

# Perbandingan luas dinding saluran akar oval yang tidak terpreparasi dengan gerakan sirkumferensial filing menggunakan file putar = Comparison of Non-Instrumented area of oval root canal wall with circumferential filing using rotary file

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## Abstrak

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Latar Belakang: Preparasi saluran akar oval memiliki tantangan tersendiri karena bentuknya yang ireguler sehingga file tidak dapat berkontak dengan seluruh dinding. Penelitian ini bertujuan untuk membandingkan luas dinding saluran akar oval yang tidak terpreparasi dengan gerakan sirkumferensial filing. Metode: Tiga puluh dua gigi premolar mandibula diisi tinta cina kemudian dipreparasi menjadi dua kelompok: Mtwo® dan ProTaper Next®. Luas sisa tinta cina dianalisis dengan Adobe Photoshop CS6 dan ImageJ. Hasil: Tidak terdapat perbedaan bermakna antara kedua kelompok, namun ProTaper Next® meninggalkan area lebih sedikit dibandingkan Mtwo®. Kesimpulan: Mtwo® dan ProTaper Next® tetap meninggalkan area yang tidak terpreparasi pada saluran akar oval.

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Background: Mechanical preparation of oval root canal has its own challenge due to the irregular shape leaving some area uninstrumented. This study compared uninstrumented area of oval root canal with circumferential filing using two different files. Methods: Thirty-two mandibular premolars were dyed with china ink and divided into two groups, Mtwo® and ProTaper Next®. The uninstrumented areas were analyzed using Adobe Photoshop CS6 and ImageJ. Results: There were no significant difference between two files, thou ProTaper Next® left less uninstrumented areas than Mtwo®. Conclusion: Mtwo® and ProTaper Next® left uninstrumented areas in oval root canal.

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