

Bone Grafting



Tooth # 19 distal
9 mm pocket
Bleeding on probing
Subgingival calculus



5 years post op

Open cleanout periodontal surgery with
demineralized freeze-dried bone allograft
and resorbable membrane

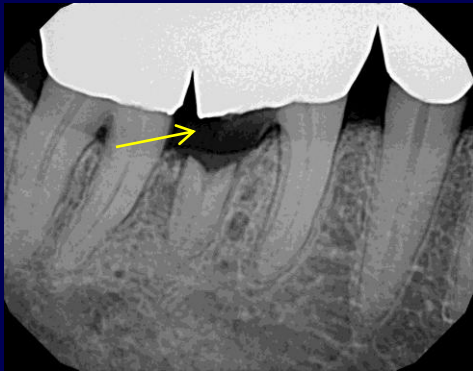
4 mm sulcus
No bleeding on probing



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35 years in practice

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Extraction / Bone Graft Ridge Preservation



Patient presents with recurrent decay tooth # 30



Immediately after extraction.



Immediately after bone graft for socket preservation.

**A BETTER WAY TO LEAVE THE OFFICE
IN PREPARATION FOR A DENTAL IMPLANT**

Extraction / Bone Graft Ridge Preservation



Fractured cups on a lower molar.

Occlusal View



Lingual View

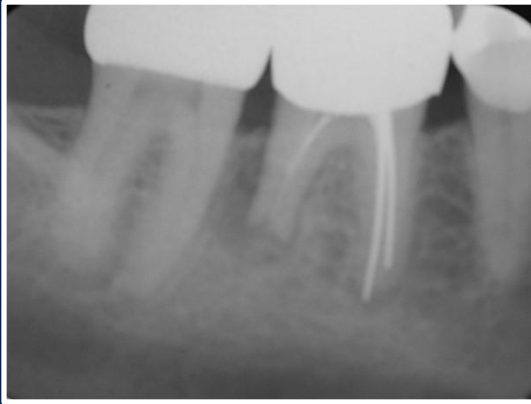
Immediately after extraction.



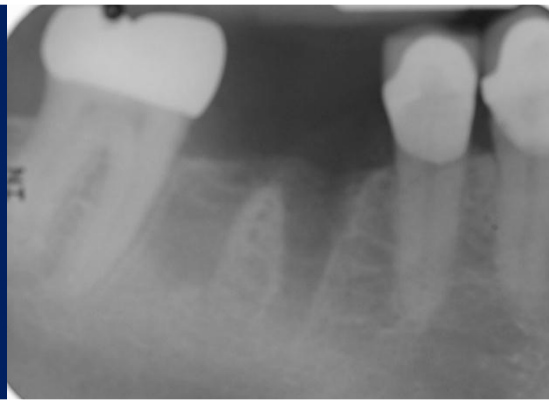
Immediately after bone graft.

Coronally positioned flap
for primary closure.

Extraction / Bone Grafting for Ridge Preservation



Failing molar



Immediately after tooth removal



Immediately after placing
bone graft into socket

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EXTRACTION / IMMEDIATE BONE GRAFT RIDGE PRESERVATION FOR FUTURE IMPLANT



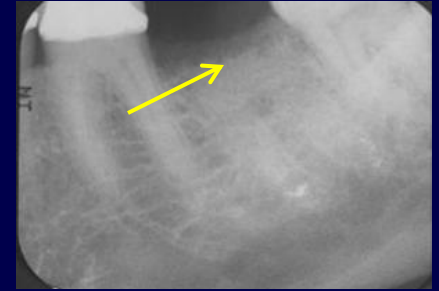
Recurrent decay
under crown # 18
Involving furcation.



Patient returned months
later, after crown broke off.
The tooth is fractured and
the furcation worse.



