Dentium

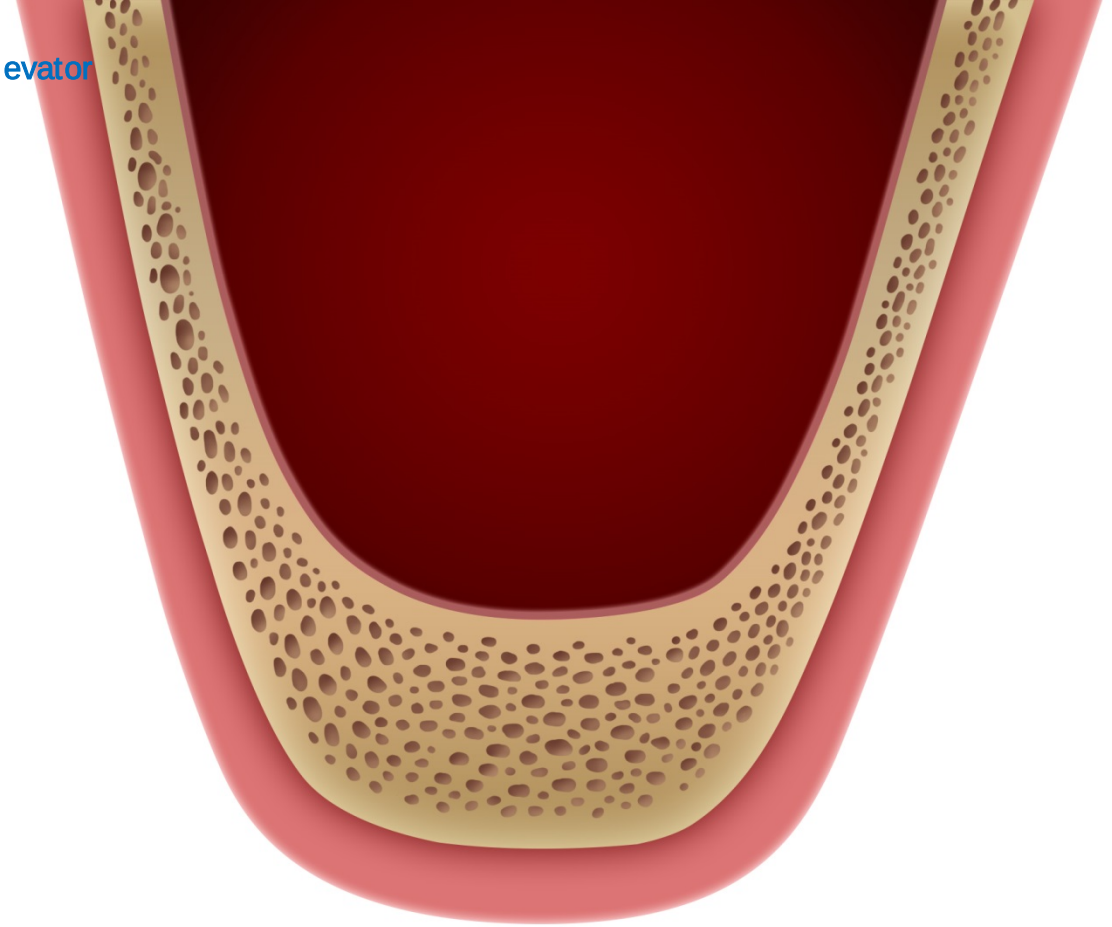
# Sinus augmentation

# I
# Crestal approach

Sinus Elevator

NEW

# Crestal approach (Sinus lifting]



# Crestal approach (Sinus lifting]

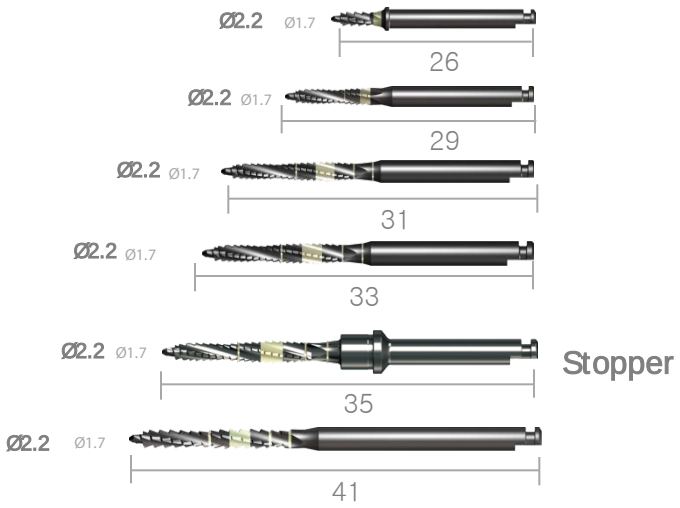
1st surgery

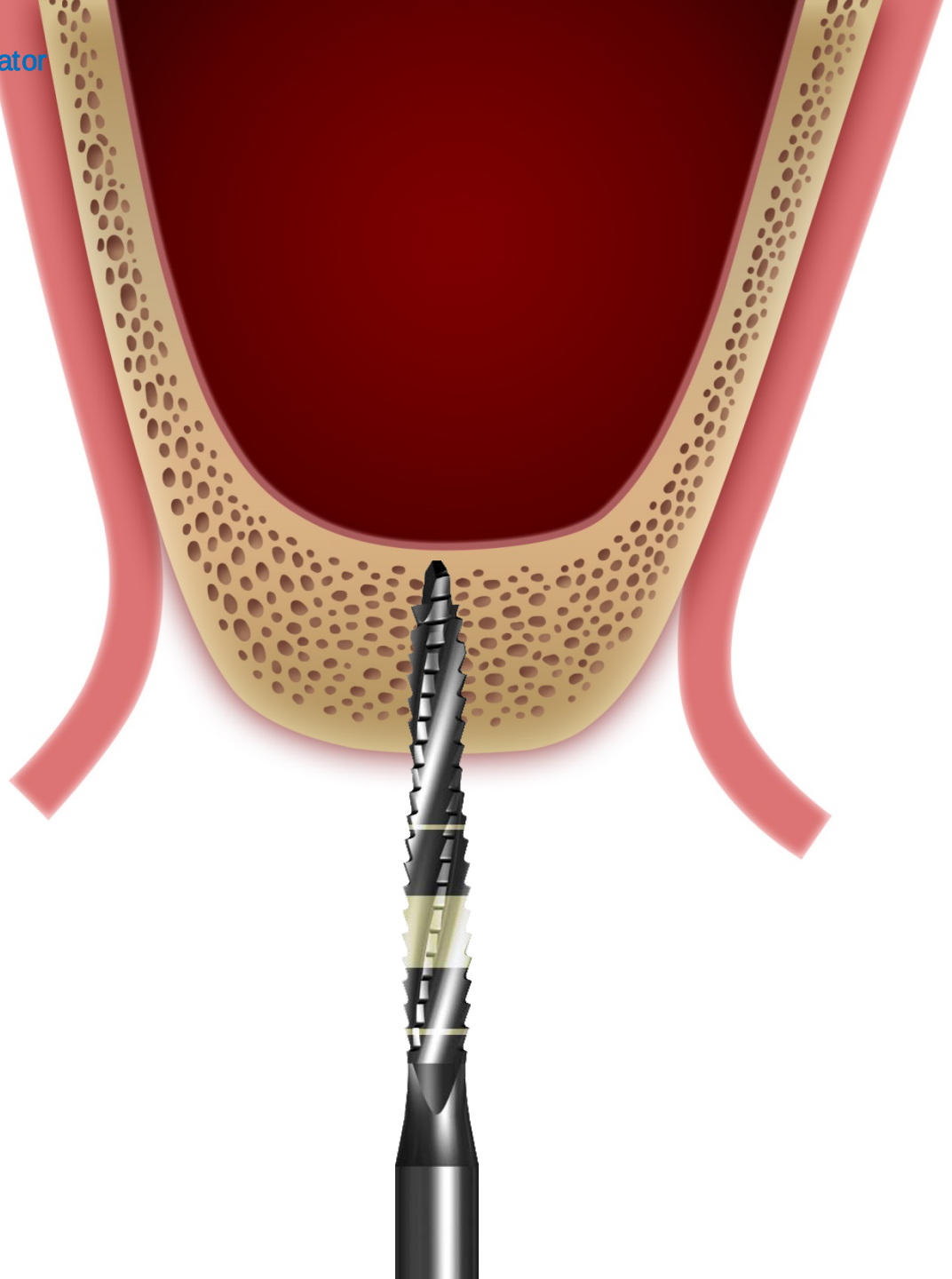
First guide drill

1000rpm with irrigation

First Guide Drill

| Diameter | L | Art No. |
|---|---|---|
| Ø2.2 | 26 | XLD 22 **07** |
| Ø2.2 | 29 | XLD 22 **29** |
| Ø2.2 | 31 | XLD 22 **31** |
| Ø2.2 | 33 | XLD 22 **33** |
| Ø2.2 | 35 | XLD 22 **35** |
| Ø2.2 | 41 | XLD 22 **41** |



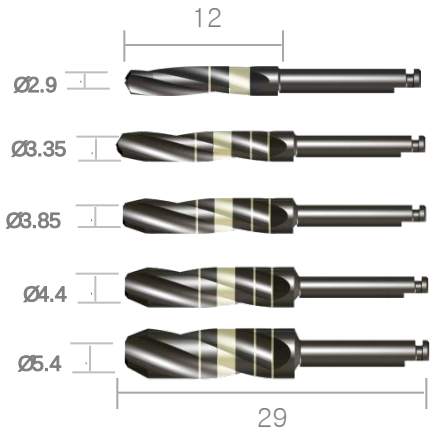



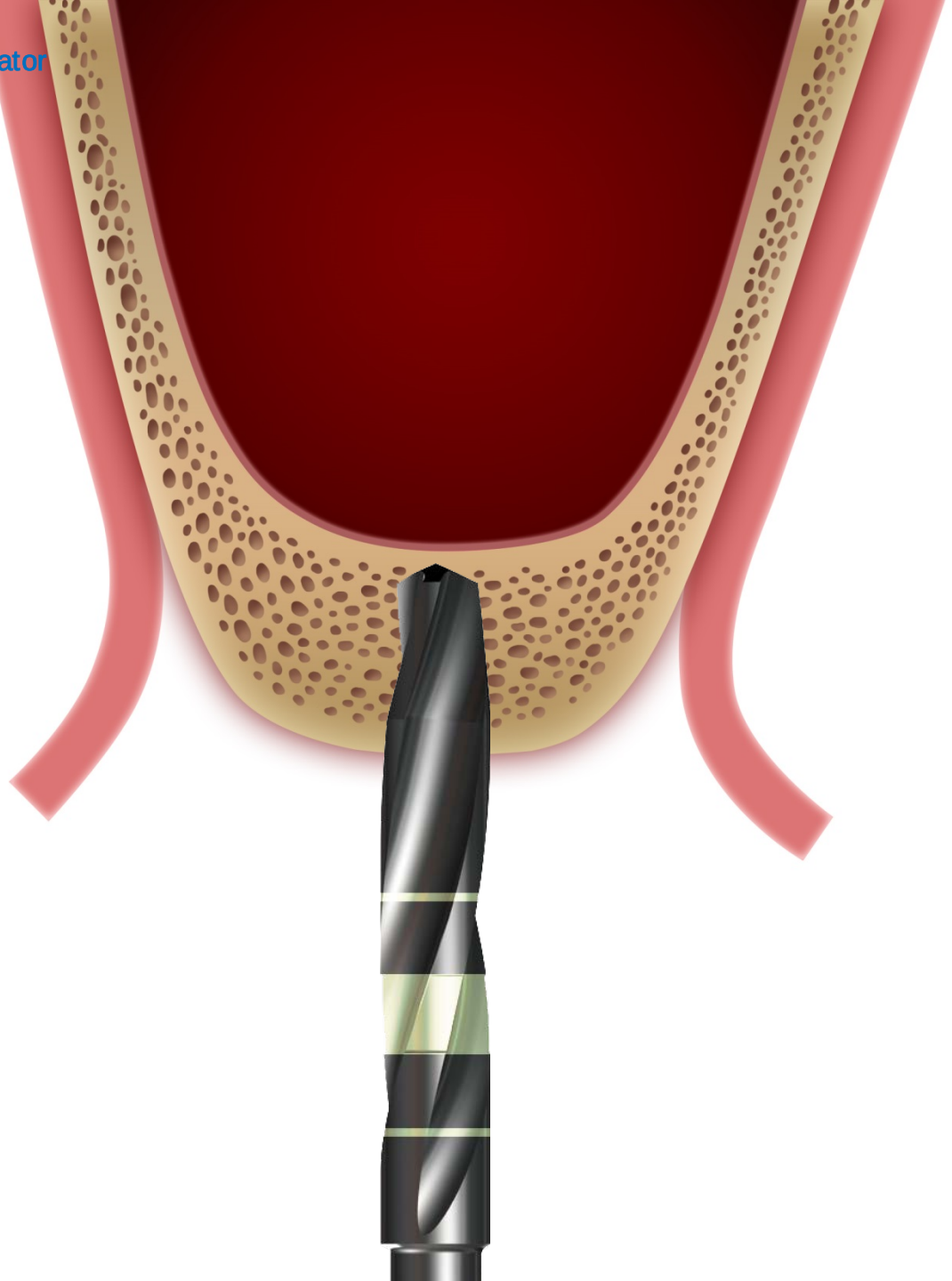
# Crestal approach (Sinus lifting]

1st surgery
Ø3.4 Final drill
50rpm without irrigation

Final Drill I Length 29mm

| Diameter | L | Art No. |
|---|---|---|
| Ø2.9 | 29 | XFD **34** 29 |
| Ø3.35 | 29 | XFD **38** 29 |
| Ø3.85 | 29 | XFD **43** 29 |
| Ø4.4 | 29 | XFD **48** 29 |
| Ø5.4 | 29 | XFD **58** 29SW |



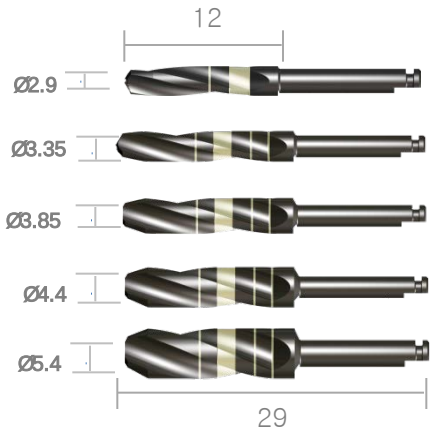



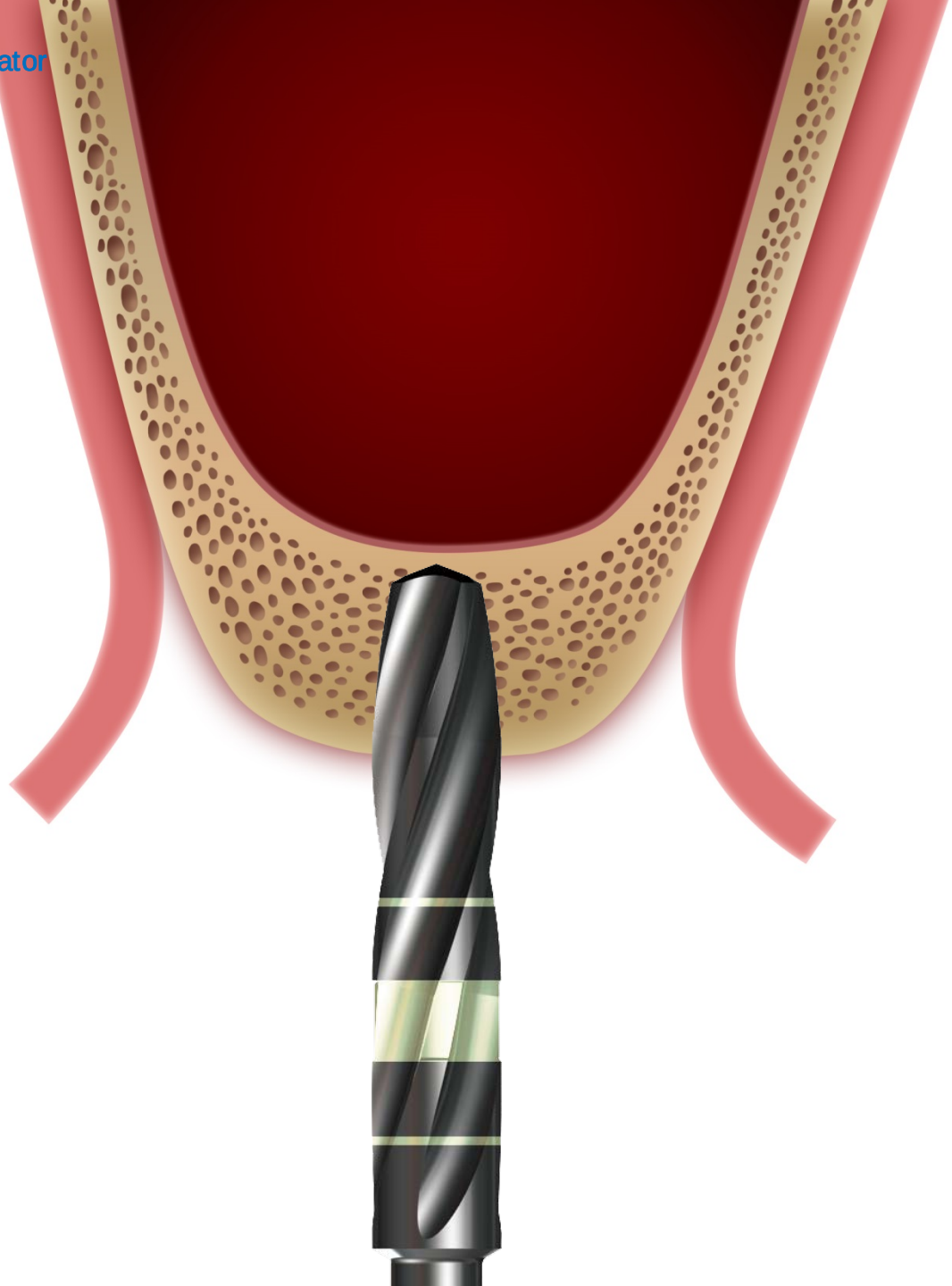
# Crestal approach (Sinus lifting]

1st surgery
Ø3.8 Final drill
50rpm without irrigation

Final Drill I Length 29mm

| Diameter | L | Art No. |
|---|---|---|
| Ø2.9 | 29 | XFD **34** 29 |
| Ø3.35 | 29 | XFD **38** 29 |
| Ø3.85 | 29 | XFD **43** 29 |
| Ø4.4 | 29 | XFD **48** 29 |
| Ø5.4 | 29 | XFD **58** 29SW |



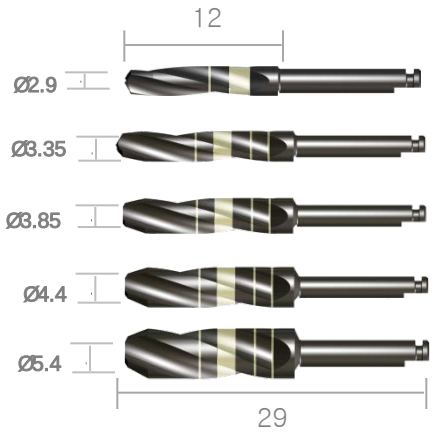



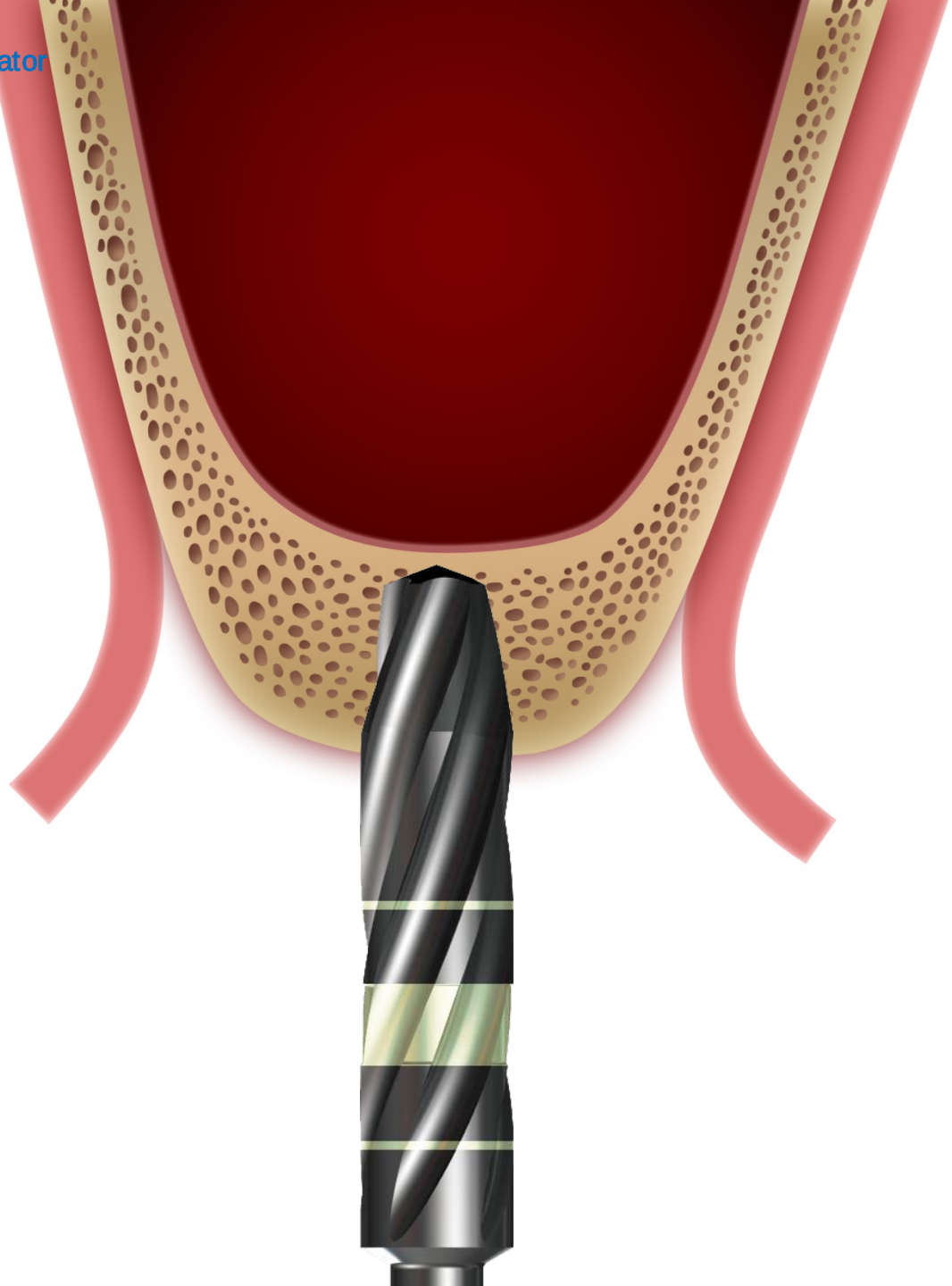
# Crestal approach (Sinus lifting]

1st surgery
Ø4.3 Final drill
50rpm without irrigation

Final Drill I Length 29mm

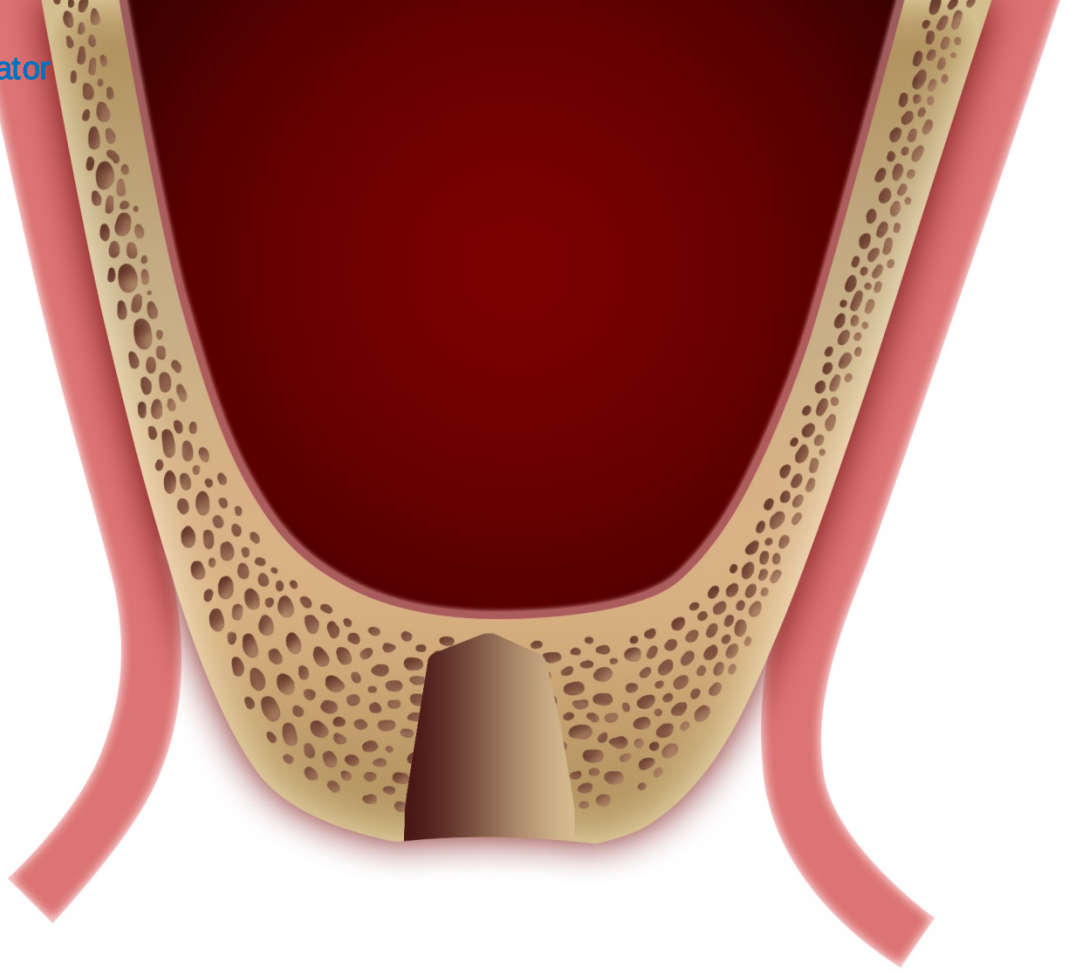
| Diameter | L | Art No. |
|---|---|---|
| Ø2.9 | 29 | XFD **34** 29 |
| Ø3.35 | 29 | XFD **38** 29 |
| Ø3.85 | 29 | XFD **43** 29 |
| Ø4.4 | 29 | XFD **48** 29 |
| Ø5.4 | 29 | XFD **58** 29SW |



# Crestal approach (Sinus lifting]

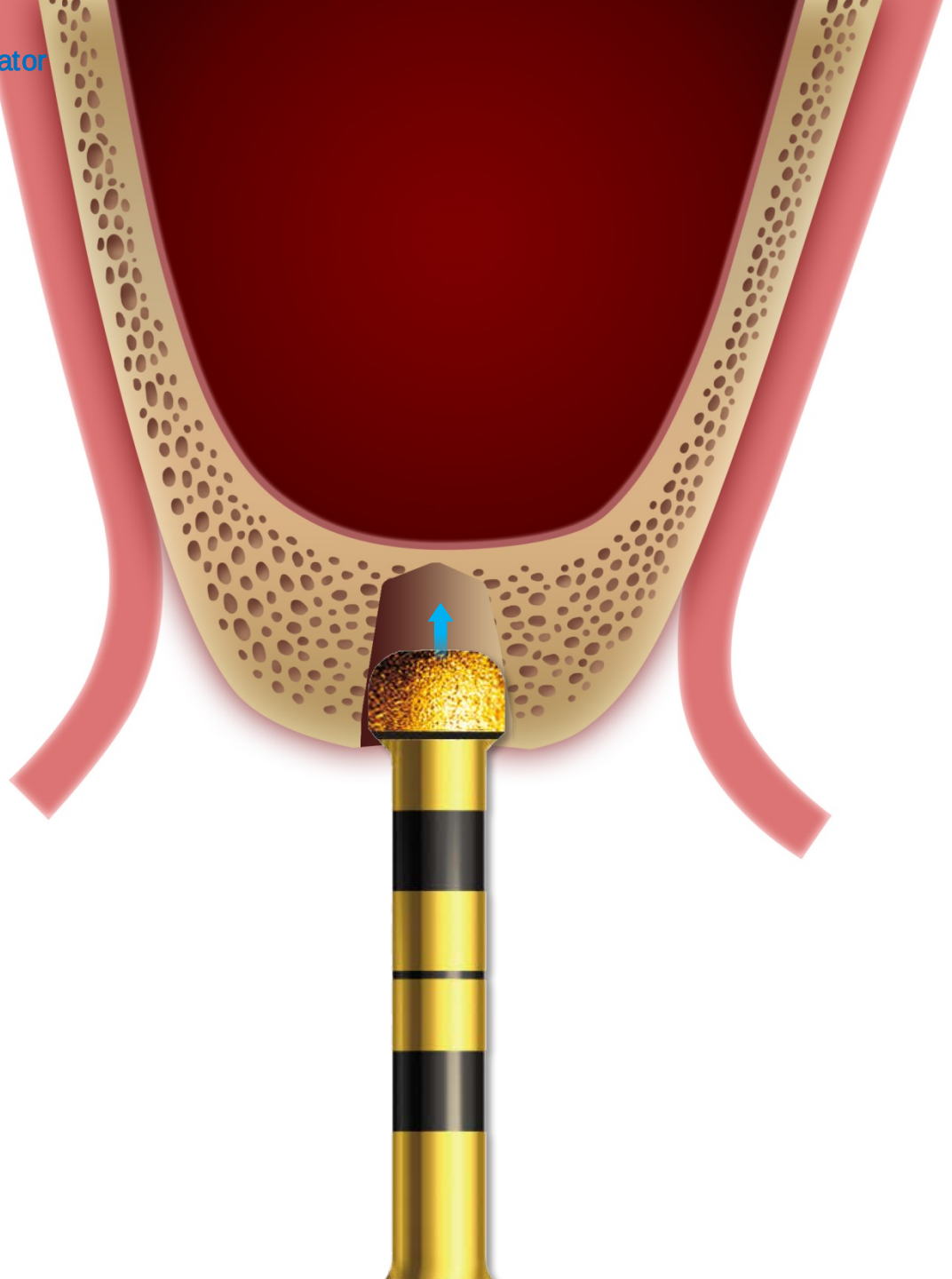
1st surgery



# Crestal approach (Sinus lifting]

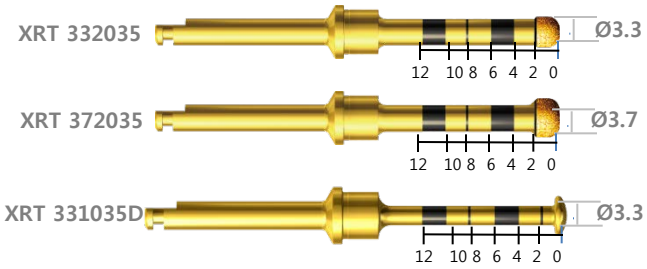
1st surgery

DASK Drill #2 XRT372035



DASK Drill I Scale 1 : 1.2/mm

| Type | DASK Drill # | Art No. |
|---|---|---|
| Crestal Approach | DASK Drill #1 | XRT **33**2035 |
| | DASK Drill #2 | XRT **37**2035 |
| | DASK Drill #3 | XRT **33**1035D |

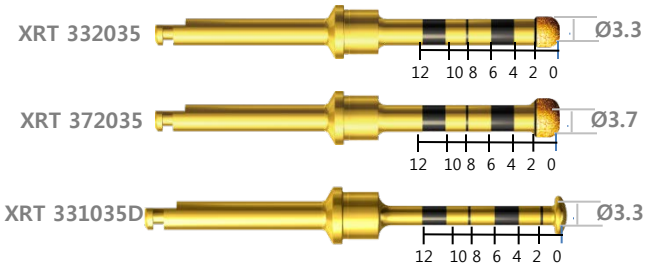


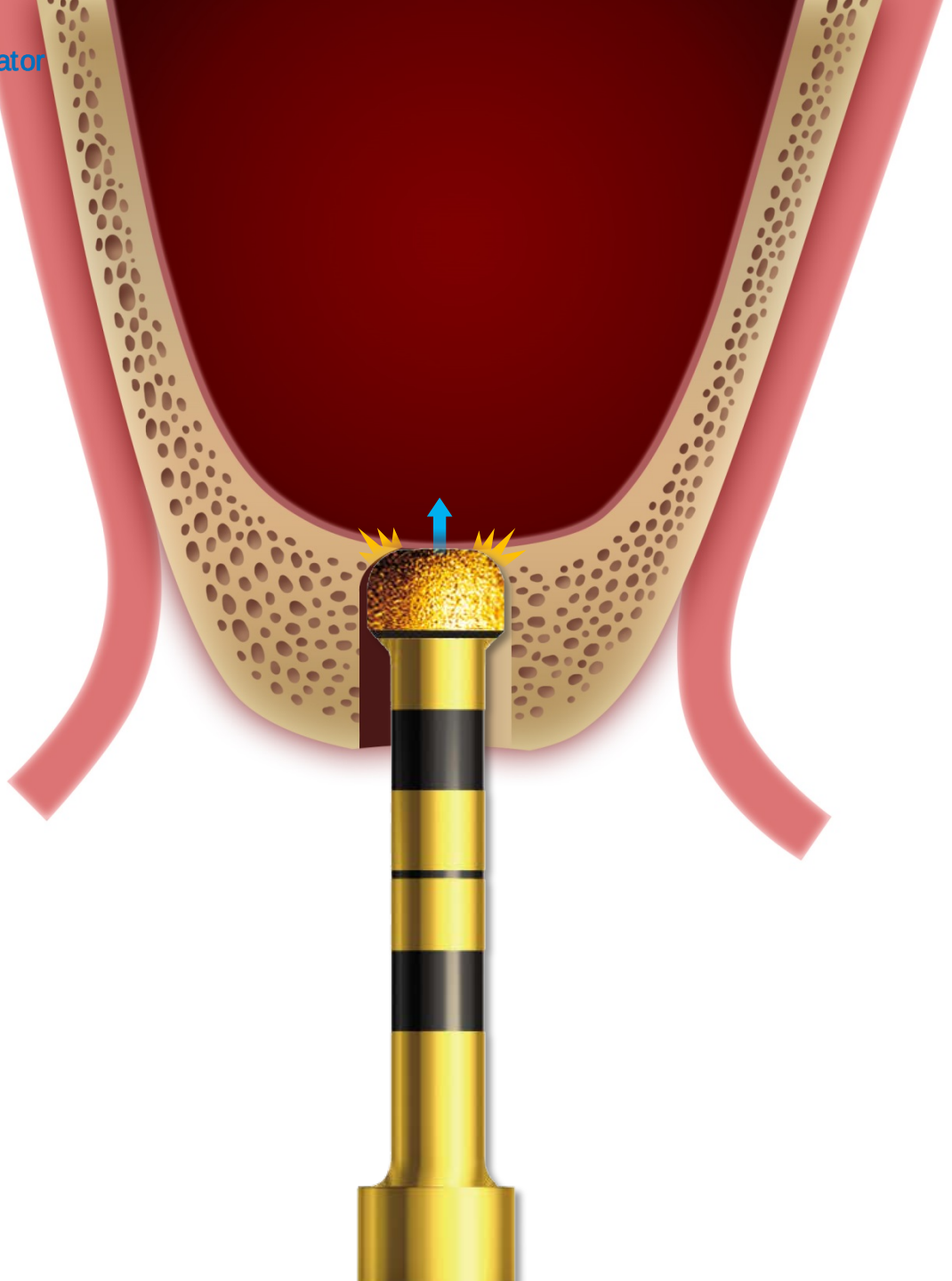
# Crestal approach (Sinus lifting]

1st surgery
After Ø4.3 Final drilling, eliminate the residual bone [1mm] using a **DASK Drill #1 or #2.** [in hard bone] until you feel a slight drop.

