

GRAFTLESS SINUS FLOOR ELEVATION (LSFE)



Prof. **Stefan Lundgren**



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Graftless Sinus Floor Elevation

by Prof. Stefan Lundgren and Dr. Giampiero Ciabattoni



SUMMARY



Topic:

Discover a safe, fast, predictable and minimally invasive one-stage bone augmentation technique.



Objectives:

- The Background and the Philosophy behind the surgical protocol
- The long term follow-up results
- Patient's pre-surgery preparation
- Patient's post surgery care
- The analysis of what may go wrong and what to do if this happens
- Different sizes of sinus membrane perforations
- What to do if the implant stability isn't achievable with classic techniques
- Loss of implant integration during healing and during functional loading
- Digital treatment planning



About the author:

- Prof. Stefan Lundgren:
Is a Senior Professor at the Department of Oral Maxillofacial Surgery at the University of Umeå in Sweden. In the last 20 years has committed himself to minimally invasive procedures to bone augmentation. Is an internationally renowned author of more than 80 publications in oral maxillofacial area.

- Dr. Giampiero Ciabattoni:
An implantologist of international reputation, Dr Ciabattoni has maintained an active collaboration with Prof. Lundgren over the past decade. He is particularly specialised in oral surgery and implant prosthetics.

LEVELS

Difficulty ●●●

Theory ●●●

Practice ●●●●

KEY INFO



English



On Demand



Implantology - Sinus Lift



5h 30min



3 Theoretical lectures, 6 ReLIVE Surge

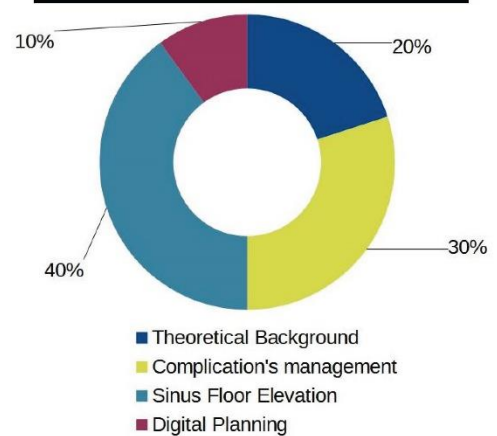


Surgical Yes



NO

SKILLS YOU WILL LEARN





During this course speakers will discuss about:

- The Background and the Philosophy behind the surgical protocol
- The long term follow-up results
- Patient's pre-surgery preparation
- Patient's post-surgery care
- The analysis of what may go wrong and what to do if this happens
- Different sizes of sinus membrane perforations
- What to do if the implant stability isn't achievable with classic techniques
- Loss of implant integration during healing and during functional loading
- Digital treatment planning

At the end of this video course you'll be able to:

- Perform a bone augmentation treatment in a minimally invasive way
- Perform a bone augmentation treatment in a very fast, safe and predictable way
- Remove the bone window in order to create the space to reach the membrane
- Correctly dissect the sinus membrane
- Achieve the primary implant stability without changing the implant's size
- Chose the proper instruments and use them correctly
- Control the bleeding from the lateral sinus wall artery
- Remove intra-sinus cysts
- Digitally plan all treatment's phases

Who the course is addressed for:

The course is particularly recommended for implantologists interested in sinus augmentation with or without previous experience including people with sparse knowledge of the english language.

OK, but how does it work?

This is a 5 hour and 30 minutes video course divided into 3 theoretical lectures, 6 high quality ReLIVE Surgeries and a video presentation of the instruments that you can watch by accessing your course area from any device and download from the osteocom app available for iOS and Android.



Video Lectures:

Video Lecture 1 - Background and philosophy behind the surgical treatment

In this first video lecture, Prof. Lundgren will present Graft Sinus Floor Elevation to participants by showing them the studies and the experiments of recent years that have led to the development of this innovative technique. Then will be treated the step-by-step procedure in order to obtain a graftless sinus elevation with the help of several short surgical videos.

In particular, in this lecture Prof. Lundgren will speak about:

- How to create a bone window
- The proper sinus membrane's dissection
- Bone window replacing and its correct stabilization
- Removal of a cyst
- Implant length decision-making process
- The sinus membrane's perforation
- How to cover a screw exposure

Video lecture 2 - Graftless Sinus Floor Elevation: a focus on the surgical technique

Description:

In this second lecture of the course, Prof. Lundgren will describe this innovative surgical technique in a step-by-step way using video sequences with original audios and comments.

In particular, in this lecture Prof. Lundgren will speak about:

- Flap incision's conventional technique
- Flap dissection and periosteal incision
- Visualization of the surgical field
- The rationale behind placement and size of the lateral sinus wall window
- Removal of the bone wall
- Dissection of the sinus membrane
- Free handed or drill guided preparation for implant placement
- Suture protocol
- Pre-operatively and during the surgery patient's preparation

Video Lecture 3 - What can go wrong and what to do if this happens?

