



RSBO

South Brazilian Dentistry Journal

v. 12 - n. 1 - January/March 2015

Indexed on the following databases:

- **BBO**
(*Brazilian Dental Bibliography*)
- **LILACS**
(*Latin American and Caribbean Health Sciences Literature*)
- **LATINDEX**
(*Online Regional Information System for Scholarly Journals from Latin America, the Caribbean, Spain and Portugal*)
- **PORTAL DE PERIÓDICOS DA CAPES**
(*Coordination for the Improvement of Higher Education Personnel*)
- **ICI**
(*Index Copernicus International*)
- **DOAJ**
(*Directory of Open Access Journals*)
- **REDALYC**
(*Sistema de Información Científica Redalyc - Red de Revistas Científicas de América Latina y el Caribe, España y Portugal*)
- **FREE MEDICAL JOURNALS**
(*Free Access to Medical Journals*)
- **EBSCO**
- **ICAP**
(*Indexação Compartilhada de Artigos de Periódicos*)


Editora
UNIVILLE

ISSN:
Electronic version: 1984-5685

RSBO	Joinville - SC	v. 12	n. 1	135 p.	2015
------	----------------	-------	------	--------	------

Rector

Sandra Aparecida Furlan

Vice-Rector

Alexandre Cidral

Dean for Education

Sirlei de Souza

Dean for Research and Post-Graduation

Denise Abatti Kasper Silva

Dean for Extension and Community Affairs

Claiton Emilio do Amaral

Dean for Administration

Cleiton Vaz

Editorial Production

Editora UNIVILLE

Luciana Lourenço Ribeiro Vitor – Text revision and translation

e-mail: llribeiro_3@hotmail.com

Raphael Schmitz – Graphic design

Marisa Kanzler Aguayo – Diagramming

EDITORIAL BOARD**Editor-in-chief**

Flares Baratto-Filho – Univille and UP, Brazil

Administration Editors

Fabricio Scaini – Univille, Brazil

Luiz Carlos Machado Miguel – Univille, Brazil

Carla Castiglia Gonzaga – UP, Brazil

Tatiana Miranda Deliberador – UP, Brazil

Associate Editors

Edson Alves de Campos – Unesp, Brazil

Sandra Rivera Fidel – Uerj, Brazil

Gisele Maria Correr Nolasco – UP, Brazil

Luiz Fernando Fariniuk – PUC/PR, Brazil

Kathleen Neiva – University of Florida, USA

Claudia Brizuela – University of Andes, Chile

Johannes Ebert – University of Erlangen, Germany

Nicolas Castrillon – University São Francisco of Quito, Ecuador

Editorial Board

Alessandro Leite Cavalcanti – UEPB, Brazil

Carlos Estrela – UFG, Brazil

Christoph Kaaden – University of Munich, Germany

Fernanda Pappen – UFPel, Brazil

Fernando Branco Barletta – Ulbra, Brazil

Fernando Goldberg – University of Salvador, Argentine

Frank Lippert – Indiana University, USA

Guilherme Carpêna Lopes – UFSC, Brazil

Jesus Djalma Pécora – Forp/USP, Brazil

José Antônio Poli de Figueiredo – PUC/RS, Brazil

José Carlos Laborde – Catholic University of Uruguay, Uruguay

José Luiz Lage-Marques – USP, Brazil

José Mondelli – FOB/USP, Brazil

Juan Carlos Pontons-Melo – São Marcos University, Peru

Lourenço Correr Sobrinho – FOP/Unicamp, Brazil

Lúcia Helena Cevidan – University of North Carolina at Chapel Hill, USA

Luciana Shaddox – University of Florida, USA

Luis Sensi – University of Florida, USA

Luiz Narciso Baratieri – UFSC, Brazil

Manoel Damiao Sousa-Neto – Forp/USP, Brazil

Marco C. Bottino – Indiana University, USA

