Perbandingan sealing ability pengisian saluran akar dengan siler bioceramic dan resin-metakrilat = Comparison sealability of root canal obturation using bioceramic sealer and methacrylate-resin based sealer

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Abstrak

ABSTRAK
Latar belakang: Siler dapat meningkatkan sealing ability Tujuan: Menganalisis dan membandingkan sealing ability pengisian saluran akar dengan siler bioceramic dan resin metakrilat. Metode: Tiga puluh gigi dengan saluran akar tunggal, dipreparasi dengan ProTaper Next, dibagi dalam dua kelompok secara acak; Masing-masing grup diisi dengan gutaperca berlapis, untuk kelompok 1 menggunakan Siler Bioceramic SB dan kelompok 2 Siler Resin-Metakrilat SRM . Pengukuran kebocoran dengan tinta india pada daerah sepertiga apikal apeks yang dipotong secara melintang, kemudian dilihat dengan mikroskop stereo. Hasil: Kelompok siler bioceramic menunjukkan celah tepi yang lebih sedikit jika dibandingkan dengan siler resin-metakrilat. Kesimpulan: Sealing ability pengisian saluran akar menggunakan siler bioceramic SB lebih baik dibandingkan dengan siler resin-metakrilat SRM .<hr />ABSTRAK
Background Sealer may increase sealing ability. Purpose To compare and analyze sealability of obturation using the bioceramic sealer and methacrylate resin based sealer. Methods thirty single rooted teeth were prepared using ProTaper Next and divided randomly into two groups the first group was obturated with Bioceramic Sealer SB while the second group was obturated with methacrylate resin based sealer SRM . Each group used coated gutta percha as a core material. Apical third marginal adaptation was evaluated by observing the dye penetration between the obturation material and the root canal walls on cross sectioned samples. Results SB Showed the least microleakage in the apical third marginal adaptation, followed by SRM. Conclusion Obturation of root canal using bioceramic sealer has the best sealing ability at the apical third, compared to SRM.