DASK Drill I Scale 1 : 1.2/mm

| Type | DASK Drill # | Art No. |
|---|---|---|
| Crestal Approach | DASK Drill #1 | XRT **33**2035 |
| | DASK Drill #2 | XRT **37**2035 |
| | DASK Drill #3 | XRT **33**1035D |



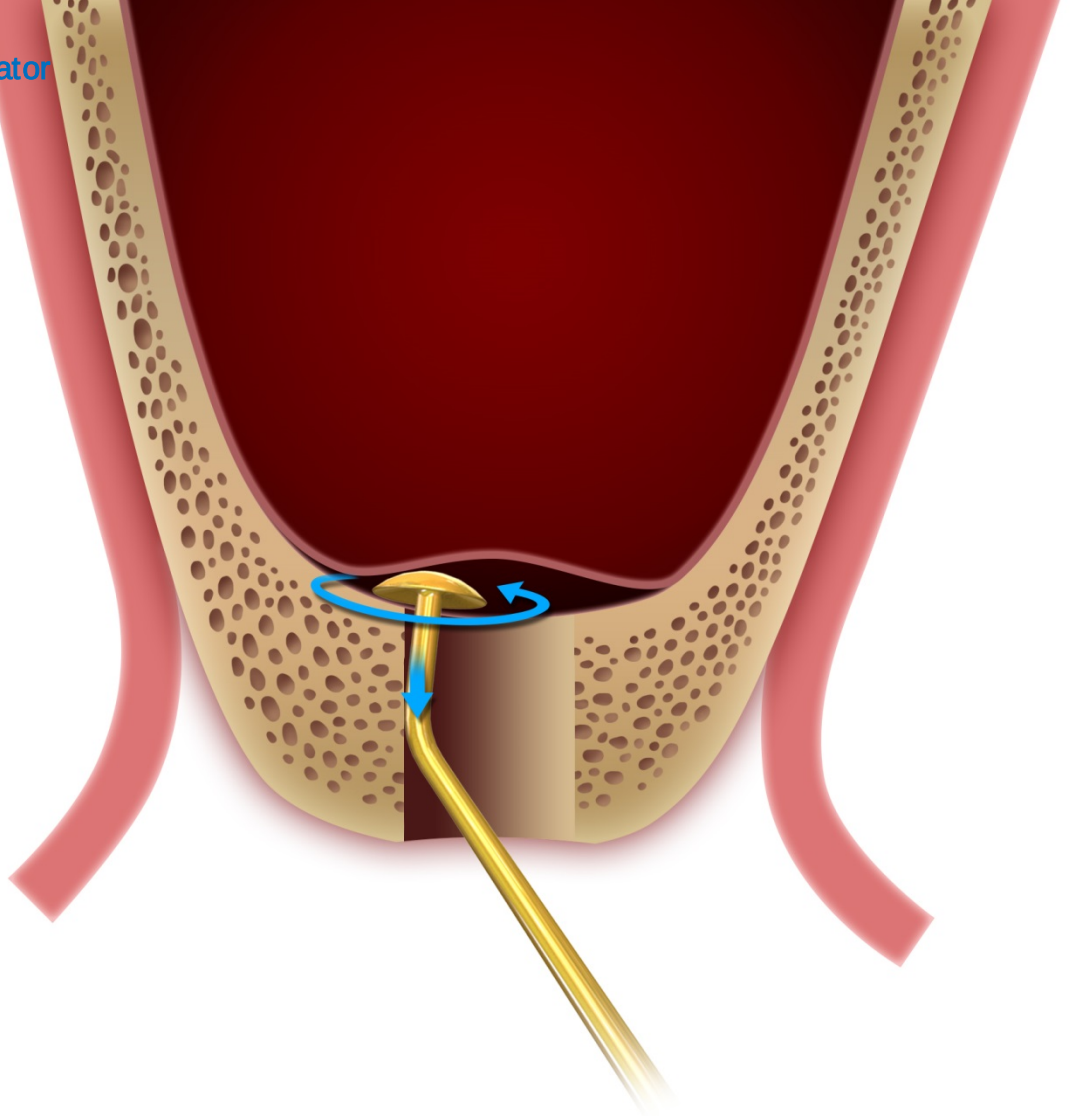



# Crestal approach (Sinus lifting]

1st surgery

**DASK - XSE1L**

Use the dome-shaped sinus curette.



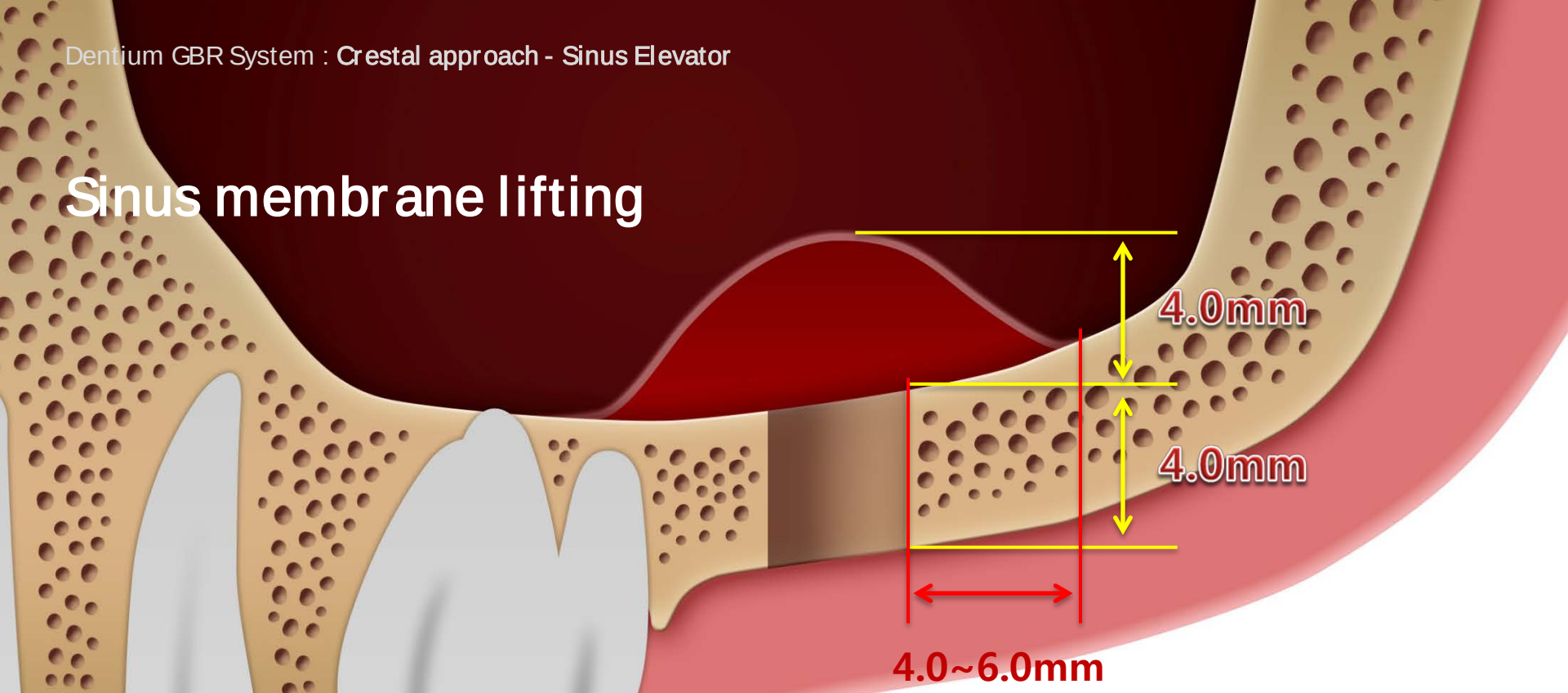
Sinus Elevation Instrument I Scale 1 : 0.45/mm

# DASK kit – XSE3L

Detaching the sinus membrane to create adequate space for graft material.

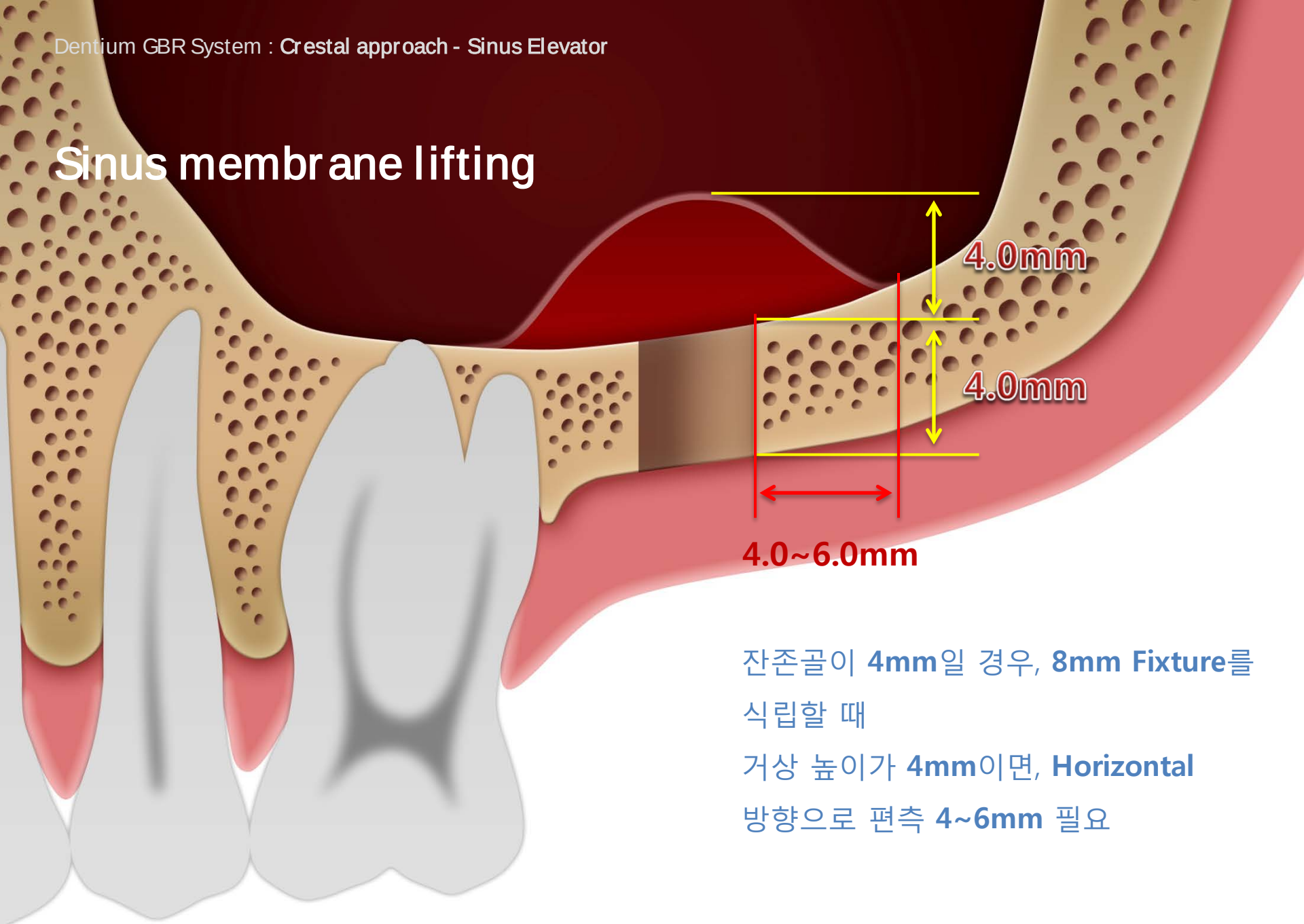
Sinus Elevation Instrument I Scale 1 : 0.45/mm

# Sinus membrane lifting



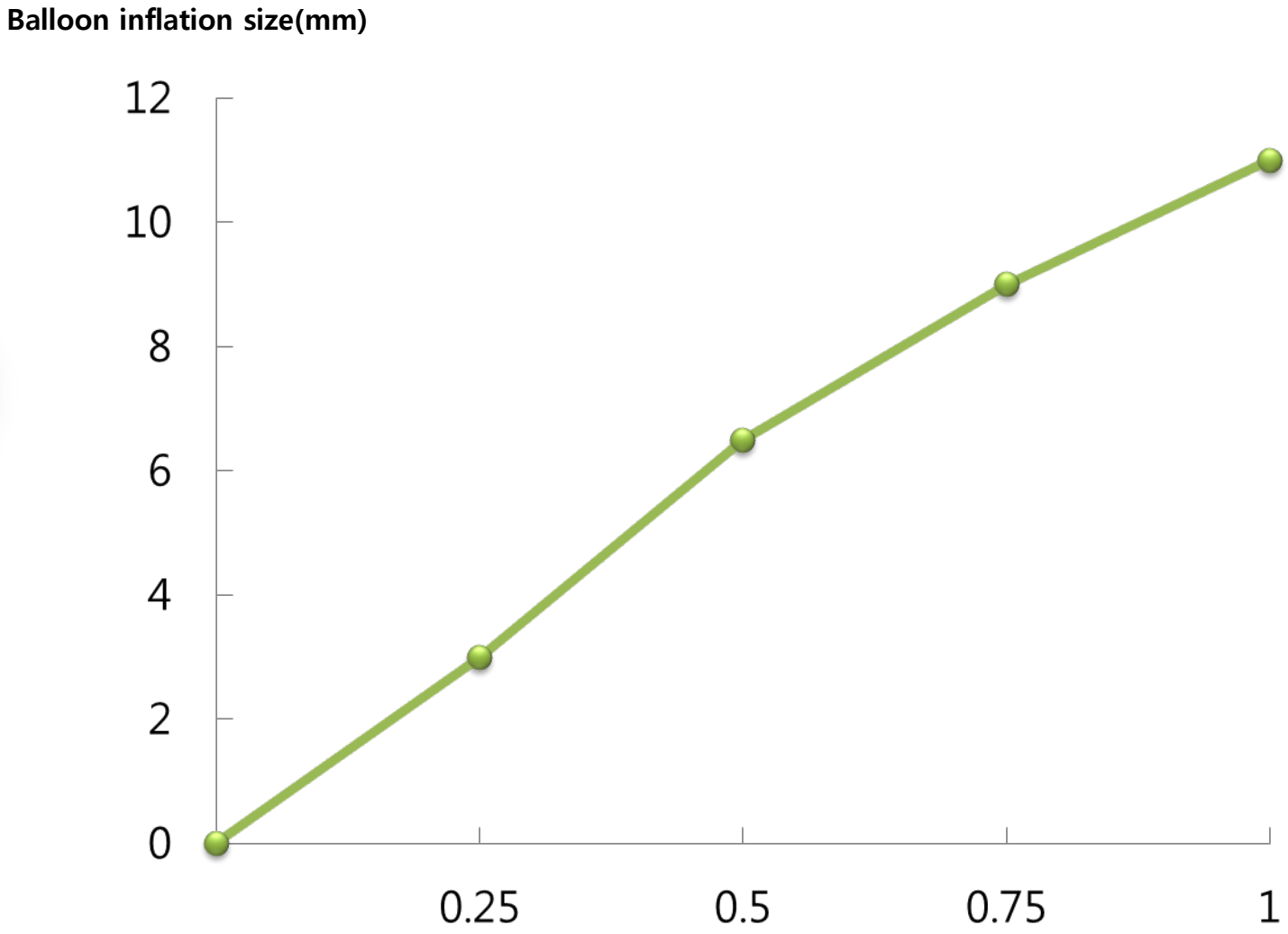

If you want install 8mm fixture in case of 4mm residual bone, 4mm height and 4~6mm horizontal detachment needed.

