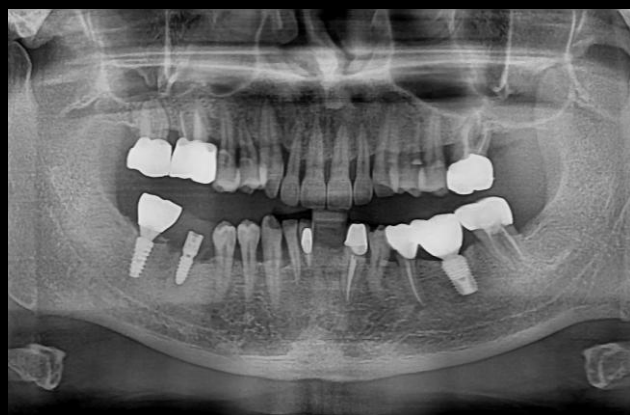


Narrow Ridge Implant Placement with Minimal GBR



Dr. SM Chung

2026.07.03 (Fri)

This Month's Surgery

Patient Information

Age / Sex : 55y/ M

Chief Complaint

: My temporary front tooth flipper broke, and I would like to replace it with an implant

Past Dental History

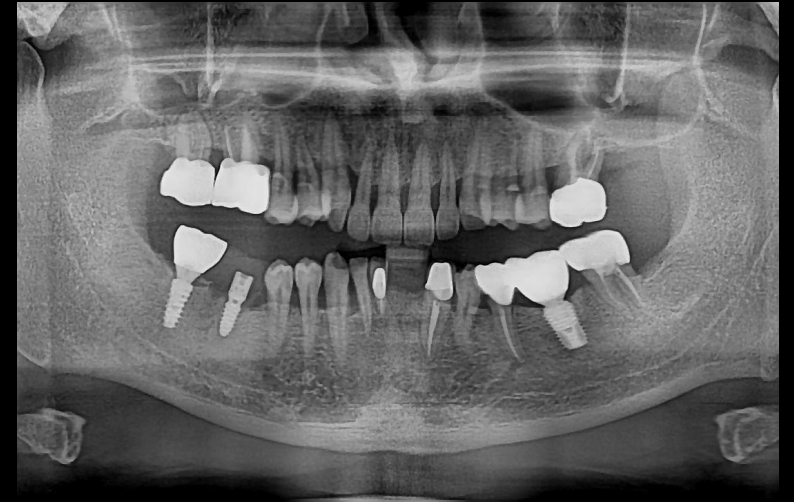
