

4th Asia Pacific Congress & Expo on

Dental and Oral Health

July 27-29, 2015 Brisbane, Australia

Debridement in endodontics

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The main goal of endodontic therapy is thorough chemomechanical debridement of the entire root canal system followed by a three-dimensional obturation with an inert filling material and a final coronal restoration. Debridement of the root canal plays a very critical role to achieve a successful endodontic outcome. Endodontic disease is a biofilm-mediated infection, and primary aim in the management of endodontic disease is the elimination of bacterial biofilm from the root canal system. It is important to apply the biofilm concept to endodontic microbiology to understand the pathogenic potential of the root canal microbiota as well as to form the basis for new approaches for disinfection. From these aspects, the formation of biofilms carries particular clinical significance because not only host defence mechanisms but also therapeutic efforts including chemical and mechanical antimicrobial treatment measures have the most difficult task of dealing with organisms that are gathered in a biofilm. This presentation will highlight the role of biofilm, challenges, latest techniques and concepts in the debridement of root canal.

Biography

Abhishek Parolia has served as an assistant professor and reader in Manipal University and currently working as a senior lecturer in International Medical University, Kuala Lumpur. He graduated from Manipal University and perused his masters in the field of Conservative Dentistry and Endodontics at the same university. He was awarded a gold medal in Conservative Dentistry and Endodontics. He is actively involved in research and received Research Incentive Award in 2010 and 2011 from Manipal University and Marquis Award (USA) in 2011. He received an award for his significant contribution as a newcomer in the School of Dentistry, International Medical University, Malaysia. He was also awarded for his Invaluable contribution in leading ICDAS initiative from the school of Dentistry, International Medical University in 2014. He is a member of ICDAS National Benchmark Group, Malaysia. He has published many scientific papers in national and international peer-reviewed journals and authored chapters "Diagnosis in Endodontics" in the book entitled Essentials of Endodontics, published in 2012 by Quintessence India and "Propolis and its implications in oral health" in the book entitled Beneficial Effects of Propolis on Human Health and Chronic Diseases. Volume 2, Published in 2012 by Nova Publications USA. He is a reviewer of Indian Journal of Dental Research, Journal of Dental Education, European Journal of Dentistry, Malaysian Dental Journal, International Journal of Dental Hygiene and member of editorial board of Journal of Conservative Dentistry. He is a member of FODI, Malaysian Dental Association, International Association of Dental Research and International Cariology group. He has conducted workshops and lectured locally and internationally at many countries namely India, Malaysia, Indonesia, Dubai, Brazil and Canada.

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