# Sinus membrane lifting

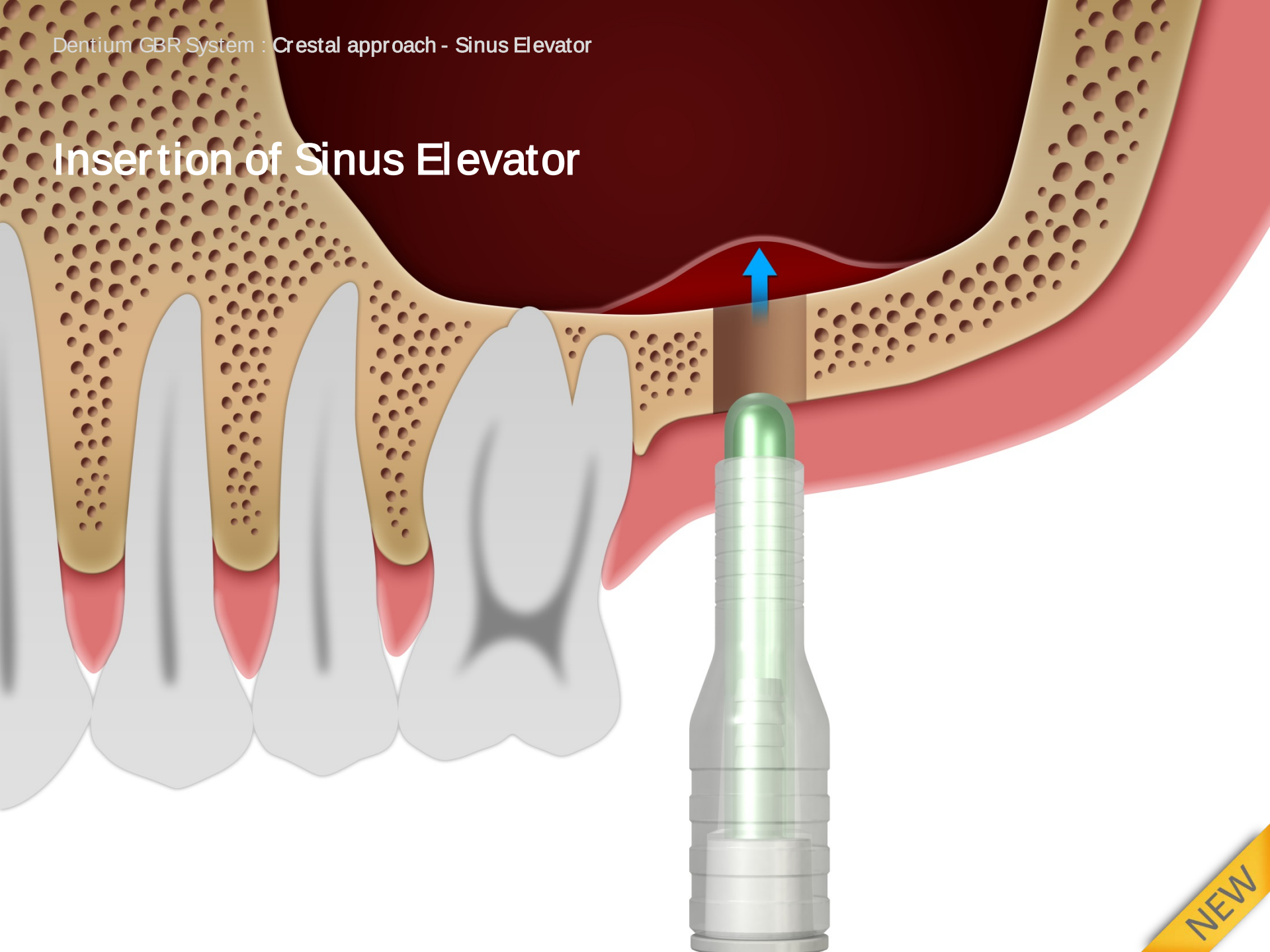



잔존골이 **4mm**일 경우, **8mm Fixture**를 식립할 때

거상 높이가 **4mm**이면, **Horizontal** 방향으로 편측 **4~6mm** 필요

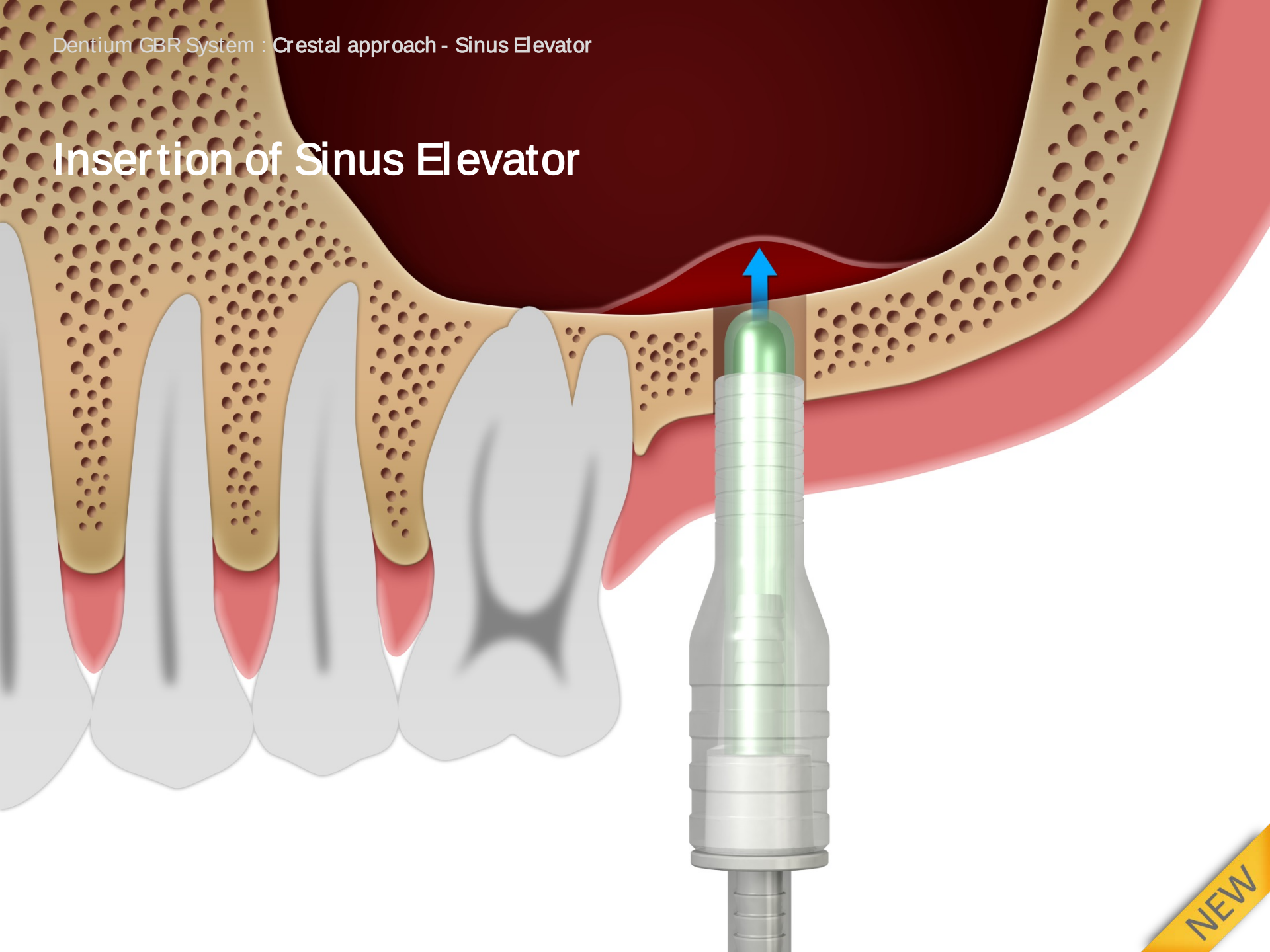

Balloon inflation size(mm)
12
10
8
6
4
2
0
0.25
0.5
0.75
1

# Insertion of Sinus Elevator



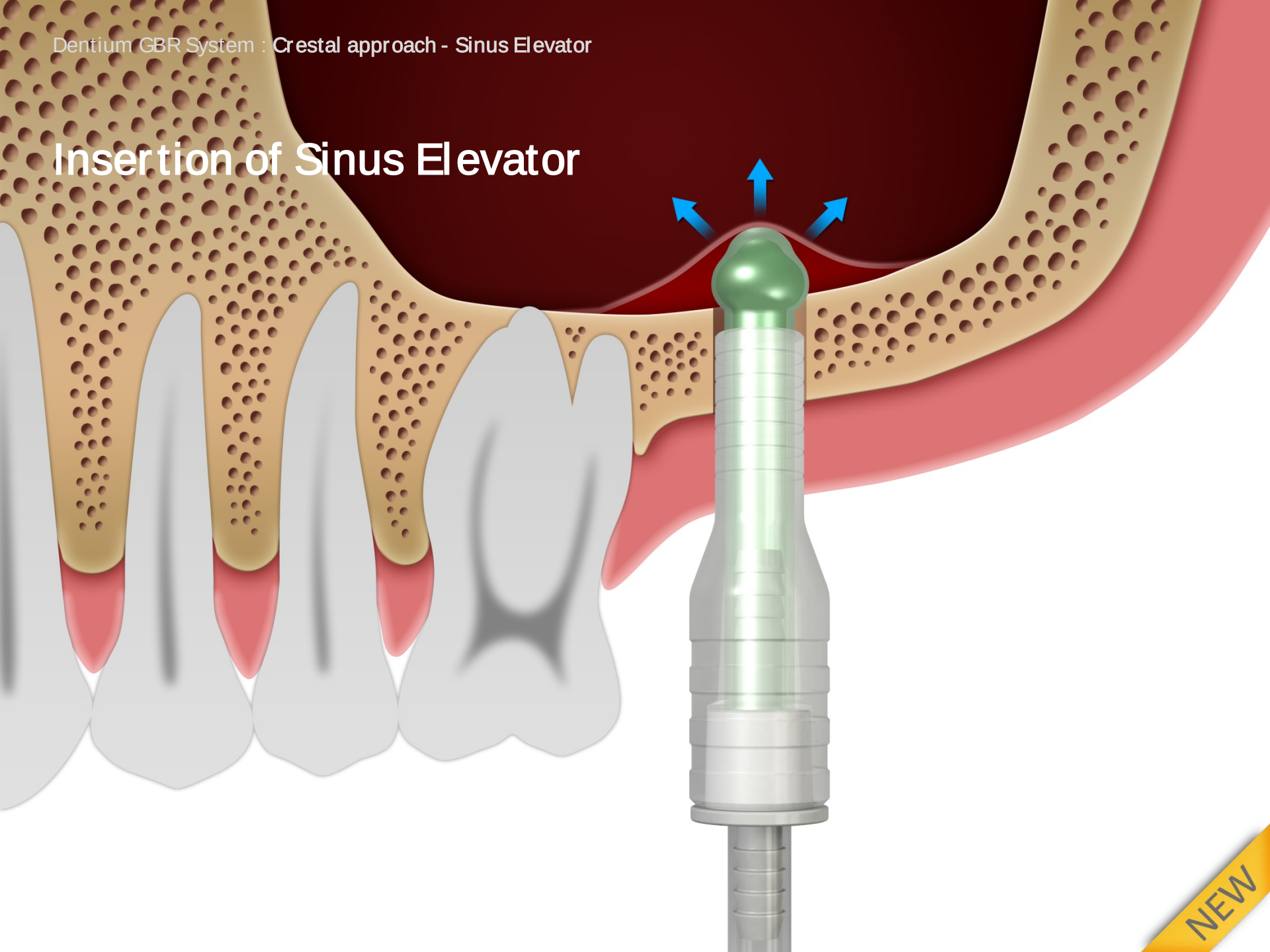
NEW

# Insertion of Sinus Elevator



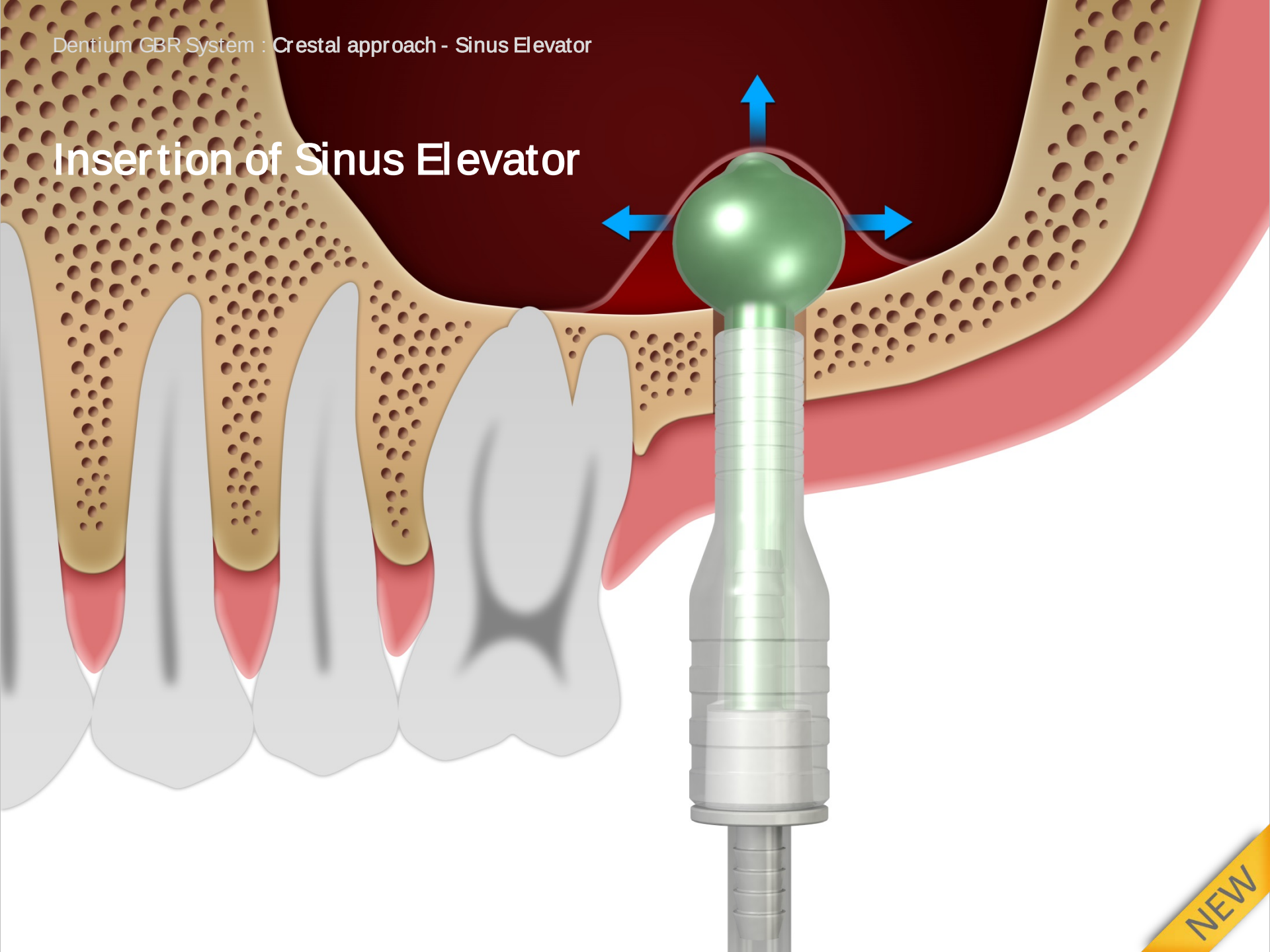
NEW

# Insertion of Sinus Elevator



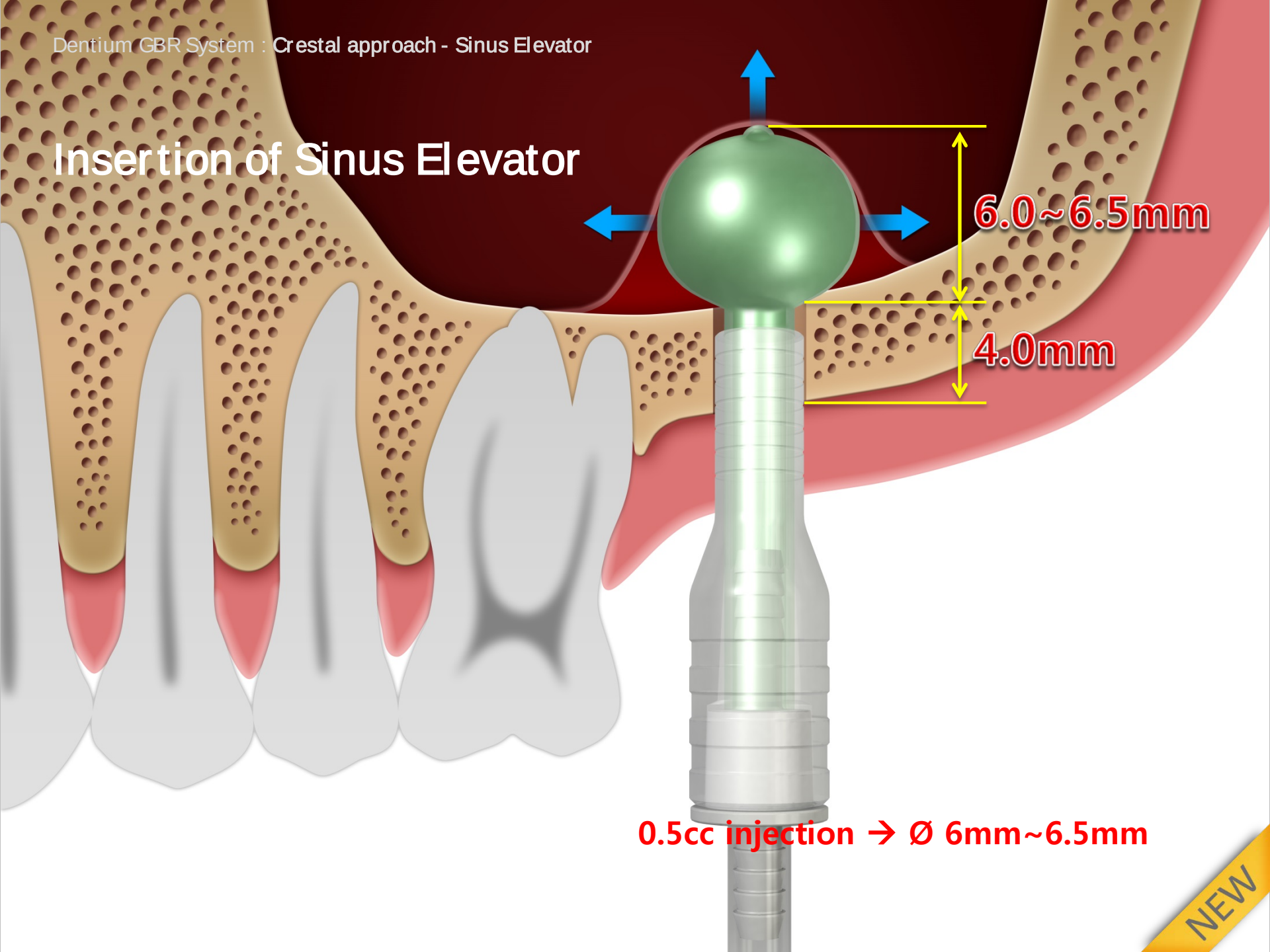
NEW

# Insertion of Sinus Elevator



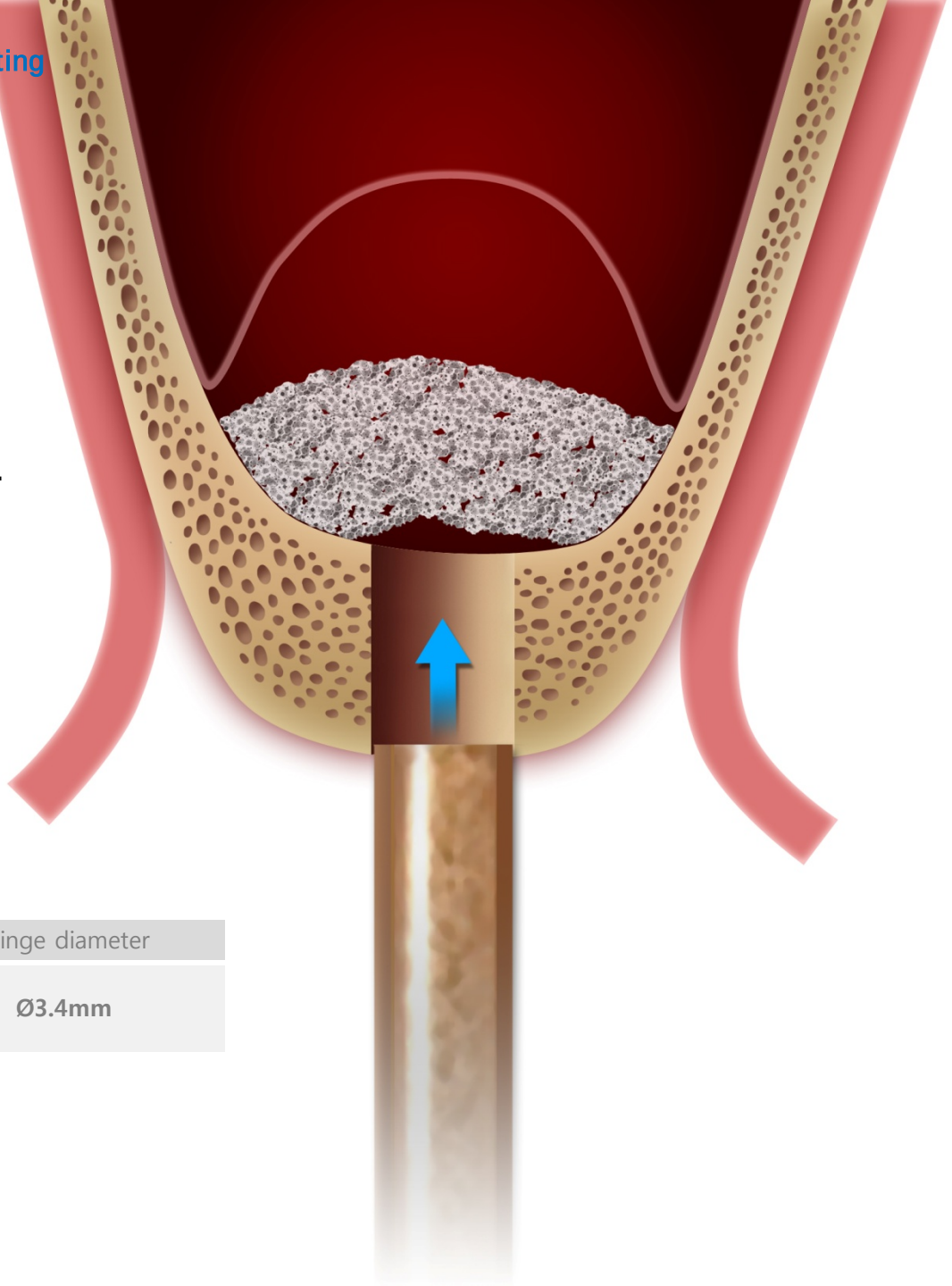
NEW

# Insertion of Sinus Elevator



# Crestal approach (Sinus lifting]

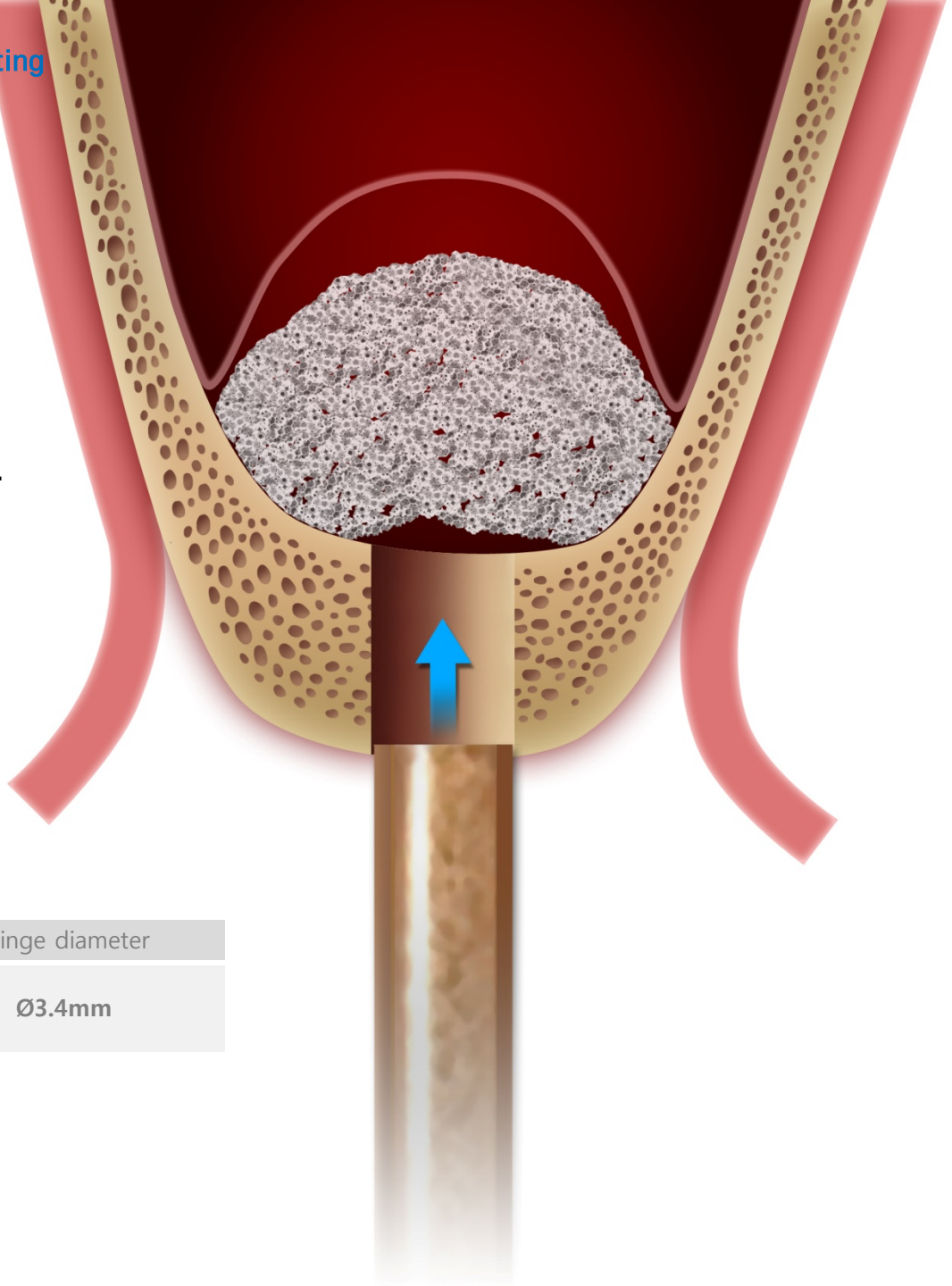
1st surgery
Use [OSTEON™ Lifting] bone graft material.
To fill the sinus through the osteotomy site.



| Product | Syringe diameter | syringe diameter |
|---|---|---|
| OSTEON™ Lifting<br>OSTEON™ II Lifting | **Ø5.0mm** | **Ø3.4mm** |

# Crestal approach (Sinus lifting]

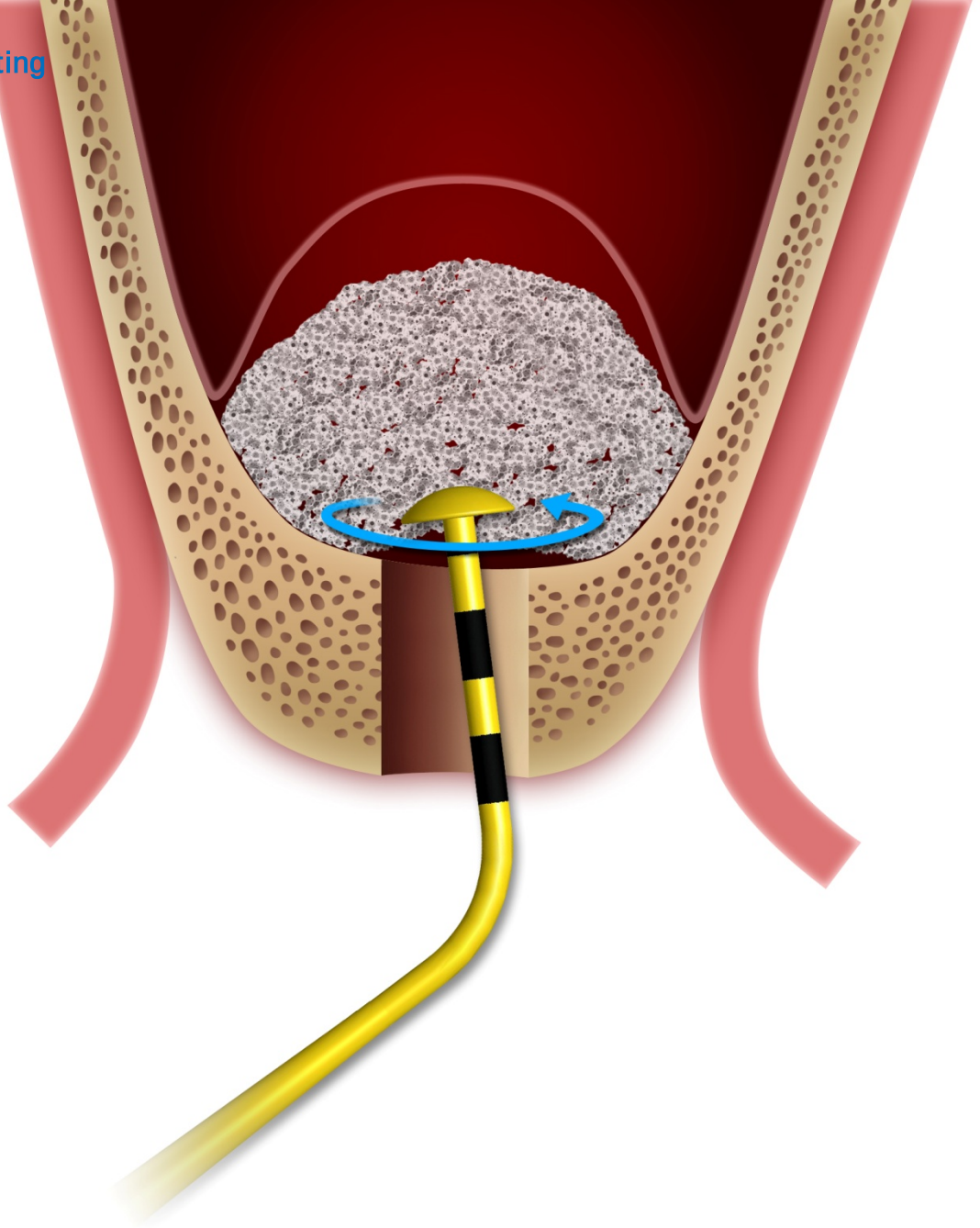
1st surgery
Use [OSTEON™ Lifting] bone graft material.
To fill the sinus through the osteotomy site.



| Product | Syringe diameter | syringe diameter |
|---|---|---|
| OSTEON™ Lifting<br>OSTEON™ II Lifting | **Ø5.0mm** | **Ø3.4mm** |

# Crestal approach (Sinus lifting]

1st surgery
Fill and distribute OSTEON™
properly into the Created space.



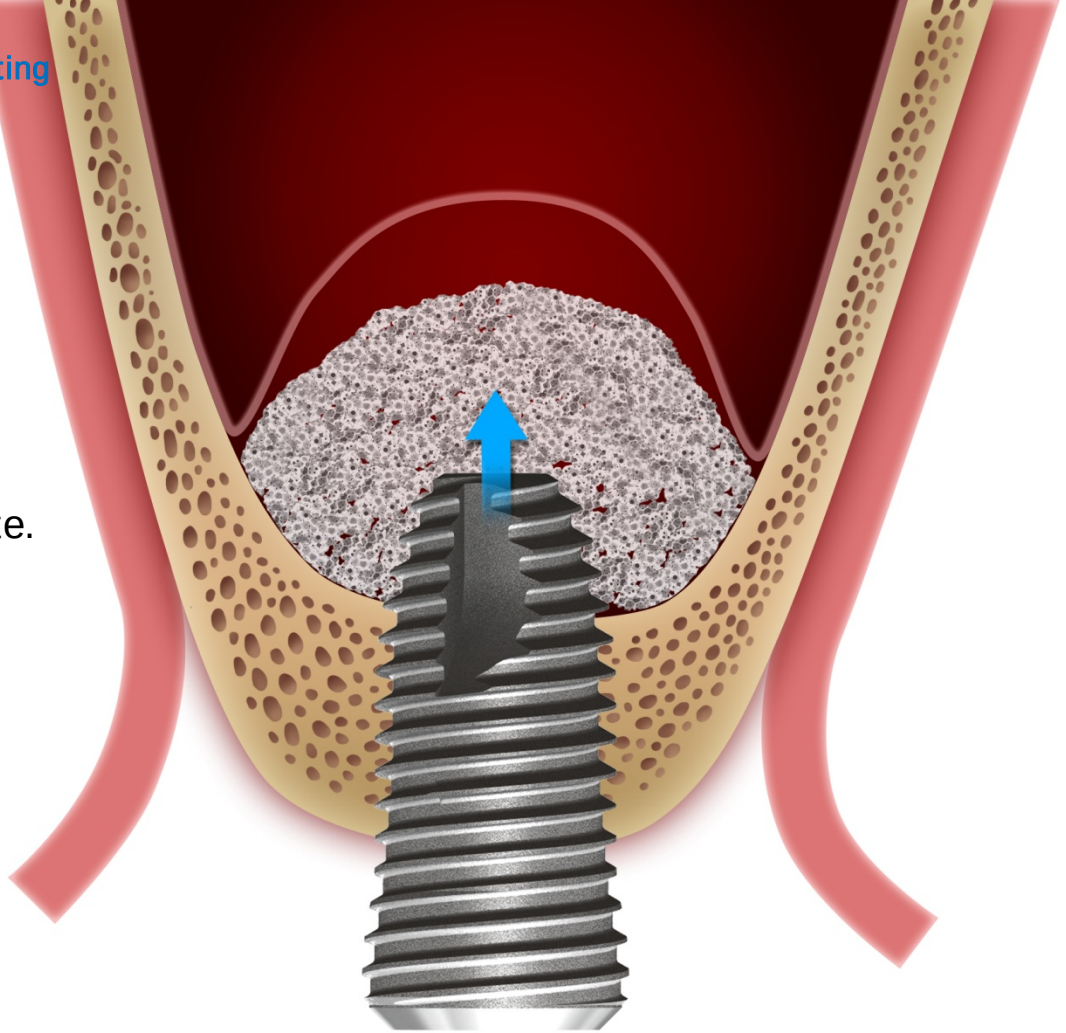
Sinus Elevation Instrument I Scale 1 : 0.45/mm

# Crestal approach (Sinus lifting]

1st surgery

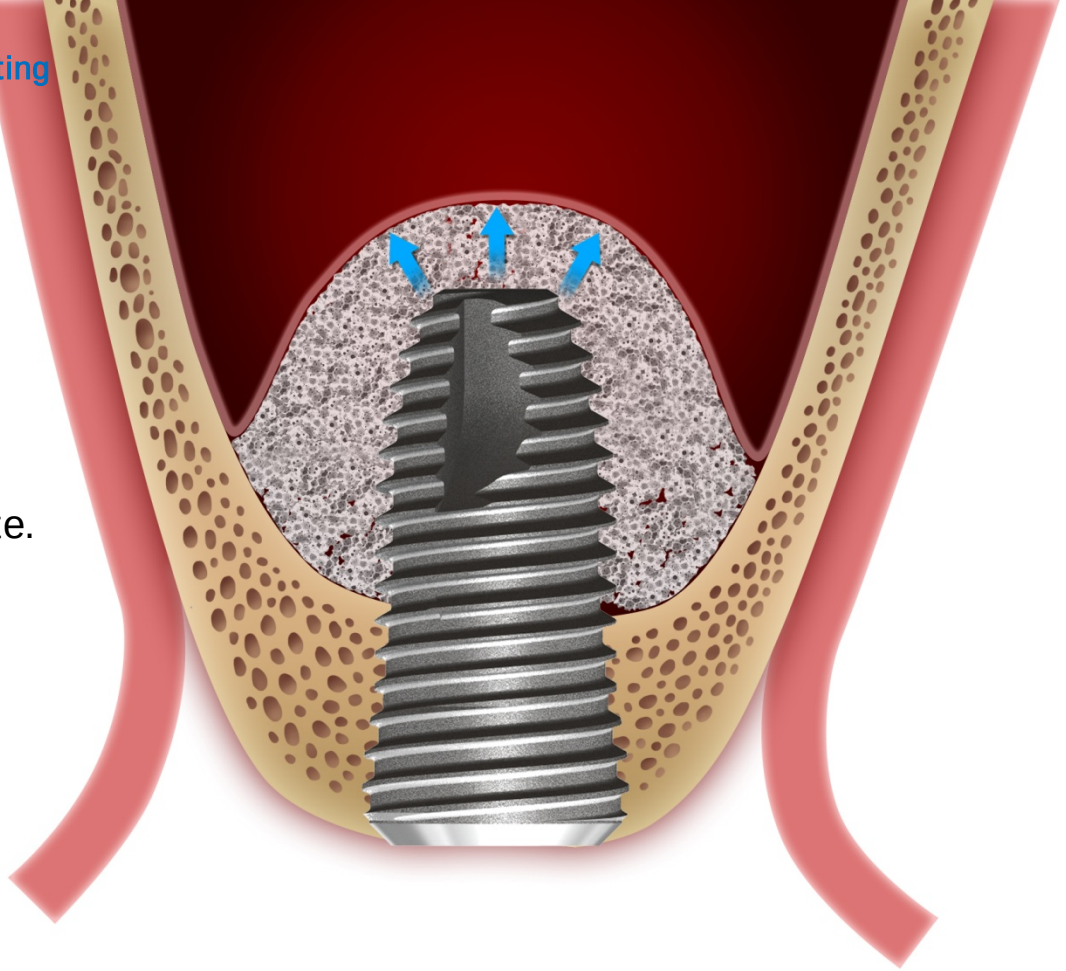
Placement of implant into the osteotomy site.

SuperLine : FX4510



# Crestal approach (Sinus lifting]

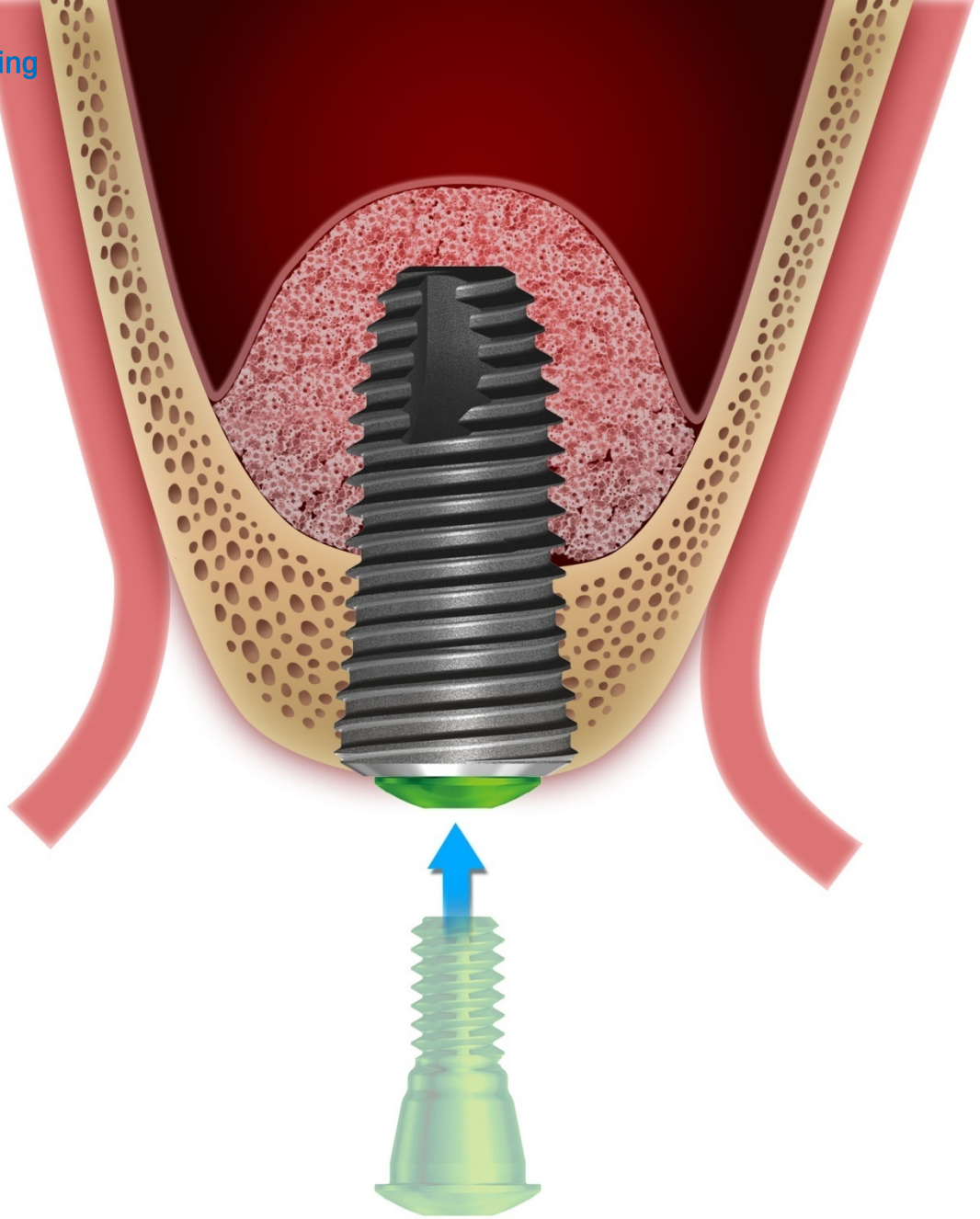
1st surgery
Placement of implant into the osteotomy site.
SuperLine : FX4510



# Cover screw

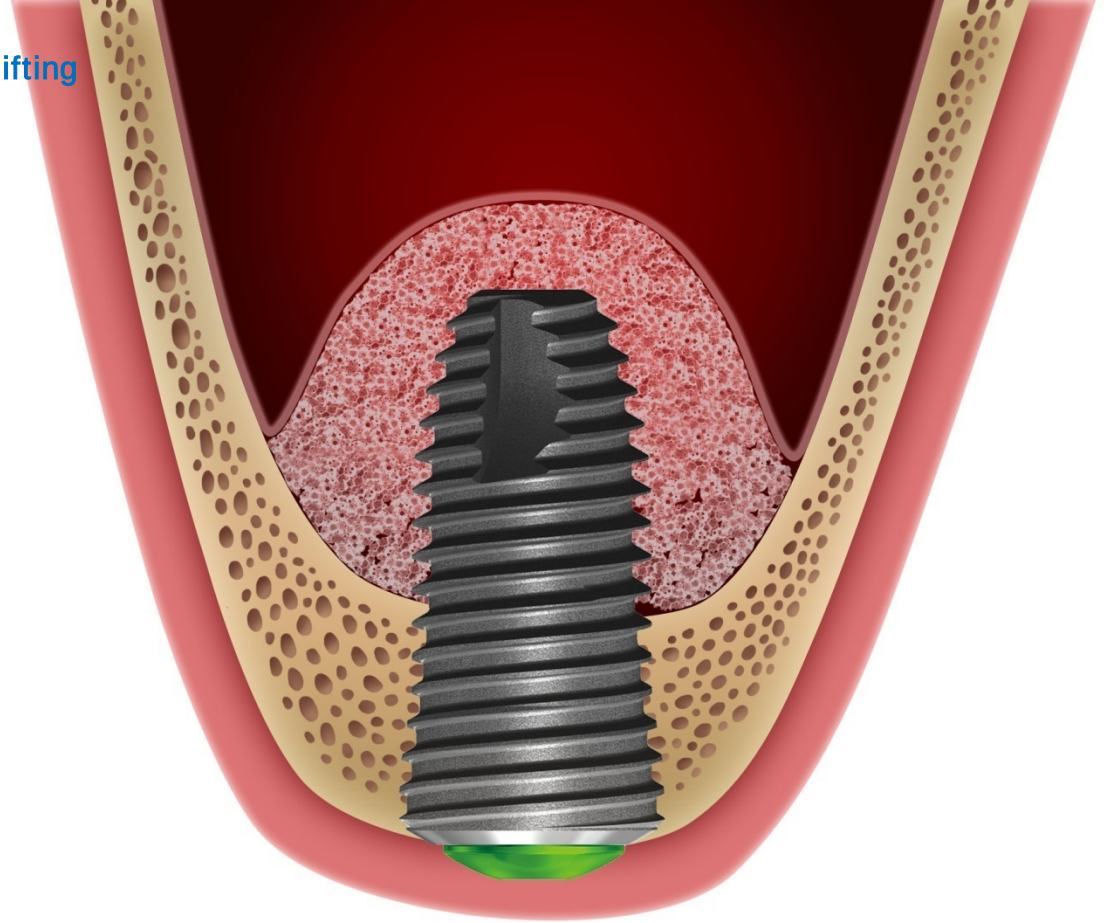
SuperLine : FX4510

Cover screw : CS36



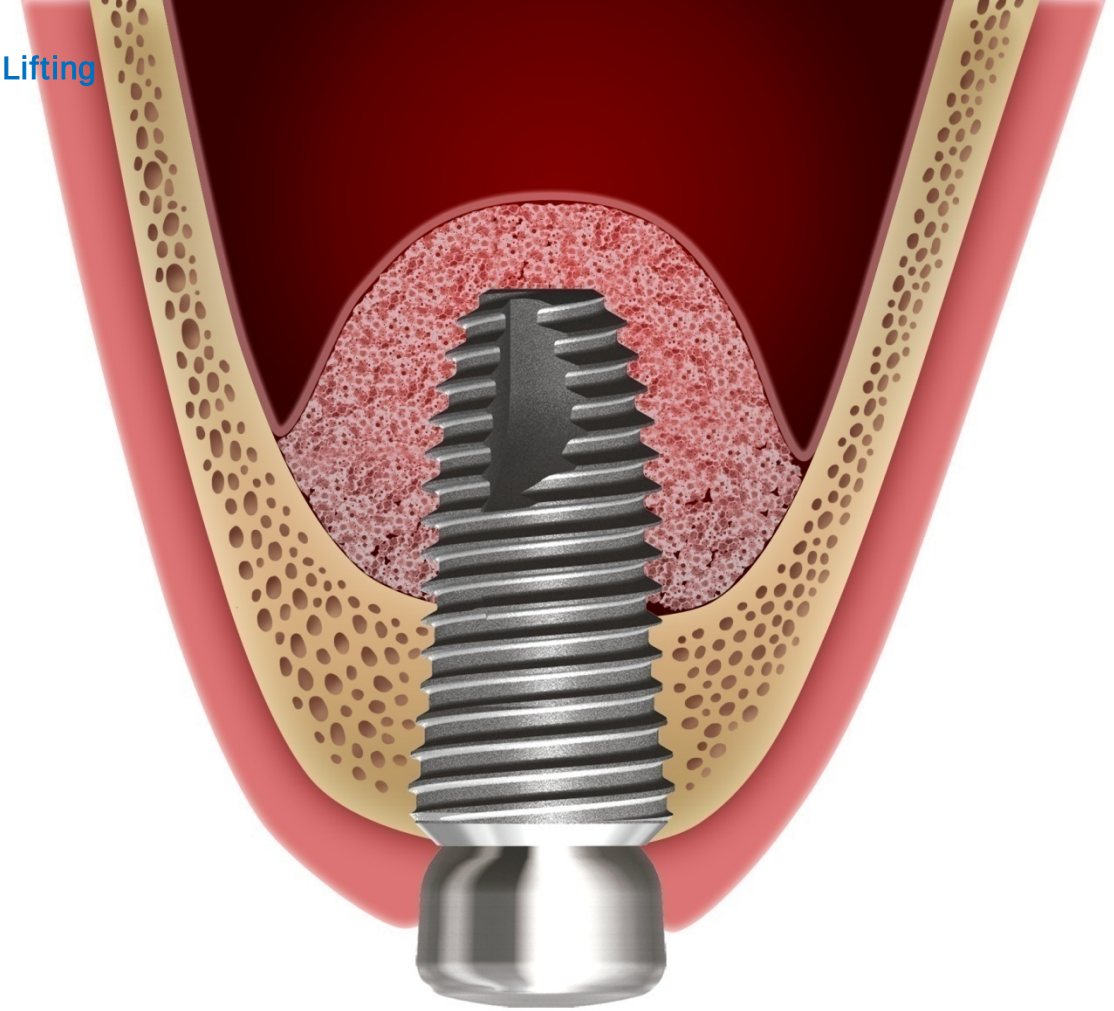
# Suture

SuperLine : FX4510
Cover screw : CS36

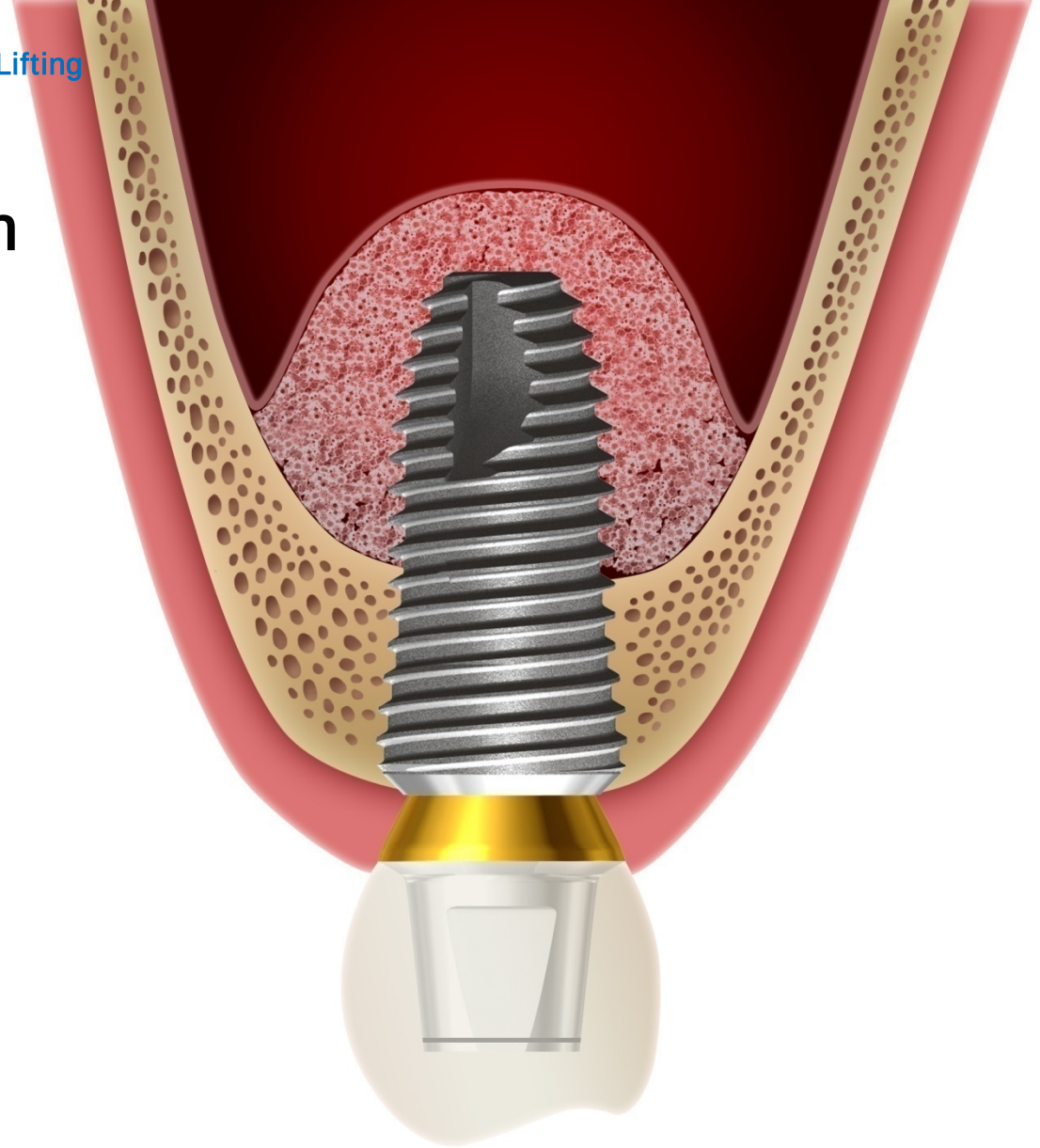


# Healing abutment Connection

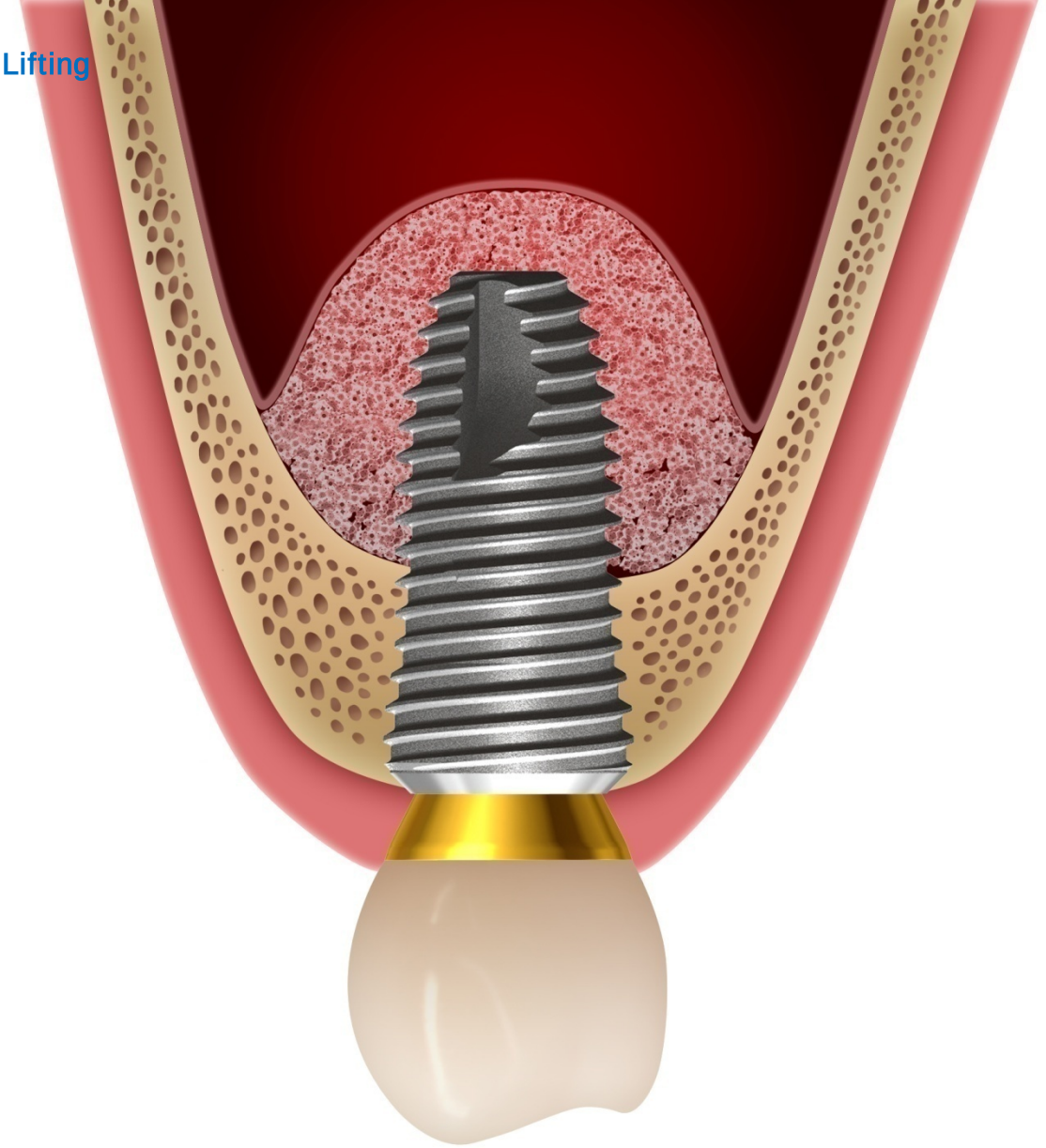
SuperLine : FX4510
Healing Abutment : HAB553050L



