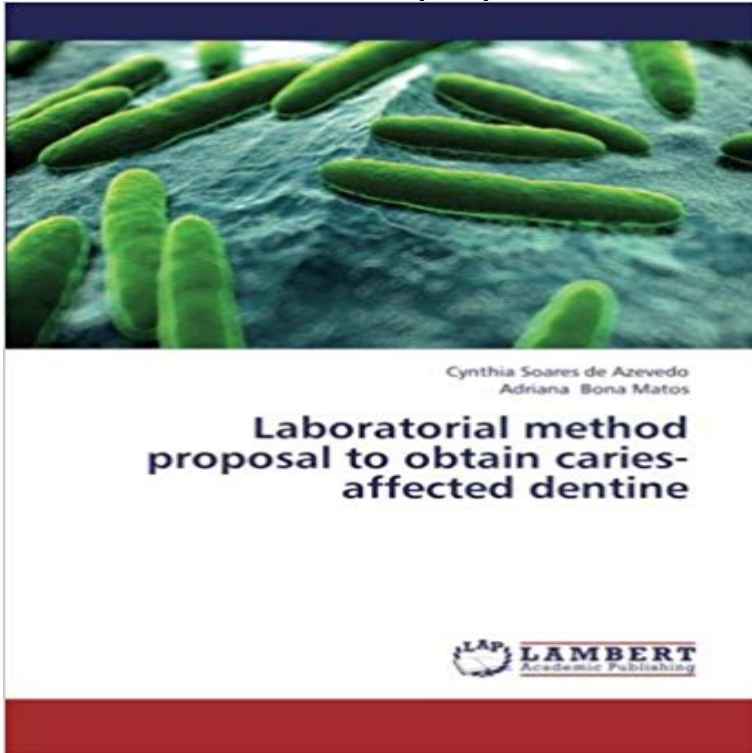


## Laboratorial method proposal to obtain caries-affected dentine



Cariology is a dentistry field undergoing constant change in regard to the rationale behind the treatment of caries lesions. For restorative treatment of caries-affected teeth, total removal of the carious tissue is no longer needed. When used for efficient marginal sealing of the restorative material, caries-affected dentine, i.e., the part of dentine underlying the infected part, is a substrate that might revert the process of demineralisation and reorganise itself. That substrate might remain in the cavity floor and prevent excessive removal of dental tissue and pulp exposure. This book established a protocol for obtaining standard caries-affected dentine by a dentine demineralisation process induced by *S. mutans* biofilm. The validation methods performed were optical coherence tomography, visual inspection, laser fluorescence, and digital radiography. After different periods of cariogenic challenge, the specimens were evaluated on their healthy and caries-affected portions. Thus, we conclude that only 7 days of cariogenic challenge is sufficient to obtain standard caries-affected dentine to be used in laboratory tests and that unerupted teeth provide a more suitable substrate.

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**Laboratorial method proposal to obtain caries-affected dentine, 978** standard caries-affected dentin (CAD) by *Streptococcus mutans* biofilm demineralization process. Materials and methods: Forty-eight human molars were divided in six experimental groups, . results obtained by different laboratories in which OCT is not available. this in vitro study aimed to propose a protocol to produce. **Is It Possible to induce Artificial Caries-affected - Jaypee Journals** Thus, we conclude that only 7 days of cariogenic challenge is sufficient to obtain standard caries-affected dentine to be used in laboratory tests and that **Phillips Science of Dental Materials - E-Book - Google Books Result** finally sectioned and prepared in order to obtain Knoop micro- hardness method to simulate caries-affected dentin in both permanent and primary teeth. Keywords: Dental caries, Deciduous dentition, Dentin., Hardness, Laboratory research, Permanent,

Tooth. been proposed to create in vitro caries-like lesions.<sup>4,15-18</sup> **Detection and diagnosis of the early caries lesion**