: Implant placed at #46,47,36

Endodontic treatment on #17,16,26,41,33,35,37

3 months ago, provisional restoration delivered on #46

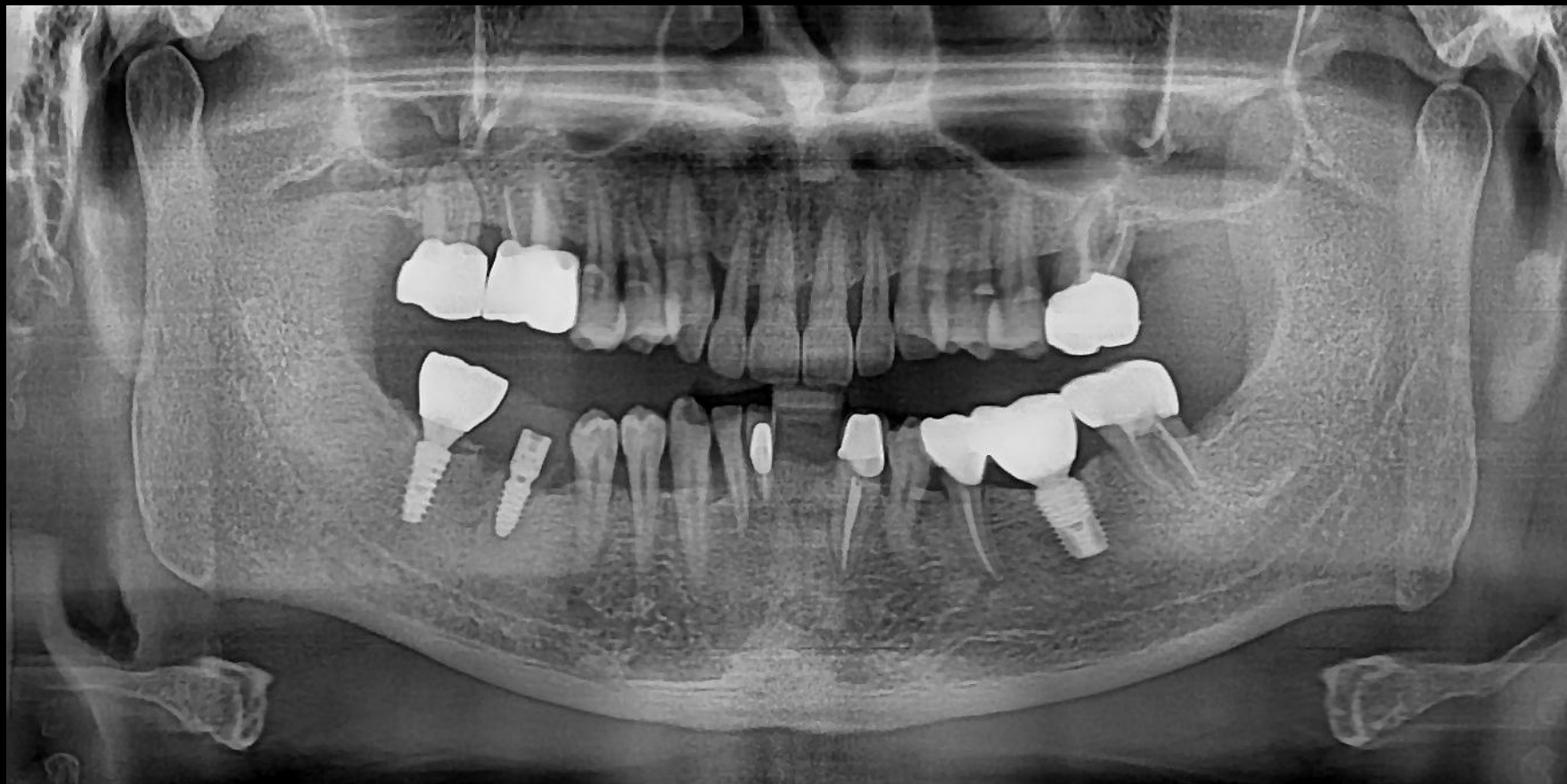
Past Medical History

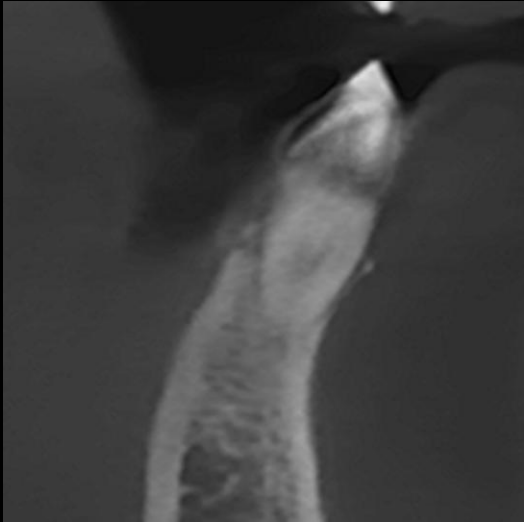
: Hepatitis



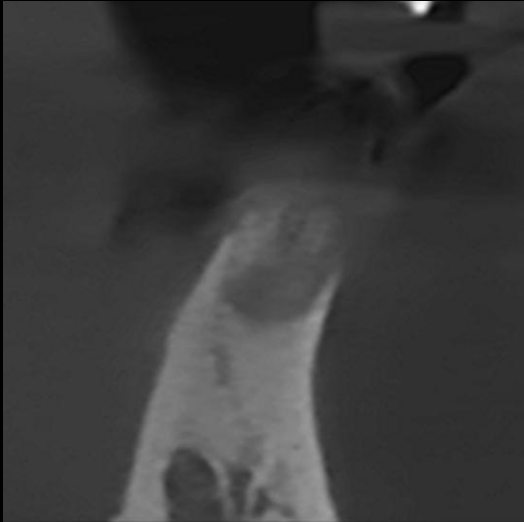
Pre-op







#42



#32

Surgery Plan (#42,32)