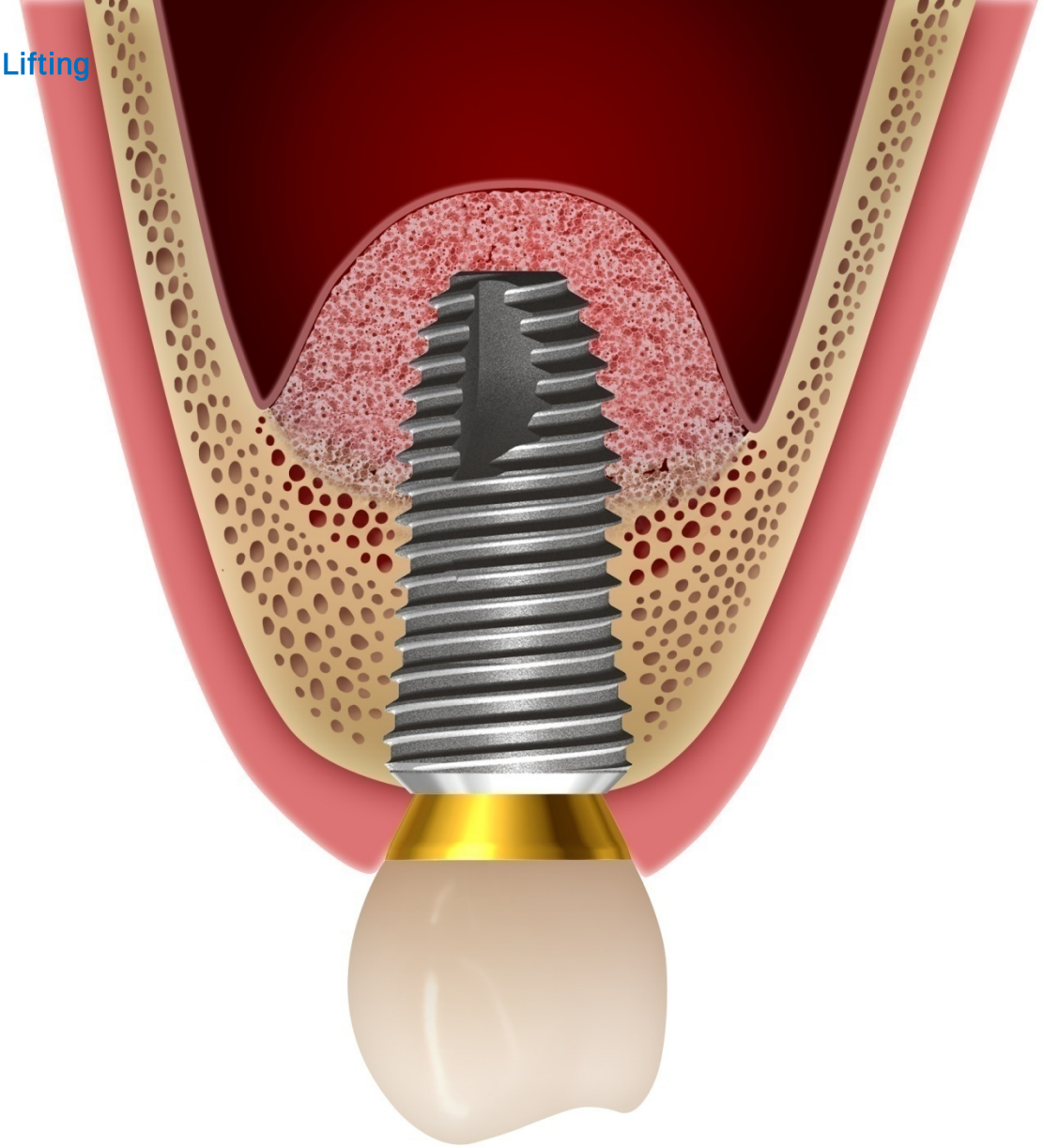
# Gingival Contouring with Provisional restoration



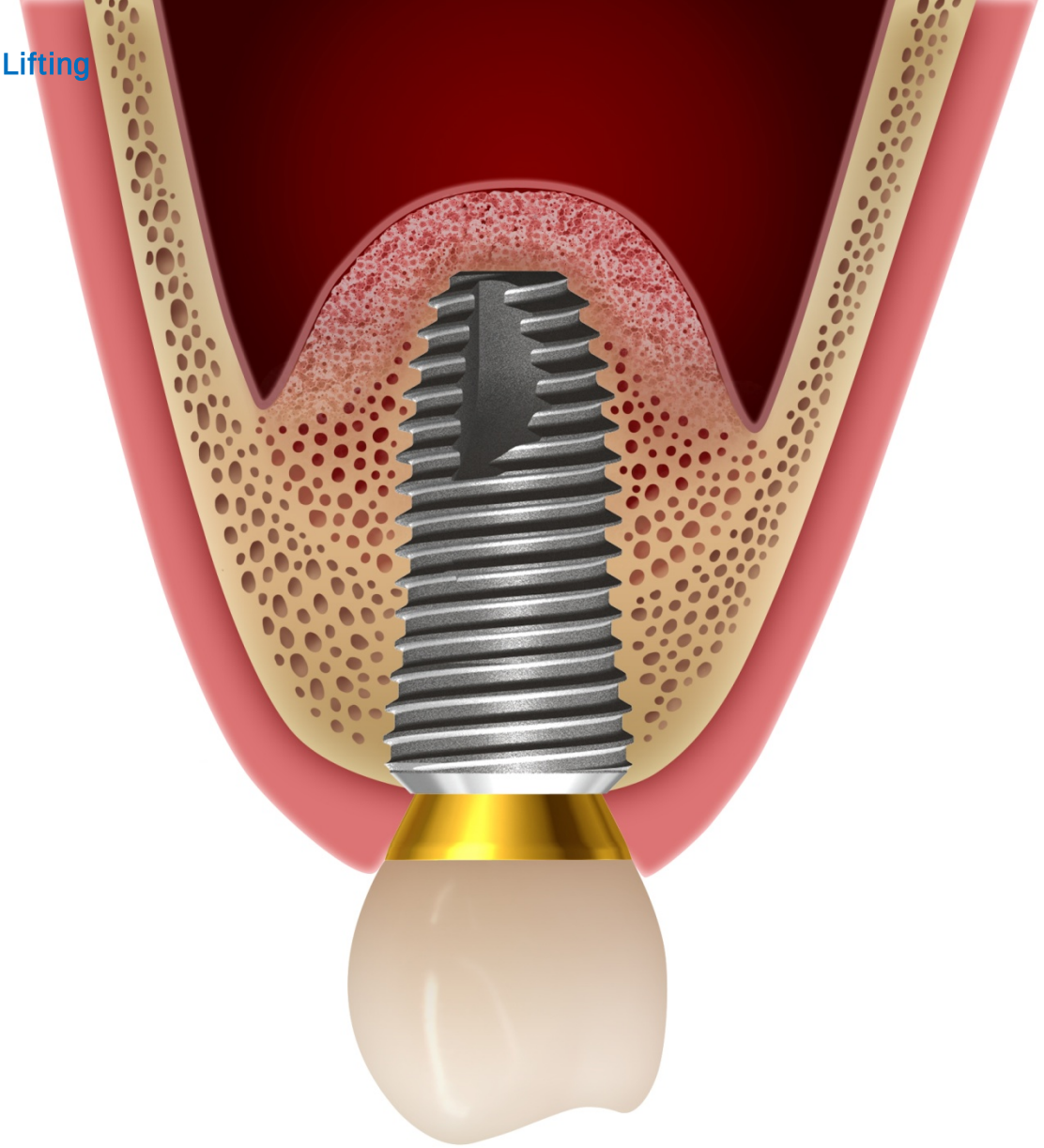
# Final prosthesis



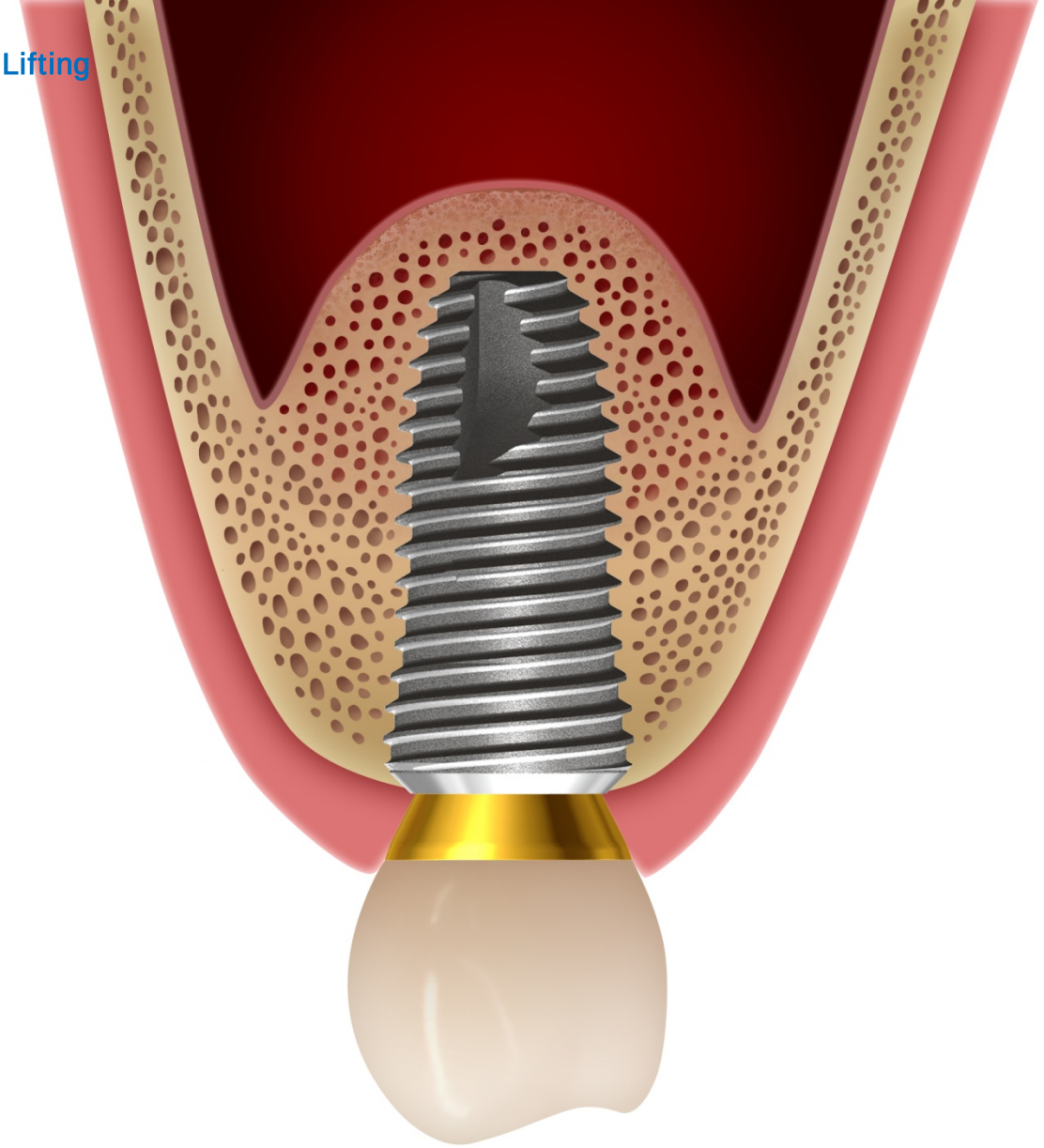
# Final prosthesis



# Final prosthesis



# Final prosthesis



# II
# Lateral approach

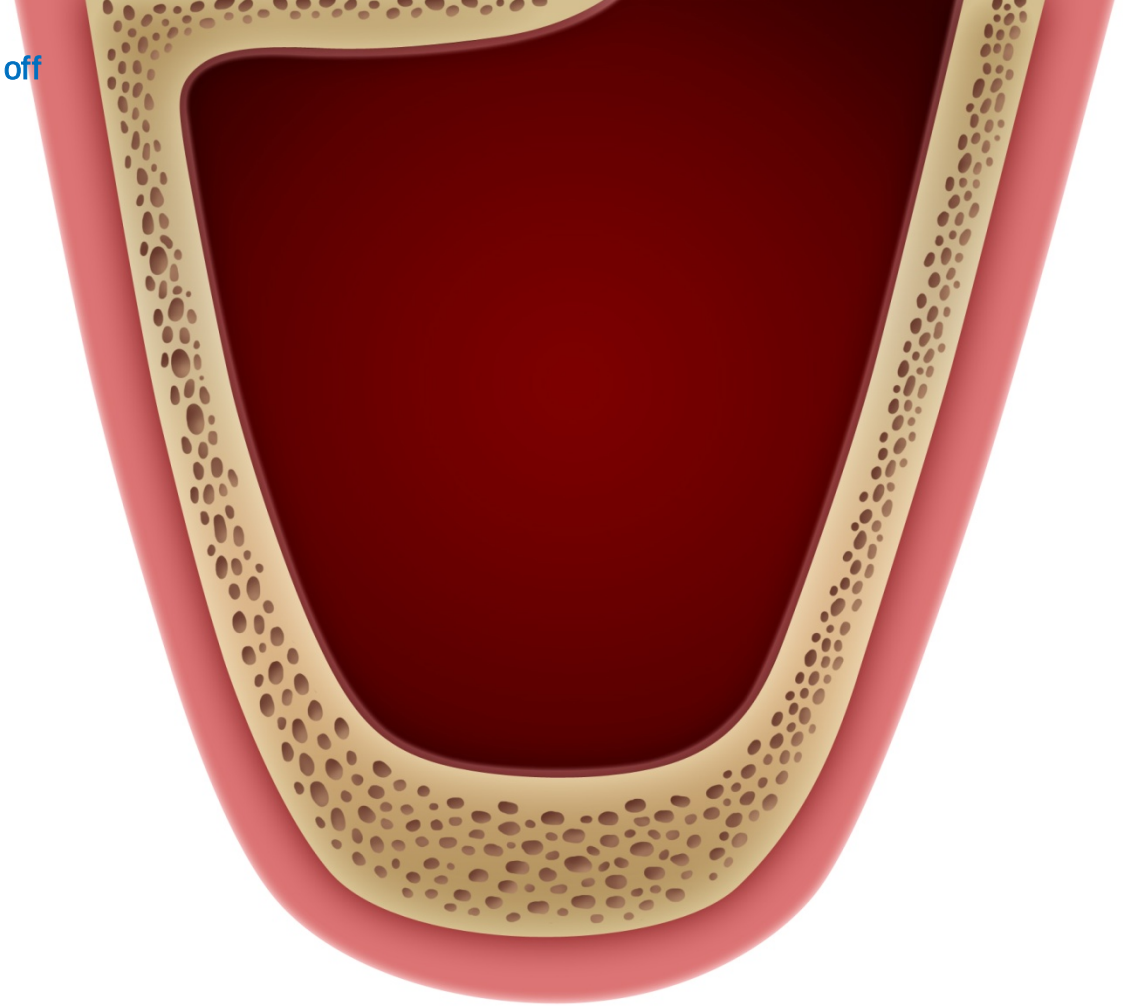
DASK Drill #6

XST083025

NEW

# Lateral approach (Wall-off Technique]

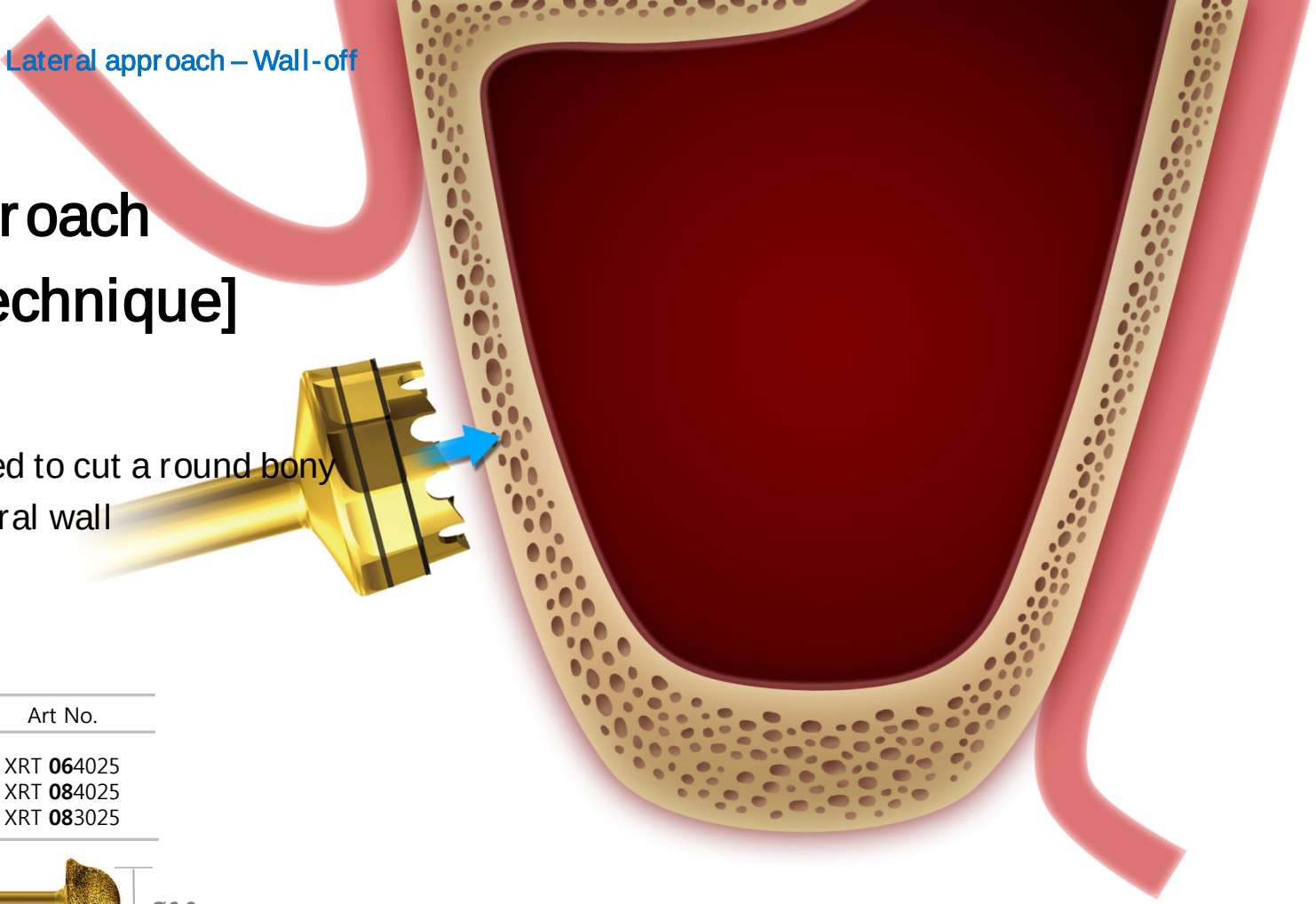
1st surgery



# Lateral approach (Wall-off Technique]

1st surgery
Lateral wall exposed.

# Lateral approach (Wall-off Technique]



1st surgery

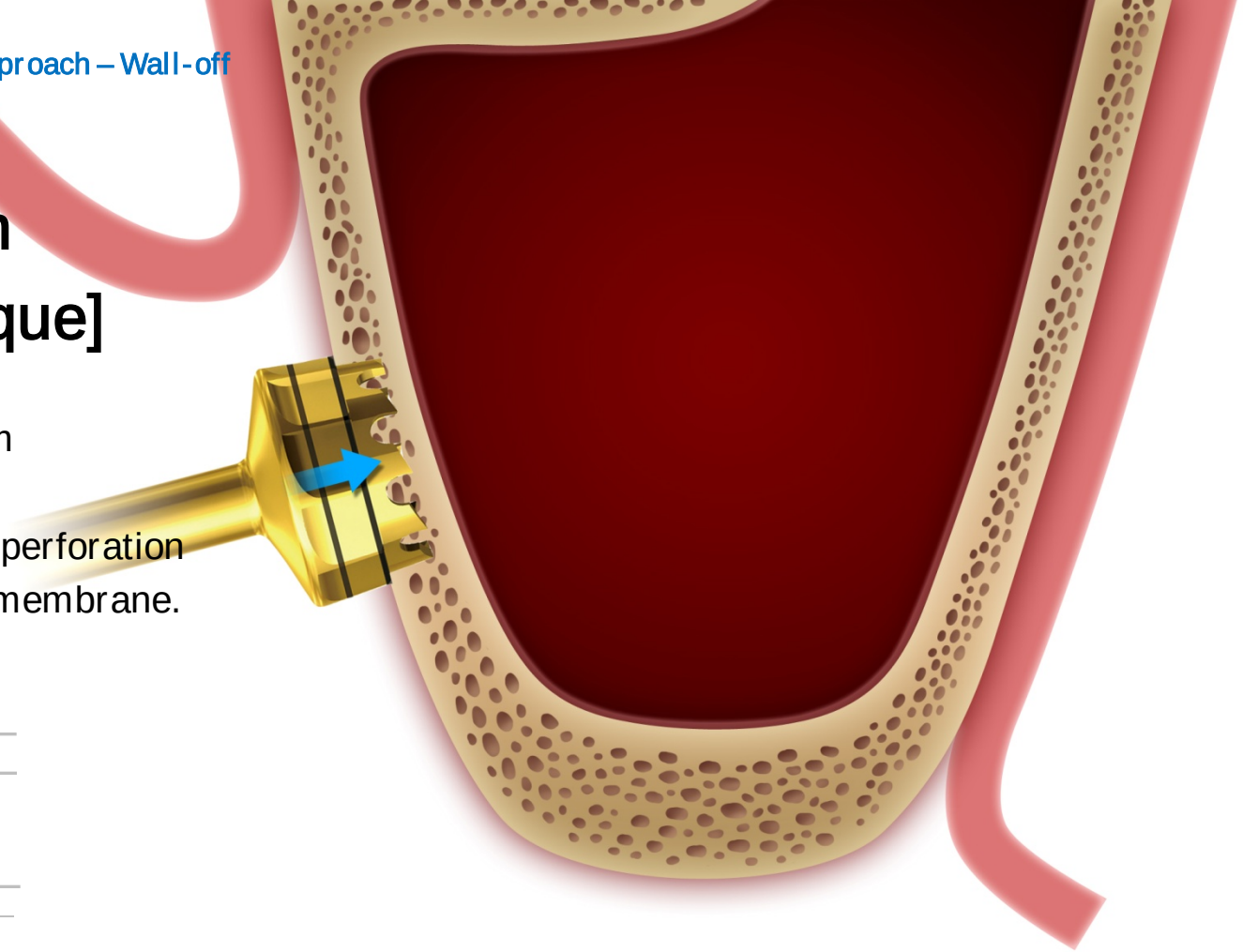
**DASK Drill#6** is used to cut a round bony Island from the lateral wall like a trephine bur.

DASK Drill

| Type | DASK Drill # | Art No. |
|---|---|---|
| Lateral Approach | DASK Drill #4 | XRT **06**4025 |
| | DASK Drill #5 | XRT **08**4025 |
| | DASK Drillv #6 | XRT **08**3025 |

# Lateral approach (Wall-off Technique]

The first laser mark is 1.5mm and the second is 3.0mm. Overdrilling can cause sinus perforation and possible damage to the membrane.

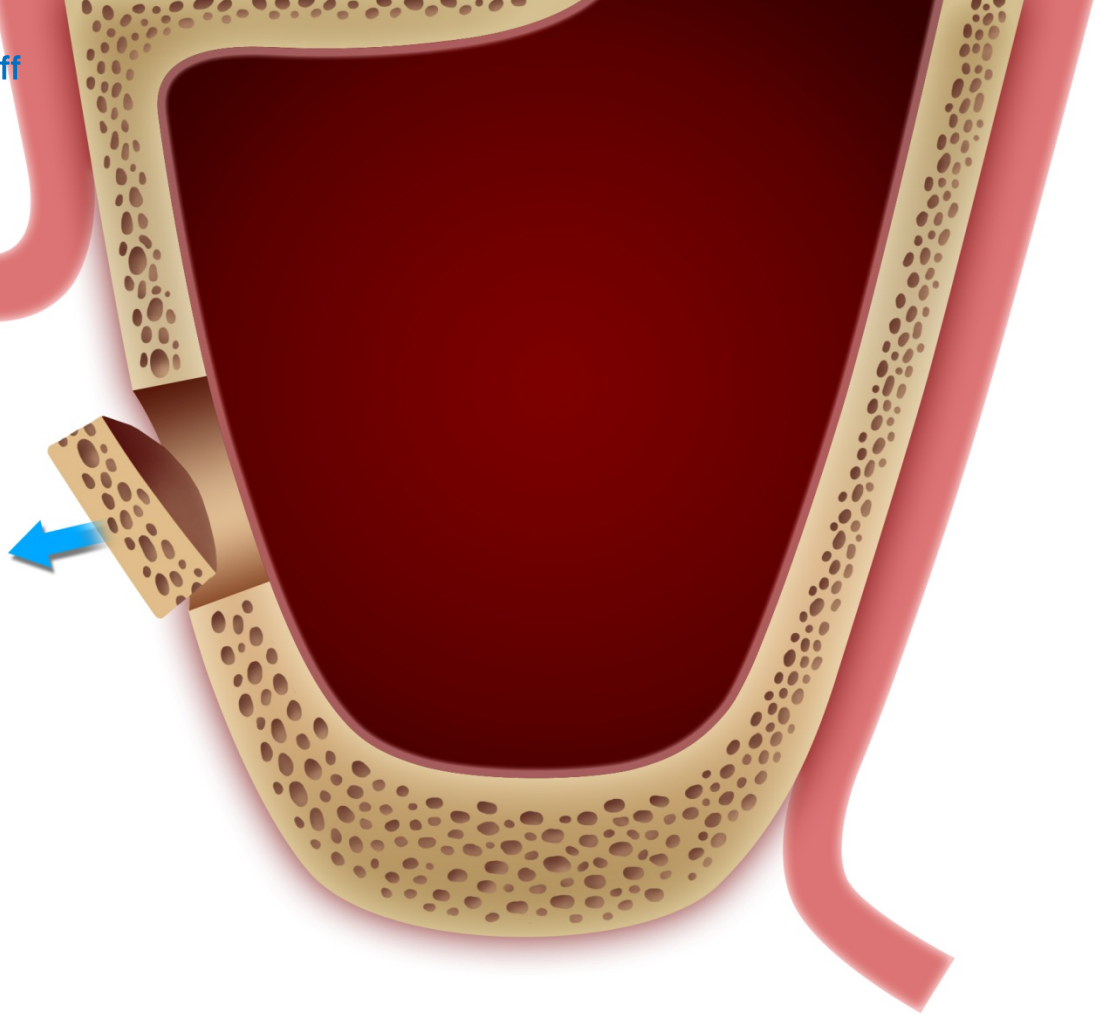


DASK Drill

| Type | DASK Drill # | Art No. |
|---|---|---|
| Lateral Approach | DASK Drill #4<br>DASK Drill #5<br>DASK Drillv #6 | XRT **06**4025<br>XRT **08**4025<br>XRT **08**3025 |

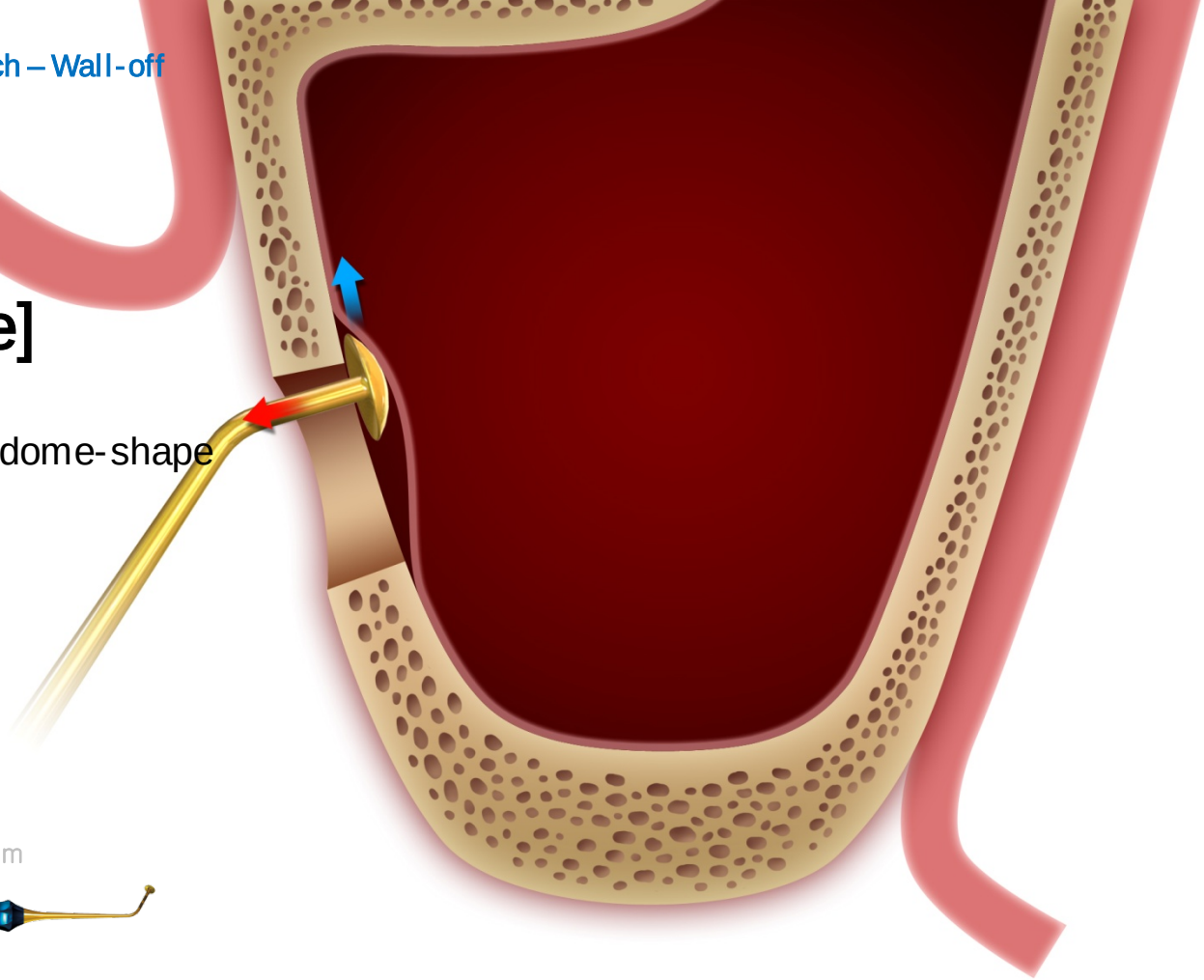
# Lateral osteotome application

The maxillary sinus is opened via a Lateral window.