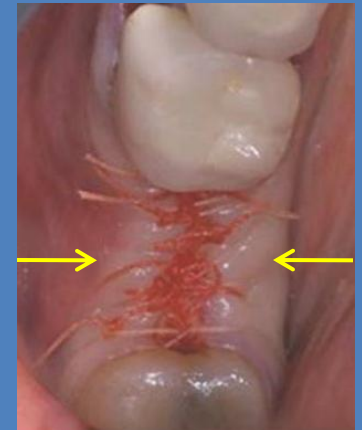
Immediately after extraction.



After immediate bone graft.

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Primary closure obtained
by coronal positioning of
buccal and lingual flaps,
retaining bone particles.



Fractured molar Socket preservation



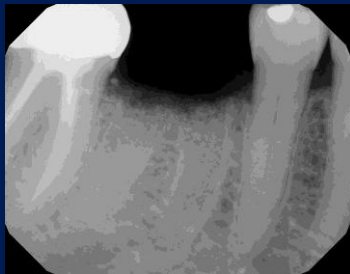
Fractured lingual cusps
tooth # 19



Fracture at the bone level on
the distal and involving the
lingual furcation



Immediately after
surgical extraction



Immediately after placement
of bone graft to preserve socket.



Flaps are pulled together for
primary closure with resorbable
sutures that last two weeks.



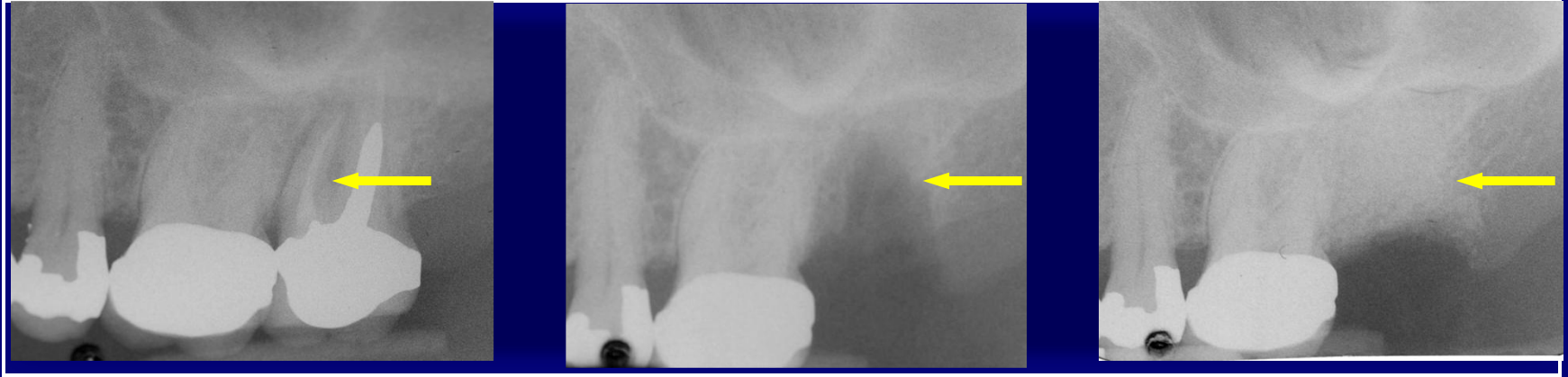
Occlusal view of sutured flaps

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Extraction / Bone Graft



Fractured Tooth

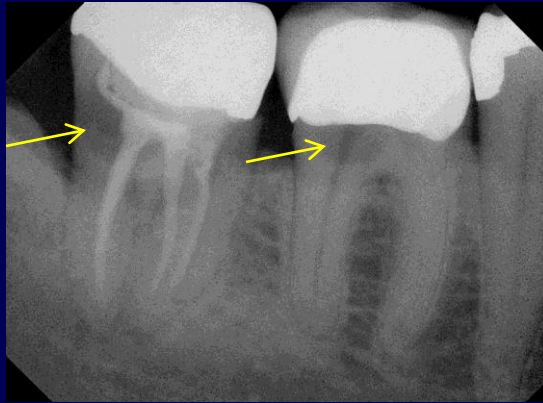
Just After Tooth Removal

Immediately After Bone Graft Placed

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In Preparation For A Dental Implant**

