

ABSTRACTS & CV ÅRSMØDE 2020

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Evidence for paradigm shift in root canal obturation

Abstract

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. However, *in vitro* assessment methods are no longer considered valid due to the unreliability of the resultant data and the lack of correlation to the clinical scenario. 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.

Objective

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.

Choosing the right material for pulp protection

Abstract

Management of tooth tissue loss may involve procedures involving the pulp. This necessitates the use of materials that will not adversely affect the pulp. A number of materials are available on the market. The materials vary in composition, delivery and presentation. The clinician needs to be able to choose the right material depending on the clinical situation. The aim of this lecture is to discuss materials available for pulp therapy and also considerations for tooth restoration after pulp capping.

Objective

This lecture will look at the classical pulp capping methodology and the newer hydraulic calcium silicate cements used for pulp capping.

Learning outcomes

- Update on new materials on the market
- Learn on the effectiveness of these materials for indicated procedures
- Learn on the choice of restorative material to layer the pulp capping materials



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Biography

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, Malta. She is currently a Clinical Senior Lecturer and Honorary Specialty Dentist at the School of Dentistry, College of Medical and Dental Sciences, Institute of Clinical Sciences, University of Birmingham, United Kingdom and visiting professor at KU Leuven, Leuven Belgium, University of Oslo, Oslo, Norway and Tehran University of Medical Sciences, Tehran, Iran. 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 130 papers in peer-reviewed international journals and her work is cited over 6000 times. In 2018, she has been awarded the Louis Grossman prize by the French Endodontic Society and is the first 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 a senior editor of Scientific Reports (Nature), a reviewer and a member of the scientific panels of a number of international journals and also an international lecturer.