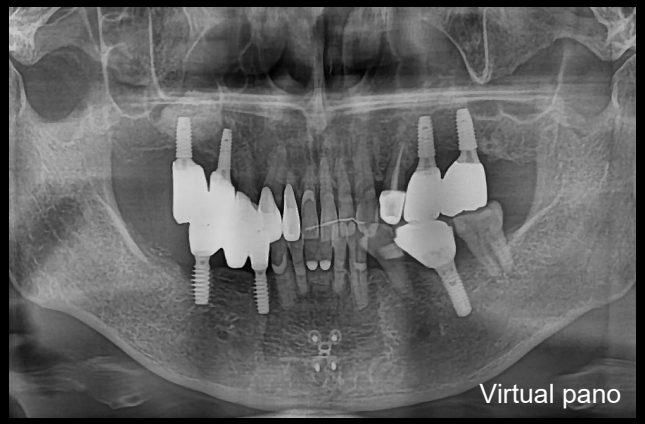
Monthly Surgery Video

Immediate Implantation with GBR



Dr. SM Chung

2026.02.06 (Fri)

Patient Information

Age / Sex : 71y/ F

Chief Complaint

: My front tooth (#11) keeps tilting, and I'd like to get an orthodontic and prosthodontic consultation.

Past Dental History

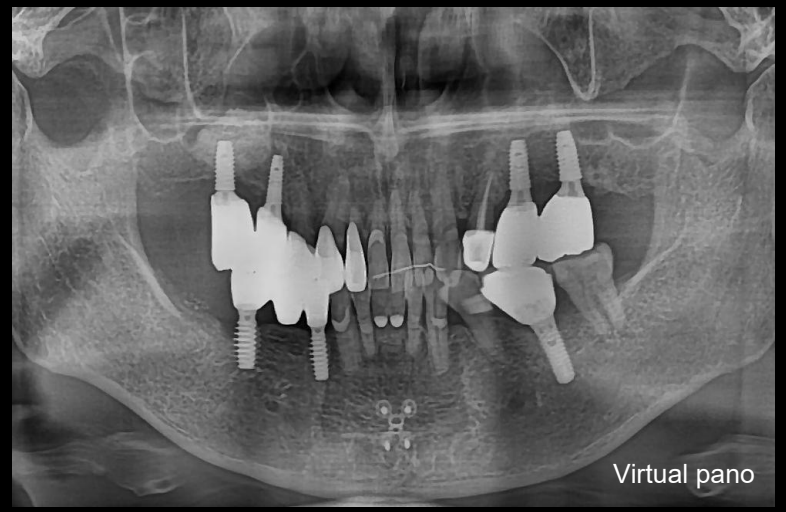
: Hx of extraction of four premolars for orthodontic treatment.

