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**Evaluation of two shaping systems and two sonic irrigation devices in removing root canal filling material from distal roots of mandibular molars assessed by micro CT**

M. K. Kaloustian, W. Nehme, C. El Hachem, C. Zogheib, N. Ghosn, J. P. Mallet, F. Diemer, A. Naaman

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**Influence of heat treatment on torsional resistance and surface roughness of nickel-titanium instruments**

E. J. N. L. Silva, J. F. N. Giraldez, C. O. de Lima, V. T. L. Vieira, C. N. Elias, H. S. Antunes

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J. A. Duque, R. R. Vivan, M. A. H. Duarte, M. P. Alcalde, V. M. Cruz, M. M. B. Borges, C. M. Bramante

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**Analysis of hard tissue regeneration and Wnt signalling in dental pulp tissues after direct pulp capping with different materials**

K. Yaemkleebbua, T. Osathanon, N. Nowwarote, C. N. Limjeerajarus, W. Sukarawan

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