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A COMPARISON OF ONE SHAPE AND PROTAPER NEXT ROTARY SYSTEMS FOR ELIMINATION OF *ENTEROCOCCUS FAECALIS* FROM ROOT CANAL: MICROBIOLOGICAL AND SEM EVALUATION

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Incomplete removal of micro-organisms from infected root canals is a common cause of failed endodontic treatment. The difficulty in eradication of *Enterococcus faecalis* from root canals plays an essential role in pathogenesis of persistent pulp al and Perl radicular infections. The aim of the present study was to compare the reduction of *Enterococcus faecalis* in root canals by mechanical instrumentation using two rotary systems (One Shape and Pro Taper Next) and Hand K-file instrumentation by using microbiological and Scanning Electron Microscopy (SEM) evaluation. Fifty one freshly extracted mandibular premolars with a single root were collected. After pre-instrumentation sampling, they were divided into three groups, Group A, Group B and Group C in which biomechanical preparation was done using Hand K-File, One Shape and protaper Next respectively. Reduction in pre-instrumentation and post-instrumentation values of *Enterococcus faecalis* were analyzed using microbiological and SEM evaluation. Statistical analysis by paired 't' test and p value showed that there was highly statistical significant difference in CFU count reduction between the pre-Instrumentation and post-instrumentation values in all the groups.

BIOGRAPHY

Baljeet Kumar is Head of Department and Associate Professor of Department of Conservative Dentistry and Endodontics in Punjab Government Dental College and Hospital in Amritsar, Punjab, India. He has done his post-graduation in Conservative Dentistry and Endodontics in 2001. He has 12 years of experience in Rural Dental Healthcare in the Department of Health and Family Welfare and 10 years of experience as lecturer and Asst. Professor. Currently he is working as Associate Professor with Medical Research and Education, India (Conservative Dentistry & Endodontics), teaching under Graduates & Post Graduates. He is the Incharge for the subject of Dental Materials, Head of Department for the subject of Oral Medicine & Radiology, Incharge Information Technology and Human Resources. His main topic of interest is endodontic instrumentation and sealers. He has various publications in state level, national level and international level in Conservative Dentistry and Endodontics. He has published more than 12 papers in reputed national & international journals.

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