Maria Mercedes Azuer – Javeriana University, Colombia

Mário Tanomaru Filho – Unesp, Brazil

Miguel González Rodríguez – Odonthos Institute, Dominican Republic

Muhanad Hatamleh – University of Manchester, England

Osmir Batista de Oliveira Júnior – Unesp, Brazil

Pedro Bullon Fernandez – University of Sevilha, Spain

Regina M. Puppin-Rontani – FOP/Unicamp, Brazil

Richard L. Gregory – Indiana University, USA

Rivail Antônio Sérgio Fidel – Uerj, Brazil

Rodrigo Neiva – University of Florida, USA

Sandra Milena Brinez Rodriguez – Javeriana University, Colombia

Saulo Geraldeli – University of Florida, USA

Ulrich Lohbauer – University of Erlangen, Germany

Valentina Ulver de Beluatti – University of Maimonides, Argentina

Valeria Gordan – University of Florida, USA

Yara Teresinha Corrêa Silva Sousa – Unaerp, Brazil

Table of Contents

Guest editorial	6
-----------------------	---

Original Research Articles

Shear bond strength of brackets bonded with nanofilled flowable resins	8
Danielle Rodrigues Morais, Alexa Helena Köhler Moresca, Estela Maris Losso, Alexandre Moro, Ricardo Cesar Moresca, Gisele Maria Correr, Gisele Maria Correr	
Effect of dentin desensitizers on resin cement bond strengths.....	14
Rubens Nazareno Garcia, Marcelo Giannini, Tomohiro Takagaki, Takaaki Sato, Naoko Matsui, Toru Nikaido, Junji Tagami	
Evaluation of graduate dental students' knowledge on the therapeutic approach of dental avulsion.....	23
Tiago André Fontoura de Melo, Cíntia Muniz Couto	
Evaluation of elementary education teachers' knowledge on avulsion and tooth replantation.....	32
Simone Scandiuzzi Francisco, Adriana de Jesus Soares, Rodrigo Dutra Murrer	
Assessment of knowledge about oral cancer: study with students of public education	41
Iara Fiorentin Comunello, Elisabete Rabaldo Bottan, Constanza Marín, Eduardo Mazzetti Subtil	
Evaluating of oral and salivary conditions of two specific groups of workers	50
Nicolae Carvalho de Paula, Carolina Dea Bruzamolin, Paulo H. Tomazinho, Luciane Variani Pizzatto, Wellington M. Zaitter, Eduardo Pizzatto	
Radiopacity analysis of humidity influence on the solubilization of different retrograde filling materials.....	56
Kiany Scarssi Nunes, Luiza Bonezi Boff, Juliana Royer, Tiago André Fontoura de Melo	
Linear setting expansion of different gypsum products	61
César Antunes de Freitas, Tatiana Sanches Zanotti, Fabio Antonio Piola Rizzato, Adilson Yoshio Furuse, Márcia Furtado Antunes de Freitas	

Literature Review Articles

Developmental anomalies affecting the morphology of teeth - a review	68
Ashish Shrestha, Vinay Marla, Sushmita Shrestha, Iccha K Maharjan	
Indications and restorative techniques for glass ionomer cement	79
Fabio Antonio Piola Rizzato, Rafael Schlögel Cunali, Juliana Fraga Soares Bombonatti, Gisele Maria Correr, Carla Castiglia Gonzaga, Adilson Yoshio Furuse	
Application of BMP-2 for bone graft in Dentistry	88
Lídia Audrey Rocha Valadas Marques, Edvan Alves da Costa Júnior, Mara Assef Leitão Lotif, Edilson Martins Rodrigues Neto, Francisco Filipe Carvalho da Silva, Carlos Ricardo de Queiroz Martiniano	

