

5<sup>th</sup> World Congress on  
**DENTISTRY AND MAXILLOFACIAL SURGERY**  
September 18-19, 2023 | Rome, Italy

Received Date: 08-12-2023 | Accepted Date: 08-15-2023 | Published Date: 10-20-2023

## What can we have in the supply of prosthetic technicians - resin instead of zirconia?

**Carmen Conroy<sup>1</sup>, Aline Marodin<sup>1</sup>, Paulo Júlio Almeida<sup>2</sup>, Claudia Volpato<sup>3</sup>, Mercedes Gallas<sup>4</sup>, Paula Vaz<sup>5</sup>**

<sup>1</sup>Smile Arade, Portugal

<sup>2</sup>University of Porto, Portugal

<sup>3</sup>UFSC, Brasil.

<sup>4</sup>Universidad de Santiago de Compostela, Spain.

<sup>5</sup>Carevage, Braga, Portugal

Oral rehabilitation with various ceramics and zirconia has become increasingly common and the supply capacity of laboratories tends to accompany the increase in dental clinics. However, laboratories and prosthetic technicians must be guided by internal control, so that whenever failures occur, they can inform dentists.

To do so, they must always have and facilitate the supply of the following data: Batch and brand of equipment, batch and brand of Zirconia disks/blocks, Batch and brand of glazes.

Sintering programs, whenever requested, must be provided.

The survival rates of fixed zirconia rehabilitations are known, as well as resin rehabilitations (Macedo MGFP et al 2028; Silva J et al 2019; Cardoso JA et al, 2012; Cardoso JA et al, 2023).

Experienced dentists, even with this knowledge (Edwin Ruales-Carrera et al 2020), may have an undue supply of resin polymers instead of Zirconia.

If the prosthetic technicians and their laboratory are serious, they shouldn't have any problem carrying out analyzes whenever there are doubts about a small possibility of occurrence of manufacturing defect or production error of Zircónia.

When the prosthetic technicians do not collaborate or are not serious, generally omit information about batches and references of the supplied material, as well as the equipment.

In these situations, the steps to be taken by the dentist include: analysis by SEM of the rehabilitation material after contact with the oral cavity, SEM analysis of a control rehabilitation similar material (Figure 1).

Alert to governmental Order of Dentists and Institute that Regulates the the Medical Devices.

### Recent Publications

1. Macedo MGFP, Volpato CAM, Henriques BAPC, Vaz PCS, Silva FS, Silva CFCL. Color stability of a bis-acryl composite resin subjected to polishing, thermocycling, intercalated baths, and immersion in different beverages. *J Esthet Restor Dent.* 2018 Sep;30(5):449-456. doi: 10.1111/jerd.12404. Epub 2018 Sep 8. PMID: 30194894
2. Silva J, Rafael CF, Vaz PCS, Fernandes JCAS, Volpato CAM. Color stability of repairs on bis-acryl resin submitted to thermal aging and immersion in beverages. *J Esthet Restor Dent.* 2019 Sep;31(5):514-519. doi: 10.1111/jerd.12523. Epub 2019 Sep 9. PMID: 31497927
3. Cardoso JA, Almeida PJ, Fischer A, Phaxay SL. Clinical decisions for anterior restorations: the concept of restorative volume. *J Esthet Restor Dent.* 2012 Dec;24(6):367-83. doi: 10.1111/j.1708-8240.2012.00503.x. Epub 2012 Mar 5. PMID: 23205682 Review.

### Biography

Carmen Conroy has his expertise in Product Manager and Dental Medicine, focused on Dental Implants and Orofacial Rehabilitation. The combination of a vast product manager experience, combined with the search for "knowledge" based on science, allowed him to join Dr. Paula Vaz's research and Clinical team.

E: carmenconroycc@gmail.com