Implantation on #16,15,25,26,35,44,46

Endodontic treatment on #24

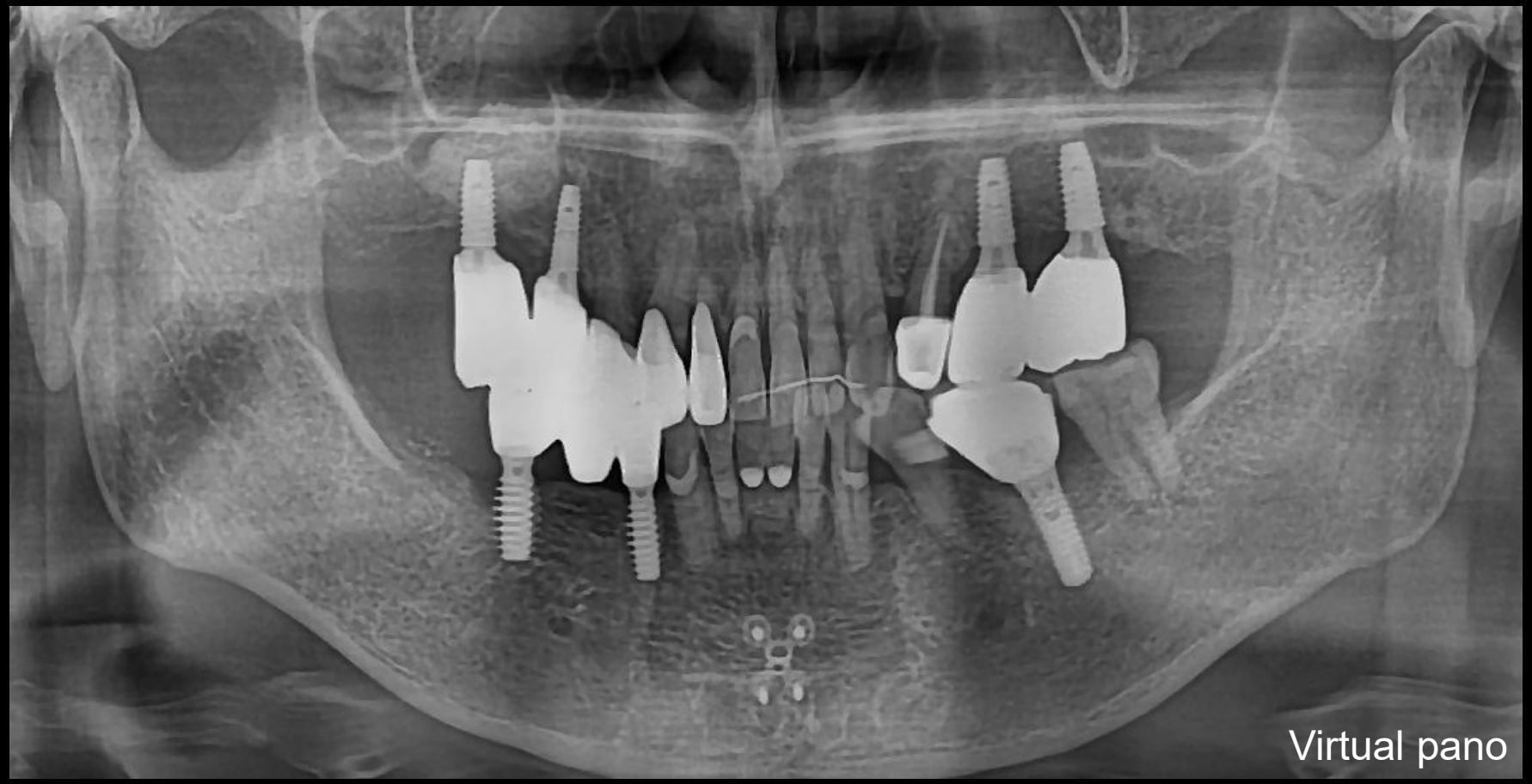
Past Medical History

:Hx of hypertension and allergy to Amoxicillin.



