



Ora-Aid



ISO
13485

Attachable Intraoral Wound Dressing

Safe, Easy & Effective

A New Paradigm for Intraoral Healing



Homepage



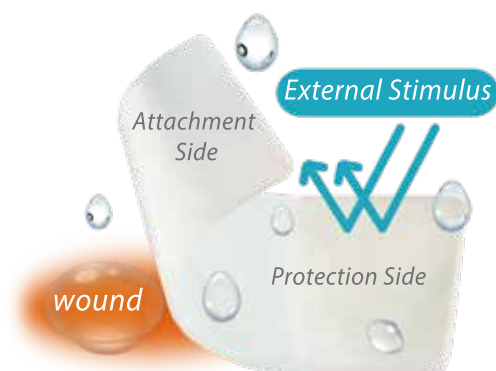
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Features & Benefits

This product is non-eugenol protective dressing material applied to intra-oral wounds.

- Advanced concept in intraoral dressing
- Protects oral wounds from food and cigarette smoke
- Aids in hemostasis
- Protects suture thread from tongue irritation
- Strong adhesion using hydrophilic polymer
- Safe and easy to use. Easy to cut into different shapes/sizes
- Self adhesive with saliva
- Reduces irritation sore in mouth
- Mint flavor reduces halitosis



Attachable in mouth

A new concept pasting intra-oral wound dressing



Protecting wound

Preventing secondary infection and wound, protects the wound from external stimuli



Long duration

Attachable in the oral cavity
(Maxillary:6~12hrs /
Mandible:4~6hrs)



Healing effect

Aids pain relief, protects cure-helping growth factors, protects wound during early wound healing period

Intend to use & Indication

Applicable to any cases in the oral cavity to protect intraoral wounds

- Protect wounds after oral surgery and treatment
- Promote healing after oral surgery and treatment
- Canker sore
- Protect suture thread from tongue irritation
- Protect sore from orthodontia
- Protect fluoride varnish or sensitive teeth