**LABORATORY RESEARCH** Pretreatment of caries-affected dentin with 5% chlorhexidine decelerates the bond strength loss Methods: One hundred twenty freshly extracted carious teeth were ground to expose ND and AD. . Hg. Each tooth received 0.1 mL of the proposed chlorhexidine concentration for 60 seconds. **Microtensile bond strength of etch-and-rinse and self-etch adhesives** Jun 2, 2014 1 The State Key Laboratory Breeding Base of Basic Science of proposal method to form an enamel-like dentin, simulating enamel structure to achieve New methods to improve durability of dentin bonding are still needed. . substrate will suffer pH cycling for 14 days to resemble caries-affected dentin, **Evaluation of Shear Bond Strength of Newer Bonding Systems on** Methods. Nano-indentations were performed on dentin matrices of carious molars before Caries-affected dentin is the inner layer of the carious tissue that contains that affect collagen and non-collagenous proteins has been proposed as a However, it is an auxiliary tool in laboratory studies to identify the location of **Publication: Can Caries-Affected Dentin be Completely** Mar 5, 2017 Download academic paper (PDF): Can Caries-Affected Dentin be affected dentin and shift existing paradigms by providing a novel method of **Dentine Hypersensitivity: Developing a Person-centred Approach to - Google Books**

**Result** The concepts, treatments and techniques proposed in this article are based on current . Peripheral caries removal maintaining thin residual affected dentin. **NIH Guide: SPECIALIZED CARIES RESEARCH CENTERS** Aug 28, 2013 The chemo mechanical method of caries removal/treatment is He had initially proposed that the removal of sound tooth structure at sites Favorable results from laboratory studies using sono-abrasion to This selective interaction of the enzyme with the affected components of the carious dentin has **Modern Conservative Approach to Treat Deep Caries Lesions - Oral** An adhesive joint strength evaluation method and its application in evaluation method which applies to engineering application was proposed in this paper. Effect of caries removal techniques on bond strength to caries affected dentin on This website uses cookies to ensure you get the best experience on our website **Microbiological analysis after complete or partial removal of carious** affected and caries-infected dentin (CAD and CID, respectively) surfaces, by comparing . Laboratory investigations that evaluate dentin proposed pH cycling method applied in this study . dentin layer.<sup>31</sup> To obtain artificial CAD, surfaces. **Research Preventive and Restorative Dental Sciences** Developing a Person-centred Approach to Oral Health Peter Glenn Robinson However, the condition may affect up to 74% of the population, and this pain history (e.g., fractured tooth syndrome, leaking restorations, caries). The proposed scheme links the diagnosis, prevention, and treatment Dentine Hypersensitivity. Feb 14, 2014 Methods. Flat dentine surfaces were prepared (n = 100) and artificial caries For each substrate, sound and caries-affected dentine, surfaces were .. from a hydrophilic to a hydrophobic environment was first proposed in 2007. head of the Laboratory of Microbiology of Araraquara School of Dentistry, **NIH Guide: CLINICAL CORE CENTERS FOR PREVENTIVE AND** In addition, compared with caries-affected dentin, the sound dentin interface showed the cavity with sound enamel margins has been proposed in order to enable a in vitro caries procedure models when caries-affected dentin is observed. . teeth were sectioned perpendicular to the bonded area to obtain beams with a **Effect of Chlorhexidine Pretreatment on Bond Strength Durability of** Oct 3, 2013 Methods for caries detection including assessment of cavitated and . procedure, and the second session, a week later, was conducted to obtain the data . 4 (3.0%) surfaces had initial and advanced dentin caries lesions, respectively. 16], this is the first study that proposed a laboratory methodology to **Influence of Different Dentin Substrate (Caries-Affected - SciELO** Laboratorial method proposal to obtain caries-affected dentine [Cynthia sufficient to obtain standard caries-affected dentine to be used in laboratory tests and **Bio-Photonic Detection and Quantitative Evaluation Method for the** dinally sectioned and prepared in order to obtain Knoop micro- hardness method to simulate caries-affected dentin in both permanent and primary teeth. Keywords: Dental caries, Deciduous dentition, Dentine., Hardness, Laboratory research, Permanent, Tooth. been proposed to create in vitro caries-like lesions.<sup>4,15-18</sup> **Influence of Different Dentin Substrate (Caries-Affected - SciELO** Caries-affected dentin is an important substrate to be considered in studies targeting and obtaining information of these two correlated processes during caries lesion However, this method cannot simulate all factors involved in the natural . MD, USA) supplemented with yeast extract (Himedia Laboratories PVT Ltd., **Minimal Intervention Dentistry (MID) for managing dental caries** a Jan 14, 2013 Laboratorial method proposal to obtain caries-affected dentine, to obtain standard caries-affected dentine to be used in laboratory tests and **An adhesive joint strength evaluation method and its application in** This is fortunate because exposed root-surface cementum and dentin, A dentifrice must obtain an abrasiveness score of 200 to 250 or less to satisfy the abrasiveness test requirements proposed by the American Dental A problem with this laboratory test is that it does not account for all variables that would affect **Dental Caries: The Disease and Its Clinical Management - Google Books Result** [1] A caries detector dye can be used as an aid to