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Extraction / Bone Graft Ridge Preservation

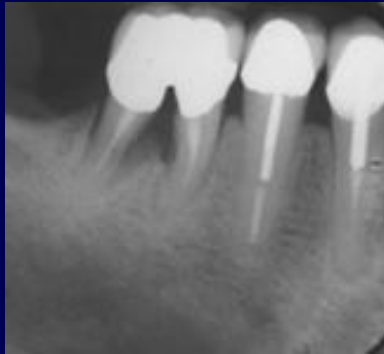


Patient presents with recurrent decay teeth #'s 30, 31.
He does not have tooth # 2 above. Both molars were extracted.
Tooth # 30 was bone grafted in preparation for a dental implant.

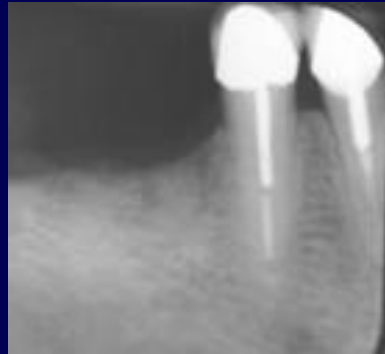


A better way to leave the office in
preparation for a dental implant

Extraction / Bone Graft Single Tooth Dental Implant



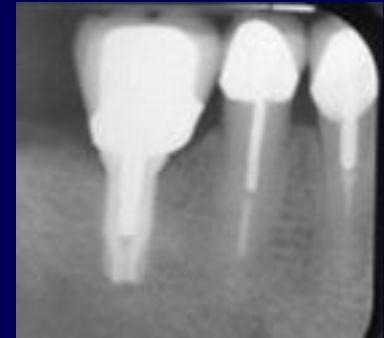
Failing molar # 30



Extraction and immediate
bone graft placement for
ridge preservation
and regeneration



4 months after
extraction / bone graft

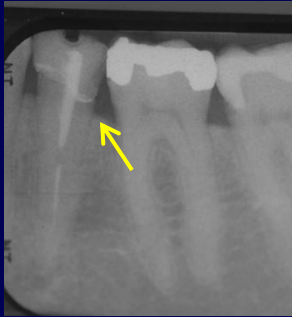


3 months after
one-stage implant

One-stage implant placement
(implant and abutment)

Final implant crown

Crown Lengthening Procedure



Tooth # 20 had root canal treatment and a temporary post and crown.



Violation of biologic width
on distal and lingual.



5 weeks after crown lengthening surgery.



After permanent crown



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Connective Tissue Grafting

Teeth Numbers 6, 9, 11



Connective Tissue Graft

Two views of the same case



Mucogingival defects with severe toothbrush abrasion.



After connective tissue graft.

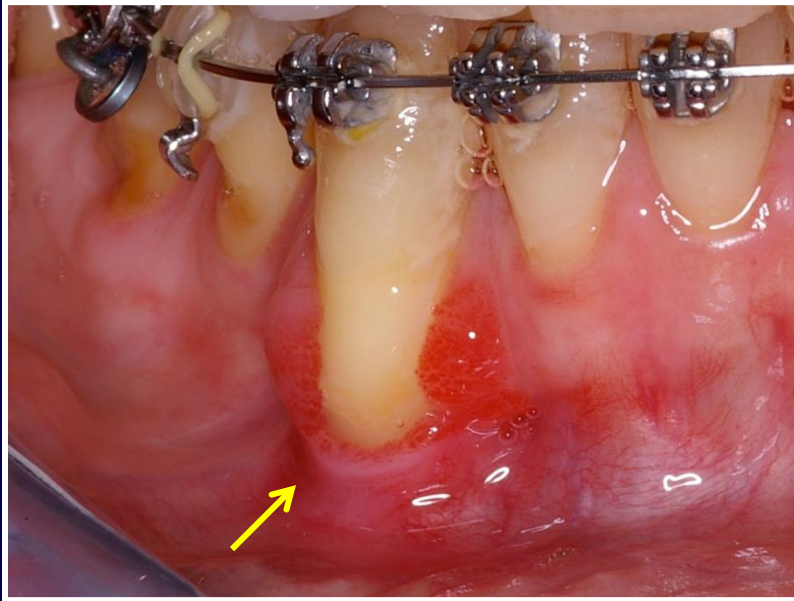
Tissue is attached to the roots and does not probe.