Implantion



Surgery



Periodontal



Extraction



Braces



Stomatitis



Oral wound



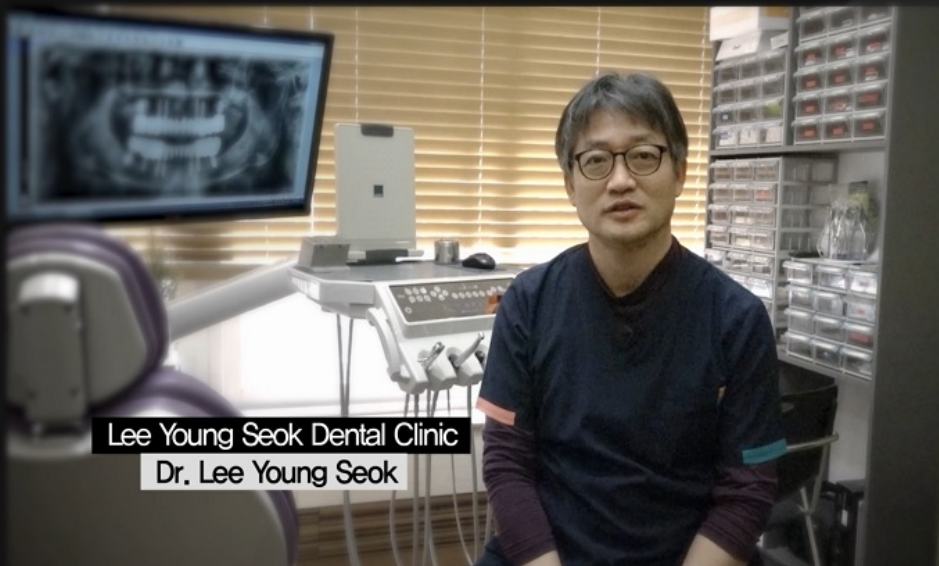
Irritants

TBM Ora-Aid Video



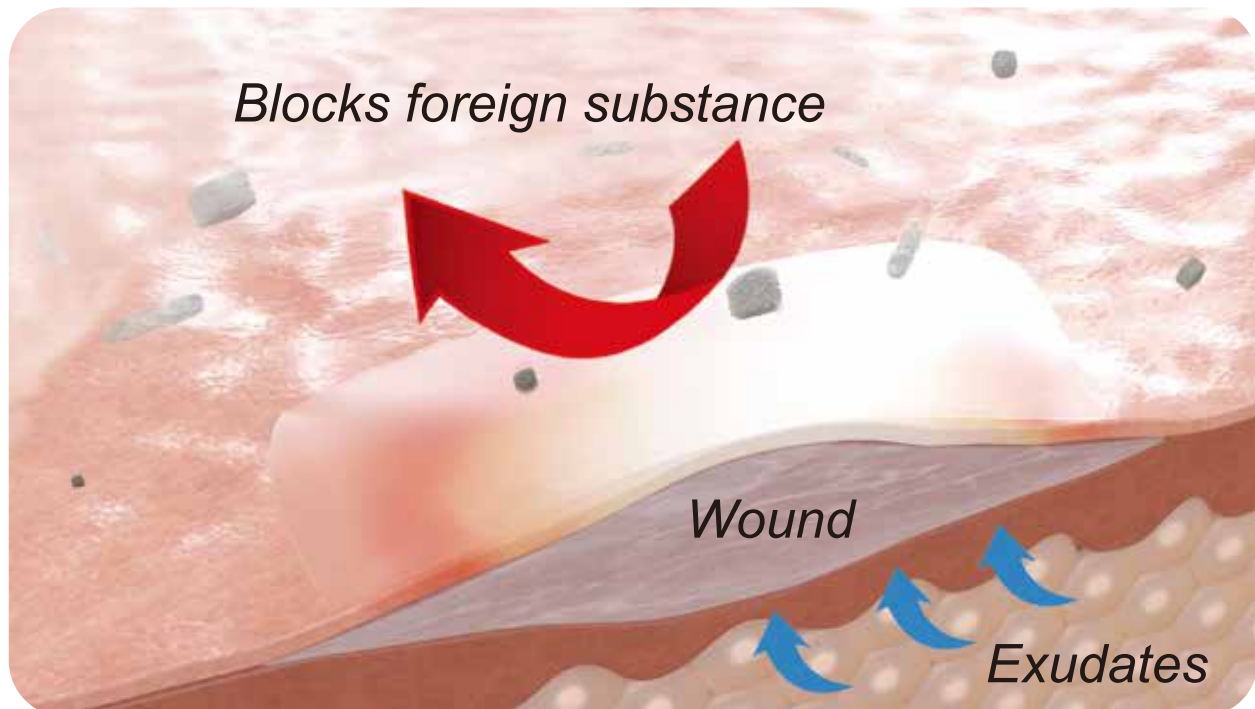
TECHNOLOGICAL
BIO - MATERIALS

Ora-Aid



Lee Young Seok Dental Clinic
Dr. Lee Young Seok

Principal of interaction



01

Absorption of excessive exudate

Too much secretion makes wounded area macerated

02

Remains Healing Growth Factors on the surface of the wound

White Blood Cell, Macrophage, Proteolytic Enzyme Cell, Growth Factors

03

Protects Wound from temperature variation

Insulation improves blood supply and circulation, and makes cell move actively

04

Protects Wound from infection, external stimulus

Foods, smoke, infection factors

Instruction



- 1 Irrigate wound with sterile or saline solution
- 2 Cut Ora-Aid into a proper shape and size
- 3 Slightly remove moisture with gauze on the wound.
An excessive exudation may reduce its adhesive strength and its use time
- 4 Remove transparent release paper and apply on wound
- 5 Gently press Ora-Aid for 5 to 10 seconds while Ora-Aid adheres to wound
(According to circumstances, please press repeatedly)

Incorrect usage case



At moving mucosa and tongue



Too much saliva and blood



At dry wound



Do not use on Chronic ulcer cases



Space created due to incorrect attachment


Recommendations for use of product

Compared to the movable mucosa, the attachment time is extended at the attached gingiva, Maxillary, and plate



Caution & Storage

CAUTIONS

 This medical device is for single use. If reused, the product may cause infection, cross infection, and inflammation. This product shall be disposed in accordance with disposal regulation of each CA for fear of infection.

