

# Information for Patient

## | Tissue expansion prior to augmentation of resorbed edentulous ridges with self-inflating tissue expanders

osmed tissue expanders are used for gaining soft tissue. Before the augmentation of the resorbed edentulous ridge, osmed tissue expander serve for preparation of the soft tissue (gum/gingiva). The objective is to have sufficient soft tissue available to cover the built-up jaw bone.

## | How do osmed tissue expander work?

osmed self-inflating tissue expanders are made of a specially developed hydrogel that uses the osmotic principle to gain volume.

Before expansion, osmed hydrogel expanders are small and hard and are easy to handle. After implantation, osmed hydrogel expanders absorb body fluid and grow consistently to their predefined form and size. The expanders are sheathed with a perforated silicone shell for controlled slow influx of body fluid and slow continuous swelling. The increasing volume of the expander stimulates growth of soft tissue.

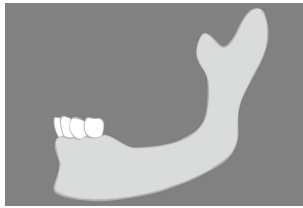
General advantages of osmed tissue expanders are: safe material, low complication rate, low risk of infection, small incision and minimal trauma.

## | Anaesthesia

Local anaesthesia

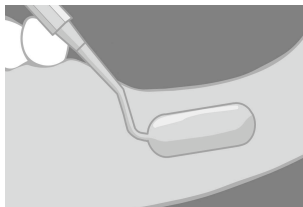
## Surgical procedure

1



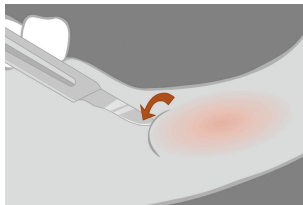
Resorbed edentulous ridge. Vertical and lateral augmentation is necessary prior to implant placement.

2



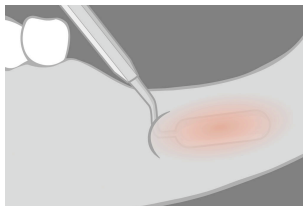
The template is used for selection of the appropriate expander type. The expander's final volume has to fit to the designated surgical area.

3



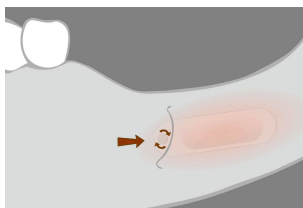
Incision and preparation of a tunnel flap.

4



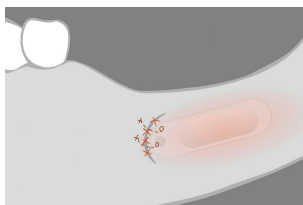
The preparation is controlled with the surgical template.

5



Insertion of the expander and fixation with a bone fixation screw at the flap of the expander.

6



Two-layered wound closure

7



Usually, tissue expansion and maturation are completed after 6-8 weeks. The expander is removed in the course of augmentation surgery. Incision and flap design are chosen as required for the intended method of bone augmentation.