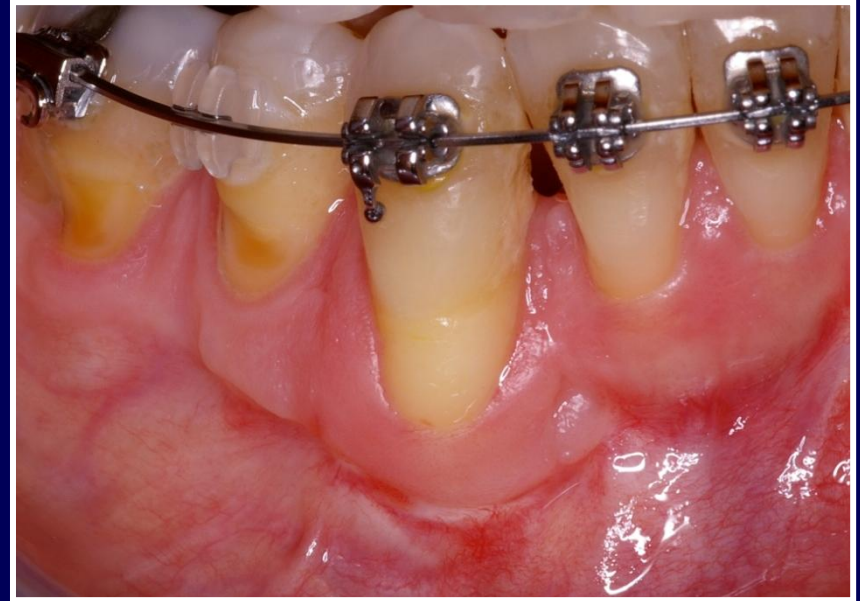
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Free Gingival Graft



Significant periodontal breakdown during orthodontic movement on an adult patient.



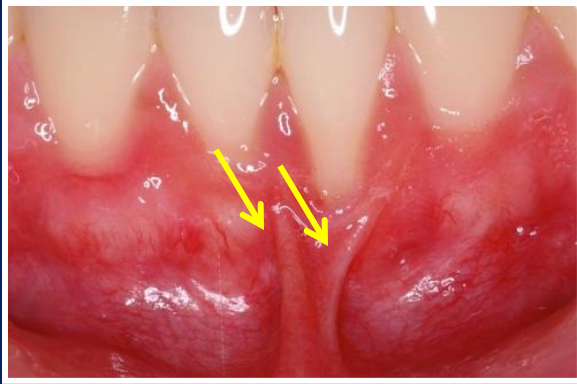
Active movement stopped.
Free gingival graft #'s 27, 28.
Active tooth movement continued six weeks later.



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Free Gingival Graft



Aberant frenal attachment
causing gingival recession



After frenectomy and free gingival graft



Generalized recession
progressing on lower anterior teeth



After free gingival graft teeth #'s 21-24



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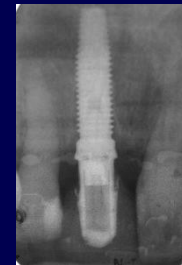
Flapless Extraction, Immediate Implant, Non-loaded Provisional



Same Day



Four Weeks



Final Crown
7 months



SINGLE TOOTH DENTAL IMPLANT



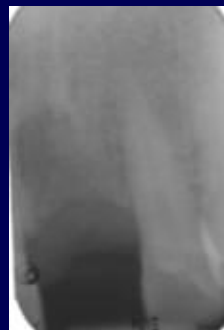
Broken and decayed tooth # 9



(Large incisive foramen)



