

# Gambaran Inklinasi dan Angulasi Gigi Anterior pada Pasien Maloklusi Kelas I Pasca Perawatan Ortodonti Cekat di Klinik Spesialis Ortodonti RSKGM FKG UI = Inclination and Angulation of Anterior Teeth in Class I Malocclusion Patients after Fixed Orthodontic Treatment at the Orthodontic Specialist Clinic RSKGM FKG UI

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## Abstrak

Latar Belakang: Maloklusi adalah ketidakaturan kesejajaran gigi dan/atau hubungan lengkung gigi dengan gigi yang tidak normal yang diakibatkan oleh berbagai faktor dan dapat menyebabkan ketidakpuasan estetika sampai masalah pada segi fungsional. Pasien dengan maloklusi memerlukan perawatan ortodonti salah satunya untuk memperbaiki maloklusi. Inklinasi dan angulasi gigi menjadi salah satu faktor yang mempengaruhi keberhasilan perawatan ortodonti yang stabil dan optimal. Tujuan: Mengetahui gambaran sudut inklinasi dan angulasi gigi anterior pada pasien maloklusi skeletal kelas I pasca perawatan ortodonti cekat di klinik spesialis ortodonti RSKGM FKG UI. Metode: Penelitian yang dilakukan merupakan penelitian deskriptif dengan desain potong lintang (cross-sectional) menggunakan sampel berupa data sekunder rekam medik. Hasil: Dari 96 rekam medik pasien maloklusi kelas I yang telah selesai mendapatkan perawatan ortodonti cekat di Klinik Spesialis Ortodonti RSKGM FKG UI, didapatkan rerata sudut U1-SN sebesar  $105,60^{\circ} \pm 5,80^{\circ}$ , rerata sudut U1-PP sebesar  $114,55^{\circ} \pm 6,21^{\circ}$ , rerata sudut L1-MP sebesar  $93,63^{\circ} \pm 7,94^{\circ}$ , dan rerata sudut IMPA adalah sebesar  $96,40^{\circ} \pm 7,96^{\circ}$ . Rerata angulasi gigi 11 sebesar  $89,03^{\circ} \pm 3,26^{\circ}$ , rerata angulasi gigi 21 sebesar  $90,35^{\circ} \pm 3,07^{\circ}$ , rerata angulasi gigi 31 sebesar  $89,28^{\circ} \pm 4,33^{\circ}$ , dan rerata angulasi gigi 41 sebesar  $90,61^{\circ} \pm 5,04^{\circ}$ . Kesimpulan: Berdasarkan penelitian tentang Gambaran Inklinasi dan Angulasi Gigi Anterior pada Pasien Maloklusi Kelas I Pasca Perawatan Ortodonti Cekat di Klinik Spesialis Ortodonti RSKGM FKG UI, rerata sudut inklinasi gigi anterior pasien termasuk dalam kisaran nilai normal, kecuali pada sudut IMPA. Rerata sudut angulasi gigi anterior pasien relatif tegak dan paralel.

.....Background: Malocclusion is the irregularity of teeth and is considered as oral health problem resulting from various etiological factors causing esthetic dissatisfaction to functional impairment. Patients with malocclusion require orthodontic treatment to correct the malocclusion. Inclination and angulation of teeth are one of the factors that influence the success of stable and optimal orthodontic treatment. Objective: This study aims to describe the inclination and angulation of anterior teeth on class I malocclusion patients after fixed orthodontic treatment at the Orthodontic Specialist Clinic of RSKGM FKG UI. Methods: Cross-sectional descriptive study is done using the secondary data found in the patient's medical record. Results: From 96 medical records of class I malocclusion patients who have completed fixed orthodontic treatment at the Orthodontic Specialist Clinic of RSKGM FKG UI, the mean U1-SN angle is  $105.60^{\circ} \pm 5.80^{\circ}$ , the mean U1-PP angle is  $114.55^{\circ} \pm 6.21^{\circ}$ , the mean angle of L1-MP is  $93.63^{\circ} \pm 7.94^{\circ}$ , and the mean angle of IMPA is  $96.40^{\circ} \pm 7.96^{\circ}$ . The mean angulation of tooth 11 is  $89.03^{\circ} \pm 3.26^{\circ}$ , mean angulation of tooth 21 is  $90.35^{\circ} \pm 3.07^{\circ}$ , mean angulation of tooth 31 is  $89.28^{\circ} \pm 4.33^{\circ}$ , and mean angulation of tooth 41 is of  $90.61^{\circ} \pm 5.04^{\circ}$ . Conclusion: Based on research on the Inclination and Angulation of Anterior Teeth on Class I Malocclusion Patients after Fixed Orthodontic Treatment at the Orthodontic Specialist Clinic of RSKGM FKG UI, the inclination of anterior teeth is within the normal range, except at the IMPA angle. The

angulation of anterior teeth is relatively upright and parallel.