1. Please carefully read the instructions before use.
 2. If you experience any swelling, allergic reaction, upset stomach or any signs of infection, consult with your doctor.
 3. If the product is removed forcibly, the wound may come off. The attachment side automatically falls off when it dissolved completely in the mouth.
 4. Remove the dropped protection layer from the wound.
 5. Pay particular attention if it is being used on young children under 5 years old.
 6. The time of attachment may be reduced when stimulated by tongue or food.
- A notice to the user and/or patient that any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

Storage

1. Store indoors (1°C~35°C) in a clean place.
 2. Avoid fire, direct sunlight, and high temperature environment.
 3. Keep out of reach of children.
- This product may be hardened according to the storage and management method. Although its adhesion lasts at least 4 hours, the attachment method and the environment may result in longer or shorter adhesion times.
 - Some bubble on the surface of the strip are from the manufacturing process and are safe

Products



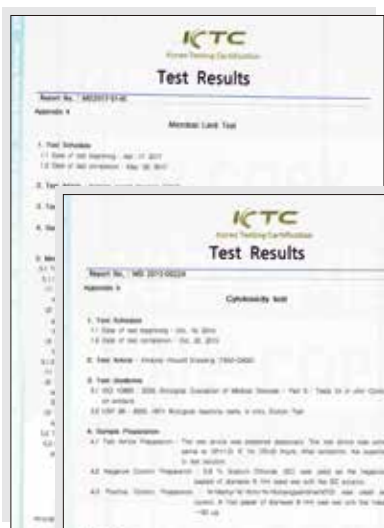
Quantity	20 ea	20 ea
Color	Red	Mint
Size	25x15mm	50x15mm
Code	AG-202A	AG-205A



Test Reports / Quality Certificates



▲ Acute systemic Toxicity Test



◀ Microbial Limit Test



▲ Cytotoxicity Test



▲ Subchronic systemic toxicity



▲ GMP



▲ ISO 13485

Excellent pain reduction!

The test results showed that Ora-Aid has a much better pain reduction effect than the existing products.