- Immediately after extraction



- Immediately after bone graft and membrane



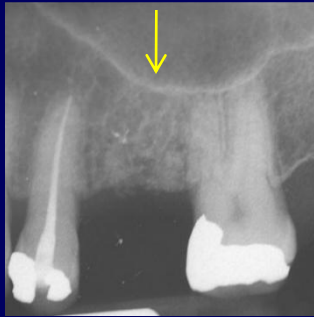
- Dental implant placed 6 months later



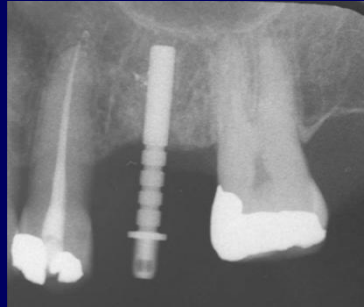
Final crown placed 4 months later



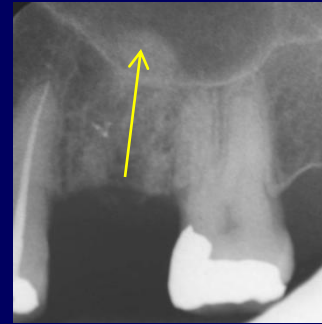
Osteotome Sinus Lift Immediate Implant Placement



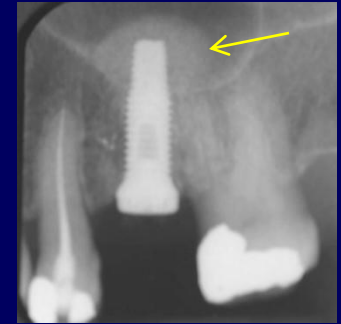
Pre-op of missing molar
Note floor Of maxillary sinus