Description:

Prof. Lundgren will present different possible complications that may happen while performing a Graftless sinus floor elevation such as uncontrolled bleeding, too fragile sinus membranes or a not integrated implant during the healing.

Several short surgical videos will be displayed in order to visualize the problem and solutions.

In particular, in this lecture Prof. Lundgren will speak about:

- How to manage the bleeding from the artery in the lateral sinus wall
- How to manage sinus membrane perforations of different sized and shapes
- Sinus membrane different sizes multiple perforations
- How to correct a bone window's shape before its replacement
- How to achieve the primary implant stability in minimal residual bone
- How to deal with a displaced implant into the sinus cavity?

ReLIVE Surgery – Virtually planned bilateral graftless LSFE and placement of 3 + 3 implants assisted by a pilot drill surgical guide

Description:

In this first 4k high quality ReLIVE Surgery, a left and right lateral sinus elevation without grafting materials with simultaneously replacement of six implants will be presented to participants. From the digital treatment planning to the final suture, each phase will be discussed in detail.

In particular, in this lecture speakers will discuss about:

- Virtual treatment planning with “DTX Studio Implant” software
- Crestal incision of the flap paying attention to avoid papilla of adjacent tooth
- How to increase flap's length by performing a periosteal incision
- Detach the lower part of the membrane from the bone
- The rationale behind the implant's length decision
- Replacing the bone window
- Implant placement planning with the help of a pilot drill guide

ReLIVE Surgery – Virtually planned unilateral graftless LSFE and 3 implants placed. Arterial bleeding during surgery and how this was managed.

Description:

In this ReLIVE Surgery session, Prof. Lundgren and Dr. Ciabattini will firstly discuss about the different flap philosophy when working in the posterior area. Then, a

complication occurs during the surgical treatment and they will explain how to safely manage an anterior bleeding.

In particular, in this lecture speakers will discuss about:

- Graftless LSFE surgical protocol
- How to design the flap in the posterior area
- How to manage an anterior bleeding
- How to manage an exposure of the cover screw

3rd ReLIVE Surgery – Virtually planned right side graftless LSFE in the premolar and molar area

Description:

Participants will watch Prof. Lundgren facing a three adjacent implant placement at the positions 14, 15 and 16. The surgery will be tricky because of the severe bone defect that affects the surgical site.

In particular, in this lecture speakers will discuss about:

- Digital treatment planning
- The entire vertical release incision not including the papilla area
- Preparation of the bone window with a piezo device
- Excess soft tissue removal
- How to check if the distance between the implant and the neighbouring tooth is correct
- Correct implant placement using pilot drill guide
- Suture protocol

ReLIVE Surgery – Virtually planned left side graftless LSFE and placement of 2 implants in the molar area

Description:

In this ReLIVE Surgery, Prof. Lundgren will show participants how to place two implants in position 26 and 27 in which the residual vertical bone height is minimal.

In particular, in this lecture speakers will discuss about:

- How to digitally plan a free-hand implant placement
- How to avoid flap retraction
- The proper flap design
- Schneider's membrane detachment protocol

- Suture protocol
- Post-surgical patient's care

ReLIVE Surgery – Virtually planned bilateral graftless LSFE placement of 3 + 3 implants placed in minimal residual bone assisted by full surgical guidance. Right side major perforation of the membrane and how it was managed.

Description:

In this ReLIVE Surgery, Prof. Lundgren will show a standard graftless sinus elevation in order to produce enough bone augmentation to support 3 adjacent implants. But, while opening the bone window, Prof. Lundgren observed a membrane perforation and he will explain how to deal with this situation.

In particular, in this lecture speakers will discuss about:

- Digital treatment planning
- Flap incision protocol
- Bone window removal
- Membrane detachment from the area in which we are planning to put the implants
- How to deal with a membrane perforation?
- Guided implant placement
- Finalization and suture protocol

ReLIVE Surgery – Virtually planned left side graftless LSFE and placement of 3 implants in severe alveolar atrophy with the assistance of a surgical guide.

Description:

By attending this ReLIVE Surgery, participants will see Prof. Lundgren place three adjacent implants: in the first and second premolar and in the first molar area. According to Prof. Lundgren, the minimal residual bone height of the site will make it necessary to plan a graftless sinus elevation.

In particular, in this lecture speakers will discuss about:

- Implant position virtual planning using DTX Software
- A guided surgery by using guide
- Preparation of the implants
- The difficult removal of the membrane attached to the bone wall

Correct instrumentation and setting for their surgical use

This is a concluding video in which you will be shown all the instruments that were used in the ReLIVE Surgeries. Moreover, in the final part of this presentation, Prof.

Lundgren will show you how to properly handle these instruments while performing GSFE surgical protocol.



Authors:

Prof. Stefan Lundgren

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Dr. Giampiero Ciabattone

An implantologist of international reputation, Dr Ciabattone has maintained an active collaboration with Prof. Lundgren over the past decade. He is particularly specialised in full arch digital implant rehabilitations.

