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The use of biomaterials in oral rehabilitation: New trends

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Biomaterials revolutionized the dynamics of treatments in the area of medicine and dentistry, enabling critical tissue corrections and achieving mimicry. In this large group named biomaterials, the gold standard appears, known as autogenous, which has several growth factors involved and many favorable properties, which helps a lot in the regenerative process. Therefore, rehabilitating patients today has become more accessible and sometimes more challenging, since the professional must know which technique to use, which material to choose, and have satisfactory manual detraining to achieve the desired success. Thus, the objective of this lecture will be to present tissue reconstructions with basic and advanced techniques and techniques focused on periodontics and implantology. Finally, we can observe that the new techniques and materials, such as the collected blood, favored the treatments significantly in dentistry, making possible extreme cases.




Recent Publications

1. Costa NMF, Yassuda DH, Sader MS, Fernandes GVO, Soares GA and Granjeiro JM (2015). Osteogenic Effect of Tricalcium Phosphate Substituted by Magnesium with Genderm® Membrane in Rat Calvarial Defect Model. Materials Science and Engineering C 61.
2. Sena LA, Almeida MSM, Fernandes GVO, Guerra R, Castro-Silva II, Granjeiro JM and Achete CA (2014). Biocompatibility of wollastonite-poly (N -butyl-2-cyanoacrylate) composites. Journal of Biomedical Materials Research Part B Applied Biomaterials 102(6).
3. Fernandes GVO, Cavagis ADM, Ferreira CV, Olej B, Leão MS, Yano CL, Peppelenbosch M, Granjeiro JM and Zambuzzi WF(2013). Osteoblast Adhesion Dynamics: A Possible Role for ROS and LMW-PTP. Journal of Cellular Biochemistry 115(6):1063-1069.
4. Aline Muniz de Oliveira AM, Castro-Silva II, Fernandes GVO, Melo BR, Alves ATNN, Júnior AS, Lima ICB and Granjeiro JM (2013). Effectiveness and acceleration of bone repair in critical-sized rat calvarial defects using low-level laser therapy. Laser in Surgery and Medicine. 46(1):61-67.

Biography

Gustavo Vicentis de Oliveira Fernandes is a Dentist. He has completed his Master's degree in Medical Science, and PhD in Dentistry. He has his expertise in Periodontics, Implantology and Oral rehabilitation. He is a Researcher in biomaterials, oral implants and tissue reconstruction. He is a Full Professor in Periodontics (Salgado de Oliveira University, Brazil). He has a passion in rehabilitate patients, improving the aesthetic and wellbeing. His work is based in scientific evaluation with clinical application.

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