Periodontal Pak

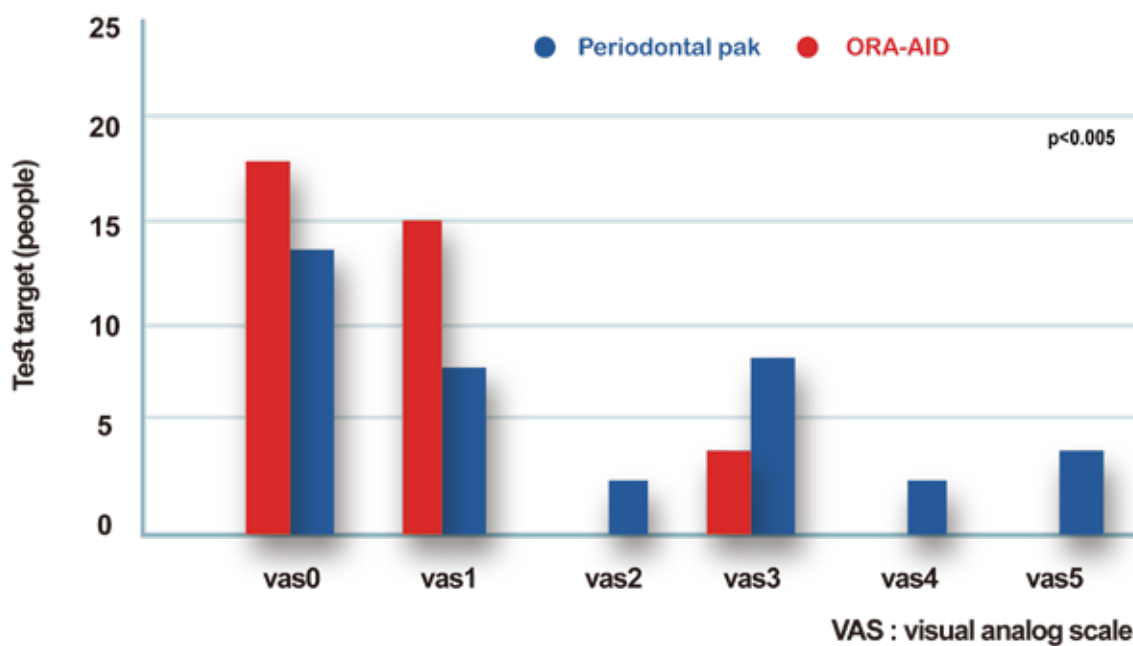


Ora-Aid

Periodontal Pak(Left) and Ora-Aid(Right) were applied after modified Widman flap

Pain scale

(Visual analogue scale for the assessment of postoperative pain)



Patient Satisfaction!

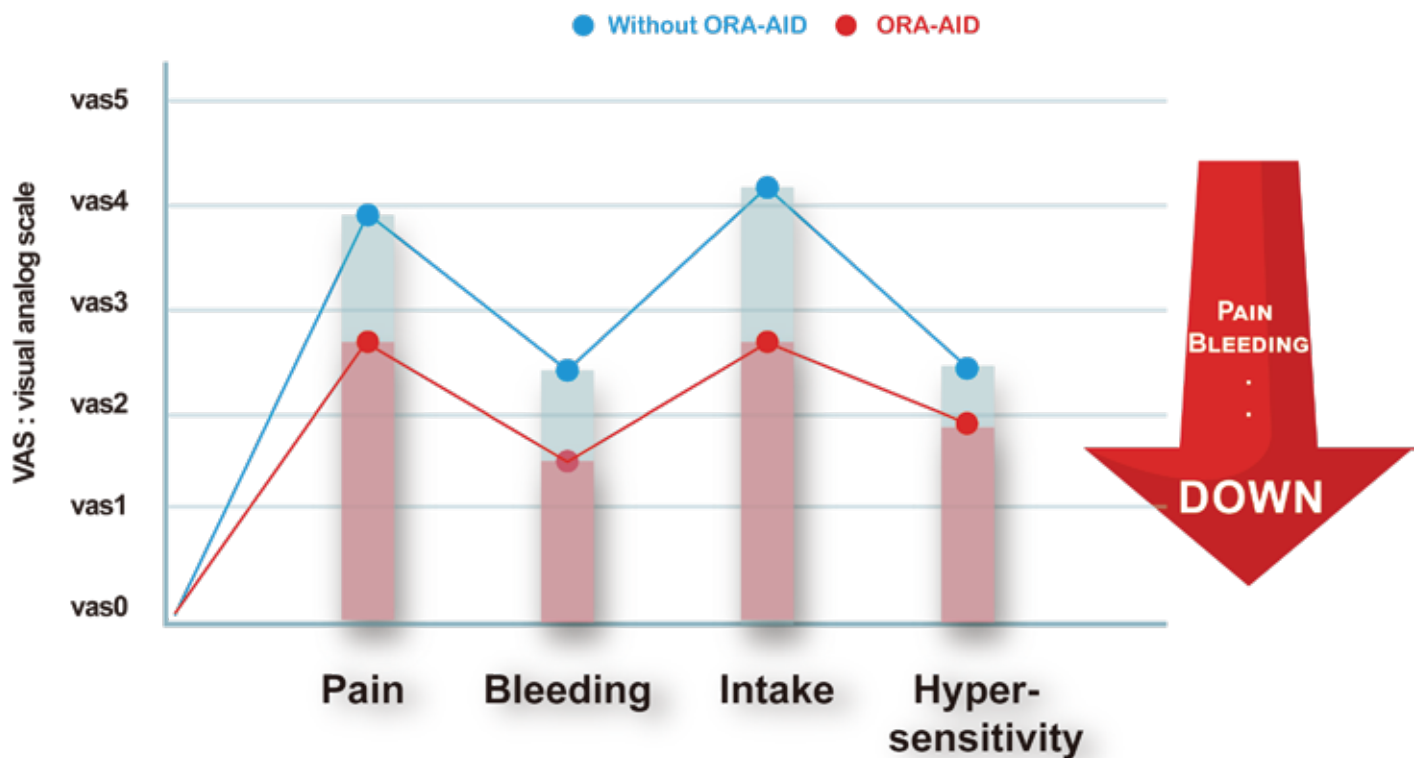
”

Postoperative pain, bleeding, dietary discomfort and hypersensitivity Proven effectiveness !!

