

JOSETTE CAMILLERI



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Josette Camilleri obtained her Bachelor in Dental Surgery and Master of Philosophy in Dental Surgery from the University of Malta. She completed her doctoral degree, supervised by the late Professor Tom Pitt Ford, at Guy's Hospital, King's College London. She has worked at the Department of Civil and Structural Engineering, Faculty for the Built Environment, University of Malta and at the Department of Restorative Dentistry, Faculty of Dental Surgery, University of Malta. She is currently a senior academic at the School of Dentistry, College of Medical and Dental Sciences, Institute of Clinical Sciences, University of Birmingham, United Kingdom. Her research interests include endodontic materials such as root-end filling materials and root canal sealers, with particular interest in mineral trioxide aggregate; Portland cement hydration and other cementitious materials used as biomaterials and also in the construction industry. Josette has published over 100 papers in peer-reviewed international journals and her work is cited over 5000 times. She has been awarded the Louis Grossman Prize by the French Endodontic Society in 2018 and is the only female recipient of this prestigious award. She is the Editor of Mineral trioxide aggregate. From preparation to application published by Springer in 2014. She is a contributing author to the 7th edition of Harty's Endodontics in Clinical Practice (Editor: BS Chong) and Glass ionomer cements in Dentistry (Editor: SK Sidhu). She is an international lecturer, a reviewer and a member of the scientific panel of a number of international journals.

CURRENT CONCEPTS OF ROOT CANAL OBTURATION

The purpose of root canal obturation is to prevent infection or re-infection of the root canal space, thus allowing the root treated tooth to remain as a functional unit in the dentition. For

many years root canal obturation techniques and materials were studied by assessing the micro-leakage using various in vitro methods. A 'hermetic' seal was considered to be necessary for a success root canal treatment outcome. There have been several developments with regard to root canal obturation techniques and materials, introduced with the aim of achieving improved quality root fillings and a better clinical outcome. In this presentation, root canal obturation techniques and materials will be discussed with an emphasis on their benefits and shortcomings and with the view of highlighting areas of development. The aim of this lecture is to review root canal obturation techniques and materials with a view of highlighting their benefits and shortcomings. This will help provide a perspective on possible avenues of development in this area. Learning outcomes - Review root canal obturation techniques and materials. - Explain the benefits and shortcomings of current root canal obturation techniques and materials. - Describe possible avenues of development in root canal obturation techniques and materials.