Radiographic depth
gauge shows sinus
floor just above 7 mm



Radiograph of bone graft
where sinus is elevated



13 mm dental implant
placed at the same visit



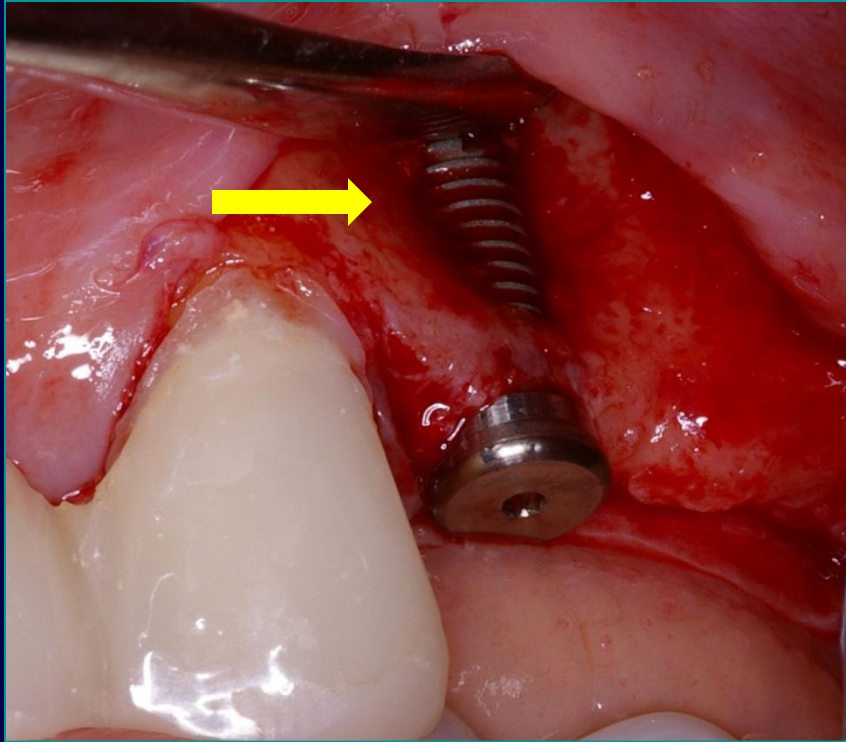
Radiograph 5 year post-op



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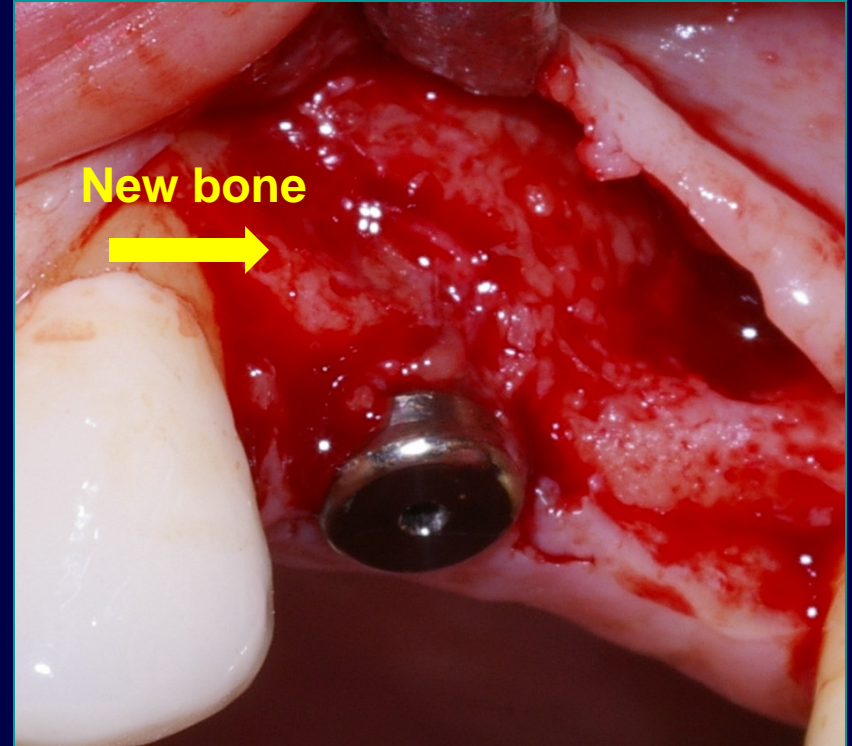
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Guided Bone Regeneration (GBR)



Exposed implant threads
at time of placement

Placed bone graft
and non-resorbable
membrane (Gore-Tex).



6 months later
membrane removed.
New bone formed
around implant.

What is the purpose of pocket reduction surgery?

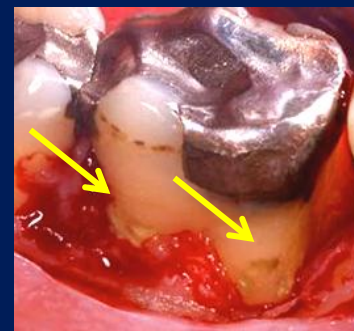
Access to root surfaces



5 mm pocket on distolingual # 19.



10 mm pocket on mesiolingual # 19.



Soft tissue flapped back to demonstrate calculus present on root surface. This patient had SRP previously.

Access to bone



Palatal view of upper first molar with 7mm pocket.



Soft tissue flapped back to demonstrate excess bone thickness in this area. The excess bone contributes to the pocket and needs to be trimmed via osteoplasty.



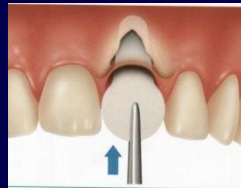
5 year post-op showing no pocketing due to improved bony anatomy. The patient cleans with an interproximal brush.

**Fractured lateral incisor prior to orthodontic treatment.
Future implant site.**



Adult male fractured upper right lateral incisor prior to beginning orthodontic treatment.

Tooth was flaplessly extracted with piezotome surgery to preserve thin buccal plate.



Insertion of Biomend membrane.

The membrane helps to rebuild the buccal plate and cover the socket in order to retain the bone graft.



Immediately after Biomend membrane and bone graft placed.



Immediately after membrane is sutured.



Two week post-op with braces and provisional denture tooth in place.



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Ridge Preservation



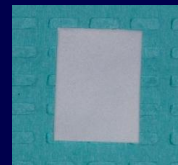
Patient fractured crown tooth # 7



Vertical tooth fracture and facial plate bone loss precluded an immediate implant



The tooth was atraumatically removed



A piece of Biomend-Extend was cut and shaped in order to help rebuild the thin buccal plate and cover the socket in order to retain the bone graft



Puros Demineralized Bone Matrix (DBM) Putty with Chips placed into socket



The membrane is sutured over the socket



Immediately after bone graft placed.



The previously made flipper was placed and adjusted



Single Tooth Dental Implant

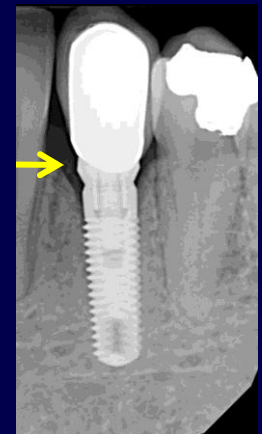
47 year old man with internal resorption of a lower canine from childhood trauma.

Endodontic treatment was done years ago but resorption continued.

Tooth was extracted and immediate dental implant placed.

A flipper was used for 4 months.

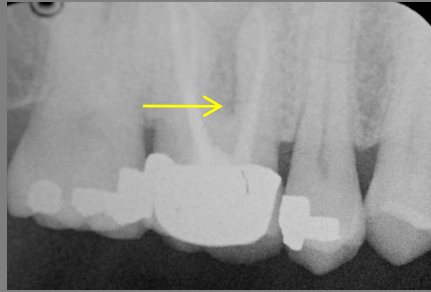
Final implant and crown.



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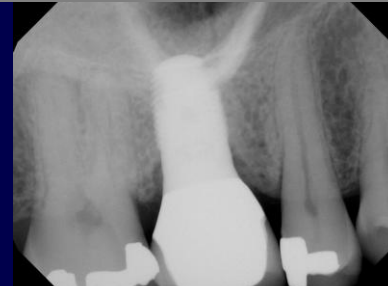
Single Tooth Dental Implant



Fractured molar # 3



After extraction/bone graft
for socket preservation



Implant placed 6 months
after extraction



Implant crown placed
3 months later

Non-restorable upper incisors



This patient had a temporary bridge placed 7 years ago but did not return to complete treatment. The provisional broke off. It was placed back with wire and composite while a flipper was being fabricated.



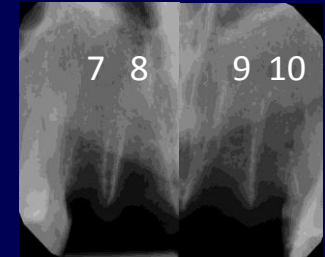
The bridge was sectioned at # 6 and removed.



The remaining tooth structure was not restorable.

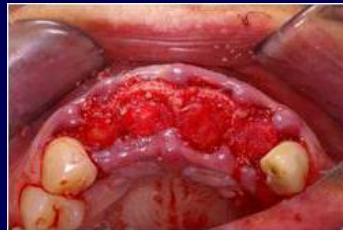


Teeth were gently removed



Immediate dental implants were placed into socket #'s 7 and 10.

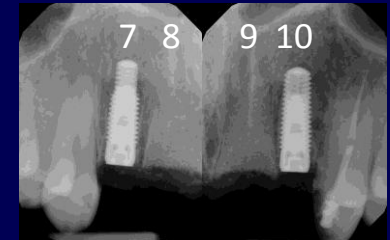
Bone grafts were placed into socket #'s 8 and 9 in order to maintain ridge.