“

Severity of discomfort

(Severity of discomfort (VAS score) in surgical sites with and without attachable periodontal wound dressing)



* Significantly different ($P < 0.05$). SD: standard deviation, Vas: visual analogue scale.

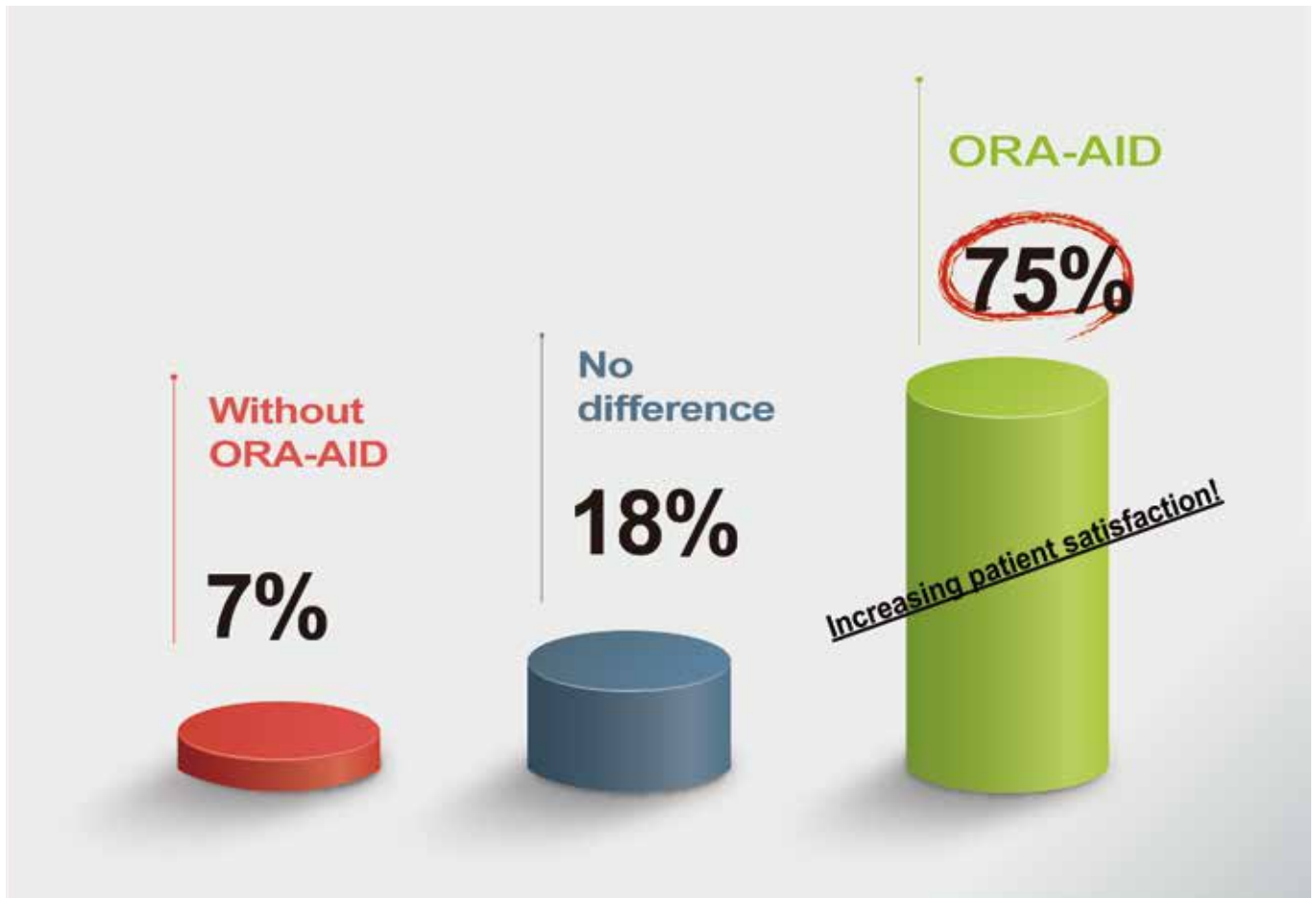
Patient Satisfaction!