Pre-op

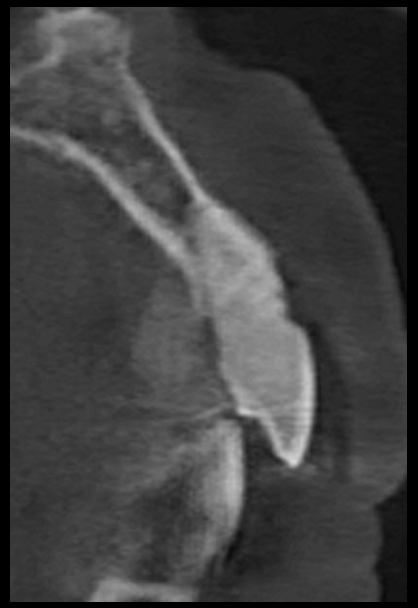
Pre-op PA



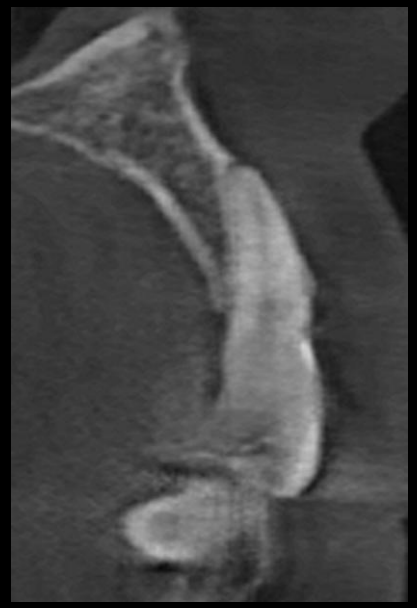
Pre-op CT

#12

#11

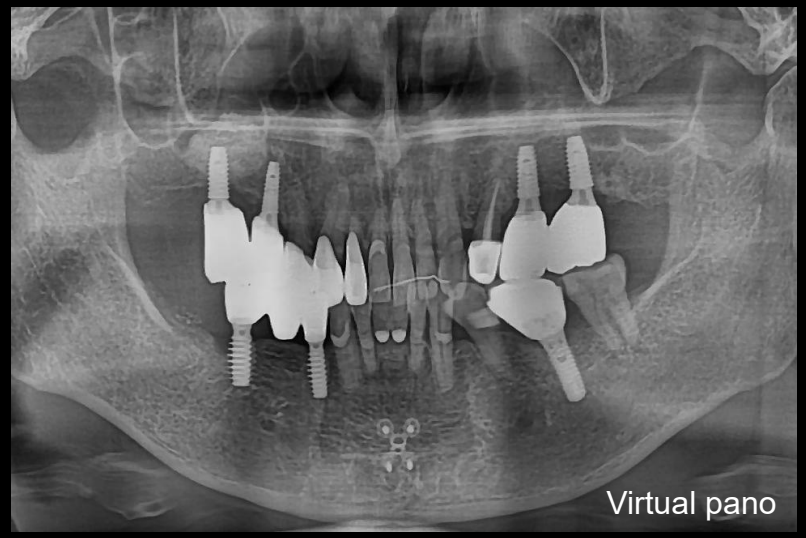


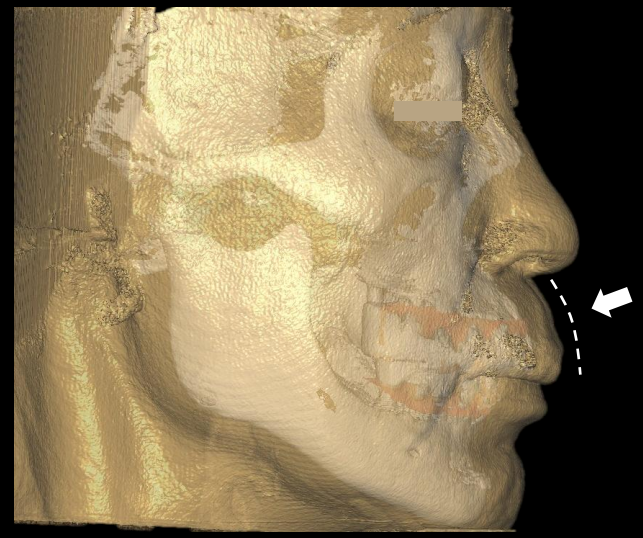
#21



#22

Surgery Plan (#12,11,21,22)