- Extraction of teeth #41,42
- Bone and soft tissue grafting using **OSTEON™ Xeno** and **Collagen Graft x1D**
- Implantation on #42 and #32 using **bright Tissue Level (Ø2.5 X 11.0)**

Tissue Level bright Implant

20° External Taper with External Hex Connection for enhanced prosthetic stability

20°

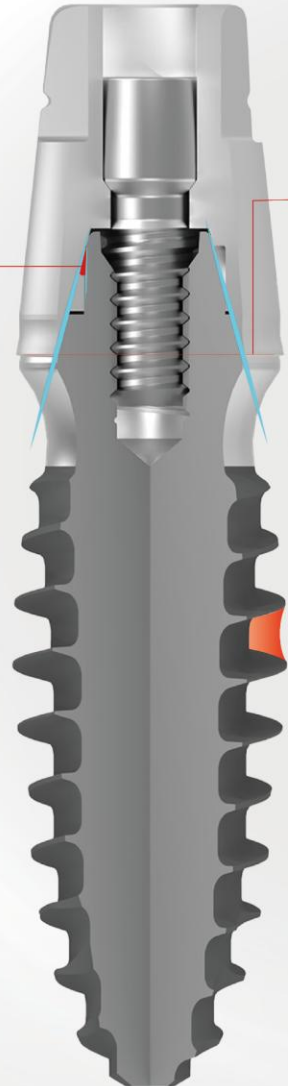
One Platform, One Prosthetic Connection for restorations from anterior to posterior regions

Ø 3.8mm

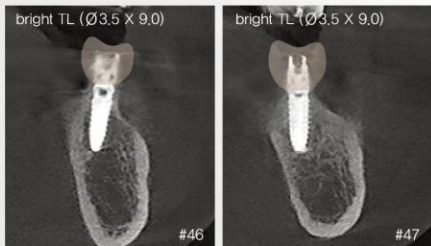
1.5mm G/H Under-contoured Design to support optimal soft tissue contouring

Thin and Deep Thread Design Maximizes contact with cancellous bone for increased long-term stability

Dome Shaped Body Enhances Primary Stability Better BIC on Cancellous Bone Marginal Bone Preservation

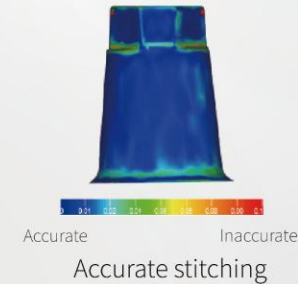


Ø2.0, 2.5, 3.0 Fixtures
→ suitable for placement in narrow anterior ridges



Ø3.5
→ Provide reliable solutions even in posterior regions

Simple but Versatile - Multifunctional Abutment



3-side step design

Digital Abutment

From healing to final prosthesis, with only one abutment



Healing Abutment

Impression Coping

Scan Body

Permanent Abutment

Ti-Base

Open-type design for anterior region with up to 25° angulation compensation



OSTEON™ Xeno

Only Bovine Cancellous Bone (100% HA)

OSTEON™ Xeno is chemically and structurally comparable to mineralized human bone

Only cancellous bone (Without cortical bone)

- Highly interconnected macro-/micropores
- Enables efficient absorption of blood, nutrients, and growth factors

Strict quality control

- Bovine bone from 6-month-old cattle
- Complete removal of organic substances



Indications

- Alveolar ridge preservation
- Extraction site & Osteotomy
- Horizontal & Vertical bone augmentation
- Periodontal defects