Ora-Aid protects the intra-oral wound from the foreign substances, reducing pain, bleeding and dietary discomfort, increasing patient satisfaction.



Patient Satisfaction

(Surgical Site Satisfaction Survey)



75% of the subjects selected surgical sites using attachable wound dressing.

Excellent healing effect

”

Ora-Aid has identified excellent wound healing and rapid collagen production at excision/inflammatory model in the oral cavity.

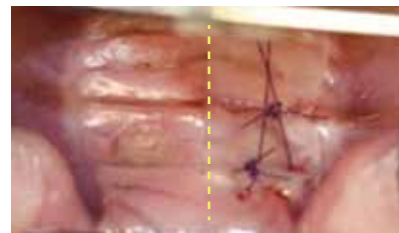
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Before surgery



Rabbit palate wound



Without ORA-AID ORA-AID

Excision model

3 days

7 days

14 days

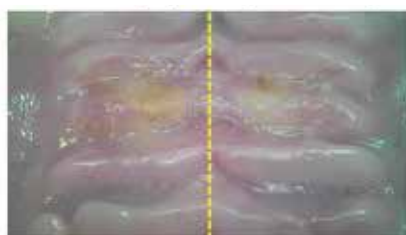


Burn model

3 days

7 days

14 days

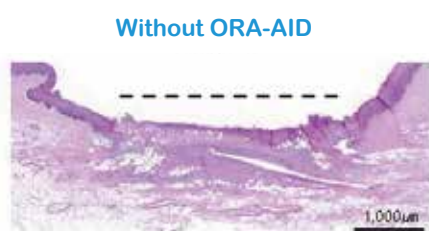


Excellent healing effect

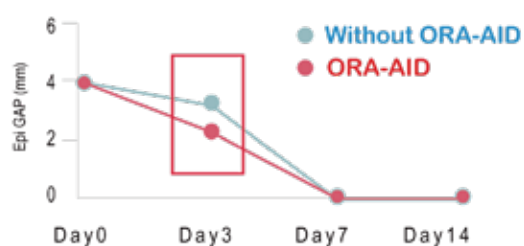
promotes excision healing in the mouth and preserves growth factors in the base of the wound surface for a long time.

Excision model Day 3, Epithelial GAP decreased

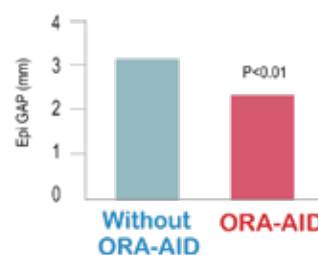
A. Organizational photo



B. Epithelial GAP



B. Epithelial GAP : Day3



Burn model Day 3, Burn area decreased

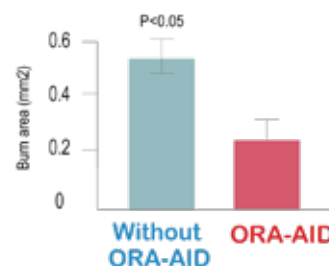
A. Organizational photo



B. Epithelial GAP



C. Burn area



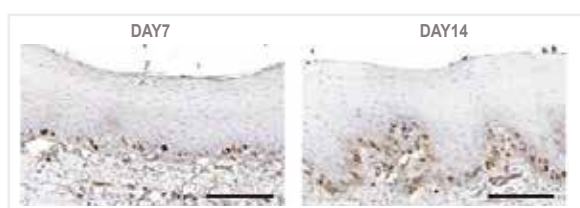
A. Organizational photos of the excision acquired on the 3rd day after surgery (H&E chromosome, Scale bar 1,000µm) B. Graphs that measure and compared Epithelial gaps in each sample
C. Comparative analysis graph of burn area

