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Role of intracanal medicament in the reduction of endotoxin level in infected and acute apical abscess: An *in vivo* study

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Endodontic infection are mainly caused by gram-negative anaerobic bacterial species. These bacterial species express virulence factor that has an important role in the development of periapical lesion. One of the important factor is lippopolysaccharide also known as endotoxin. Thus major objective of the clinicians during endodontic treatment of pulp necrosis and chronic periapical lesion should not be only the elimination of bacteria, but should also aim for complete elimination of endotoxin. The present study compared the efficacy of 5% sodium hypochlorite, combination of calcium hydroxide+2% chlorhexidine gel and Nd: YAG lasers in reducing the level of endotoxin in infected root canals and acute apical abscess exudates. Chromogenic Limulus Amoebocyte Lysate Assay test was used to measure the level of endotoxin in the root canals. After analyzing the data, it was concluded that the decrease in pre and intermediate endotoxin levels after use of 5% sodium hypochlorite and Nd: YAG laser. Use of 2% chlorhexidine+ calcium hydroxide as an intra-canal medicament for 15 days further reduces the endotoxin levels.

Biography

Promila Verma has completed her BDS from King George Medical College Lucknow and MDS in Conservative Dentistry and Endodontics from the same institute. She is working as a Professor in the Department of Conservative Dentistry and Endodontic in KGMU. She has published more than 25 papers in reputed journals and has been serving as an Editorial Board Member of repute. She is a Fellow of Piere Fauchard Academy and Member of National Academy of Science. She is also a Life Member of Indian Association of Conservative Dentistry And Endodontics, Indian Endodontic Society, Indian Dental Association and Indian Science Congress.

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