# Lateral approach (Wall-off Technique]

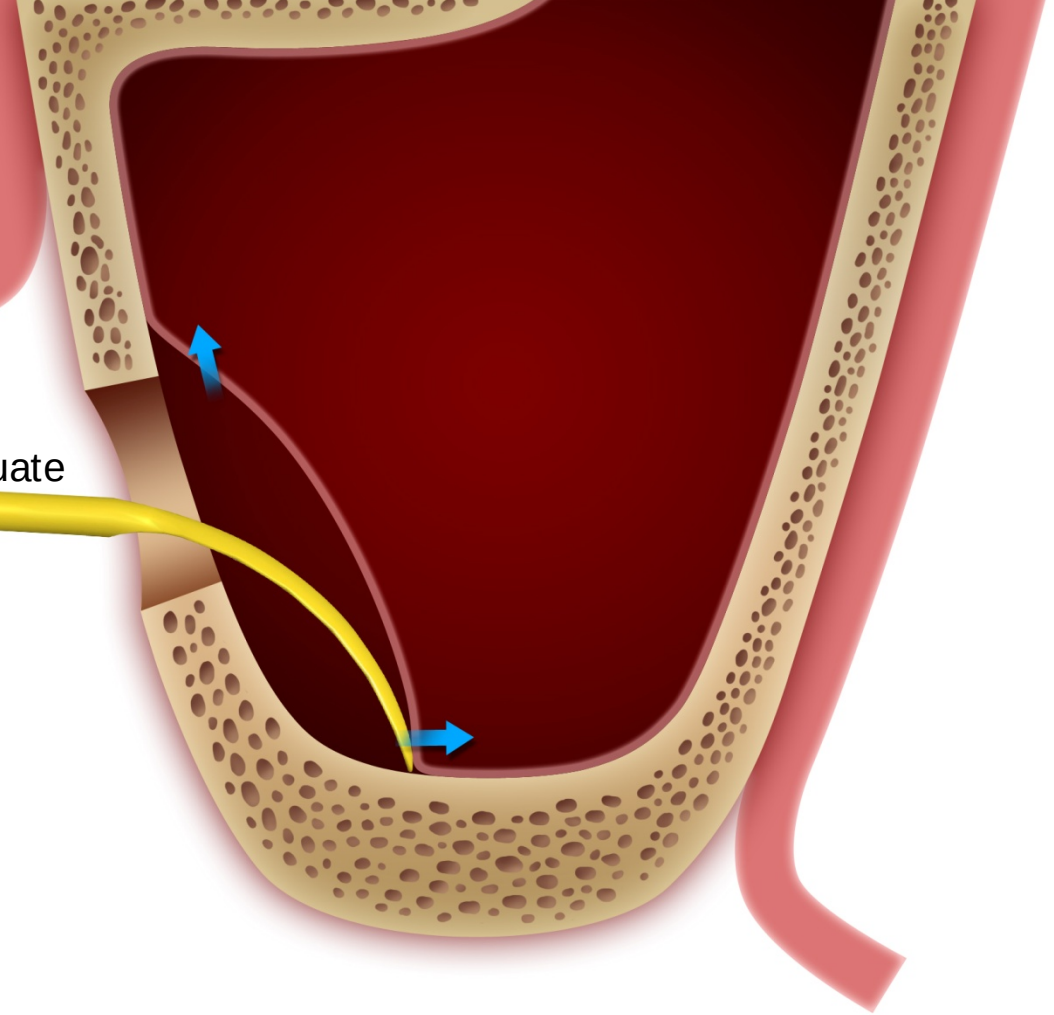
Detach sinus membrane using a dome-shape Sinus curette,



Sinus Elevation Instrument I Scale 1 : 0.45/mm

# Lateral approach (Wall-off Technique]

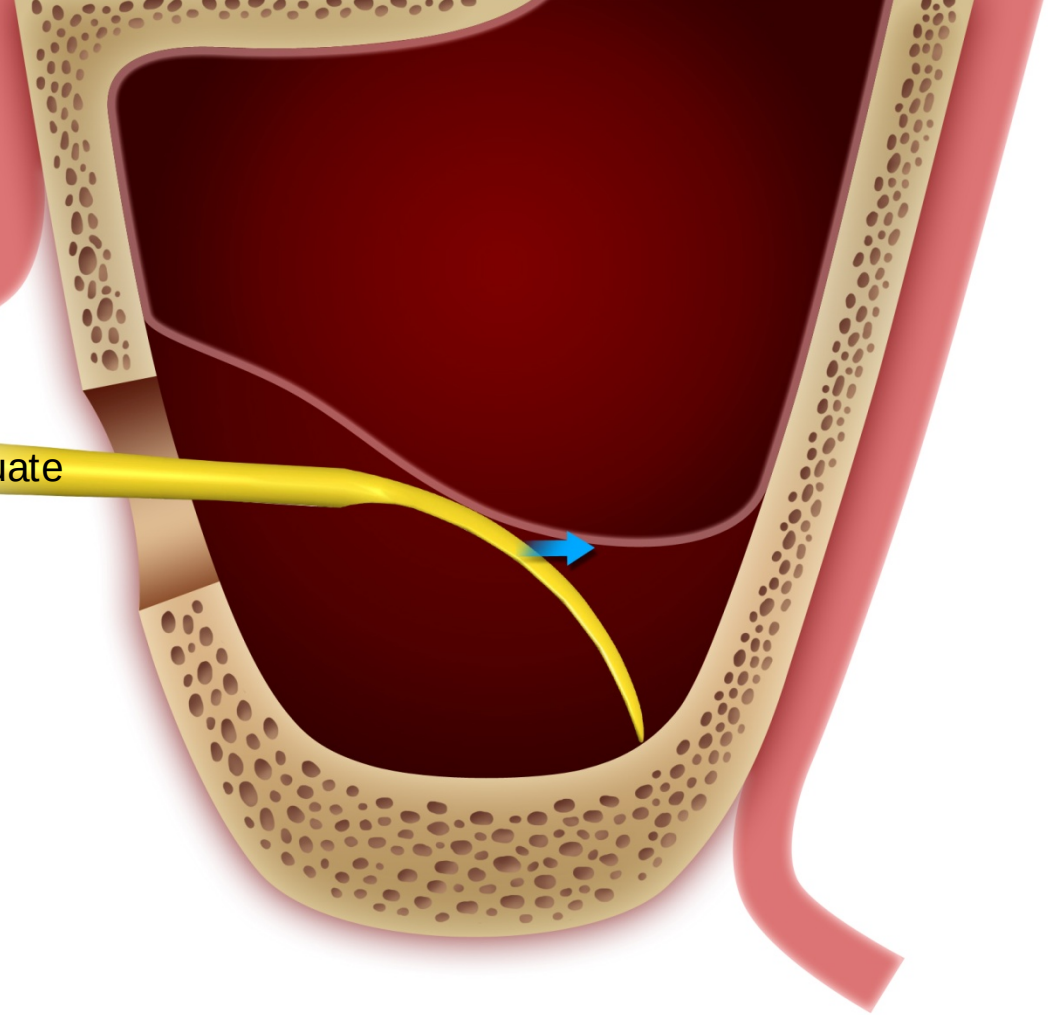
Elevate the sinus membrane to create adequate Space for graft material.



Sinus Elevation Instrument I Scale 1 : 0.45/mm

# Lateral approach (Wall-off Technique]

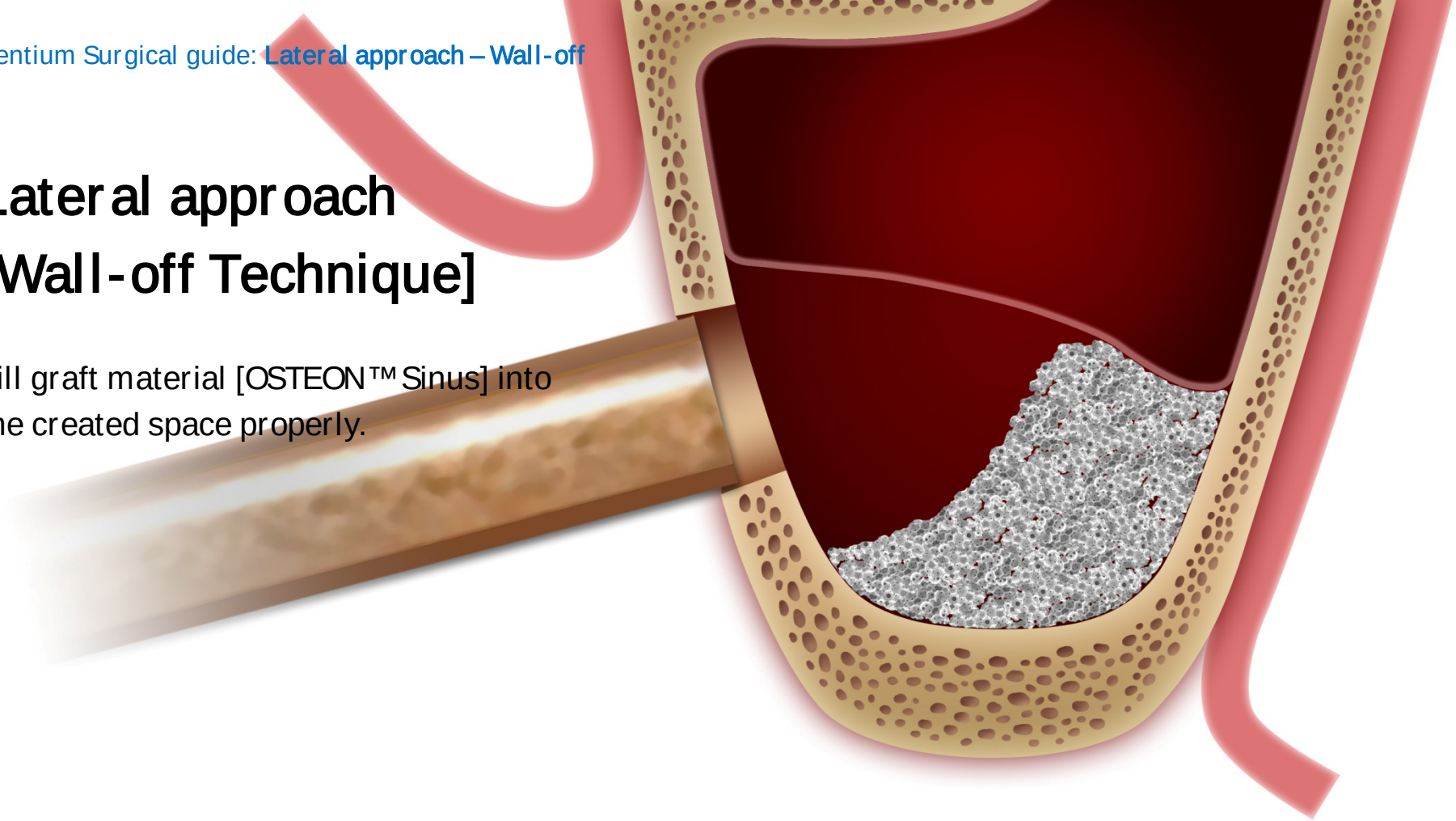
Elevate the sinus membrane to create adequate Space for graft material.



Sinus Elevation Instrument I Scale 1 : 0.45/mm

# Lateral approach (Wall-off Technique]

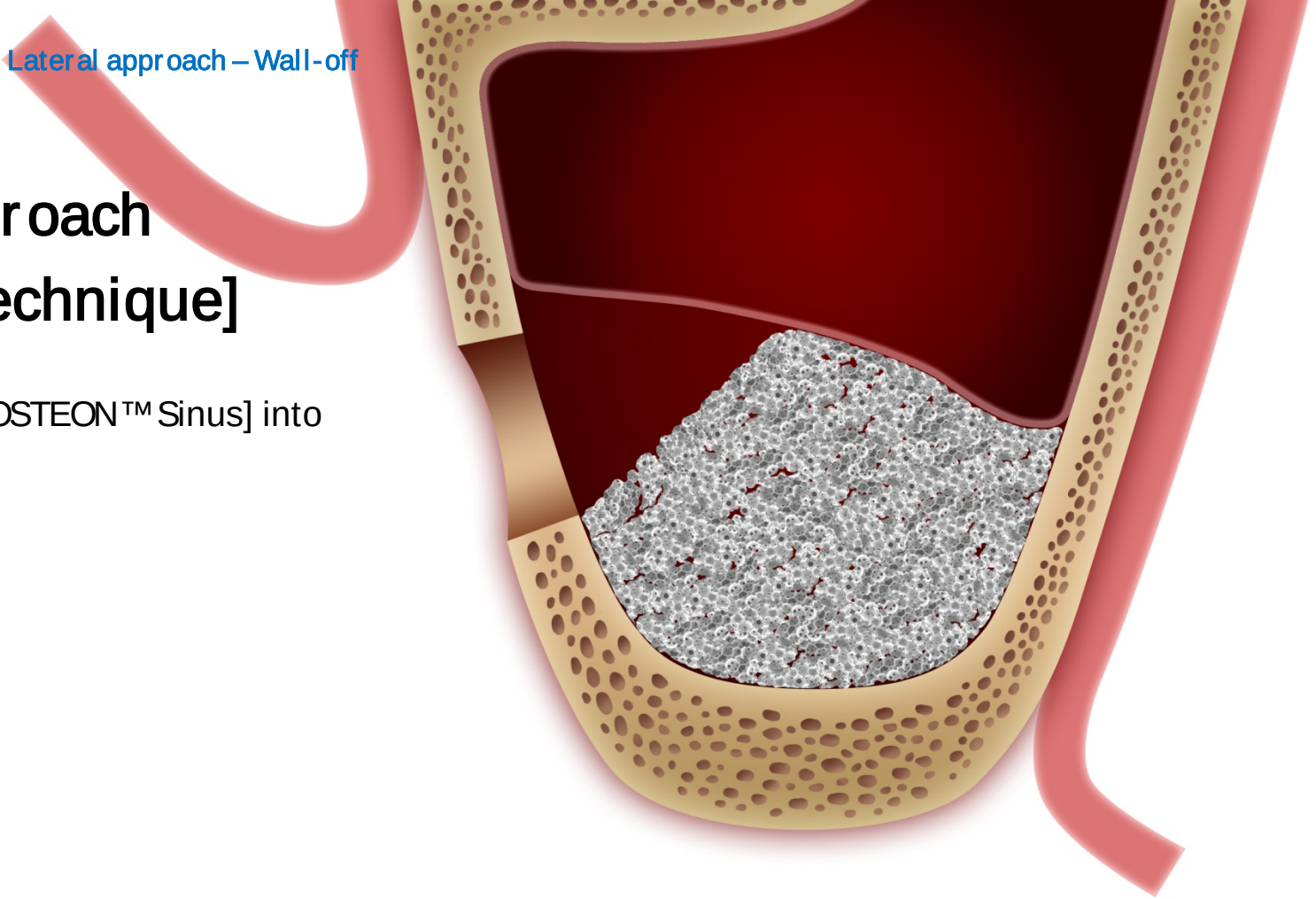
Fill graft material [OSTEON™ Sinus] into the created space properly.



| Product | Syringe diameter | syringe diameter |
|---|---|---|
| OSTEON™ Sinus<br>OSTEON™ II Sinus | **Ø7.0mm** | **Ø5.0mm** |

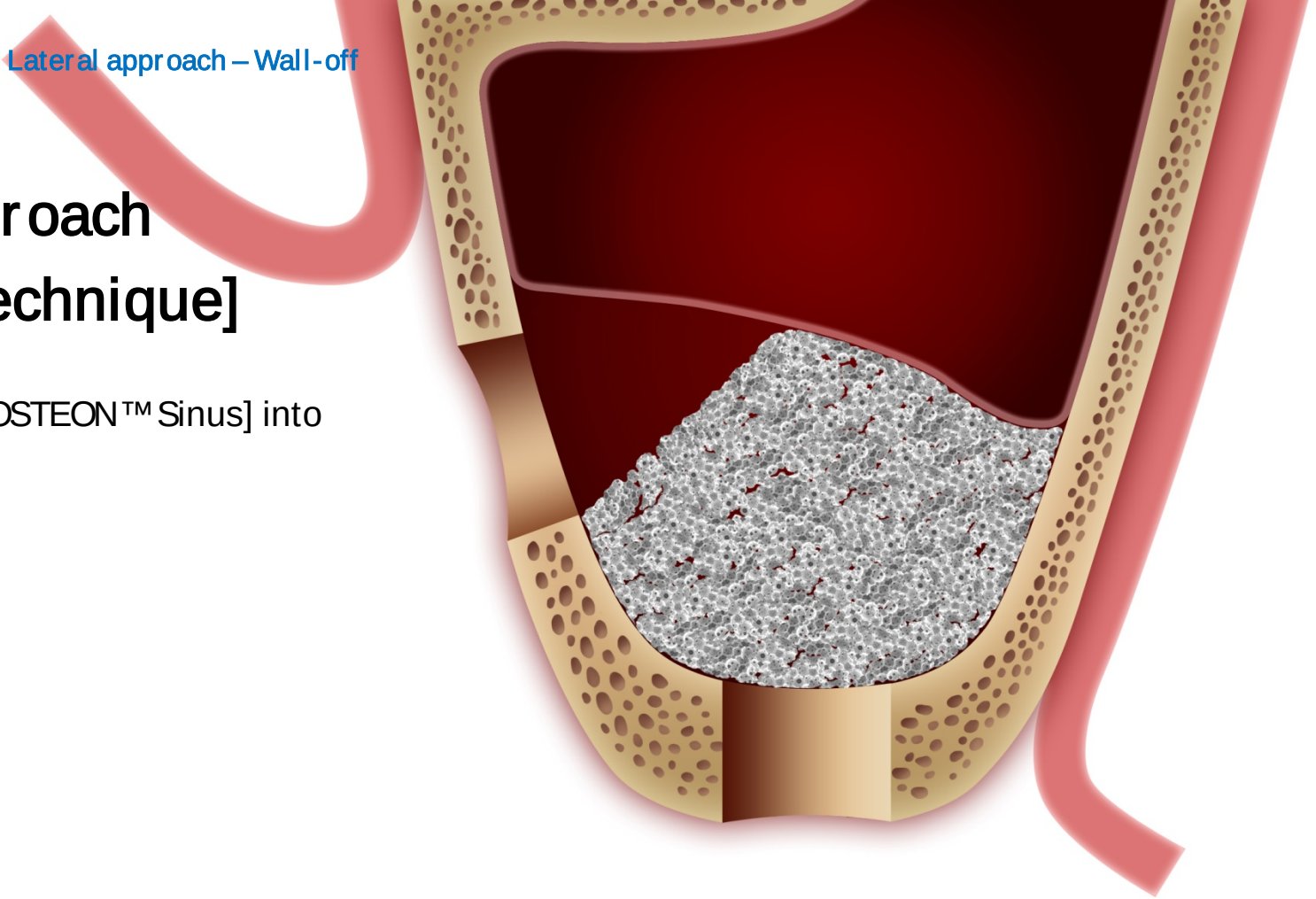
# Lateral approach (Wall-off Technique]

Fill graft material [OSTEON™ Sinus] into the created space.



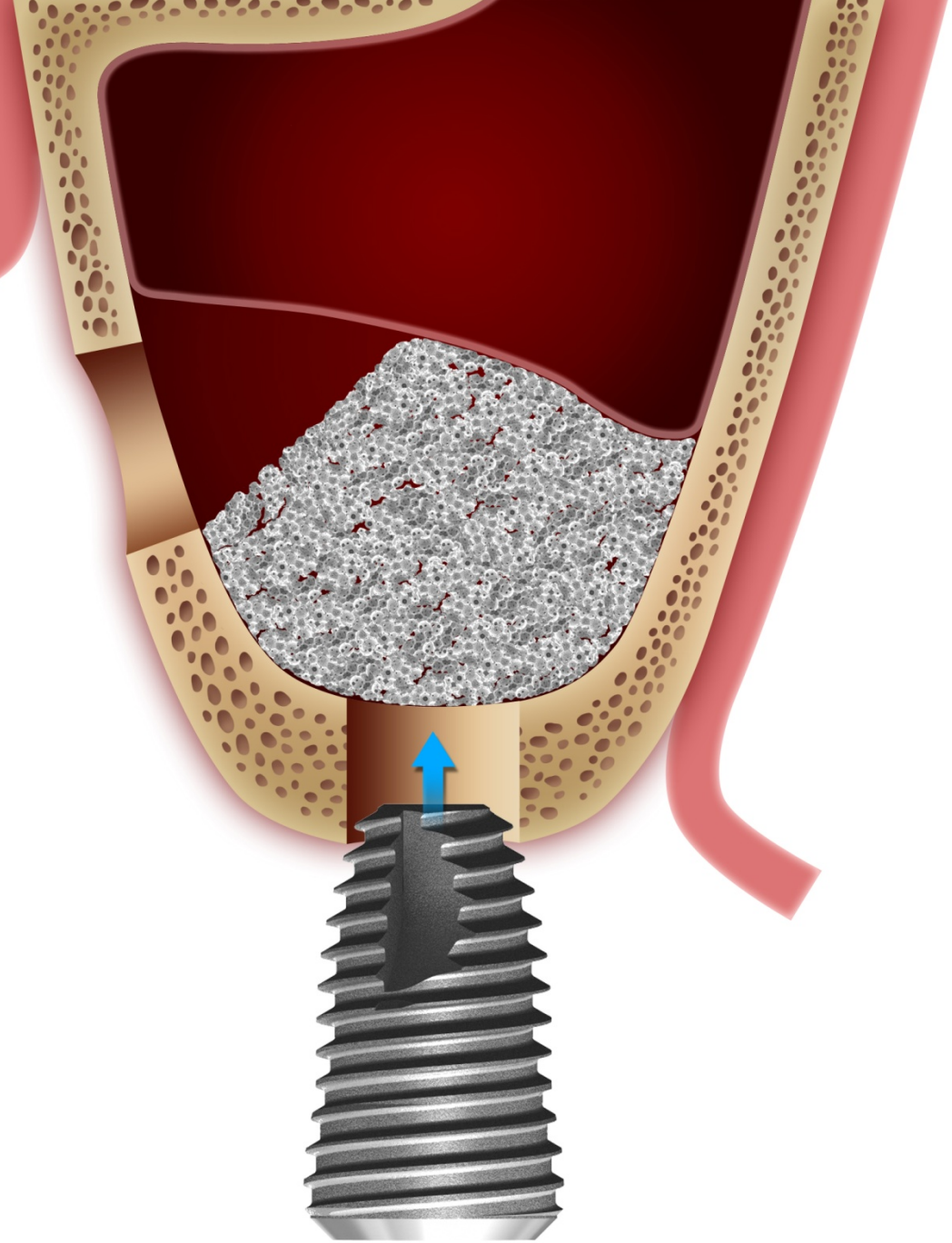
# Lateral approach (Wall-off Technique]

Fill graft material [OSTEON™ Sinus] into the created space.



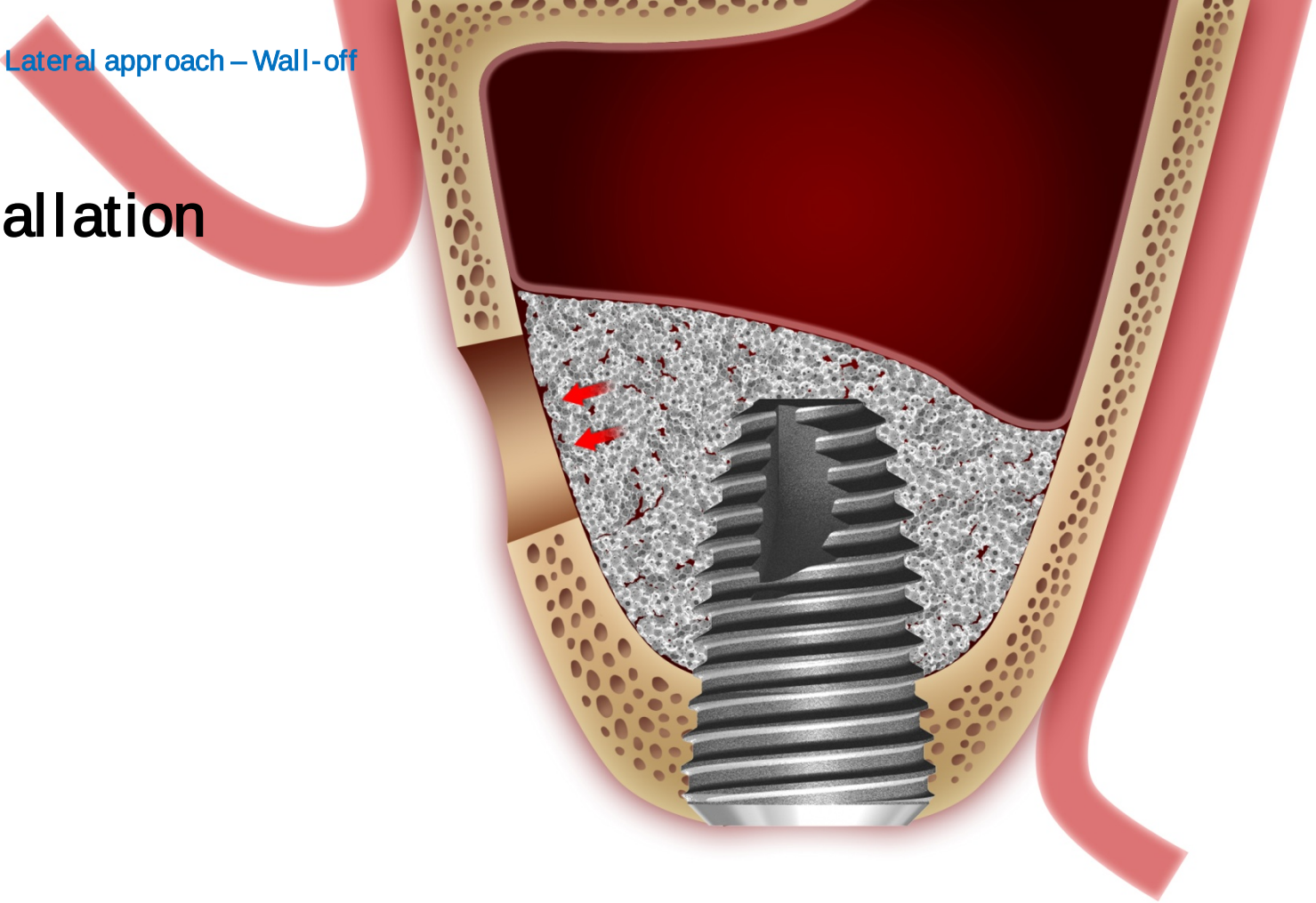
# Fixture Installation

SuperLine : FX4508



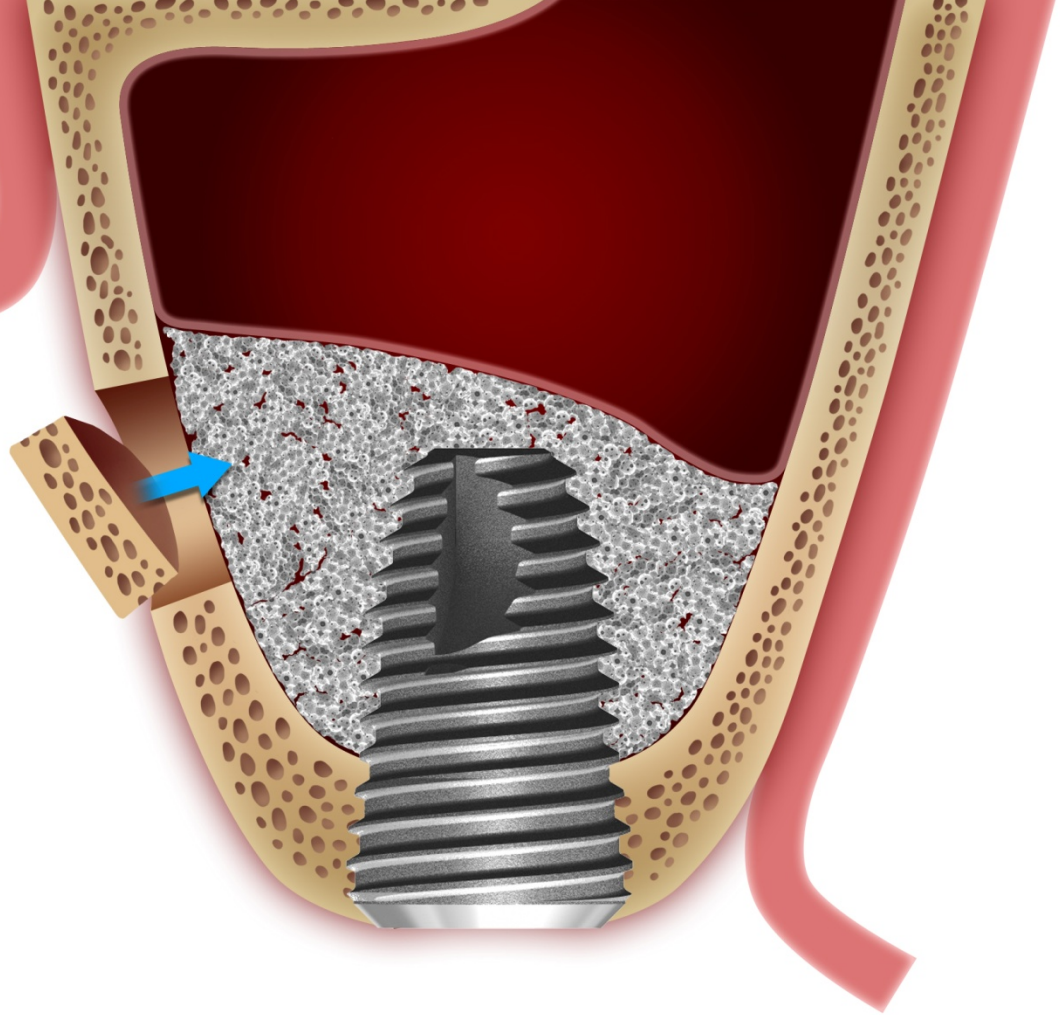
# Fixture Installation

SuperLine : FX4508



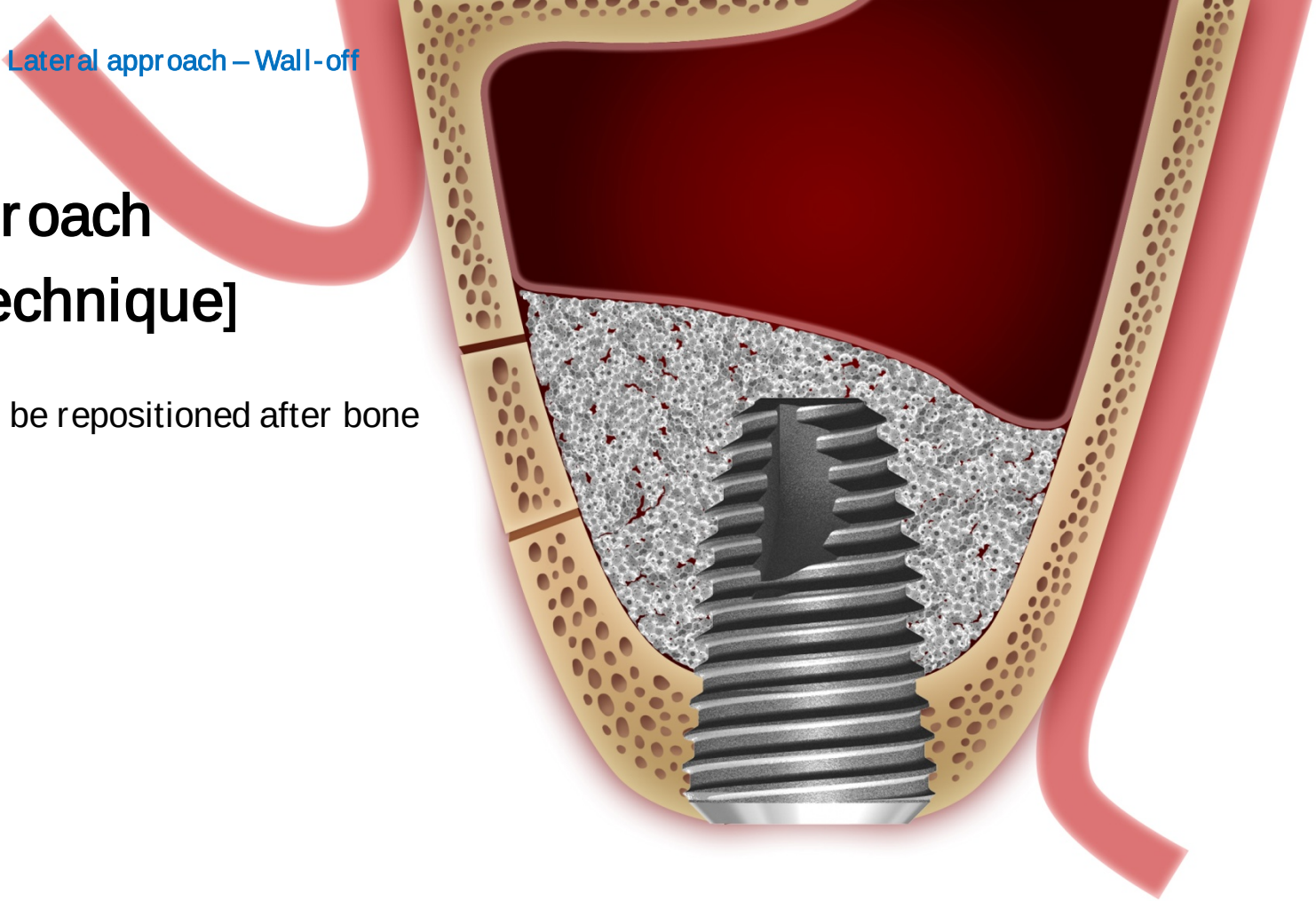
# Fixture Installation

SuperLine : FX4508



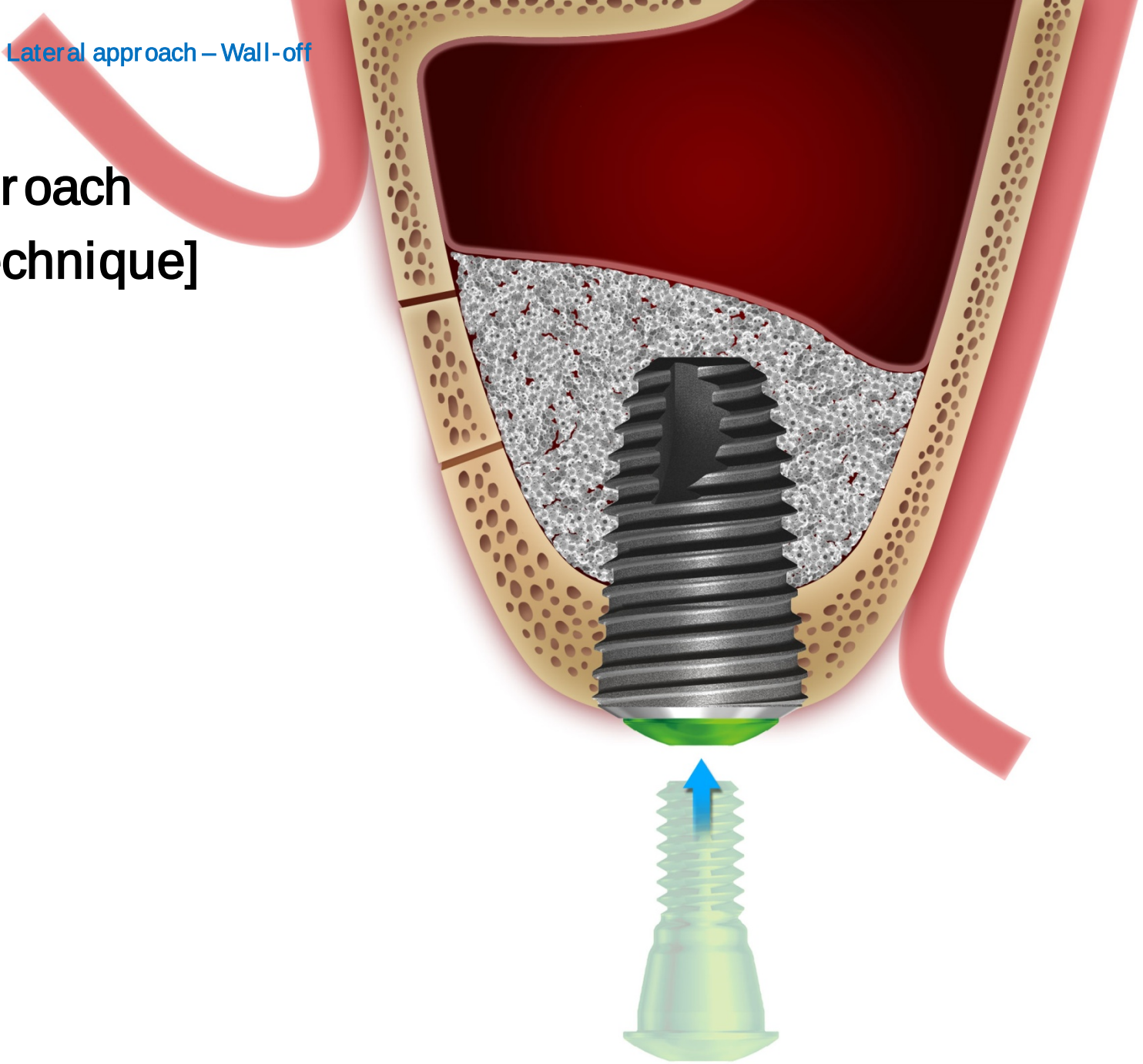
# Lateral approach (Wall-off Technique)

The bony island can be repositioned after bone augmentation.