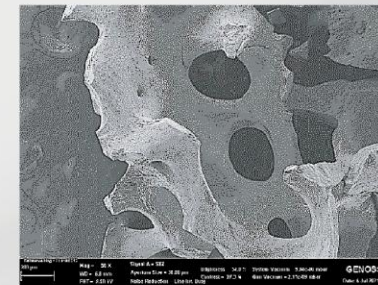
Excellent wettability



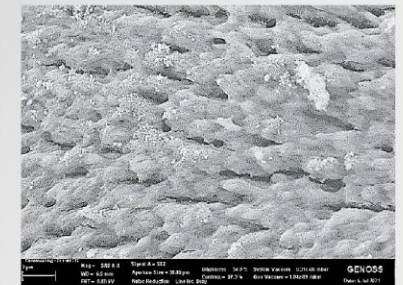
OSTEON™ Xeno surface structure



Macropore (OM)



Macropore (x50)



Macropore (x1000)

Collagen Graft x1D

Highly Pure Type I Collagen (Porous 80-90% + Dense 10-20%)

Promotes rapid vascularization and epithelization → Enhances soft-tissue volume

Characteristics

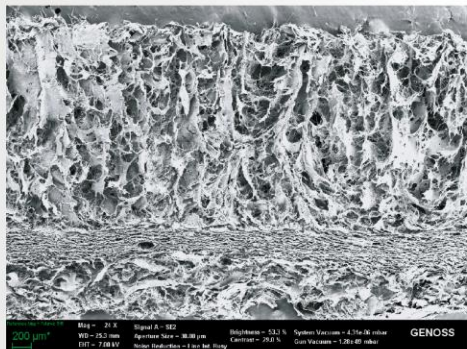
- Highly pure Type I collagen derived from porcine tendon
- A dense structure provides stability while allowing open healing.
- A porous layer structure supports blood clot stabilization and ingrowth of soft tissue cells.

Indications

- Ridge preservation (Open healing)
- Soft tissue augmentation
- Recovery of keratinized mucosa
- FGG alternative (Apically Positioned Flap)
- Root coverage

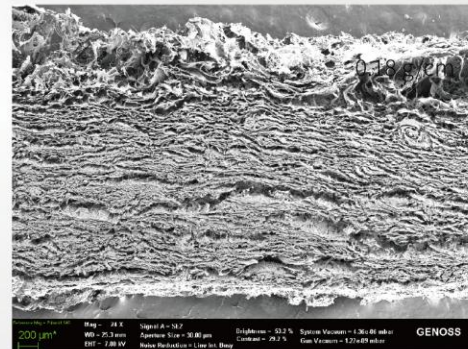


Collagen Graft x1D

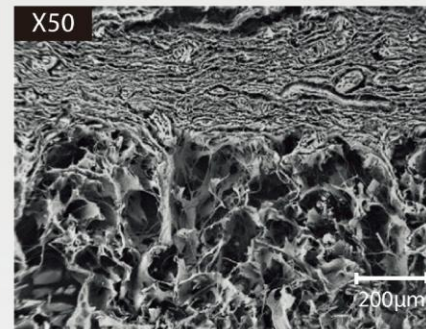


Collagen density : 0.08 g/cm³

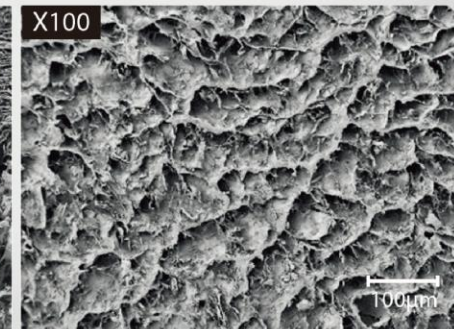
Collagen Graft x2D



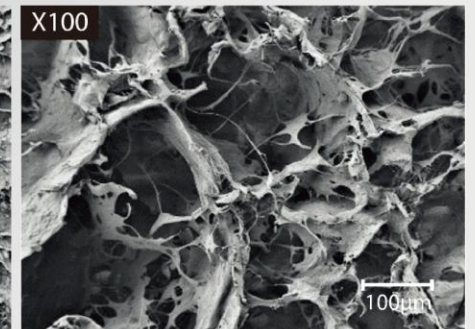
0.18 g/cm³



Cross section



Dense layer



Porous layer

