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Morphology and prevalence of C-shaped canal system in mandibular second molars in north Iranian population: A cone-beam computed tomography study

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Aim: In order to achieve a successful root canal treatment, it is essential to be familiar with root canal morphology and anatomy. For this purpose, we investigated the prevalence and morphology of the C-shaped canal in the mandibular second molar in northern population of Iran using CBCT.

Materials & Methods: In this cross sectional study, we used CBCT images of 260 patients which were taken in a radiology center in city of Sari because of diagnostic and therapeutic purposes. Root canal images of mandibular second molar were examined in cross sections of each 1 mm of root canal. We examined the gender of patients and the morphology and prevalence of C-shaped canal. Teeth with C-shaped canal were classified according to Fan et al. classification and the statistical analysis was performed using the chi-square Test and T-test.

Results: From the 260 mandibular second molars studied, 30 teeth (11.5%) had C-shaped canals and C1 type was the most common form among those teeth. In this study, gender had a significant impact on the prevalence of C-shaped canals, so that women showed a much higher prevalence.

Conclusion: Considering the fact that the prevalence of C-shaped canals among molar teeth in northern population of Iran is relatively high, it is important for dentists to be familiar with this root canal anatomy and to consider the referral of these cases to an endodontist.

Biography

Narjes Hoshyari has completed her Graduation as a General Dentist in 2009 and as an Endodontist in 2013 in the School of Dentistry at Tehran University of Medical Science. She is working as an Assistant Professor in Endodontic Department of Sari Dental School, Mazandaran University of Medical Science from 2013. She has published several papers in reputed journals. She is a Reviewer of two peer-reviewed scientific journals.

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