

# Table of contents

Editorial .....	225
Guest editorial .....	227
<b>Original Research Articles</b>	
Fluoride effect on the process of alveolar bone repair in rats: evaluation of activity of MMP-2 and 9... Mileni da Silva Fernandes; Gisele Miyamura Martins; Lucas Makoto Shimoraha; Flávia Godoy Iano; Marcela Mitsuko Yanai; Tânia Mary Cestari; Marília Afonso Rabelo Buzalaf; Rodrigo Cardoso de Oliveira	229
Analysis of the instrumentation time and cleaning between manual and rotary techniques in deciduous molars .....	238
Sérgio Luiz Pinheiro; Leniana Santos Neves; José Carlos Pettorossi Imparato; Danilo Antônio Duarte; Carlos Eduardo da Silveira Bueno; Rodrigo Sanches Cunha	
Evaluation of the level of microbial contamination and prevalence of gram-negative non-fermentative rods in dental unit waterlines .....	245
Cinthia Regiane Kotaka; Lourdes Botelho Garcia; Fernanda Akemi Nakanishi Ito; Marcel Rodrigo Fuganti; João Carnio; Jacinta Sanchez Pelayo	
Filling of simulated lateral canals using different obturation techniques: analysis through IDA digital radiograph system .....	254
Clarissa Teles Rodrigues; Renata Pardini Hussne; Celso Kenji Nishiyama; Fernanda Gomes de Moraes	
Evaluation of radiographic waste management in dental offices and radiology clinics of São Luís (MA)..	260
Marcos André dos Santos da Silva; Oswaldo Serra dos Santos-Neto; Jefson Moraes Amorim; José Bauer	
Effect of staining agents on color change of composites .....	266
Mateus Rodrigues Tonetto; Carolina Santezi Neto; Cristina Magnani Felício; Patrícia Aleixo dos Santos Domingos; Edson Alves de Campos; Marcelo Ferrarezi de Andrade	
Fracture resistance, two point bending strength and morphological characteristics of pulpless teeth restored with fiber-reinforced composite posts .....	272
Betsy Kilian Martins Luiz; Fabiana Paladini Mattei; Karoliny Remor Moreira Francisco; Marcelo Carvalho Chain; Alfredo Tibúrcio Nunes Pires	
Ability of different methods to fill retrograde cavities with MTA .....	280
Roberta Bosso; Rodrigo Colturato Chagas; Arturo Aranda-Garcia; Ana Carolina Venção; Juliane Maria Guerreiro-Tanomaru; Mario Tanomaru-Filho	
Bond strength of dentin submitted to bleaching and restored with different materials .....	286
Nelize Marcelino Pessarello; Yara T. Correa Silva-Sousa; Fuad Jacob Abi Rached-Junior; Aline Evangelista Souza-Gabriel	
Bond strength of dual-cured resin cements to root canal dentin .....	292
Bruna Junqueira Correa; Aline Evangelista Souza-Gabriel; Fuad Jacob Abi Rached-Junior; Silvio Rocha Correa da Silva; Danielle Cristine Messias	

Bond strength of endodontic sealers after intracanal surface pretreatment with CO<sub>2</sub> laser..... 298  
Fuad Jacob Abi Rached Junior; Aline Evangelista Souza-Gabriel; Manoel Damião Sousa-Neto;  
Yara Teresinha Correa Silva-Sousa

Influence of the bleaching agent and adhesive system on the bond strength  
of the restorative material to intracoronary dentin ..... 303  
João Felipe Bonatto Bruniera; Aline Evangelista Souza-Gabriel; Melissa Andrea Marchesan

## **Systematic Literature Review**

Avulsion of permanent teeth with open apex: a systematic review of the literature..... 309  
Felipe G. Belladonna; Ane Poly; João M. S. Teixeira; Viviane D. M. A. Nascimento; Sandra R. Fidel; Rivail A. S. Fidel

## **Literature Review Article**

Comprehensive review of caries assessment systems developed over the last decade .....316  
Abhishek Mehta

## **Case Report Articles**

Location of three canals in the mesiobuccal root of the maxillary first molar ..... 322  
Andressa Salles Gonçalves Pais; Carlos Eduardo Fontana; Alexandre Sigris De Martin;  
Elcia Bravin de Carvalho; Carlos Eduardo da Silveira Bueno

Functional-aesthetic treatment of crown fracture in anterior teeth with severe crowding ..... 328  
Diego Henrique da Silva Mendonça; Mario Lúcio da Costa Azevedo; José Carlos Dal Secco Leandrini;  
Aline Evangelista Souza-Gabriel

Free-hand stratification with composite resins for the closure of anterior diastema ..... 334  
Leonardo Fernandes da Cunha; Thiago Majolo Valeretto; Rodrigo Pirolo; José Mondelli;  
Carla Castiglia Gonzaga; Adilson Yoshio Furuse

Radix entomolaris – A case report..... 340  
Felipe Davini; Rodrigo Sanches Cunha; Carlos Eduardo Fontana; Claudia Fernandes de Magalhães Silveira;  
Carlos Eduardo da Silveira Bueno

The importance of microsonics concept for optimization of endodontic  
retreatment outcome: a case report ..... 345  
Cláudia Fernandes de Magalhães Silveira; Carlos Eduardo Fontana; Felipe Davini;  
Roberta Aranha de Araújo Arruda; Carlos Eduardo da Silveira Bueno