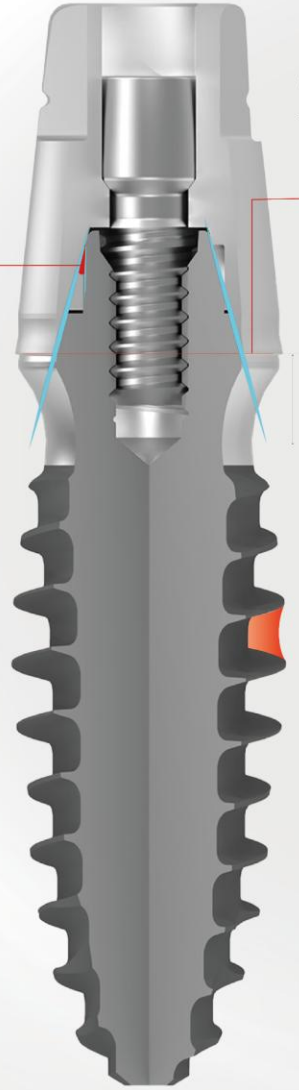


- Extraction of teeth #12, 11, 21, 22
- Implantation on #12 and #22 using bright Tissue Level (Ø2.5 X 11.0)
- Bone and soft tissue grafting using OSTEON™ Xeno Collagen and Collagen Graft x2D
- Graft volume control during socket preservation for esthetics in a protrusive profile

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

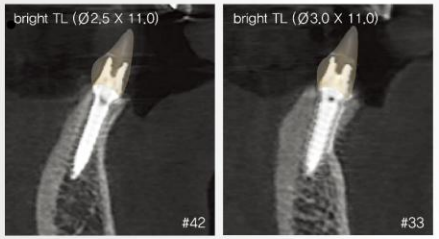
Ø3.8mm

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

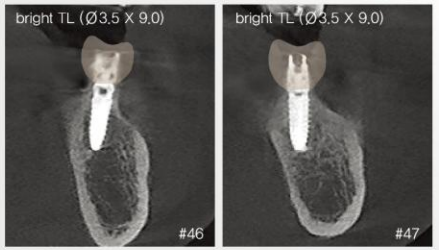
Thin and Deep Thread Design
Maximizes contact with cancellous bone for increased long-term stability

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

bright TL implants provide multiple clinical benefits, enabling safe, predictable, and minimally invasive treatment

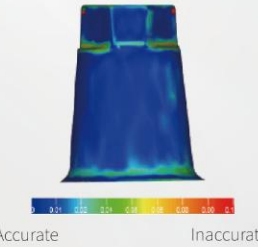


Ø2.0, 2.5, 3.0 Fixtures
➡ suitable for placement in narrow anterior ridges



Ø3.5
➡ Provide reliable solutions even in posterior regions

Simple but Versatile - Multifunctional Abutment



Accurate stitching

3-side step design

Digital Abutment
From healing to final prosthesis, with only one abutment

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

OSTEON™ Xeno Collagen

92% OSTEON™ Xeno Bovine Cancellous Bone (100% HA)
+ 8% Porcine Type I Collagen

Osteoconductive bone graft material

Only cancellous bone (Without cortical bone)
- Highly interconnected macro-/micropores

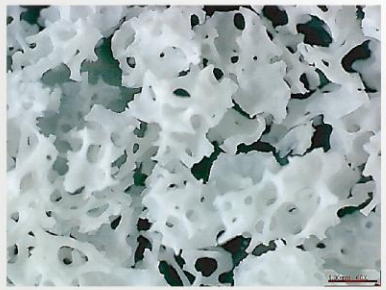
Strict quality control
- Bovine bone from 6-month-old cattle
- Complete removal of organic substances

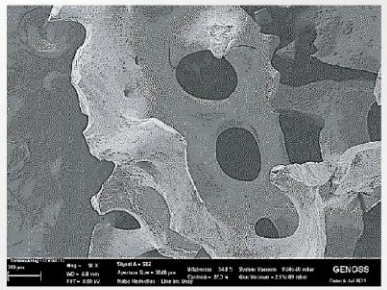
Collagen scaffold
- For easier handling and reduced chairtime

