

Guided surgery for dental implants

Guided surgery is an advanced technique used during dental implant placement. It uses 3D imaging and computer-aided planning to create a custom surgical guide.



How it works

- Your procedure is pre-planned using 3D imaging and specialized software.
- A surgical guide based on your anatomy is created and placed in your mouth for the implant surgery.
- Your dentist uses a surgical guide to place the implant precisely where it was planned in the software.

Why choose guided surgery?



Greater precision*

Using a digital plan and surgical guide helps place the implant in the appropriate location – improving long-term success and esthetics^{1,2}.



Minimally invasive^{1,2}

Because the procedure is so precise, it often requires smaller incisions. This can mean less swelling, reduced discomfort, faster healing time and shorter surgery time.



Predictable results

Digital planning allows your dentist to anticipate challenges and helps them avoid critical structures like nerves and sinuses, for greater confidence during treatment.

Example of a surgical guide that ensures the implant is placed where it was planned.





Immediate results

In certain situations, a temporary crown can be placed on the same day as your implant, so you leave with a smile.

* Compared to freehand implant surgery.

- 1 Meloni SM, De Riu G, Pisano M, Cattina G, Tullio A. Implant treatment software planning and guided flapless surgery with immediate provisional prosthesis delivery in the fully edentulous maxilla. A retrospective analysis of 15 consecutively treated patients. *Eur J Oral Implantol* 2010;3(3):245–51.
- 2 Monaca, G. L. et al. Immediate flapless full-arch rehabilitation of edentulous jaws on 4 or 6 implants according to the prosthetic-driven planning and guided implant surgery: A retrospective study on clinical and radiographic outcomes up to 10 years of follow-up. *Clin. Implant Dent. Relat. Res.* 24, 831–844 (2022).
- 3 Accuracy in dental implant placement: A systematic review and meta-analysis comparing computer-assisted (static, dynamic, robotics) and noncomputer-assisted (freehand, conventional guide) approaches. Khaoheon, Angkoon et al. *The Journal of Prosthetic Dentistry*, Volume 134, Issue 1, 91.e1 - 91.e25.

Important Your dentist remains your best source for information regarding your dental care and your options. They can provide you with additional information and answer any questions or concerns you might have.

Guided surgery is suitable for most patients needing dental implants – especially those looking for a more comfortable experience with predictable results^{1,2}.

Talk to your dentist today to find out if guided implant surgery is the right choice for your smile!

Practice stamp

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Treatment with dental implants is a surgical procedure which carries certain risks and requires prior evaluation by your dentist to make sure your dental and general health permits dental implant treatment.

Dental implants are not intended to be used in pediatric patients whose jaw bone growth has not been documented or people who; are medically unfit for a dental surgical procedure / have inadequate bone volume / are allergic or hypersensitive to commercially pure titanium. After placement dental implants may fail to integrate with the bone. If this occurs, they will need to be removed in a secondary procedure. Certain factors could interfere with the healing process of either bone or soft tissue. These include: cigarette smoking / uncontrolled diabetes / oro-facial radiotherapy / steroid therapy / infections in the neighboring bone. The possibility of immediate placement and use of a prosthetic tooth varies upon many factors including bone presence and quality, dental history, implant location, and availability of final restoration.

Direct to patient communication or clinician advertisement may be strictly prohibited in some markets. It is the clinician's obligation to inform themselves about any potential legal restrictions and to adhere to the laws and regulations in their jurisdiction.