Increased collagen levels

Through K167, which is a cell differentiation marker, it can be confirmed that the Curatick application group shows more cell differentiation on the 7th day of the burn model, which promotes nearly healing

Excision model Day 7, Increased distribution of cell differentiation market K167

A. Organizational photo



Without ORA-AID



ORA-AID

B. Collagen concentraion

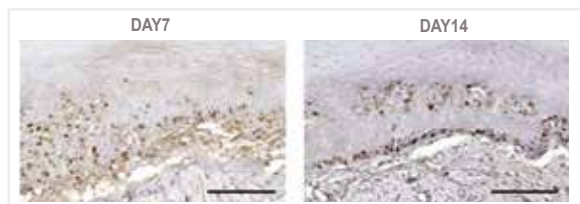


Burn model Day 7, Increased distribution of cell differentiation market K167

A. Organizational photo

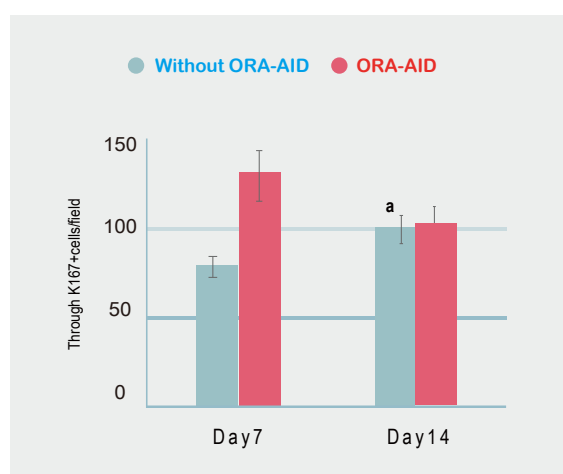


Without ORA-AID



ORA-AID

B. Collagen concentraion



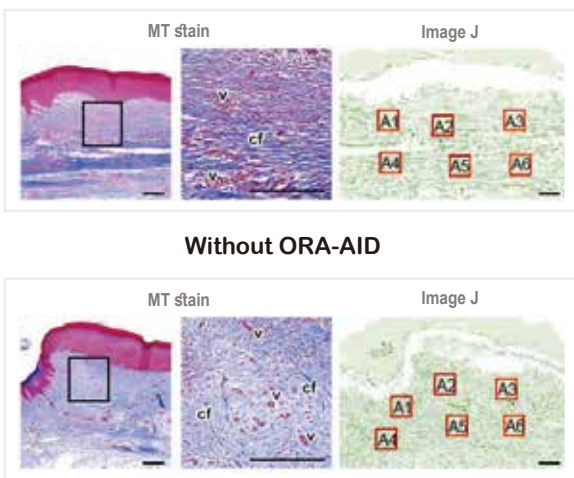
A. Organizational photos of 3rd day after surgery(mt chromosome) B. Collagen(%) measured and analyzed for each sample

Excellent healing effect

“ Increase collagen levels means more tissue regeneration factors, faster healing of wounds. Reproduction confirmation of more mature blood vessels(v), collagen fibers(cf) on the 14th day of the burn model. This not only facilitates initial healing but also confirms that the quality of healing is excellent ”

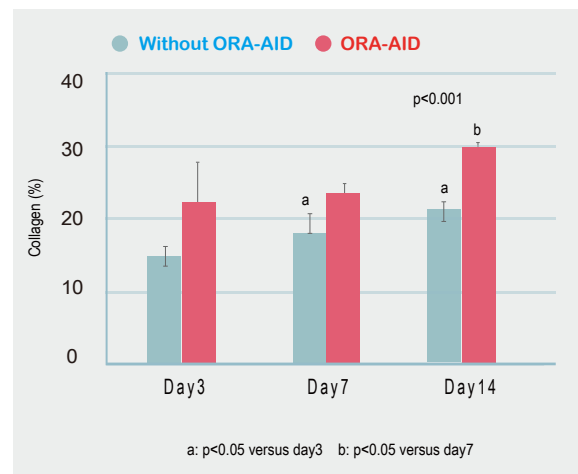
Excision model Day 14, blood vessel and collagen level increased