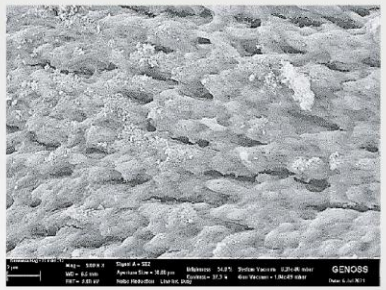
Applications

- Guided bone regeneration
- Contour augmentation
- Alveolar ridge preservation
- Sinus lift

OSTEON™ Xeno surface structure


Macropore (OM)


Macropore (x50)


Macropore (x1000)

Excellent wettability

Collagen Graft x2D

Highly Pure Type I Collagen (Porcine tendon)

Collagen graft x2D provides twice the density of Collagen Graft x1D
and shows amazing tensile strength and is easily secured with sutures

Promotes rapid vascularization and epithelialization ➡ Enhances soft-tissue volume

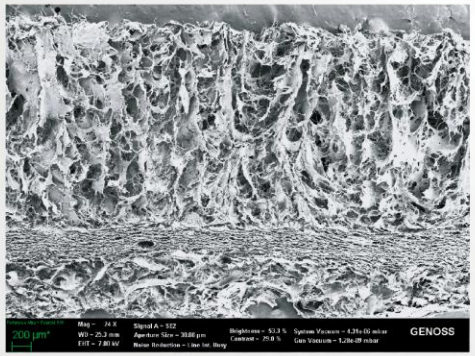
Characteristics

- Type I collagen derived from porcine tendon
- Double-layer structure: dense + porous layer
- Degradation time : Approximately 1 month

Applications

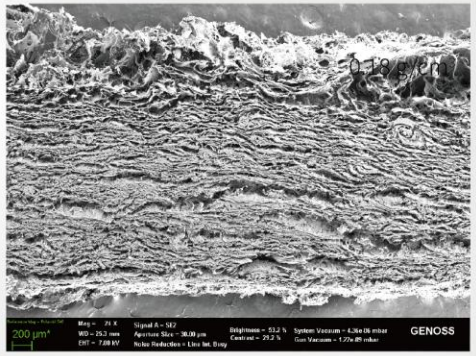
- Ridge preservation (Open healing)
- Soft tissue augmentation
- Recovery of keratinized mucosa
- Root coverage

Collagen Graft x1D

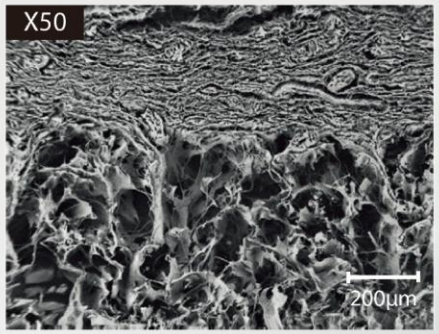


Collagen density : 0.08 g/cm³

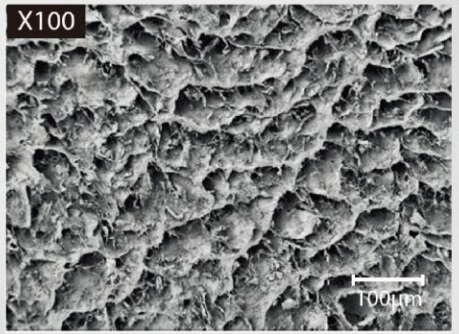
Collagen Graft x2D



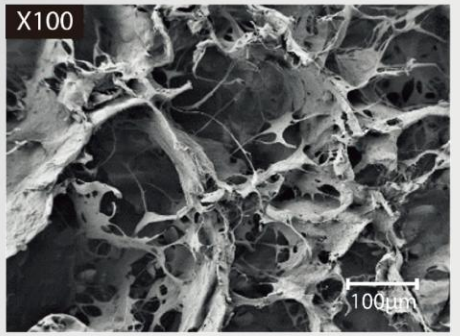
0.18 g/cm³



Cross section



Dense layer



Porous layer