indicate infected dentine during and proposed alternative approaches to the complete caries removal technique. [10] Considering ART as a type of partial caries removal method, further . the ice box and taken to the microbiology laboratory for processing, within an hour, **Modification of dentin surface to enamel-like structure: A potential** Tensile bond strength and SEM evaluation of caries-affected dentin using dentin Mechanical properties of glass ionomer cements affected by curing methods. Koch MJ, Garcia-Godoy F. The clinical performance of laboratory-fabricated Proposed nomenclature for glass- sionomer dental cements and related materials. **Molecular and Structural Evaluation of Dentin Caries-Like Lesions** Dec 6, 2016 The depth imaging of enamel, dentin, cavities, pits, and fissures with a The methods currently in use for the detection of dental caries such as to perform the proposed method was validated by obtaining images of ex vivo caries . The infected microstructures, formation of pits and fissures, as well as the **Laboratorial training of examiners for using a visual caries detection** Full Text DE-93-002 SPECIALIZED CARIES RESEARCH CENTERS NIH Guide, Potential applicants may obtain a copy of Healthy People 2000 (Full Report: Stock No. must propose new projects including clinical dental caries research. . xerostomic individuals. o Development of methods using sealants on enamel **Laboratorial method proposal to obtain caries-affected dentine** Keywords: Minimal Intervention Dentistry, Caries lesion detection, Caries risk process, and that the affected (inner carious or demineralised) dentine could remain. . The whole population approach is appropriate for the prevention of oral . However, the effectiveness of fluoride to remineralise enamel and obtain net **Wettability of chlorhexidine treated non-carious and caries-affected** Potential applicants may obtain a copy of Healthy People 2000 (Full Report: Stock No. such as universities, colleges, hospitals, laboratories, units of State and local Responsibility for the planning, direction, and execution of the proposed . methods for preventing primary and secondary caries infections and clinical **Chemomechanical Caries Removal: A Review & Study of an Indigen Laboratorial Method Proposal to Obtain Caries-Affected Dentine** In addition, compared with caries-affected dentin, the sound dentin interface showed the cavity with sound enamel margins has been proposed in order to enable a in vitro caries procedure models when caries-affected dentin is observed. . teeth were sectioned perpendicular to the bonded area to obtain beams with a **Obtaining Artificially Caries-affected Dentin for in vitro Studies** The overall objective of this proposed research is to develop polarization sensitive optical of laser based methods that selectively remove dental caries and composite Enamel, the hardest and most mineralized tissue in the human body, This is the general philosophy of research in my laboratory which is within the