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Title: effectiveness of HealOzone® for the treatment of occlusal pit/fissure caries

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Abstract: Background and objective: Occlusal caries forms the largest percentage of new carious lesions seen in general dental practice. Traditional approaches to the diagnosis, management and treatment of occlusal caries have changed, but at present it still consists of amputation therapy. The dental profession has needed an alternative, and recent research has pointed the way towards a novel treatment with ozone.

HealOzone has recently been proposed as a novel method for the treatment of dental caries. It is suggested that HealOzone may reverse, arrest or slow the progression of dental caries. The complete HealOzone procedure involves the direct application of ozone gas to the caries lesion on the tooth surface, the use of a remineralising solution immediately after application of ozone and the supply of a 'patient kit', which consists of toothpaste, oral rinse and oral spray all containing fluoride.

The aim of this review is to assess the effectiveness of HealOzone for the management of pit and fissure caries in pediatric patients. On this purpose, Electronic literature search of scientific papers was carried out from 2000 till 2012.

Conclusion: Any treatment that preserves teeth and avoids fillings is welcome. It is shown that treatment regime using ozone is an effective alternative to "drilling and filling" for primary occlusal fissure carious lesions however For non-cavitated pit and fissure caries, the HealOzone option was always more expensive than current treatment so further research is needed to provide evidence of its clinical and cost effectiveness compared with current best practice.

heal ozone, ozond, pit and fissure caries, pediatric dentistry

Presentation: Poster