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Hybridization vs. biomineralization: An evolution for dental restorations

In the early 1980's the dentin hybridization model was proposed. It was described as a bioengineered tissue integration of resin into the living dentin of the tooth. Over the following years there have been generations of dentin hybridization adhesives created to attempt to overcome the shortcomings of the previous generations or to attempt to make the process easier for clinical application. However, it has been determined that the average life span of a typical resin bonded composite restorations is 5.7 years at a cost of approximately five billion dollars annually in the United States alone. Various agents have been proposed and subsequently used in an attempt to create more long lasting hybrid bonds. However, it has been stated that the use of these agents applied either separately or mixed with the primer/adhesive agents appear to only retard rather then prevent bond degradation. It is obvious that a different pathway needs to be travelled and it is proposed that the use of bioactive/biomineralization integrating materials could be the direction to success.

Speaker Biography

John C Comisi has been in Private Practice in Ithaca, NY since 1983, and is the President and CEO of Dental Care with a Difference®, PC, where "Knowledge Brings Health"®, and is a Clinical Instructor in Dentistry at the University of Rochester School of Medicine and Dentistry. He is a Graduate of Northwestern University Dental School and received his Bachelor of Science in Biology at Fordham University. He is a Master of the Academy of General Dentistry, and holds Fellowships in the Academy of Dentistry International, the American College of Dentists, the Pierre Fauchard Academy and the International College of Dentists. He has beenMember of the National Dental Practice Based Research Network (NDPBRN), the International and American Association of Dental Research. He also serves as a Scientific Advisory Board Member of the Dental Biomaterials Science and Research Group and a Member of the Scientific Advisory Board of Izun Oral Care.

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