the central incisors. Arch height was measured as the distance between the distal surfaces of the first permanent molars and the septal margin of the central incisors, following the linea mediana.

Results: There is no statistically significant difference in the width of the dental arches between plaster and digital models. There is a statistically significant difference, in the length and height of both dental arches in favor of smaller length dimensions in digital models, and in addition to larger height dimensions in digital models.

Conclusions: Measurements on digital models are suited for reliable diagnostic measurements, which compare well to those obtained from plaster casts, the current gold standard.

Keywords: conventional plaster models, digital models, gnathometric analysis