

Dental Caries and Hypomineralised Enamel – What a Clinical Nightmare

presented by
Professor David John Manton

Dental caries, a behaviourally driven bacterial disease with genetic influences, is one of the most prevalent primarily preventable conditions on the globe. In the past 50 years the prevention of dental caries has concentrated on the delivery of fluoride, however, the action of fluoride is limited somewhat by the presence of bio available calcium and phosphate. Several products containing calcium and phosphate are now available commercially – these will be discussed. The management of carious lesions has changed markedly over the past decade or so, and new guidelines for tissue removal have been released. Carious tissue removal will be discussed, in conjunction with stainless steel crowns and the Hall technique for restorative care.



Treating children with molar incisor hypomineralisation MIH can be difficult, especially in those individuals with severely affected permanent molars. Weaker resin to enamel bond strengths can be increased in vitro, however, the clinical implications of this are untested. The well recognised issues of rapid breakdown of the enamel and subsequent carious lesion development associated with refractory pulpal sensitivity can challenge even the most skilled clinician. For severely affected teeth the decision between the placement of preformed metal crowns or the planned extraction of one or more teeth can be complicated and require multidisciplinary advice.

COURSE TOPICS

- What causes dental caries and MIH?
- Treatment planning for the child with caries and/or MIH
- What are your treatment options?
- When and how to place Stainless Steel (preformed) crowns

LEARNING OBJECTIVES

- To explain the pathogenesis, prevalence and clinical features of dental caries and hypomineralised enamel
- To discuss the clinical consequences of dental caries and hypomineralised enamel on treatment planning and clinical care
- To gain the knowledge and skill to determine when and how to place Stainless Steel (preformed) crowns.

Hands on component: Outcome to be able to prepare a tooth and place a preformed crown.

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Professor David John Manton

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David has spent more than 30 years in private practice and academia, and is currently the Eldson Storey Chair of Child Dental Health and a visiting consultant at RCH. He is involved in several collaborative and postgraduate research projects in both paediatric dentistry and orthodontics. Graduated BDSc (Melb) in 1984 and worked in general practice until 1991 when he undertook an MDSc in Paediatric Dentistry. He was dental advisor to the Federal Government from 1994 – 1996 and won the KG Sutherland Prize of the RACDS in 2007. He is on the editorial boards of the European Archives on Paediatric Dentistry and the International Journal of Paediatric Dentistry, and the advisory panel (board) of the European Caries Research Association (ORCA).

Over the past 15 years David has spoken throughout Australia, Asia and Europe and has wide ranging experience in laboratory and clinical trials of CPP-ACP, Minimum Intervention Dentistry, the detection of carious lesions, developmental defects of enamel and the use of calcium silicates in endodontics. He has published more than 100 manuscripts in peer-reviewed journals and has been cited more than 2000 times since 2013.

Date: Wednesday 16 May 2018

Time: 2:00-6:00pm

Venue: Henry Schein Halas
Level 9, 369 Royal Parade
Parkville VIC 3052

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