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M. Frozoni, A. Balic, K. Sagomonyants, A. A. Zaia, S. R. P. Line and M. Mina
Accepted manuscript online: 14 MAR 2012 01:45PM EST | DOI: 10.1111/j.1365-2591.2012.02047.x

Nanomodification of Mineral Trioxide Aggregate for enhanced physicochemical properties

M A Saghiri, K Asgar, M Lotfi and F Garcia-Godoy
Accepted manuscript online: 24 MAR 2012 01:25PM EST | DOI: 10.1111/j.1365-2591.2012.02056.x

Noninvasive cross-sectional imaging of incomplete crown fractures (cracks) using swept-source optical coherence tomography

Y. Nakajima, Y. Shimada, M. Miyashin, Y. Takagi, J. Tagami and Y. Sumi
Accepted manuscript online: 19 MAR 2012 01:51PM EST | DOI: 10.1111/j.1365-2591.2012.02052.x

Variability of physicochemical properties of an epoxy resin sealer taken from different parts of the same tube

JV Baldi, RA Bernardes, MAH Duarte, R Ordinola-Zapata, BC Cavenago, JCS Moraes and IG de Moraes
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Effectiveness of ProTaper, D-RaCe, and Mtwo retreatment files with and without supplementary instruments in the removal of root canal filling material

B. Marques da Silva, F. Baratto-Filho, D. Piotto Leonardi, A. Henrique Borges, L. Volpato and F. Branco Barletta
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An *in vivo* evaluation of the Auto Apical Reverse function of the Root ZX II

G. Fadel, L. Piasecki, V. P. D. Westphalen, U. X. Silva Neto, L. F. Fariniuk and E. Carneiro

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The effect of using an alternative irrigant between sodium hypochlorite and chlorhexidine to prevent the formation of para-chloroaniline within the root canal system.

D. Mortenson, M. Sadilek, N.M. Flake, A. Paranjpe, I. Heling, J.D. Johnson and N. Cohenca

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Original Scientific Articles

Comparison of the anaesthetic efficacy of and heart rate changes after periodontal ligament or intraosseous X-Tip injection in mandibular molars: A randomized controlled clinical trial

M. Zarei, J. Ghoddusi, E. Sharifi, M. Forghani, F. Afkhami and Parviz Marouzi

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Tooth discoloration induced by endodontic materials: a laboratory study.

P. Lenherr, N. Allgayer, R. Weiger, A. Filippi, T. Attin and G. Krastl

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Reviews

Radiological diagnosis of periapical bone tissue lesions in endodontics: a systematic review

A. Petersson, S. Axelsson, T. Davidson, F. Frisk, M. Hakeberg, T. Kvist, A. Norlund, I. Mejare, I. Portenier, H. Sandberg, S. Tranæus and G. Bergenholtz

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Interactions between immune system and mesenchymal stem cells in dental pulp and periapical tissues

J. G. Leprince, B. D. Zeitlin, M. Tolar and O. A. Peters

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Assessment of daily exposure of endodontic personnel to extremely low frequency magnetic fields

D. W. Kim, J. L. Choi, M. K. Kwon, T. J. Nam and S. J. Lee

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Cyclic fatigue analysis of twisted file rotary NiTi instruments used in

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G. Gambarini, R. Gergi, A. Naaman, N. Osta and D. Al Sudani

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Lack of correlation between sealer penetration into dentinal tubules and sealability in nonbonded root fillings

G. De-Deus, M. C. Brandão, F. Leal, C. Reis, E. M. Souza, A. S. Luna, S. Paciornik and S. Fidel

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The efficacy of ProTaper Universal rotary retreatment instrumentation to remove single gutta-percha cones cemented with several endodontic sealers

H. Ersev, B. Yılmaz, M. E. Dinçol and R. Dağlaroğlu

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Detection of *Porphyromonas endodontalis*, *Porphyromonas gingivalis* and *Prevotella intermedia* in primary endodontic infections in a Chinese population

H. Cao, Z. Qi, H. Jiang, J. Zhao, Z. Liu and Z. Tang

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Antibacterial activity of dentine and pulp extracellular matrix extracts

J. G. Smith, A. J. Smith, R. M. Shelton and P. R. Cooper

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