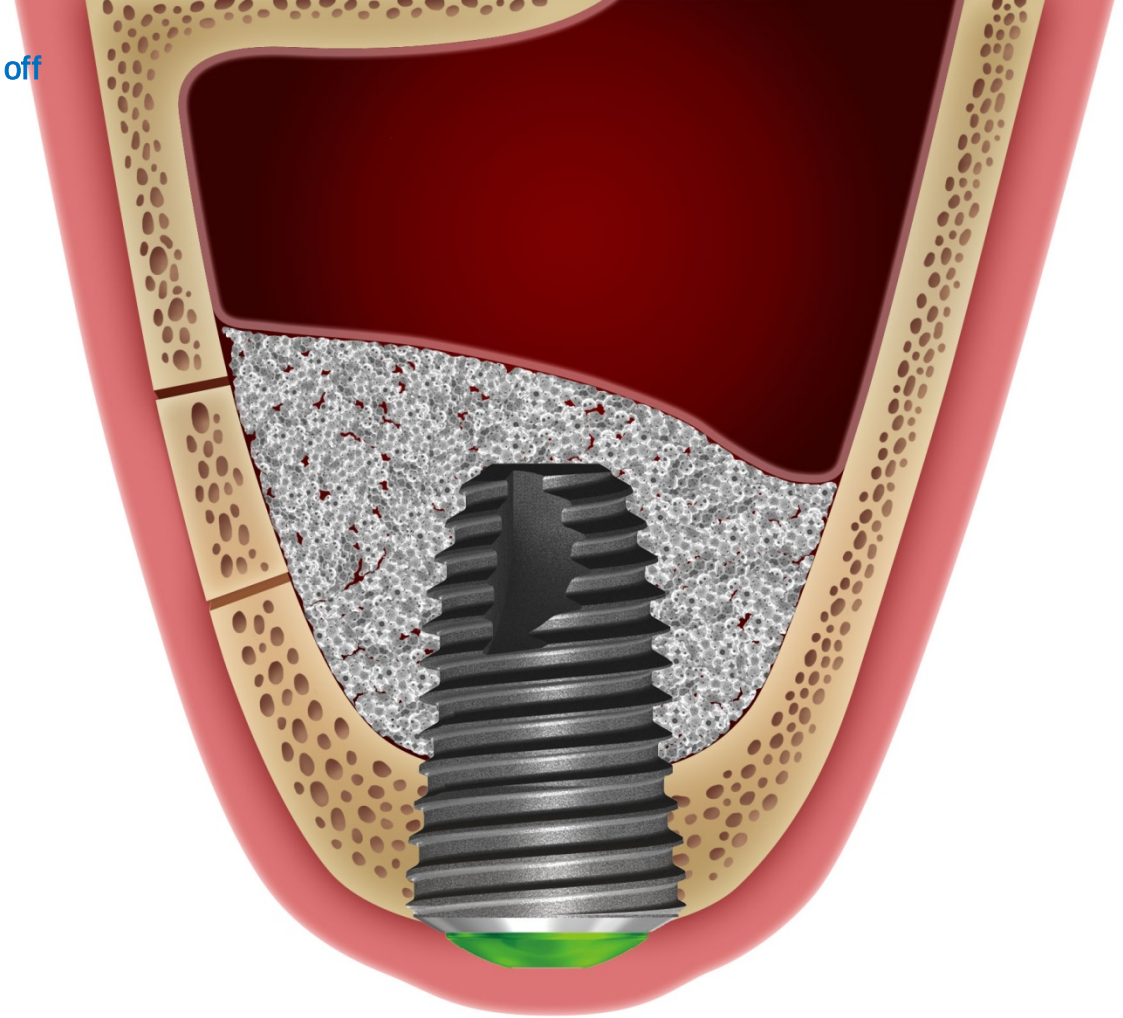
# Lateral approach [Wall-off technique]

Cover screw : CS36



# Suture

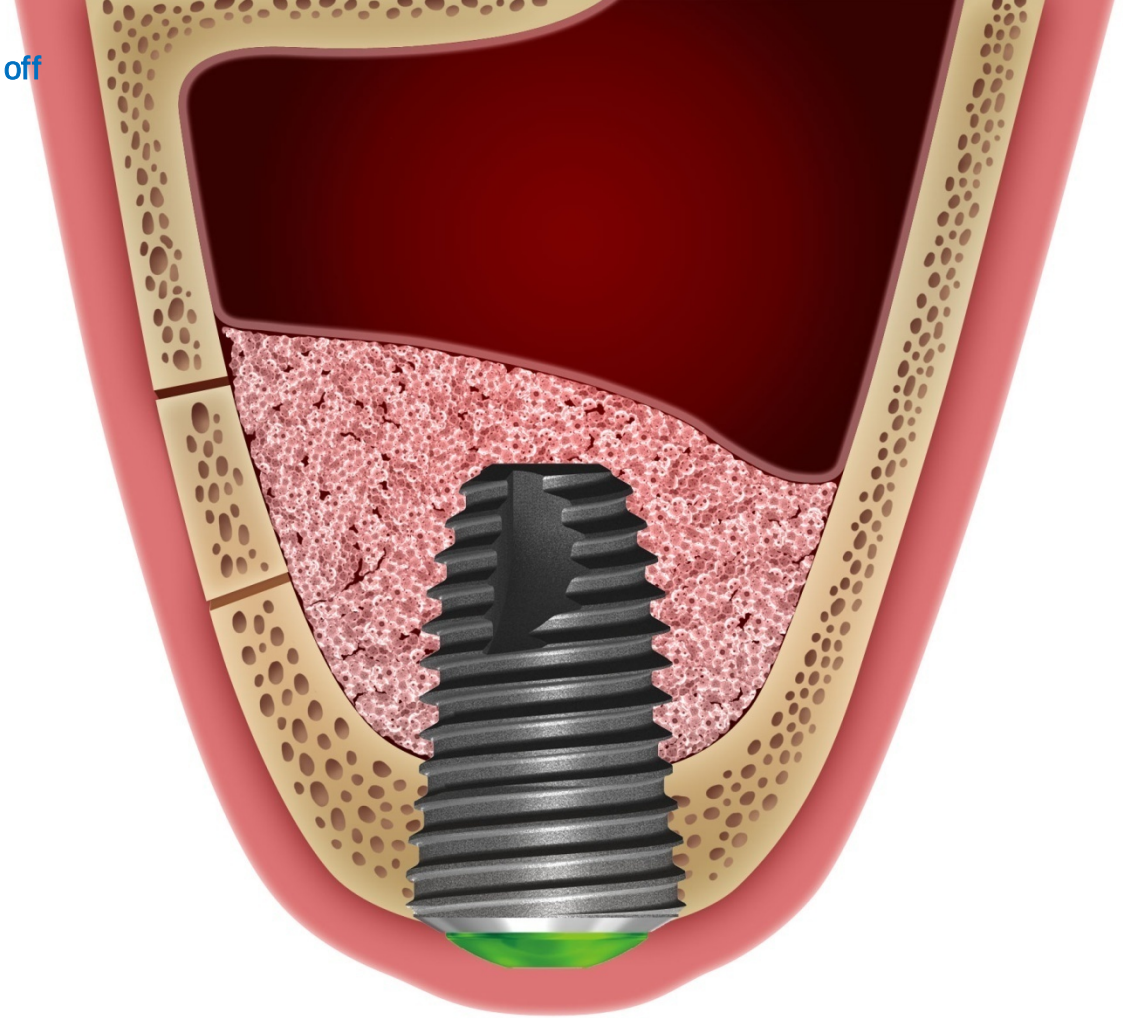
SuperLine : FX4508
Cover screw : CS36



# Suture

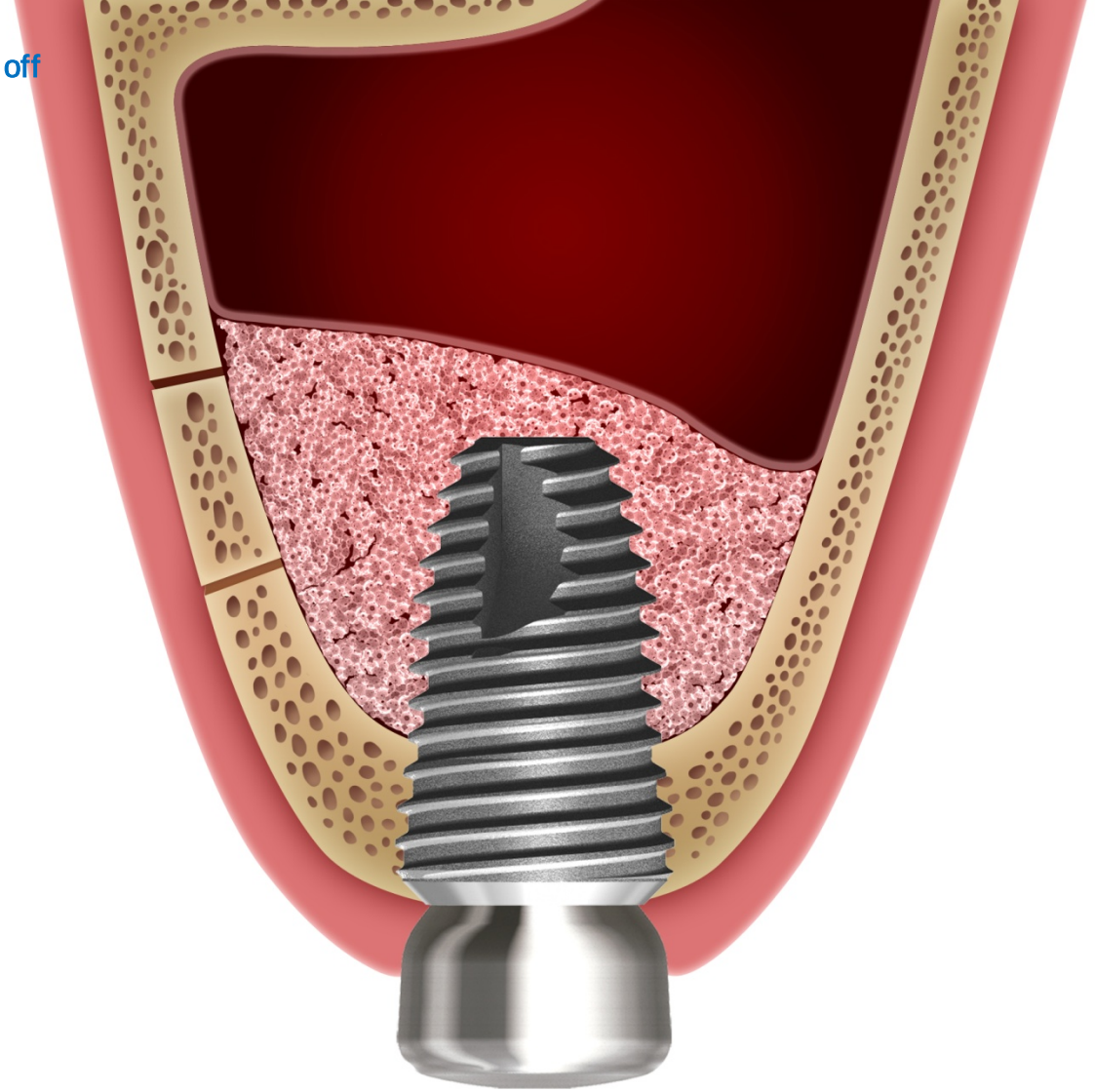
SuperLine : FX4508

Cover screw : CS36

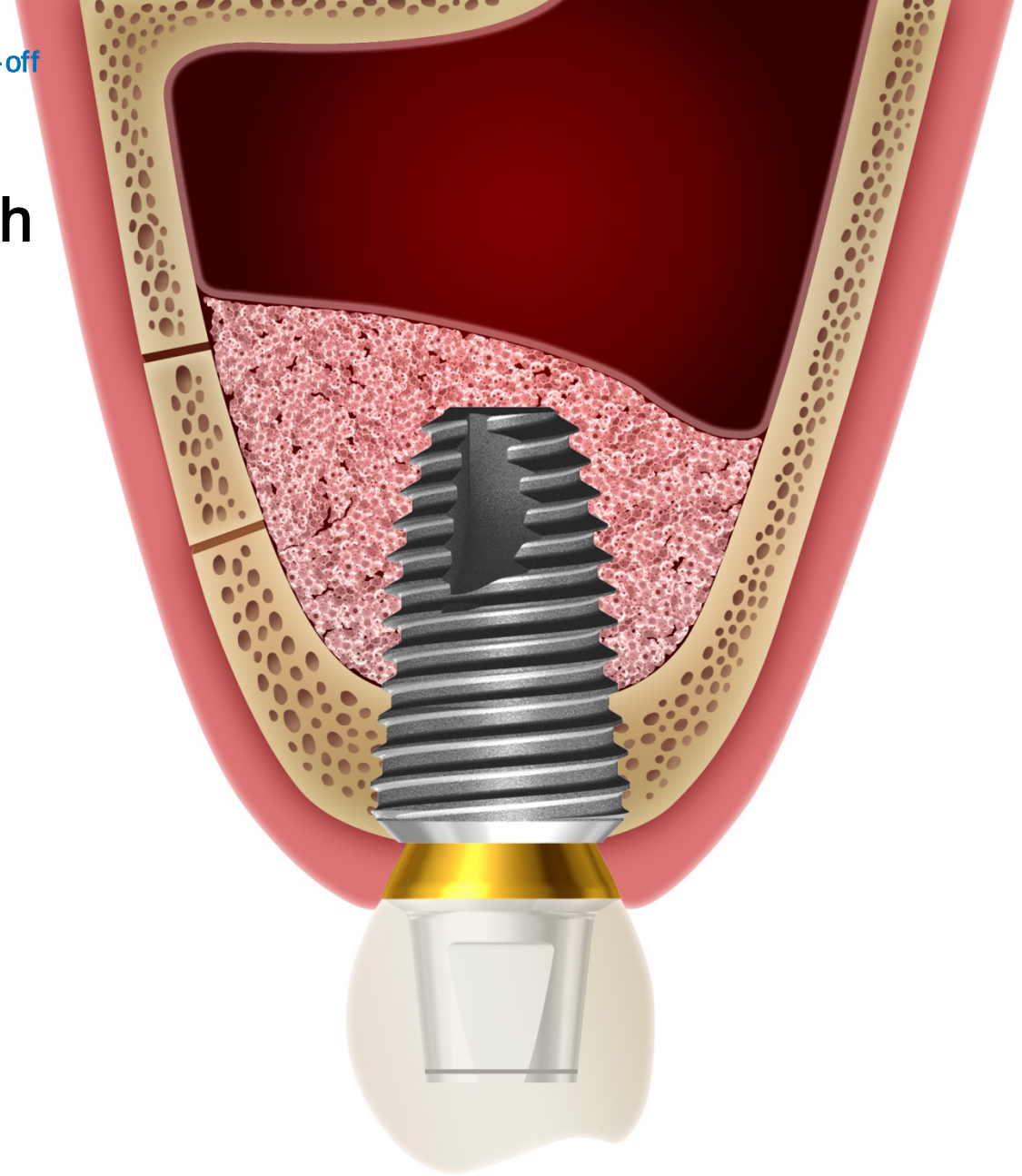


# Healing Abutment Connection

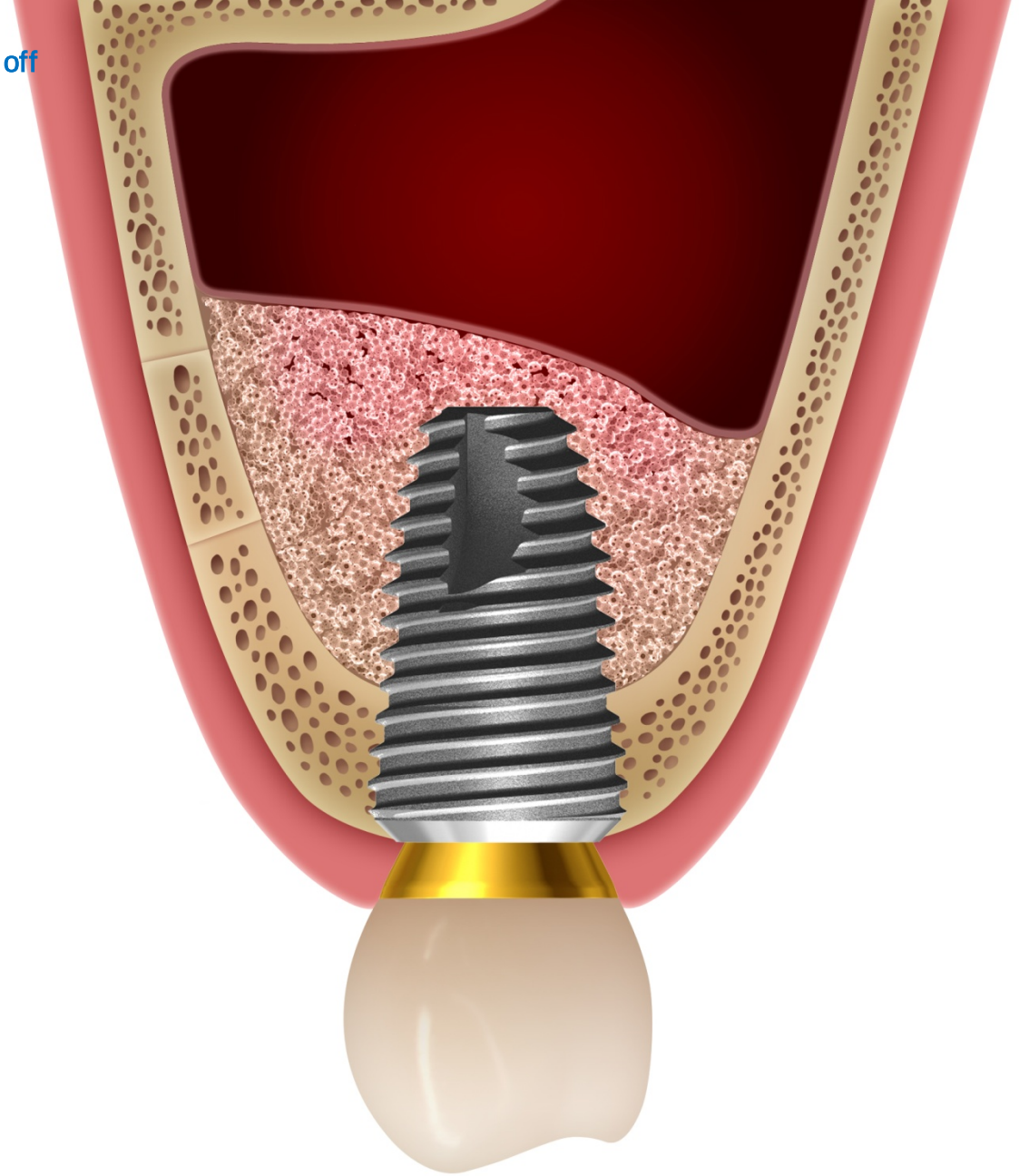
SuperLine : FX4508
Healing Abutment : HAB553050L



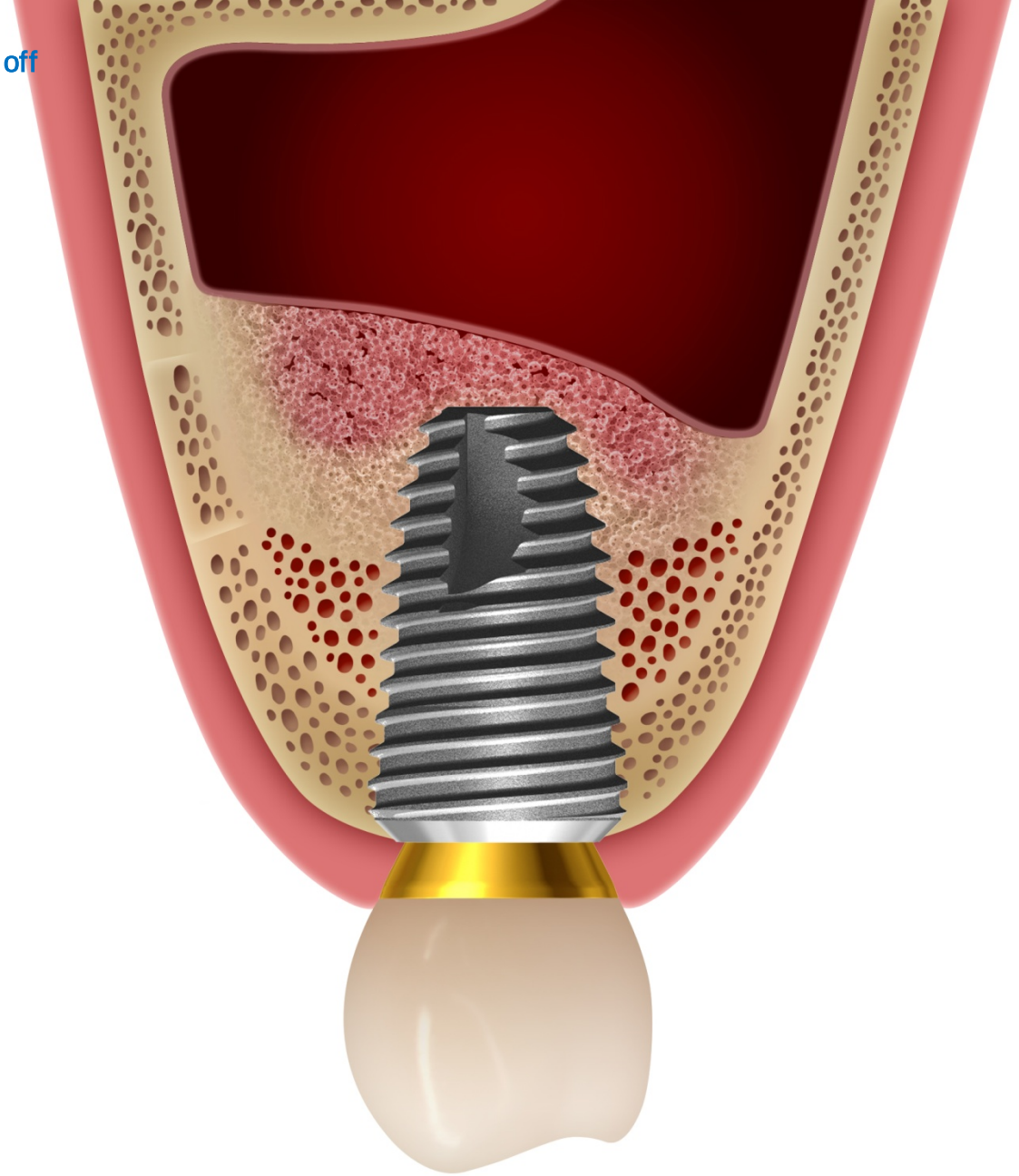
# Gingival Contouring with Provisional restoration