Case Report Articles

Mesiodens surgery at deciduous and permanent dentition	94
Mariana Dalledone, Paulo Afonso Tassi-Junior, Juliana Feltrin de Souza, Estela Maris Losso	
Compound odontoma associated with dentigerous cyst in the anterior mandible – case report.....	98
Radamés Bezerra Melo, Yuri Edward de Souza Damasceno, Celio Armando Couto da Cunha Junior, Igor Vasconcelos Pontes	
Free gingival graft to increase gingival dimensions in Down syndrome patients: clinical case report.....	103
Carla Hariene Montanha, Maria Estela Plens, Henrique Scheffer Ferreira, Luiz Augusto Ribas, Vinicius Augusto Tramontina, João Armando Brancher, Andréa Paula Fregoneze	

PROCEEDINGS OF THE 3rd ICOI-BRAZIL 2014 – INTERNATIONAL CONGRESS OF ORAL IMPLANTOLOGY

Research Studies

Evaluation of cranial bone repair in experimental model treated with bisphosphonates. Histological and hystometric study in rabbits	109
Juliana de Sousa Vieira, Isabela Gohringer, Emanuelle Cunha, Allan Fernando Giovanini, João César Zielak, Tatiana Miranda Deliberador	
Osteocalcin immunoprofile assessment on bone repair in critical size defects treated with white subcutaneous adiposetissue in rat and rabbit animal model	110
Tadeu Vieira Barros, Caroline Moreira Auersvald, Letícia de Souza Moraes, Tatiana Miranda Deliberador, Lucienne Miranda Ulbrich, Thalyta Verbicaro	
Evaluation of hard palate tomographic regions for skeletal anchorage devices installation	111
Giovani Lago, Mauro Toma, Ricardo Lima Navarro, Ana Cláudia de Castro Ferreira Conti, Paula Vanessa Pedron Oltramari Navarro, Thais Maria Freire Fernandes	
Histological and histomorphometric evaluation of low laser therapy (LLT) and platelet rich plasma (PRP) in the process of bone repair. Experimental study in rats	112
Rafael Zancan, Lucas Oliveira Azevedo, Ana Claudia Fonseca, Thiago Jonasson, Marcela Claudino da Silva, Allan Fernando Giovanini, Melissa Rodrigues de Araujo	
Comparative study between the digital and conventional radiography in the process of bone repair with low-level laser therapy (LLLT) and platelet-rich plasma (PRP).....	113
Lucas Oliveira Azevedo, Rafael Zancan Mobile, Ana Claudia Fonseca, Thiago Jonasson, Rafaela Scariot, Allan Fernando Giovanini, Melissa Rodrigues de Araujo,	
Aesthetic perspective from the dental papilla evaluation in the upper anterior region	114
Claudia A. Pimenta, João César Zielak, Carlos Eduardo Francischone	
Analysis of mandibular bone remodeling in rabbits treated with bisphosphonate	115
Emanuelle Cunha, Giovanna Portela, Juliana de Sousa Vieira, João César Zielak, Tatiana Miranda Deliberador, Allan Fernando Giovanini	
Immunoprofile ratio between osteocalcin (OC) and PPAR-G in PRP-induced bone repair	116
Giovanna Portela, Emanuelle Cunha, Juliana de Sousa Vieira, João César Zielak, Tatiana Miranda Deliberador, Allan Fernando Giovanini	
Comparative study of vitamin E and C systemic action in alveolar bone remodeling of rats	117
Caroline Resquetti Luppi, Gustavo Jacobucci Farah, Vinicius Denepotti Nogueira, Carolina Luppi Gonçalves, Roberto Kenji Nakamura Cuman, Wilton Mitsunari Takeshita	
SEM analysis of dentaltitanium implants surface touched with surgical glove, steel tweezers, and titanium tweezers	118
Rafael Peres, Tatiana Miranda Deliberador, João César Zielak, Maria Cecília Giacomet, Allan Fernando Giovanini, Paulo Roberto Camati	

