This clinical case required optimal implant placement based upon a restoratively driven treatment plan and guided surgery. To achieve this goal, we made use of CT scans, SimPlant planning software, the new Zimmer guided surgery instrumentation and the new Materialise Dental Immediate Smile model.

The patient was a 49-year-old white female in good health, completely edentulous in the maxilla and wearing a complete upper denture. On the lower, she wore an implant-retained overdenture.

The planning phase for the case began with a CT scan utilizing the i-Cat and the Materialise Dental Dual Scan protocol. The patient’s existing denture was transformed into a scan prosthesis by gluing eight Dual Scan Markers (Materialise Dental) on the surface. A radiolucent bite index was made to secure the prosthesis in the correct position.

The patient was scanned in the i-Cat 17-19 while wearing the convert prosthesis and the bite index. In a second scan, the convert prosthesis was scanned alone. The resulting CT data were loaded into SimPlant, and the scan prosthesis was superimposed upon the study using the SimPlant Dual Scan wizard (Fig. 1).

Using SimPlant, the optimum implant positions were determined based upon available bone, a minimum of 5 mm between implants, and the design of the final restoration (Fig. 2). The resulting treatment plan was submitted to Materialise Dental for fabrication of a SurgiGuide and a Materialise Dental Immediate Smile model.

By Max J. Cohen, DDS.
Dr. Philippe Russe offered the keynote lecture on navigating narrow spaces in the esthetic zone. Other lecture highlights included Dr. Zeev Ormainer on the Tapered Screw-Vent Implant; Dr. Maurizio Tonetti on mucogingival tissue management in periodontal and implant therapy; Dr. Richard Kraut’s presentation on vertical bone augmentation; and Wang’s presentation on recent advances in sinus lift augmentation.

Also speaking were Dr. Joseph Massad on treatment options for the edentulous patient; Dr. Henry Salama on abutment protocol in implant therapy; Dr. Edgard El Chaar on advanced socket-preservation techniques and materials; Dr. Katya Archambault on advanced tissue grafting techniques; Dr. Paul Petrungaro on localized ridge augmentation with allogenic block grafts; and Dr. Markus Schlee on early clinical experience with a new porous material.

The audience for the event was composed primarily of practicing clinicians from around the world — those who already possessed established competencies in implantology but who were seeking to further their skills and expertise.

Of course, no advancements in the ability to treat patients would be possible without the best possible equipment. That’s why, between lectures, meeting participants visited tables in the lobby displaying Zimmer Dental’s various offerings, which cover the gamut from surgical products to regenerative materials to restorative tools.

According to Michael Collins, vice president of research, development and education for Zimmer Dental, the symposium offered participants an opportunity to experience new products and see where things are going. Even more importantly, he said, the week offered attendees the opportunity to stay on the cutting edge.

“If it weren’t for International Implantology Week, it would be impossible to find this kind of education all in one place,” Collins said.

Wang said that in addition to offering an unparalleled learning opportunity, the event also offered attendees the chance to expand their horizons by making global contacts.

Attendees were able to bond with each other during breaks for meals, and during the welcome reception and opening dinner at the Sheraton Ballroom.

The week concluded with a closing dinner at Brasserie 8 ½ in Midtown Manhattan.