

27th Euro Dentistry Congress

October 25-27, 2018 | Prague, Czech Republic

The pH changes of five different calcium hydroxide and MTA mixtures used for intracanal medication and pulp capping

The purpose of this study was to determine the pH values of calcium hydroxide and MTA mixtures in combination with either distilled water, one local anesthetic solution, physiological saline solution, Chlorhexidine (CHX) and Glycerin which are commonly used as a dressing materials during endodontic treatment. The pH of each vehicle prior to mix with calcium hydroxide and MTA subsequently each prepared combination was determined using a digital pH meter. The pH measurements were determined at 3 min, 10 min, 1 h, 3 h, 24 h, 48 h and seven days. The results of this study indicated that; five different vehicles demonstrated similar pH changes range within pH 11–12 when mixed with calcium hydroxide. While four different vehicles showed similar pH changes values with calcium hydroxide, MTA+local anesthetic solution mixtures demonstrated lower pH change values. This finding shows that the anesthetic solutions seems not available to prepare MTA for dental therapies.

Biography

Hikmet Solak has completed his PhD in Ankara University, Faculty of Dentistry in 1985. He became a Research Assistant in the Faculty of Dentistry Department Restorative in the same year. He became an Associate Professor in 1996 and became Professor in 2002. In 2007, he joined Near East University as a Founder of Faculty of Dentistry. He became the Head of the Faculty in 2007-2015. He became a Manager for International Medical and Dental Tourism Department for University in 2015. He currently works as a Manager of International Medical and Dental Tourism Department and as Professor of Restorative Dentistry Departments in Near East University, Faculty of Dentistry. He has published more than 60 papers in reputed journals and has been serving as a Chief Editorial Board Member of reputed. He is also the Chief and Member of Turkish Fishing Organization, and Member of Turkish Dental Tourism Organization. His current research interests are dental caries chemistry, pulp capping, restoration of endodontically treated teeth, dental caries management and smiling design and international medical dental tourism. His mostly indexed papers are pulp capping and caries related studies.

hikmetsolak@gmail.com



Hikmet Solak

Near East University, Turkey

Co-Authors

Y M Tunca and T Yilmaz

Near East University, Turkey

Notes: