The Sinus Lift Implant

Perform sinus lift procedures with confidence and ease
Dramatically improve your patients’ experience and quality of life
iRaise™, the Sinus Lift Implant, is a dental implant that allows dentists to perform a simultaneous, minimally invasive sinus floor elevation procedure. iRaise™ transforms the sinus lift from a technically demanding, traumatic surgical intervention into a simple implantation procedure, allowing dentists to make a real difference to their patients’ quality of life.

iRaise™ features a key innovation: an internal channel which enables the introduction of fluids through the implant body and into a space beneath the Schneiderian membrane. The channel is isolated from the prosthetic connection and the oral cavity: the unique L-shape design ensures that after implantation, both openings are embedded within the bone, preventing bacterial migration from the oral cavity into the sinus. Rigorous fatigue testing ensures that the implant meets and exceeds stringent requirements for structural strength.

This structure allows the clinician to simultaneously perform a sinus lift and insert a full-length dental implant in one simple procedure.

iRaise™ offers dentists an easy, accessible technique which can be performed by experienced implantologists after minimal training. The procedure reduces chair time significantly by eliminating several surgical steps, and reduces complications and post-operative care. For patients, iRaise offers vastly reduced pain and discomfort, eliminates facial swelling and bruising, shortens patients’ recuperation time and eliminates lost work days.

The iRaise™ procedure is based on established clinical methodology. It has been successfully tested in Maxillent’s clinical studies, validating the predicted advantages for both patients and clinicians.
The iRaise™ procedure provides the full clinical benefit of current sinus lift methods, while delivering significant benefits both to the clinician and the patient.

**Ease and Confidence for the Clinician**

- Accessible, easy-to-learn technique, as opposed to the difficult open sinus lift procedure. Experienced implantologists can perform the iRaise™ procedure with minimal training.
- Reduces chair time from an average of one to two hours down to thirty minutes, by eliminating or simplifying several surgical steps.
- Reduces complications and post-operative care due to the significantly reduced surgical trauma.
- Reduces the risk of perforating the Schneiderian membrane, due to the safe elevation method using hydraulic pressure.

**Transforming the Patient’s Quality of Life**

- Dramatically reduced pain and discomfort as compared to the open sinus lift procedure, due to the minimally invasive surgical approach.
- Eliminates the significant facial swelling and bruising endured in the open sinus lift.
- Shortens patient’s recuperation time and saves lost work days.
The iRaise™ Procedure

Key Steps

1. Drill an osteotomy in the maxilla, using the flat drill to stop at the hard bone of the sinus floor cortex.

2. Weaken the cortex using the specialized iRaise™ cortex drill.

3. Insert the iRaise™ into the osteotomy with a controlled rotation. The tip of the implant will crack through the sinus floor below the Schneiderian membrane.

4. Assemble the tube connector onto the iRaise™.
5. Inject saline through the iRaise™. The saline will flow through the internal channel and press against the Schneiderian membrane, gently detaching it from the sinus floor.

The liquid maintains an even hydraulic pressure over the surface of the membrane, preventing risk to the membrane's integrity.

6. Drain the saline. Inject bone graft in a fluid formulation through the implant and into the sinus.

7. Remove the adaptor, and insert the iRaise™ fully into the osteotomy. Insert the cover screw and suture the gingiva.

8. Within six to nine months, the bone graft will mature and the implant will osseointegrate. Prosthetic restoration may be performed.
Images from iRaise™ procedures:

iRaise™ partially inserted in the maxilla

Saline injection and retrieval

Bone graft injection

X-ray image showing new bone generated around the iRaise implant (patient’s right side, with an additional conventional implant). Compare to a conventional open sinus lift performed on the left side:

CT slices from the same case:
FEATURE SET

<table>
<thead>
<tr>
<th>Features</th>
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<tbody>
<tr>
<td>Performs sinus lift</td>
<td>✓</td>
</tr>
<tr>
<td>Tapered body</td>
<td>✓</td>
</tr>
<tr>
<td>Variable threads</td>
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<tr>
<td>Self-tapping</td>
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<td>Active tip</td>
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<td>Surface blasting medium</td>
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<tr>
<td>Diameters</td>
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<tr>
<td>Lengths</td>
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<td>Single platform</td>
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<td>Materials</td>
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SIZING INFORMATION

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SURGICAL KIT
Company Profile

Maxillent Ltd. provides innovative solutions that are transforming the field of dental implants. The company’s flagship product is iRaise™, the Sinus Lift Implant, which allows dental professionals to perform a minimally invasive sinus floor elevation and implantation in a single, simple procedure. In addition to the iRaise™, Maxillent offers a comprehensive range of iSure™ dental implants, prosthetics, bone graft materials and tools that cover the entire spectrum of dental implant procedures.

Maxillent’s development and manufacturing facilities are certified for ISO 13485, and all the company’s products are CE-approved. FDA 510(k) approval is currently in process. Maxillent’s uncompromising commitment to quality and strict adherence to regulatory guidelines ensures that it not only meets, but exceeds the industry’s most stringent quality standards.

Maxillent’s technology is based on proprietary R&D, with a rich intellectual property portfolio. Maxillent products are covered by US patents 7934929, 8029284, and additional US and international patents pending. The following trademarks are owned by Maxillent: Maxillent™, iRaise™, and iSure™.

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