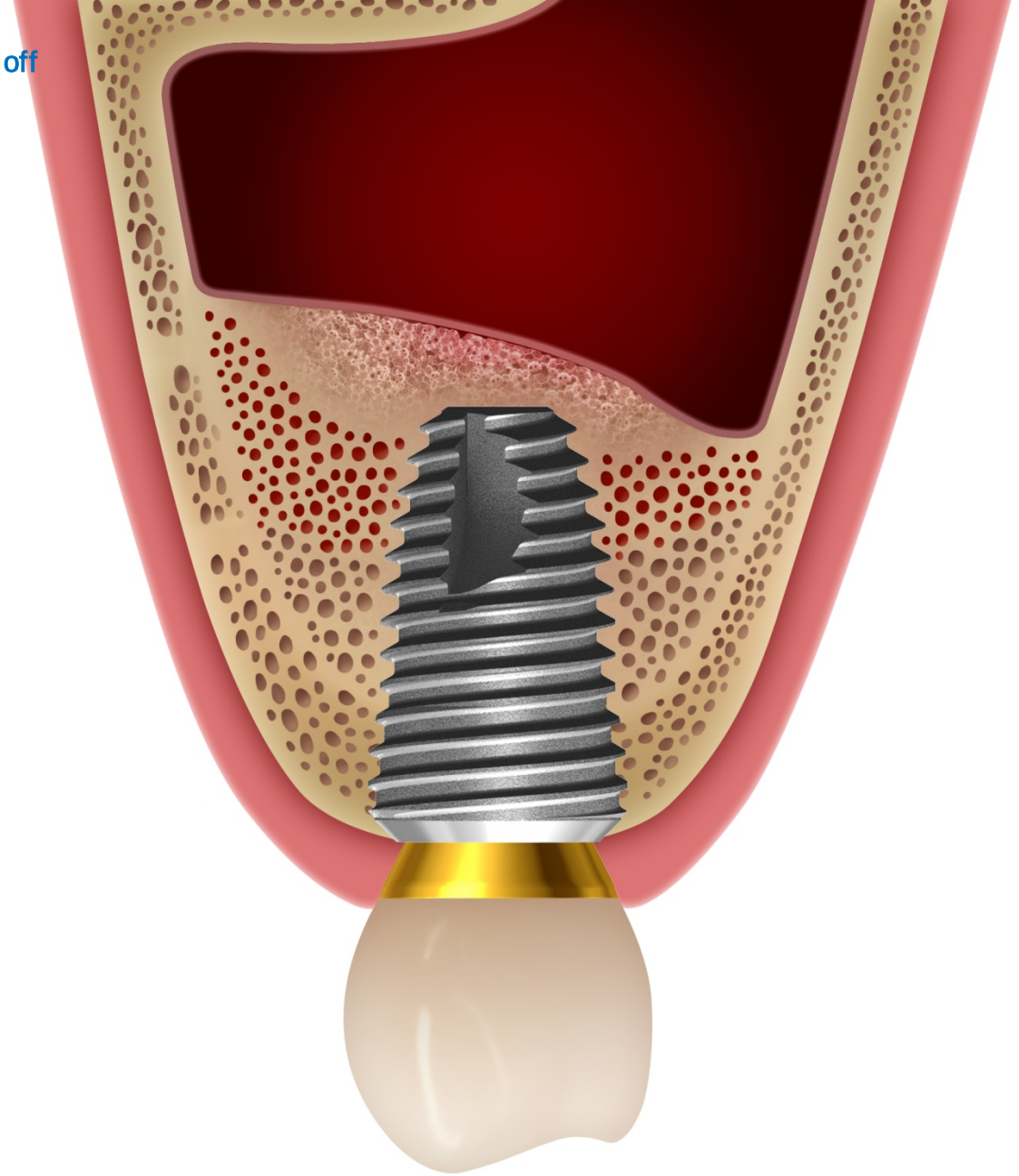
# Final prosthesis



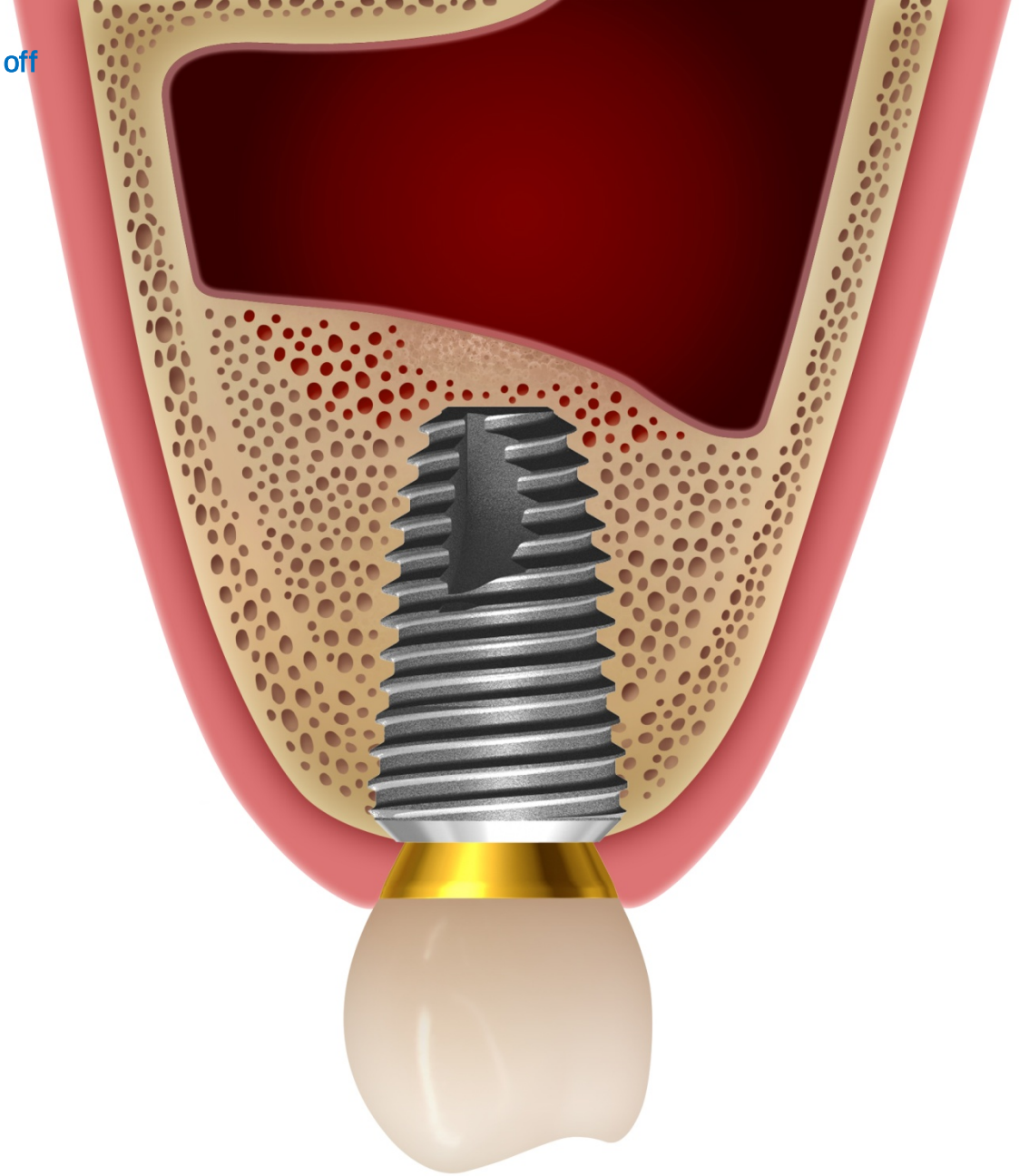
# Final prosthesis



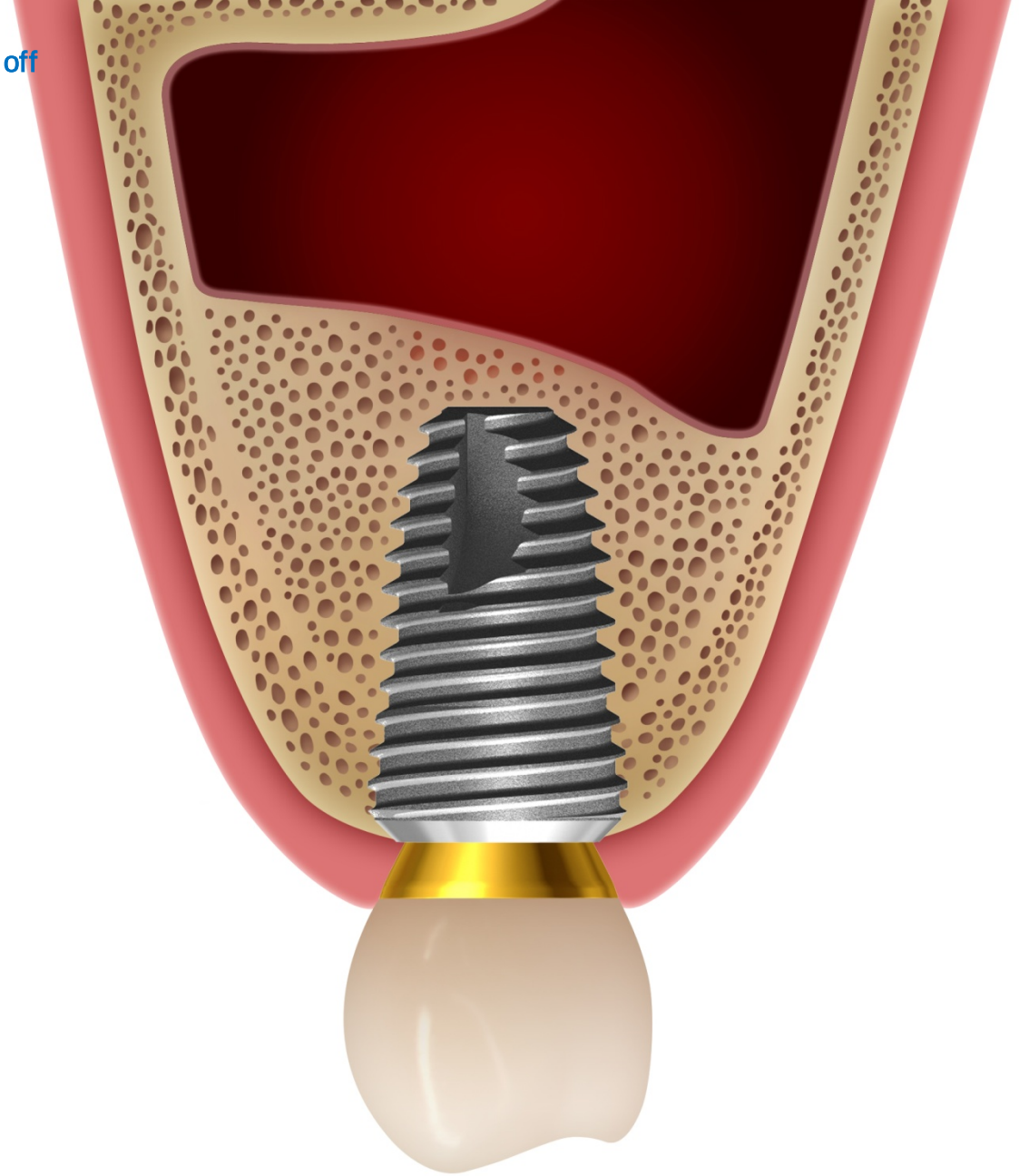
# Final prosthesis



# Final prosthesis



# Final prosthesis



# III

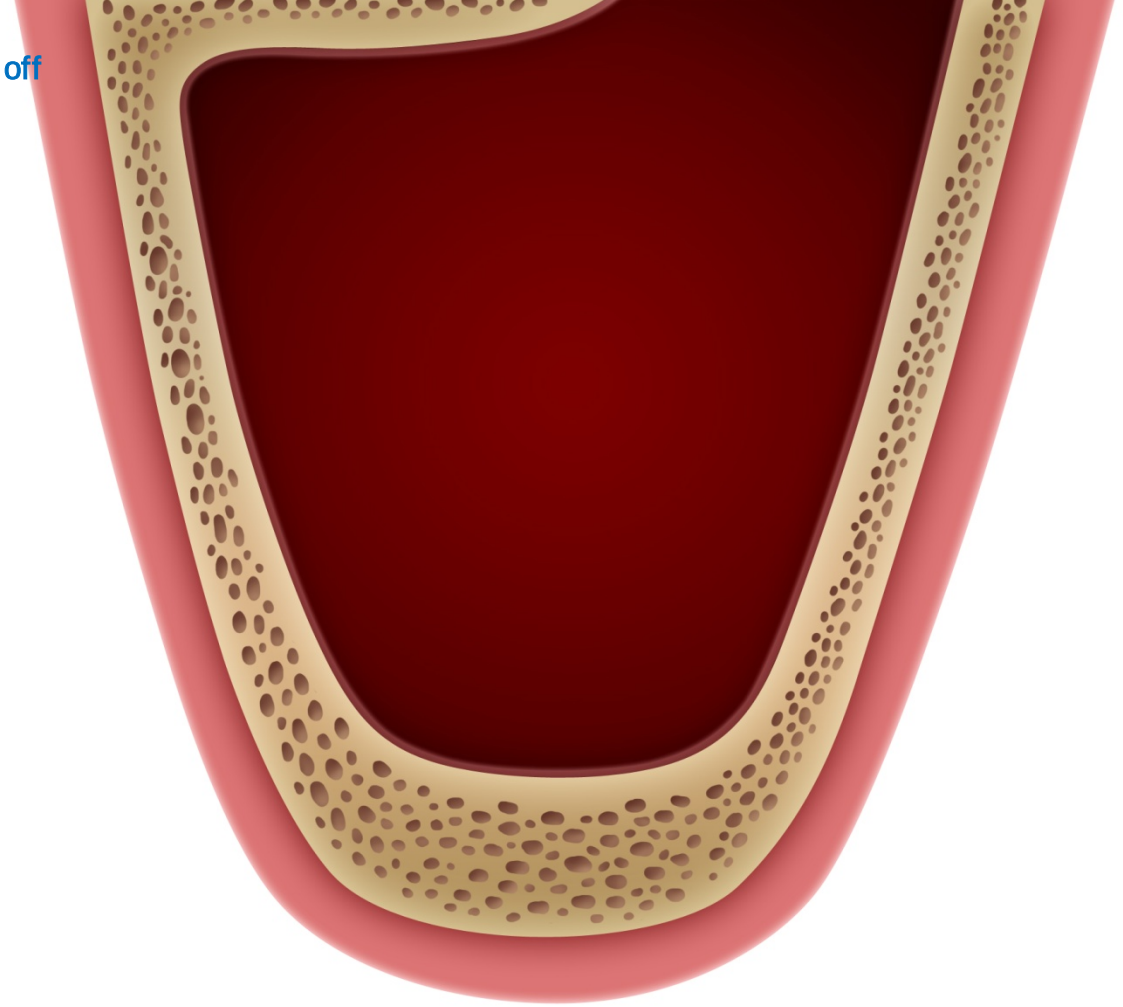
# Lateral approach

DASK Drill #5

XPT084025

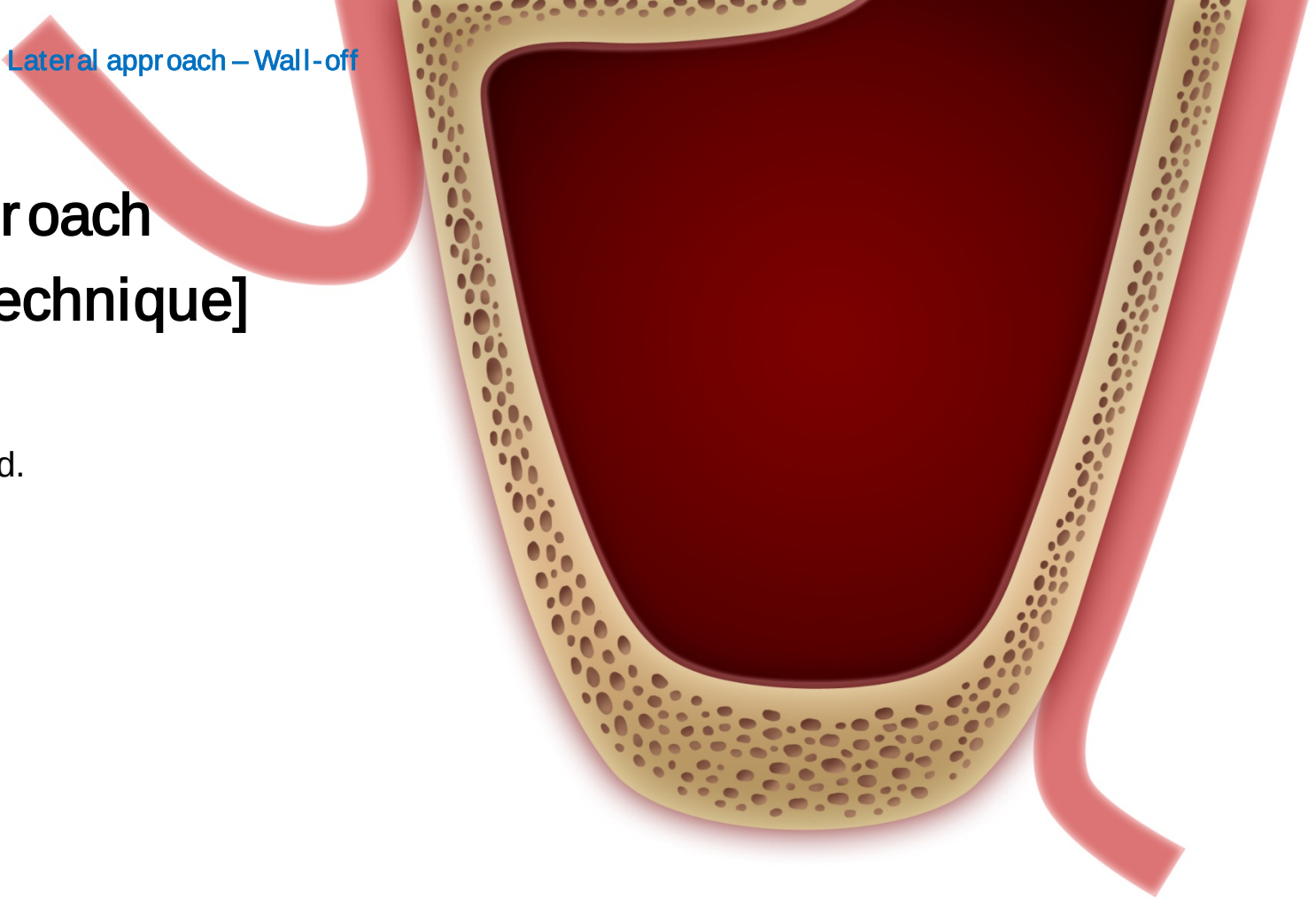
# Lateral approach (Thin-out Technique]

1st surgery



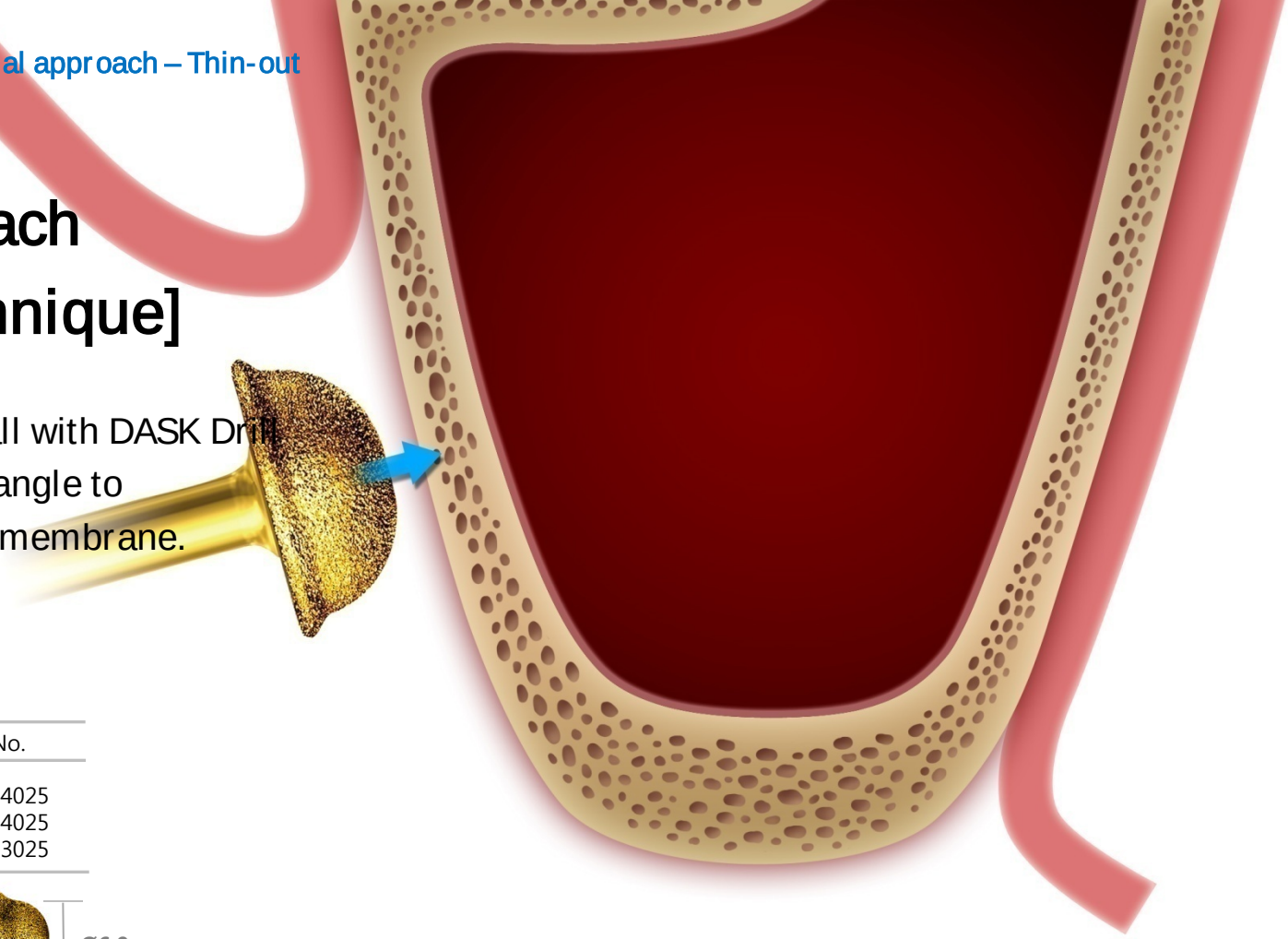
# Lateral approach (Thin-out Technique]

1st surgery
Lateral wall exposed.



# Lateral approach (Thin-out Technique]

Thin down the lateral wall with DASK Drill #4 or #5 at a 45 degree angle to reach the Schneiderian membrane.

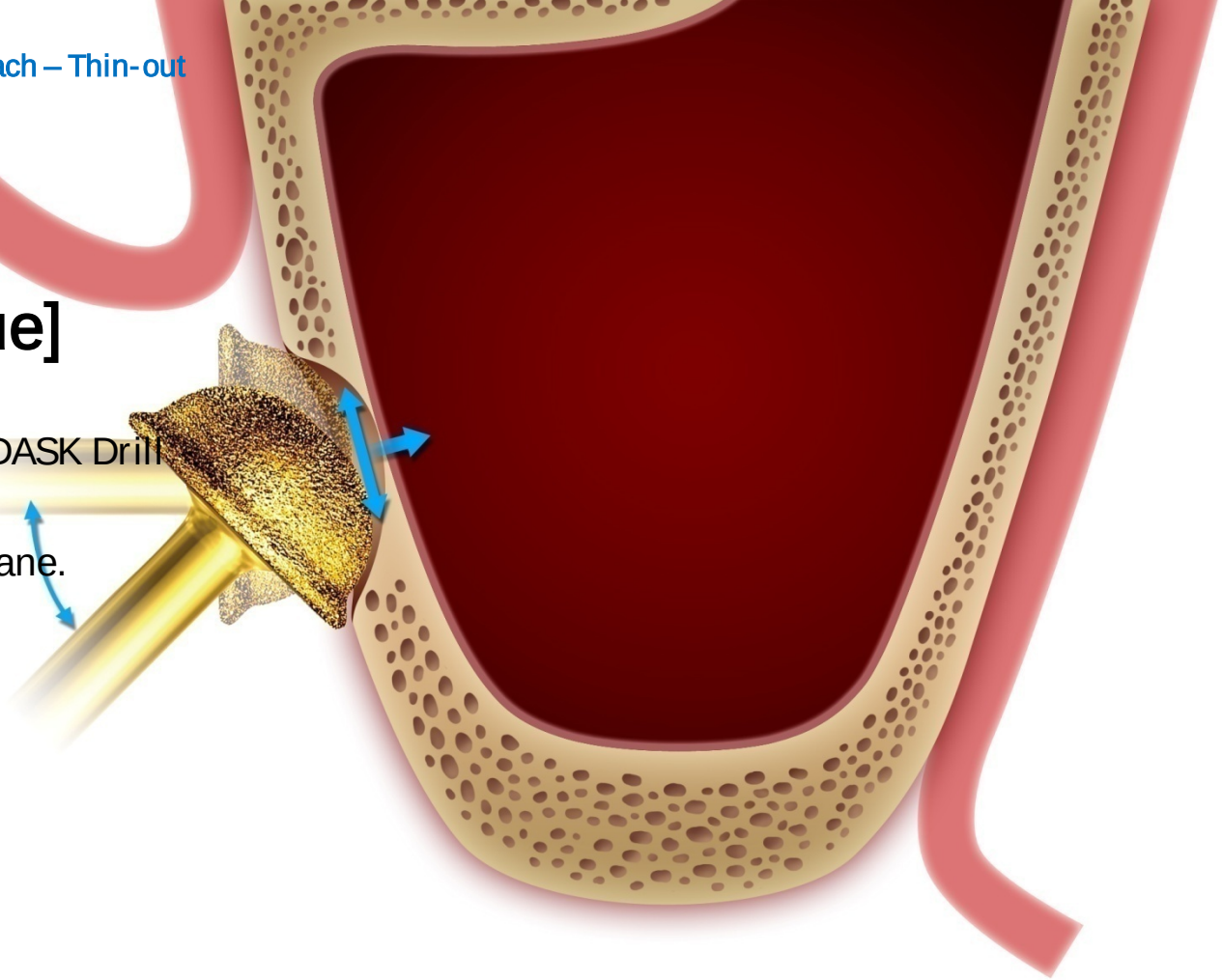


DASK Drill

| Type | DASK Drill # | Art No. |
|---|---|---|
| Lateral Approach | DASK Drill #4 | XRT **06**4025 |
| | DASK Drill #5 | XRT **08**4025 |
| | DASK Drillv #6 | XRT **08**3025 |

# Lateral approach (Thin-out Technique]

Thin down the lateral wall with DASK Drill #4 or #5 at a 45 degree angle to reach the Schneiderian membrane.

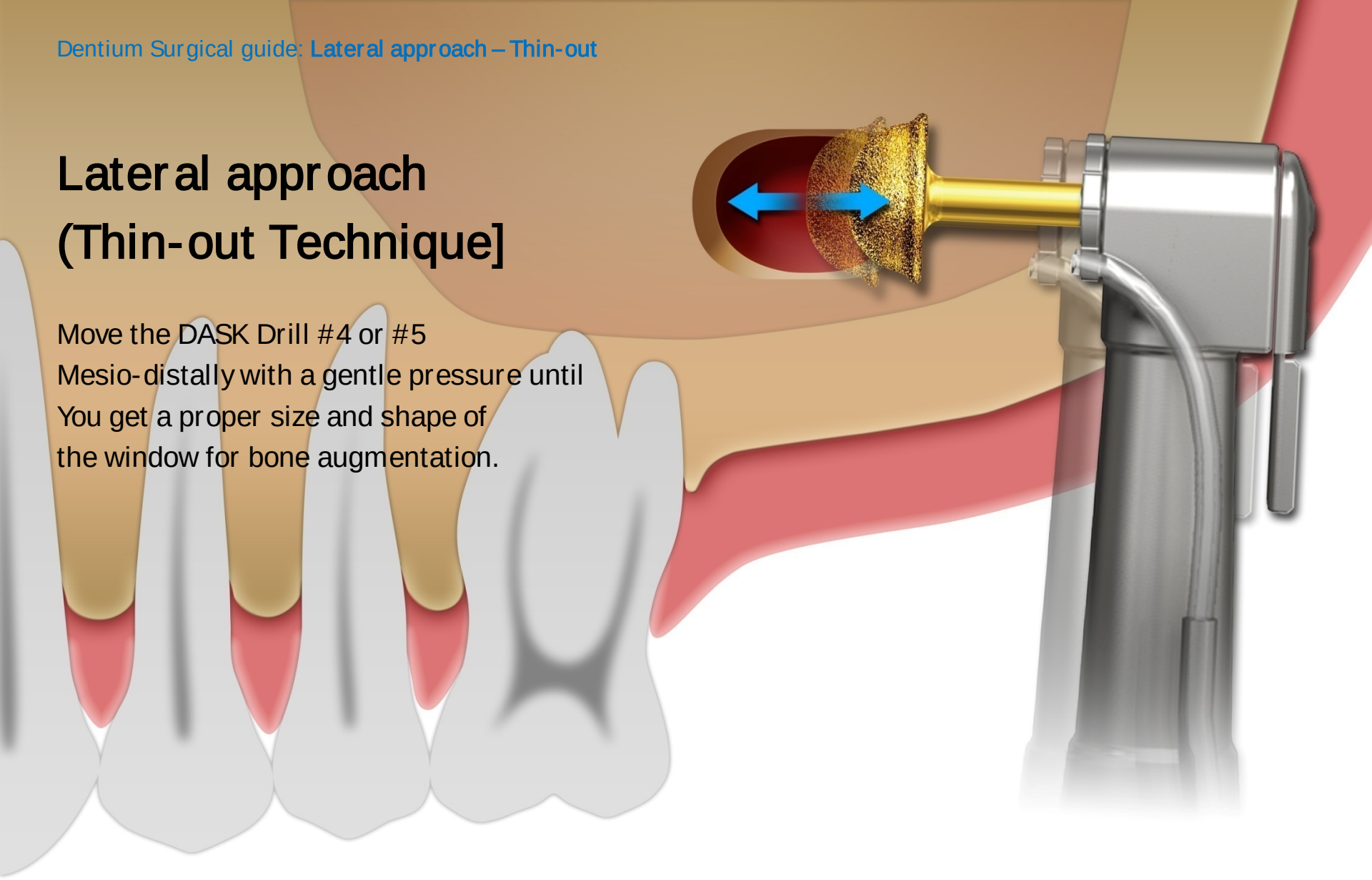


DASK Drill

| Type | DASK Drill # | Art No. |
|---|---|---|
| Lateral Approach | DASK Drill #4 | XRT **06**4025 |
| | DASK Drill #5 | XRT **08**4025 |
| | DASK Drillv #6 | XRT **08**3025 |

# Lateral approach (Thin-out Technique]

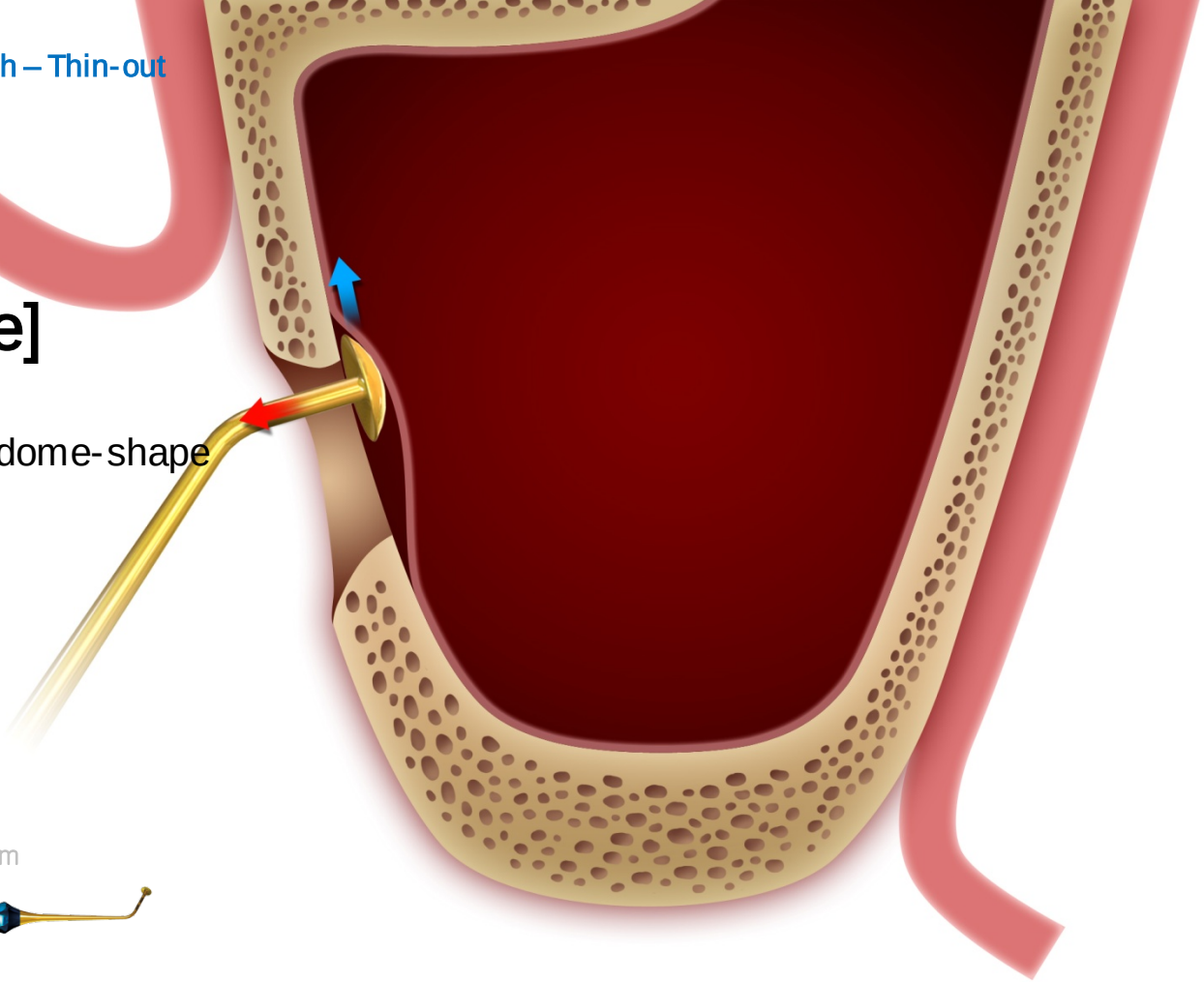
Move the DASK Drill #4 or #5
Mesio-distally with a gentle pressure until
You get a proper size and shape of
the window for bone augmentation.



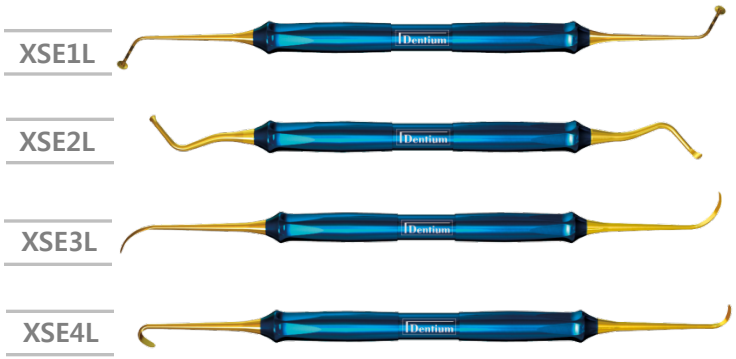
# Lateral approach (Thin-out Technique]

# Lateral approach (Thin-out Technique]

Detach sinus membrane using a dome-shape Sinus curette,

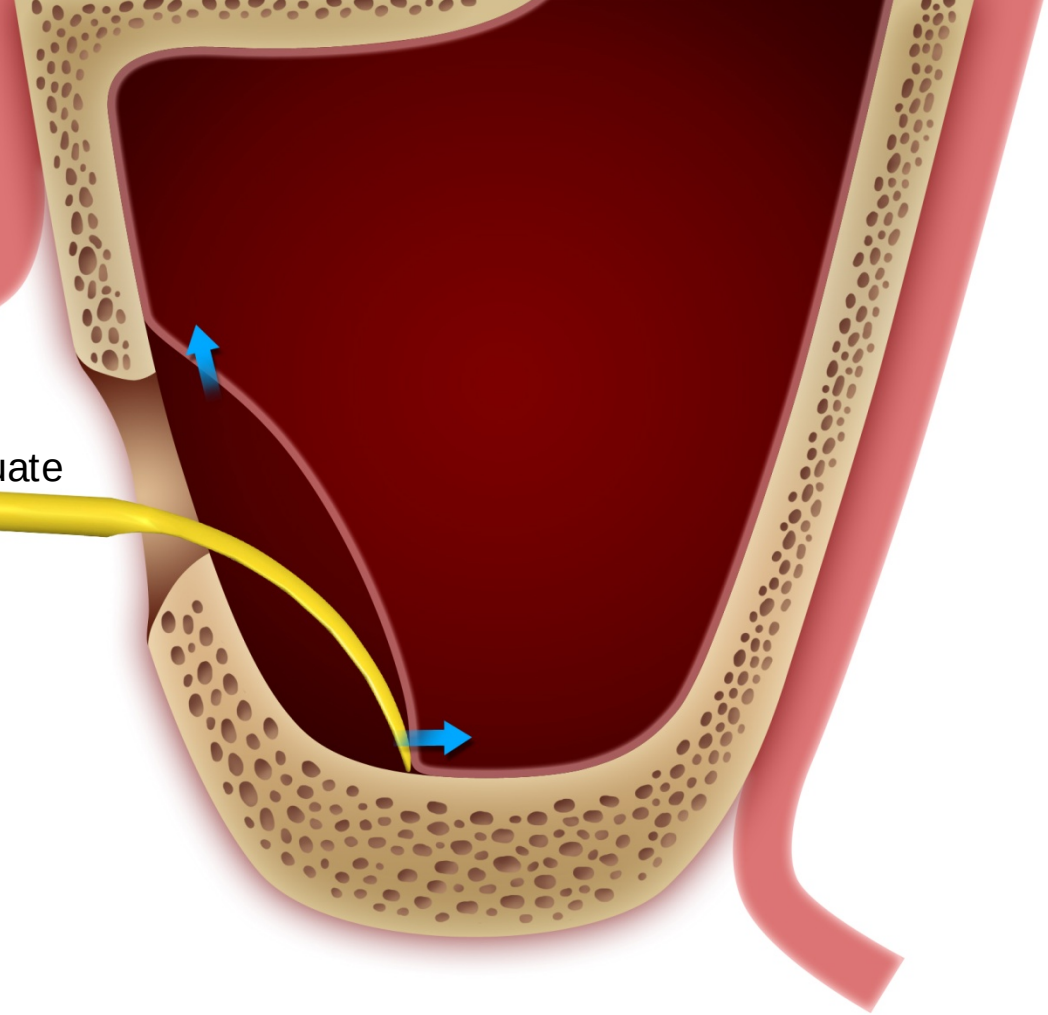


Sinus Elevation Instrument I Scale 1 : 0.45/mm



# Lateral approach (Thin-out Technique]

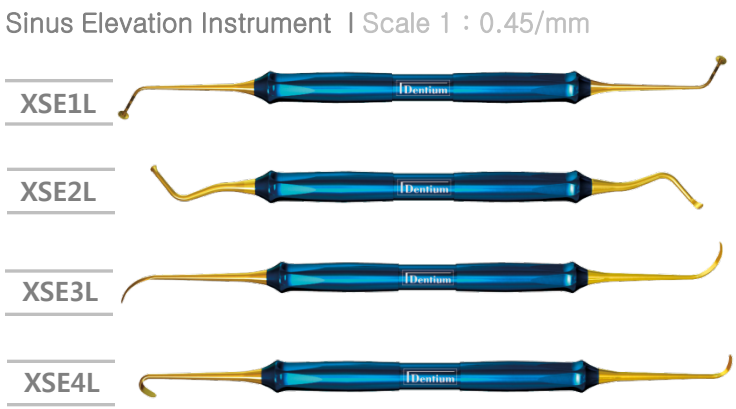
Elevate the sinus membrane to create adequate Space for graft material.



Sinus Elevation Instrument I Scale 1 : 0.45/mm

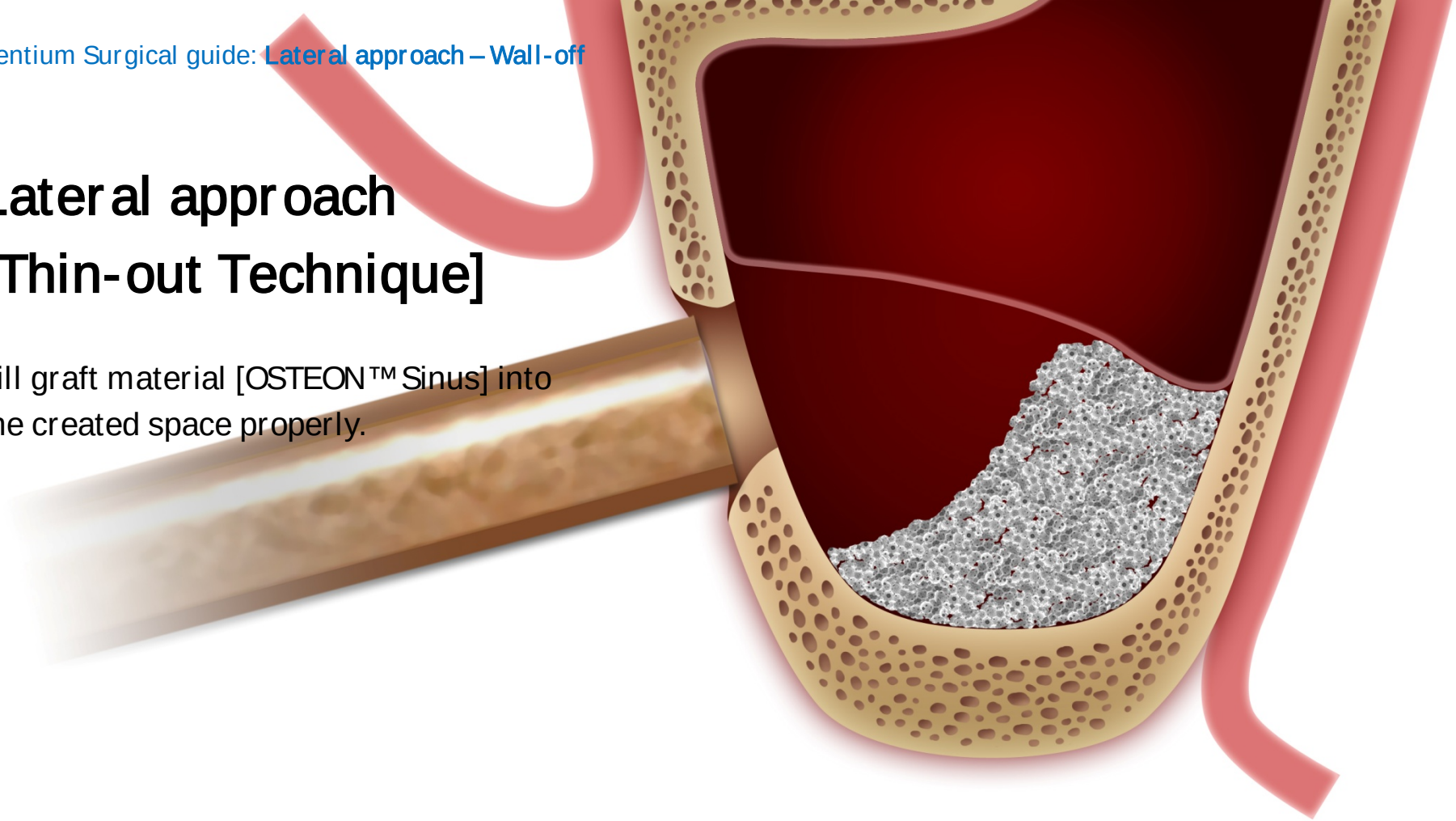
# Lateral approach (Thin-out Technique]

Elevate the sinus membrane to create adequate Space for graft material.



