

YOMI® DENTAL ROBOTICS

ROBOTIC ACCURACY WITH SAME DAY SURGERY

Dr. Joe Griffin | Cornerstone Dental Arts | Knoxville, TN



DENTAL ROBOTICS

I have been a general dentist in private practice for 22 years and have been placing implants for 18 years. I began utilizing haptic robotics to place implants in late 2019 using Yomi robotic technology. Yomi, by Neocis (Miami, FL) is the first and only FDA cleared robot assisted dental surgery system. My practice became the first in the state of Tennessee to adopt robotics for dental implant surgery, and I now place 250-300 implants per year robotically. Adopting dental robotics has transformed my practice.

HOW TO INTEGRATE ROBOTICS INTO YOUR PRACTICE

Yomi's robotic technology was not only new to me as the dentist, but to my entire patient care team. Following an initial learning curve on how to best integrate robotics in to my practice, my entire team adopted and embraced the technology and it is now our preferred method and standard of care for implant placement. Now, patients are only offered robotic surgery for implant placement at my office.



SAME DAY GUIDED SURGERY

Yomi allows me to provide same day guided surgery to my patients. When the patient comes in, we place a splint that either attaches to the patient's existing dentition for single implants or to the patient's bone using small self-tapping screws for fully edentulous cases. A fiducial array is attached to the splint and a CBCT scan is taken.

A three-dimensional implant placement plan for the case is done on this scan and uploaded to the robot. The fiducial is removed from the splint and replaced by a patient tracker arm that is attached to the robot. This arm tracks the motion of the patient so that the robotic plan and the 3D haptic volumes move as the patient moves. The patient tracker arm ensures that the robot is synced with the patient's mouth for the entirety of the procedure and that the implant plan is carried out with accuracy and precision. When I am ready to begin drilling, I hold the hand piece to move in an apical-coronal direction being constrained by the robotic software to stay on long axis of the planned implant position. Finally, as I am preparing the osteotomy, the robotic arm physically stops me at the planned osteotomy depth. The same level of control is provided during implant placement. The physical, haptic guidance prevents drill skiving, minimizing the amount of tissue reflected, which saves time and pain to the patient and allows me to do cases more minimally invasively. Currently an entire guided non-sedated case from patient in the door to patient out the door takes less than 45 minutes. The osteotomy and implant placement for 6 implants on a full arch, edentulous case took 30 minutes initially and now is around 20-25 minutes.

OTHER ADVANTAGES

In addition to same day guided surgery, using robotics provides accurate placement without the time, cost, and intraoral obstruction of plastic guides. There is full visualization and easy irrigation with robotics. I can also change my plan intra-operatively at any time for any reason, which is not possible with pre-printed plastic surgical guides. With Yomi, I can choose from many different implant systems and there are no additional drill sleeves or other restrictions.

PATIENT PERSPECTIVE

Carol Dunlap, RDA, is the Implant/Robotics Coordinator at my practice. She said "Patients really get excited to know they are having implants placed with the robot. It has been a very positive experience for our patients and they really do grasp the value of greater accuracy. Patients have been on board and have embraced dental robotics just as we have in the office."

Your talent + Our technology
More precision. Smaller incision.



ROBOTIC GUIDANCE
FOR IMPLANT DENTISTRY

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By Neocis



Yomi® is the first and only FDA-cleared robot-assisted dental surgery system. Yomi is a computerized navigational system intended to provide assistance in both the planning (pre-operative) and the surgical (intra-operative) phases of dental implantation surgery. The system provides software to preoperatively plan dental implantation procedures and provides navigational guidance of the surgical instruments. Yomi is intended for use in partially edentulous and fully edentulous adult patients who qualify for dental implants. | LB-0378-RevA