

Pengukuran Foto Ekstraoral Antara WebCeph Dengan Metode Konvensional Pada Pasien Ortodonti = Extraoral Photo Measurement Between WebCeph and Conventional Methods on Orthodontic Patients

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Abstrak

Pendahuluan: Analisis foto ekstraoral tampak frontal dan lateral sangat penting dalam penegakkan diagnosis dan pembuatan rencana perawatan ortodonti. Analisis dengan metode konvensional merupakan gold standard dalam analisis foto ekstraoral, namun umumnya memakan waktu. Perkembangan teknologi digital berbasis Artificial Intelligence kini dapat mempermudah analisis foto ekstraoral, dengan menggunakan WebCeph. **Tujuan:** Penelitian ini bertujuan untuk menganalisis perbedaan hasil pengukuran foto ekstraoral tampak frontal dan lateral antara WebCeph dengan metode konvensional pada pasien ortodonti. **Metode:** Foto ekstraoral tampak frontal dan lateral dari 35 subjek penelitian didapatkan sesuai kriteria inklusi. Terdapat 17 parameter hasil pengukuran foto ekstraoral yang dianalisis. Uji paired t test digunakan untuk menguji perbedaan kedua metode. Interclass correlation coefficient (ICC) dan Bland-Altman plot digunakan untuk menguji reliabilitas antara kedua metode. **Hasil:** Selain pada sudut nasofasial, nasolabial dan mentolabial, tidak terdapat perbedaan hasil pengukuran foto ekstraoral tampak frontal dan lateral pada seluruh parameter antara kedua metode ($p < 0.05$). Seluruh parameter menunjukkan kesepakatan hampir sempurna antara kedua metode ($ICC > 0.81$). **Kesimpulan:** Meskipun terdapat perbedaan signifikan pada beberapa parameter antara WebCeph dengan metode konvensional, namun tidak terlihat perbedaan secara klinis.

.....**Introduction:** Analysis of extraoral photos in frontal and lateral views is crucial in establishing the orthodontics diagnosis and treatment planning. Conventional analysis methods are considered to be the gold standard in extraoral photo analysis, but its time consuming. The development of digital technology based on artificial intelligence now facilitates extraoral photo analysis, using WebCeph. **Objective:** This study aims to analyze the differences in measurement of frontal and lateral extraoral photos between WebCeph and conventional methods on orthodontics patients. **Methods:** Frontal and lateral extraoral photos of 35 subjects were obtained according to inclusion criteria. Seventeen parameters of extraoral photo measurements were analyzed. Paired t tests were used to evaluate the differences between the two methods. Interclass correlation coefficient (ICC) and Bland-Altman plots were used to determine agreement between the two methods. **Results:** Except for nasofacial, nasolabial, and mentolabial angles, all other parameters presented no significant differences between the two methods in measurement of frontal and lateral extraoral photos ($p < 0.05$). All parameters showed almost perfect agreement between the two methods ($ICC > 0.81$). **Conclusion:** Although significant differences were detected in some measurements between WebCeph and conventional methods, but there was no clinically significant difference.