

# Dentistry & Oral Care

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## Prevalence and location of second mesiobuccal canal in maxillary first molar of Indian population- A cone beam computed tomography study

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The presence of elusive MB2 canal in mesiobuccal root of first maxillary molar has shown wide variations among different populations. However, no detailed study on a large group of Indian population on prevalence and location of MB2 canal in maxillary first molar is presented in literature. To investigate the prevalence of MB2 canal in right and left maxillary first molar of Indian population. To assess the location of the MB2 canal in permanent maxillary first molar. 300 CBCT scans of right and left maxillary first molar will be studied in sagittal, coronal and axial sections. Axial tomographic slices will be studied in cervico-apical direction from the pulp chamber to the apex of mesiobuccal root for the detection of MB2 canal. When MB2 is present, the floor of coronal cavity will be located and progressed 2mm apically to standardize observation of MB2 canal. The geometric position of MB2 canal will be studied according to protocol described by Gorduysus *et al.* The midpoint of MB1, Palatal and MB2 canal will be found and straight lines will be drawn connecting these points. Another line will be drawn from MB2 perpendicular to MB1- P line. The distances between lines drawn will be measured in millimeter. The data will be analyzed using descriptive statistics, with a value of  $P < 0.05$  being statistically significant.

### Biography

Radhika Kewalramani is a Post-graduate student of Conservative dentistry and Endodontics department of V S Dental College and Hospital, affiliated to Rajiv Gandhi University, Bangalore, India and has done her under-graduation (BDS) from the reputed Manipal University, India. She is the recipient of the prestigious IDA- Colgate scholarship in 2012. She has attended various hands on courses in the field of conservative dentistry and endodontics and presented at various conventions and conferences throughout India.

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