# Lateral approach (Thin-out Technique]

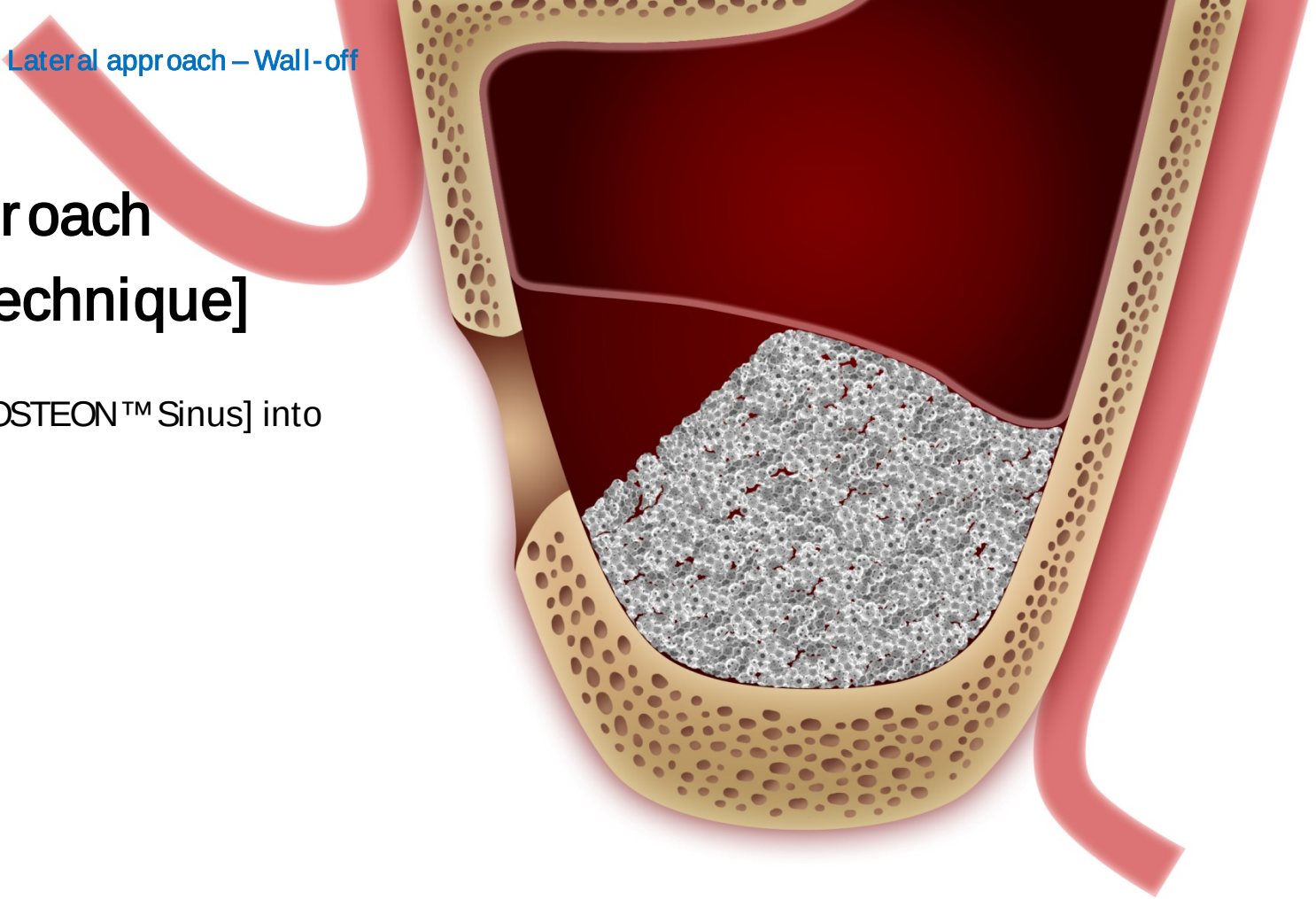
Fill graft material [OSTEON™ Sinus] into the created space properly.



| Product | Syringe diameter | syringe diameter |
|---|---|---|
| OSTEON™ Sinus<br>OSTEON™ II Sinus | **Ø7.0mm** | **Ø5.0mm** |

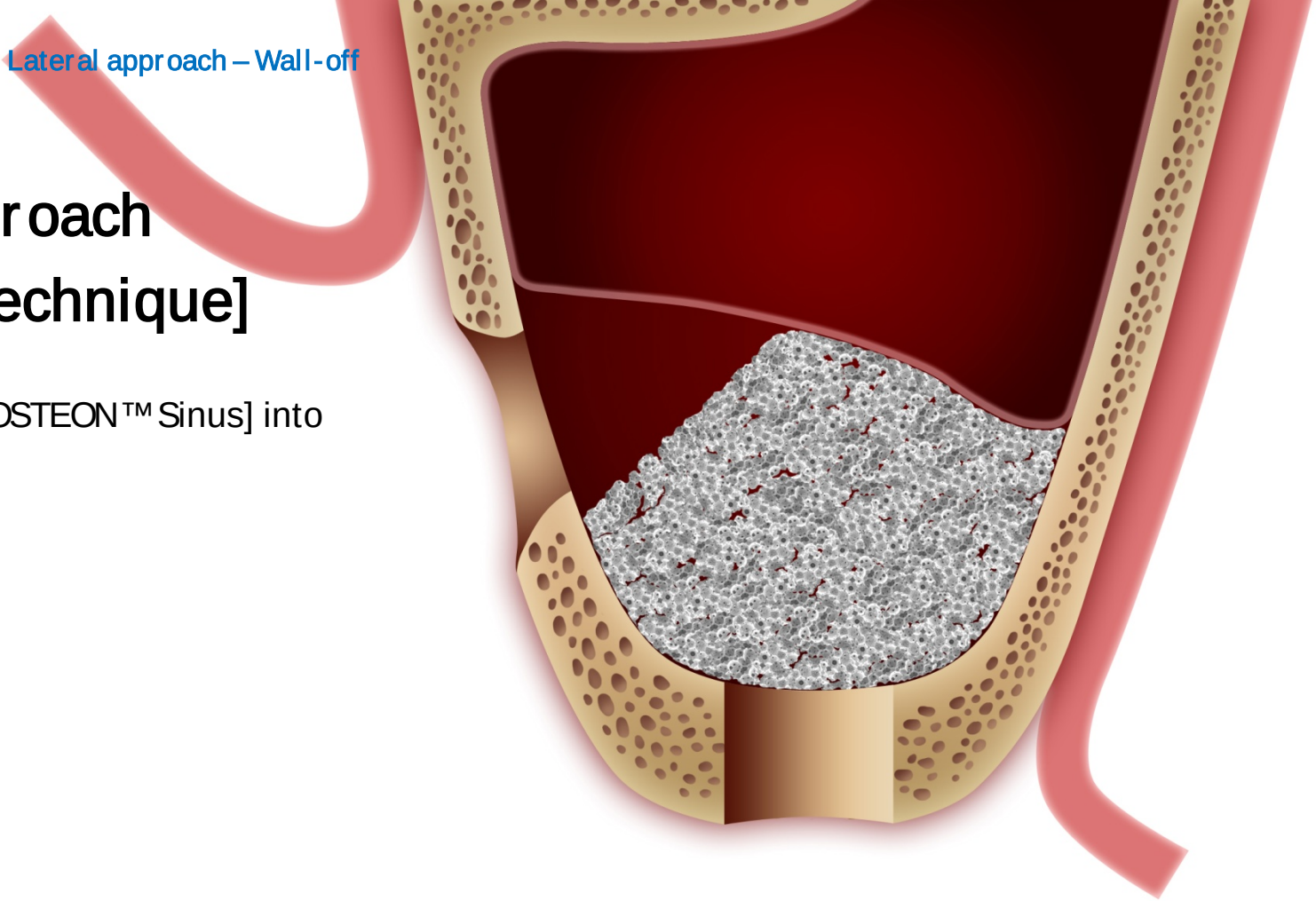
# Lateral approach (Thin-out Technique]

Fill graft material [OSTEON™ Sinus] into the created space.



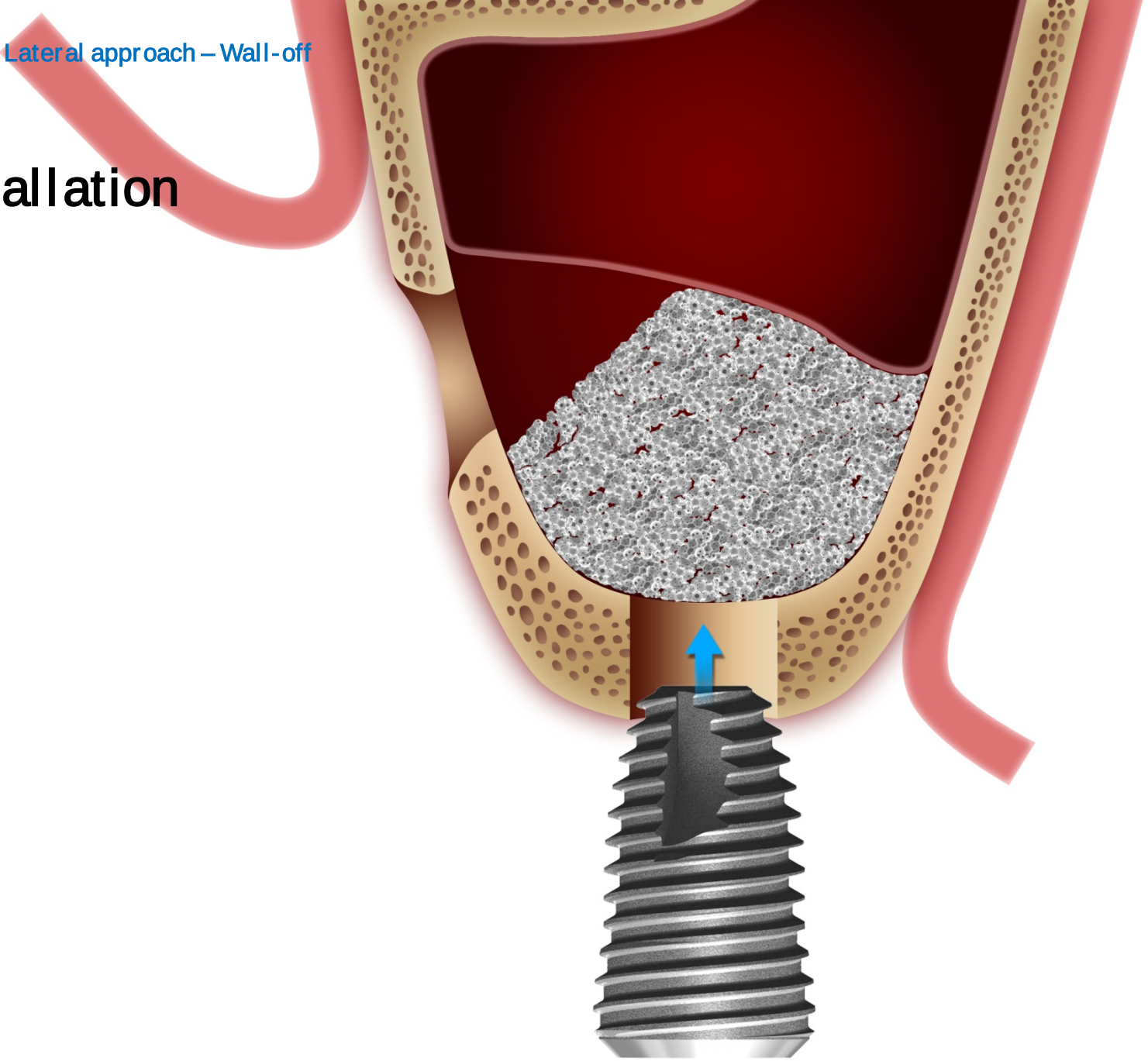
# Lateral approach (Thin-out Technique]

Fill graft material [OSTEON™ Sinus] into the created space.



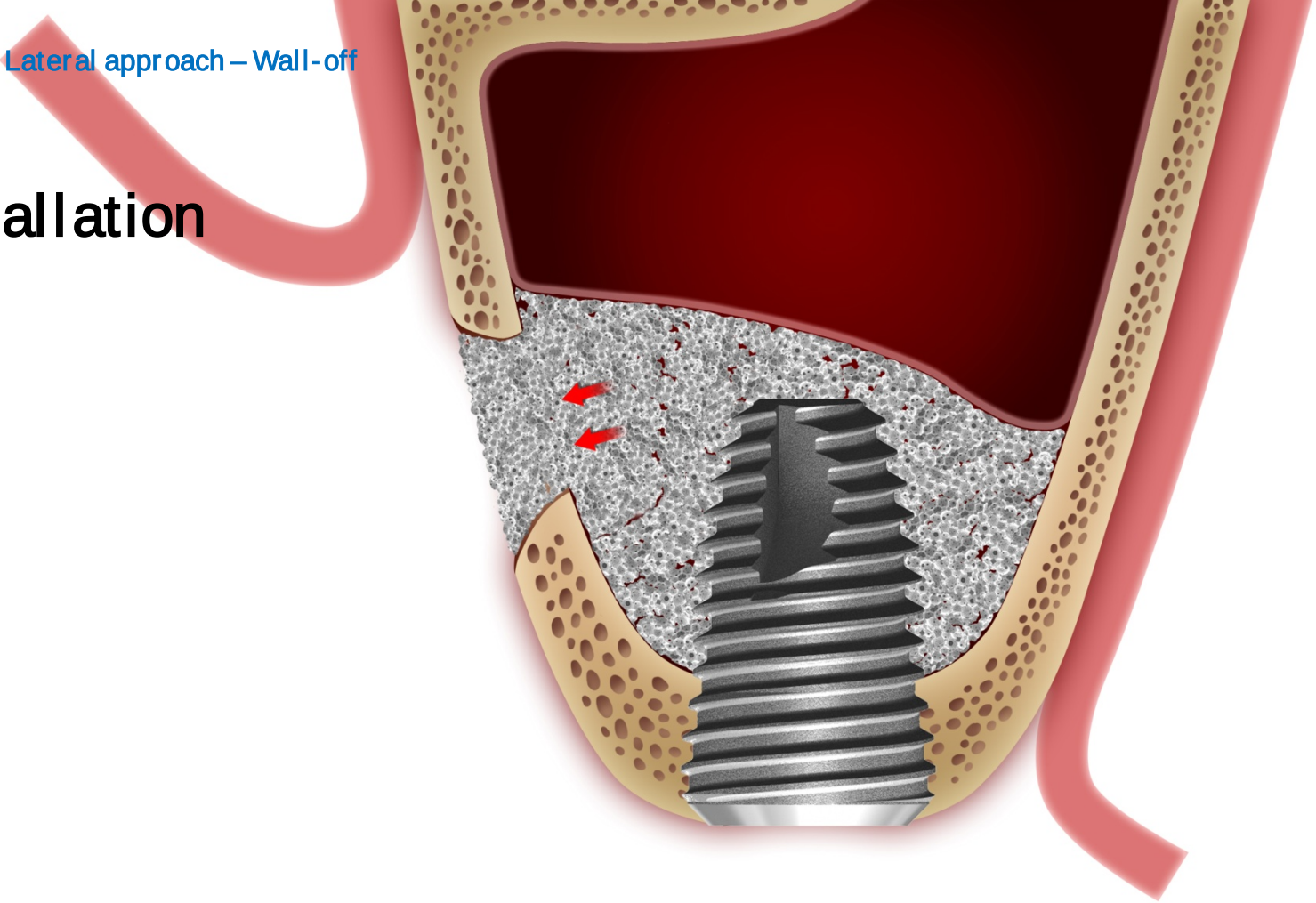
# Fixture Installation

SuperLine : FX4508



# Fixture Installation

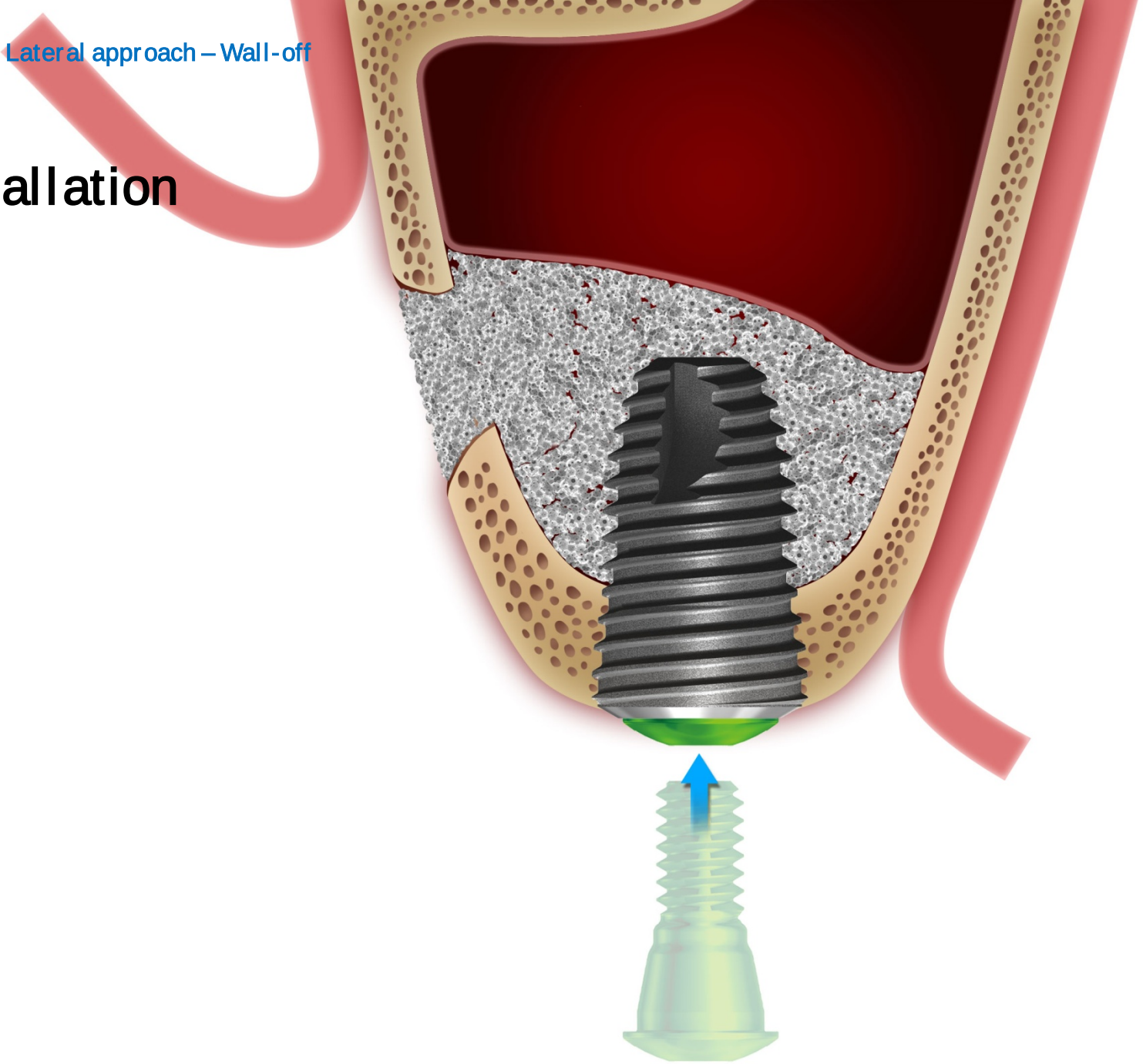
SuperLine : FX4508



# Fixture installation

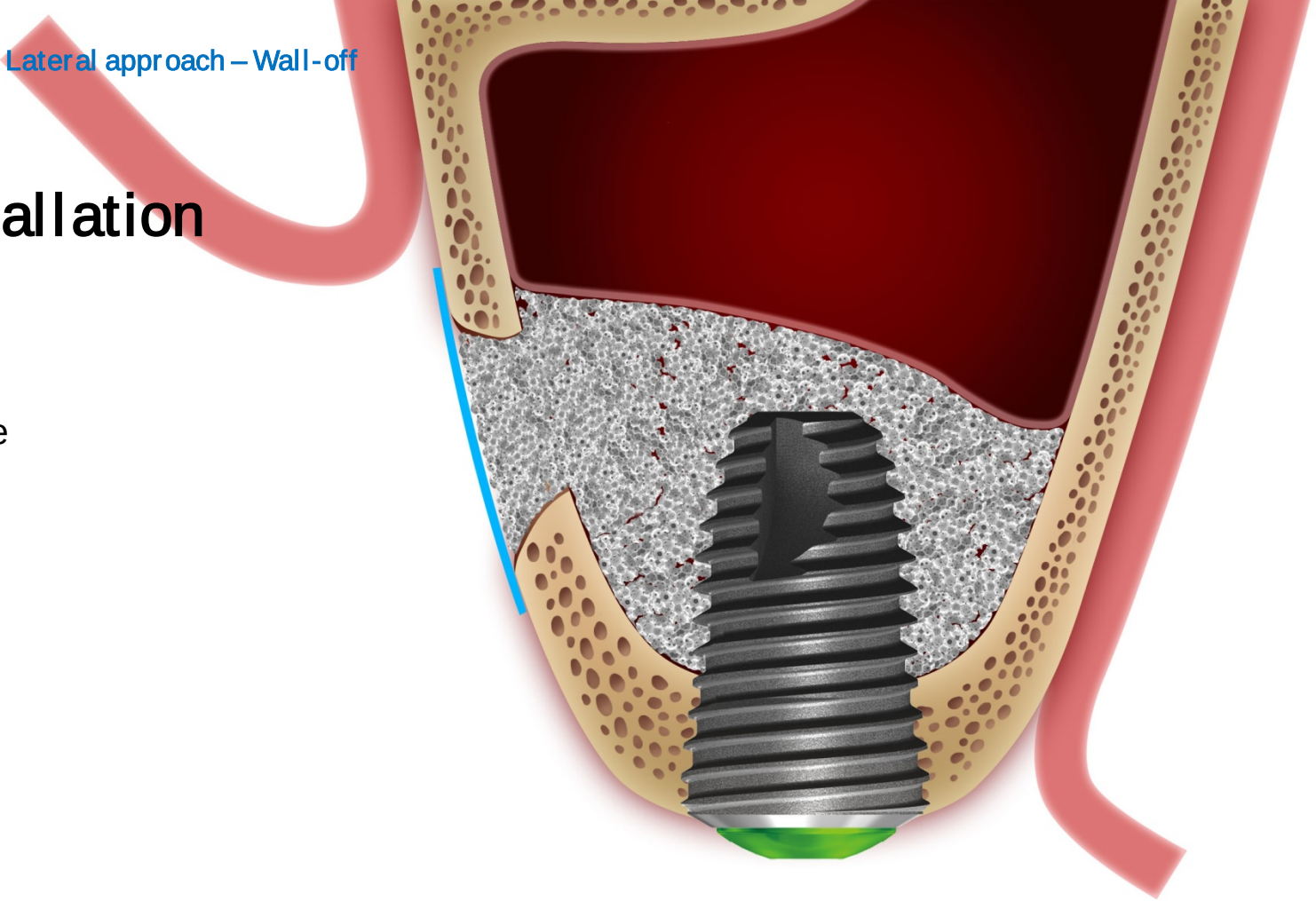
SuperLine : FX4508

Cover screw : CS36



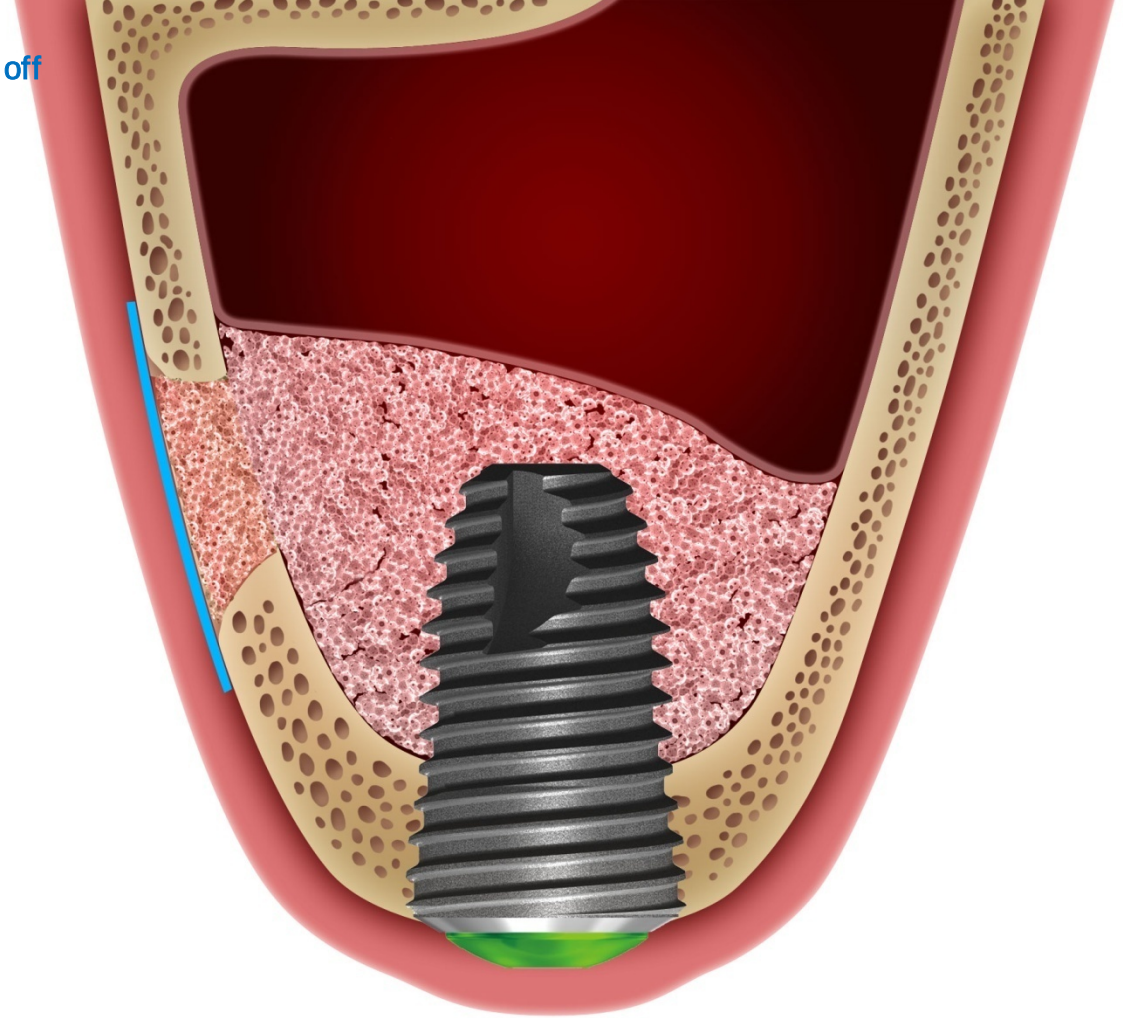
# Fixture installation

SuperLine : FX4508
Cover screw : CS36
Collagen Membrane



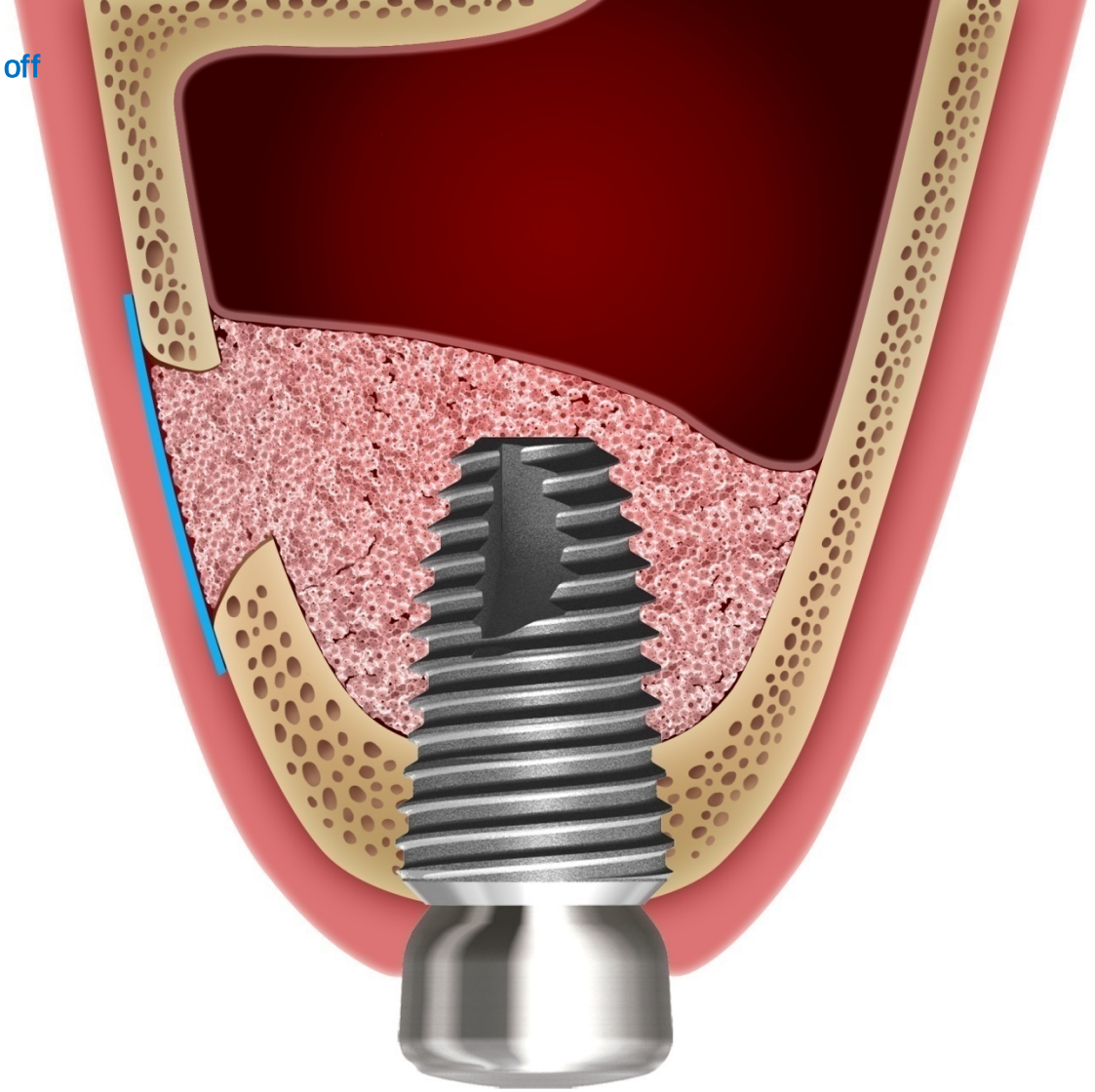
# Suture

SuperLine : FX4508
Cover screw : CS36
Collagen Membrane

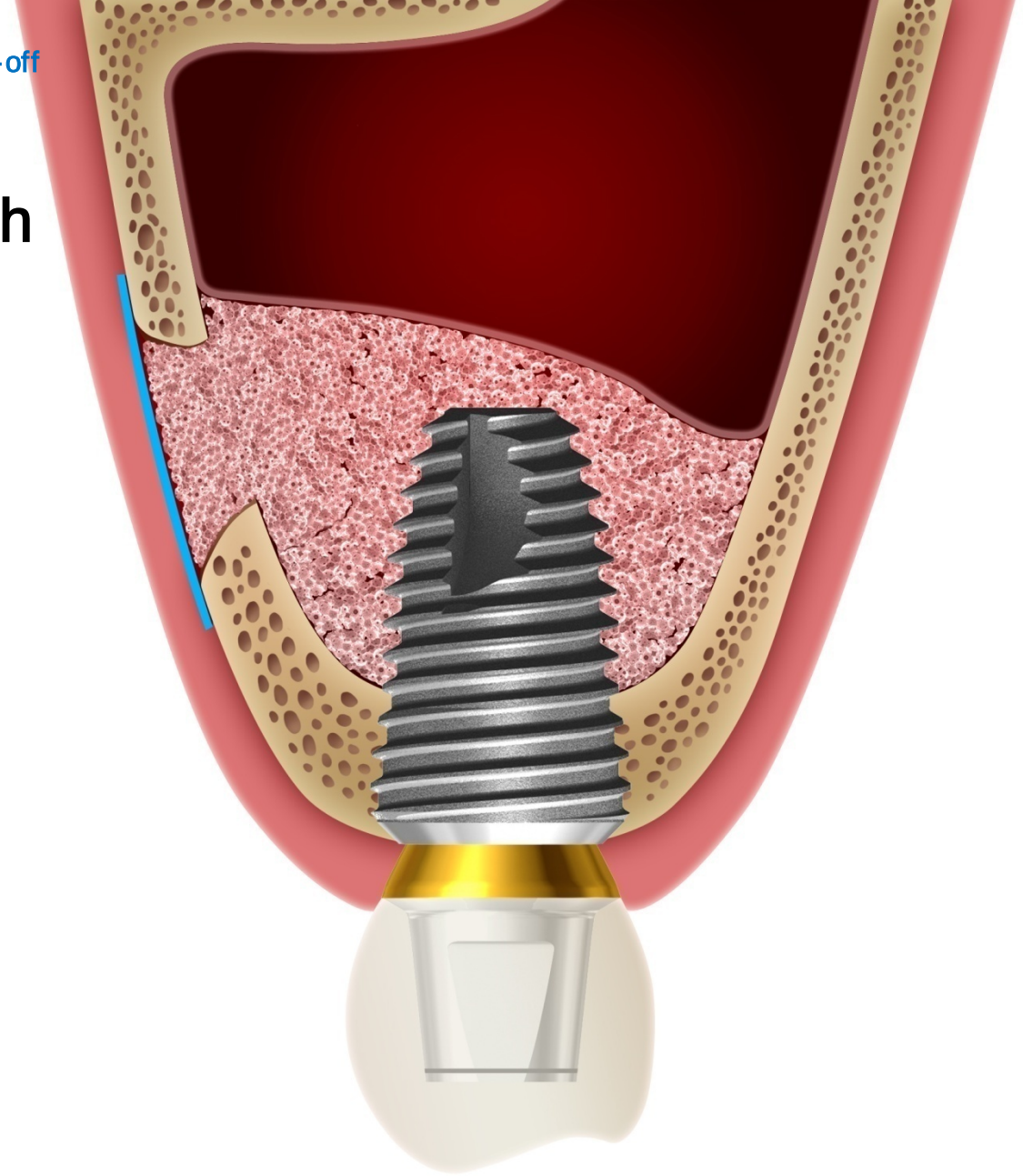


# Suture

SuperLine : FX4508
Cover screw : CS38
Healing Abutment : HAB553050L



# Gingival Contouring with Provisional restoration



# Final prosthesis