

## Composites: clinical view and research data are on the same page?

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The last decades have been revolutionary for Restorative Adhesive Dentistry, changing traditional invasive approaches for a minimal intervention concept. Research on polymeric materials improved the reliability of adhesive procedures. Different analysis methods have been applied from adhesive systems to all-ceramic restorations to understand behavior better and predict possible failures.

At the same time, the clinical experience could lead to statements on the importance of operatory steps and handling of different restorative materials. Once composite resins had been vastly used for the last 30 years, clinical evaluations could point and highlight the essential topics for clinicians, despite the interest of research groups specifically.

This lecture will embrace a personal clinical experience with composite resins for more than 25 years, balancing with the research experience conducted at NYU. Based on this confrontation, some inputs could be provided, defining critical points for a successful adhesive practice.

## <Curriculum Vitae> -

Ronaldo Hirata had finished his 4 years DDS course in Curitiba, Brazil, in Federal University of Parana (UFPR), in 1995. After his degree, he followed an Operative Dentistry Specialty in the same University in a 2 years program. He started lecturing in the same University and began his career as an International lecturer, focusing Esthetic Dentistry. He had been lecturing in more than 40 countries already. His private practice working with Esthetic Dentistry has always been in Curitiba.

In order to improve scientific formation, did his Masters in Dental Materials, in 2000 to 2003, in the Catholic University of Rio Grande do Sul (PUC-RS), finishing with a research thesis working with glass and polyethylene fibers improving mechanical properties of composites. His PhD in Restorative Dentistry in the State University of Rio de Janeiro (UERJ) was done from 2005 to 2009. His research focused Transmittance, Reflectance and Fluorescence of composite resins. In 2012 he did his post-doctorate at New York University (NYU) working with Plasma application on dentin surfaces and bonding strength analysis.

Now, Ronaldo Hirata is Assistant Professor of Department of Biomaterials, with a secondary appointment on Department of Cariology at New York University. He had been published more than 100 papers in English, Portuguese and Spanish. Hirata's first book TIPS was published in 3 languages, and his second book SHORTCUTS also in 3 languages.

Dr. Hirata just had launch his new book "Recipes for composite restorations" from Quintessence Publishing in 3 languages, including English. This textbook gives some "recipes" with the ingredients and instruments necessary to execute 26 types of restorations.