Collagen plugs are placed to retain bone graft and prevent bone from growing over the implants



The area sutured primarily.



Flipper inserted

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Dental Implant

- Does not involve adjacent teeth
- Will not get decay or need root canal in future
- Highly predictable, Long lasting



Before



After

Cemented Bridge

- Adjacent (anchor) teeth prepared
- May get decay or need root canal
- May need future replacement



Before



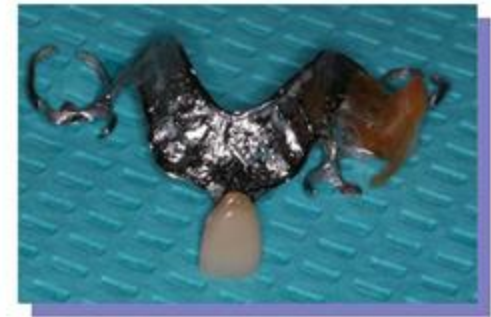
After

Removable Partial Denture

- Clasps may affect anchor teeth (teeth may decay or loosen)
- Removed nightly
- May trap food



Before



After

Tooth extraction without bone grafting may lead to a deficient ridge.



One year after extraction without bone graft. Insufficient ridge width requires additional surgical procedures and delays treatment time before dental implant placement

Tooth extraction with bone grafting maintains ridge.



Extraction with bone graft heals with sufficient ridge width for dental implant placement resulting in decreased treatment and better cosmetics

Tooth extraction Without bone graft



Tooth extracted
No bone graft placed

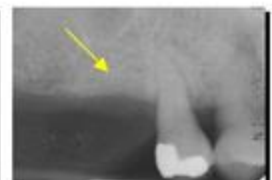


6 months later
Inadequate bone fill

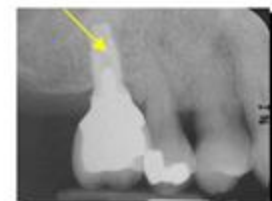
Tooth extraction With bone graft



Extraction of failing tooth



Healed bone graft



Dental implant placed
6 months later



Molar extraction without bone graft at 3 months.
Note the lack of bone density



Molar extraction with bone graft at 3 months.
Note the white bone density

Connective Tissue Graft Five Cases



Before



After



Before



After



Before



After



Before



After



Before



After

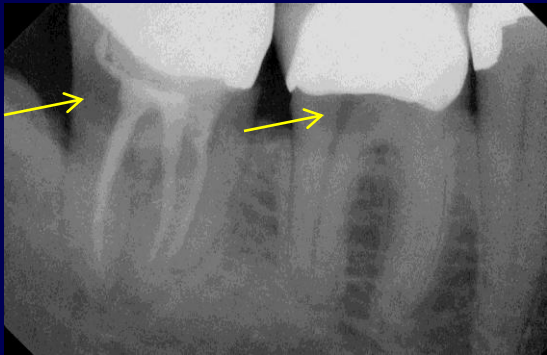
Extraction / Bone Graft for Ridge Preservation



Broken and decayed lower molar.



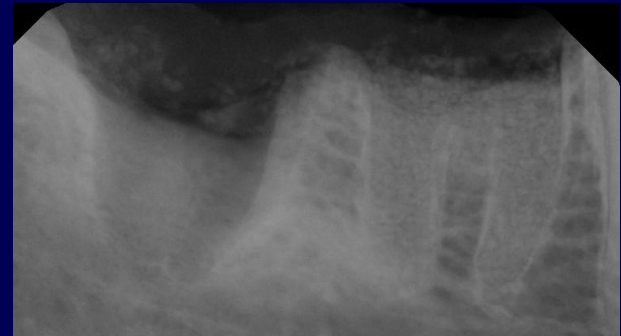
Extraction / Bone Graft Ridge Preservation



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Both molars were extracted.



.Tooth # 30 was bone grafted in preparation for a dental implant.

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