Case Report Studies

Aesthetic resolution of maxillary lateral incisor by implant immediate installation and prosthesis associated with lateral sliding flap	119
Carmen L. Mueller Storrer, Sara Moncada S., Felipe Rychuv Santos, João César Zielak, Viviane Crivellaro, Tatiana Miranda Deliberador	
Correction of gingival smile without FLPA: predictability with minimum morbidity	120
Bernardo Born Passoni, Bruna Corrêa, João Gustavo Oliveira de Souza, Armando Rodrigues Lopes Pereira Neto, Ricardo de Souza Magini, César Augusto Magalhães Benfatti	
Step-by-step approach of extraction sockets in areas of pneumatized maxillary sinus	121
Bernardo Born Passoni, João Gustavo Oliveira de Souza, Armando Rodrigues Lopes Pereira Neto, Antônio Carlos Cardoso, Ricardo de Souza Magini, César Augusto Magalhães Benfatti	
Use of PDS II wire as titanium reinforced membrane substitute for guide bone regeneration techniques	122
Bernardo Born Passoni, Ricardo de Souza Magini, César Augusto Magalhães Benfatti	

Optimization of immediate implant installation in inter-radicular septum area.....	123
Artur Breno Wanderley Alécio, Letícia Moro Bins Ely, Abraão Moratelli Prado, José Daniel Suárez Rodríguez, Aguedo Aragones, Ricardo de Souza Magini	
Peperi-implantitis surgical treatment	124
Maurício Assunção Pereira, Abraão Moratelli Prado, Haline Renata Dalago, Guenther Schuldt Filho, José Moises de Souza Júnior, Marco Aurélio Bianchini	
Dream to reality – metal-ceramic total rehabilitation of maxilla supported by implant.....	125
Luciano Rosa, Nereu Roque Dartora, Paulo Renato Pulga	
Atrophic mandible fracture after surgical rehabilitation with osseointegrated implants: case report.....	126
Vinicius Fabris, Jose Luiz Cintra Junqueira, Agenor Montebello Filho, Milena Bortolotto Felippe Silva, Ariosto Ribeiro	
Use of titanium miniplates as temporary skeletal anchorage in orthodontics	127
Marcio Vinícius Hurczulack de Quadros, Paulo Roberto Müller	
Surgical approach of a lower third molar impacted and fused with a supernumerary adjacent to the canal mandibular: case report	128
Marcio Vinícius Hurczulack de Quadros, Arthur Berny Castellano, Paulo Roberto Müller	
Oral rehabilitation with single implants in aesthetic area: case report.....	129
Gabriela de Souza Zimiani, Eduardo Kurihara, Roberto Masayuki Hayacibara	
Partial resection of mandible with immediate installation of TMJ total prosthesis	130
Bento Stang, Jakson Pedro Antonelli, Álvaro Bedin, Alexandra Priester, Fabiane Frigieri, Lucely da Silva	
Bone expansion simultaneous to implant installation.....	131
Gabriela Mercedes Juanito Peñarrieta, Carolina Schaffer Morsch, Caroline Freitas Rafael, Juan Felipe Montero Dumez, Luiz Fernando Gil, Marco Aurélio Bianchini	
Clinical solution for correction of angledimplant without aesthetic impairment	132
Caroline Freitas Rafael, Cintia Schiochett, Carolina Schaffer Morsch, Camilo Villa Bona, Claudia Ângela Maziero Volpato, Antônio Carlos Cardoso	
Rehabilitation of atrophic maxilla with prosthesis fixed on four implants: “all on four”	133
Caroline Freitas Rafael, Carolina Schaffer Morsch, Gabriela Mercedes Juanito Peñarrieta, Claudia Ângela Maziero Volpato, Marco Aurélio Bianchini	
Vertical increase in anterior maxila through the nasal cavity augmentation by biooss and bioguide.....	134
Caroline Freitas Rafael, Clessius Ferreira Xavier, Cintia Schiochett, Carolina Schaffer Morsch, Claudia Ângela Maziero Volpato, Marco Aurélio Bianchini	
Space increase for rehabilitation in the anterior region through occlusal adjustment by addition	135
Carolina Schaffer Morsch, Caroline Freitas Rafael, Letícia Bins Ely, Gabriella Mercedes Juanito Peñarrieta, Juan Felipe Montero Dumez, Antônio Carlos Cardoso	