

The Dental Profession Adopts Minimally Invasive Surgical Techniques

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Over the last decade the dental industry has experienced a massive influx of new technologies. These advances have resulted in new innovative techniques and elevated products all of which have ultimately improved the level of patient care.

We are constantly introduced to new dental developments that have the potential to change the dental industry and our practice in particular.

Lately I was introduced to a fascinating innovative dental technology that I would like to share it with you.

Hydraulic sinus lift - a novel technique which allows a dental surgeon to place an implant in the posterior maxilla while performing a simultaneous sinus lift - in a minimally invasive way.

A relatively simple procedure that can be done by dentists with Implant surgery experience (including general dentists).

It has fewer risks of morbidity and a quicker healing time to the patient.

It is called I -Raise sinus lift technique patent of "Maxillent".

To see an animation about it- <https://www.youtube.com/watch?v=uGPYrq83r2E>

I -Raise is a novel surgical procedure in North America.

It is not new in Europe and other countries and is well documented in the literature.

The modern method is based on today's trend of 'minimally invasive surgery' - achieving the surgical objective with minimal trauma to the patient. The method uses a dental implant that was specially designed for the sinus lift, called the I-Raise™ Sinus Lift Implant.

Using the sinus lift implant, the dentist lifts the Schneiderian sinus membrane by injecting fluid through the implant internal channel.

This creates a gentle pressure and reduces the risk of tearing the sinus membrane. The dentist then uses the same method to insert bone replacement material.

The main 4 differences between the I-Raise system and the conventional Crestal approach?

1. When you inject fluids through the implant internal channel you press and apply equal forces through the entire membrane (Pascal fluids law) decreasing the risk of rupturing the membrane.
2. The membrane is raised fully and not only in the location where the individual implant needs to be placed. That way you can insert other implants adjacent to that site if necessary. (Any implant system can be used for the adjacent sites)
3. This system can be used starting with 3 mm residual alveolar ridge (with predictable success)
4. It is possible to insert larger amount of bone into the sinus space created and thereby achieve a better/thicker bone structure.

Since I got involved with the hydraulic sinus lift method dental life in our practice became much easier.

For us the dentists -it is less time consuming, easy procedure with a better prognosis.

For the patient- by using this new technology we expect fewer side effects.

Patient can return to daily life immediately following surgery.

This is what I mean when I say elevation of dental care.

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