

Fabrication of Indirect Tooth Colored Restorations with Protocol Compliance Using CAD/CAM Technology

Angela M De Bartolo

New York University College of Dentistry, USA

Incorporating Computer Aided Design/Computer Aided Manufacture, CAD/CAM, technology has become a critical part of our dental school's curriculum.

In the esthetic department at New York University College of Dentistry (NYUCD) CAD/CAM technology has been in used for over 20 years. To date, the pre-doctoral students have been given the opportunity to fabricate tooth colored, indirect restorations and ceramic crowns using CAD/CAM technology. The protocol requires that students be given lectures on the methodology and criteria of fabricating restorations using digital impressions. Incorporating CAD/CAM technology in fabricating indirect restorations into the core curriculum enhances clinical growth and development of high-tech capabilities that will enable our students to succeed in the future of dentistry.

CAD/CAM technology can be used to fabricate restorations in one patient visit, however, as part of the learning process, the student will follow school protocol which involves diagnosis, wax-up, preparation on stone model prior to performing the digital impression on the patient. The educational program at NYUCD is designed to credential facultydoctors on teaching the students as well as students learning to fabricate restorations using this innovative technology. Faculty doctors, once credentialed, will guide student dentists in taking digital impressions, design restorations, mill and fire restorations using CAD/CAM technology.

The goal of the training program is to standardize faculty doctors and students to become proficient in CAD/CAM technology and deliver state-of-the art dentistry to the patients.

Biography:

Dr. Angela M. De Bartolo is a Clinical Assistant Professor and Group Practice Director at New York University, College of Dentistry. Dr. De Bartolo graduated from Fordham University, Rose Hill in 1983 receiving a Bachelor of Science degree in Biology with a minor in Italian Studies. She received her DDS degree from New York University, College of Dentistry in 1987 and continued to pursue a General Practice Residency Program at Lutheran Medical Center in New York for one year. Dr. De Bartolo was in private practice for 25 years and has been in academia for the past 7 years at New York University, College of Dentistry Dr. De Bartolo is a Fellow in the International College of Dentists.

Dr. De Bartolo is an active member of the American Dental Association. Her affiliation with the Oral Health Committee at the Second District Dental Society has enabled her to promote the importance of oral health in children from ages 5 through 18. Dr. De Bartolo has been able to learn and teach the CAD/CAM technology to students. This has enabled her to enrich colleagues and students with CAD/CAM technology presentations at ADEA meetings as well as publish abstracts in the Journal of Dental Education.