A. Organizational photo



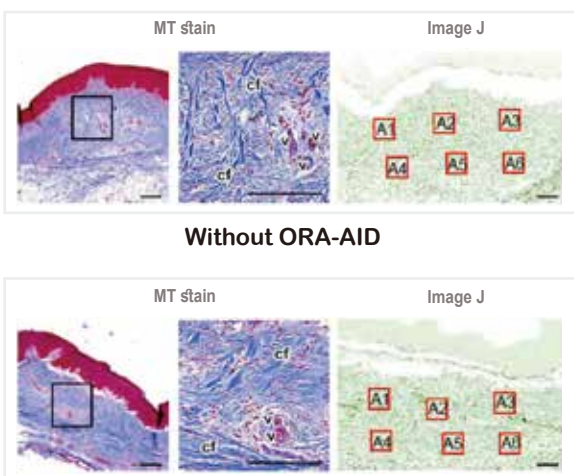
ORA-AID

B. Collagen concentraion



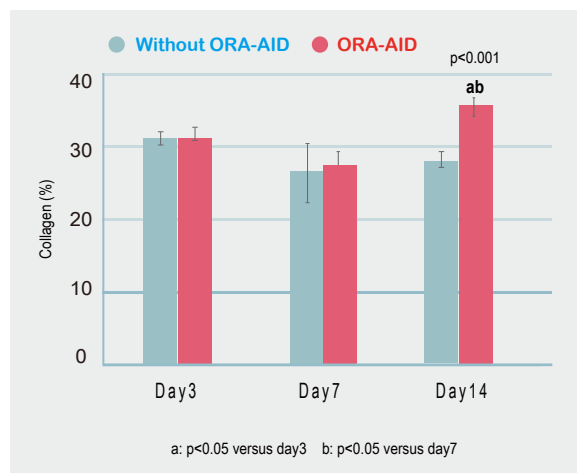
Burn model Day 14, blood vessel and collagen level increased

A. Organizational photo



ORA-AID

B. Collagen concentraion



A. Organizational photos of 3rd day after surgery(mt chromosome) B. Collagen(%) measured and analyzed for each sample

CLINICAL CASE





#22 Horizontal root fracture can be seen in the radiography



Socket after extraction.



Grafting with Bond Apatite(Augma)



Exposed graft is protected by absorbable collagen sponge plug (Heliplug) secured in place above the graft



Ora-Aid adhesive wound dressing is trimmed to fit the area



Ora-Aid is placed above



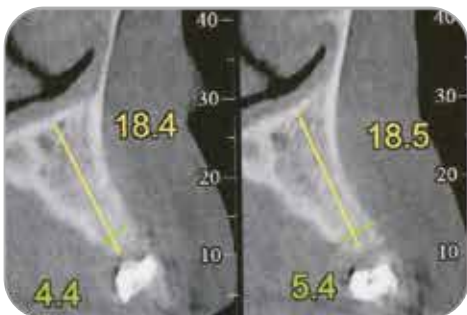
Temporary maryland bridge for aesthetic purpose



Soft tissue appearance 4 weeks post op



3 months post op



Bone formation can be seen in the CBCT slides

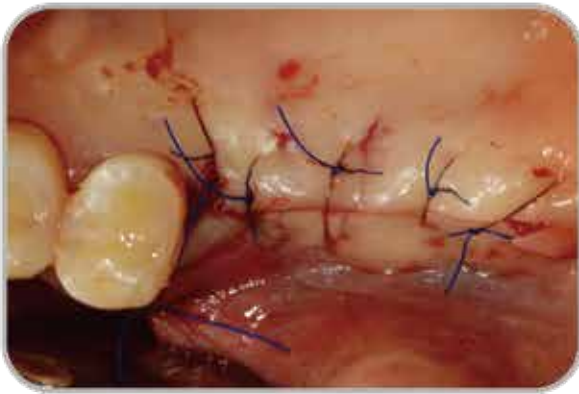


Implant placement

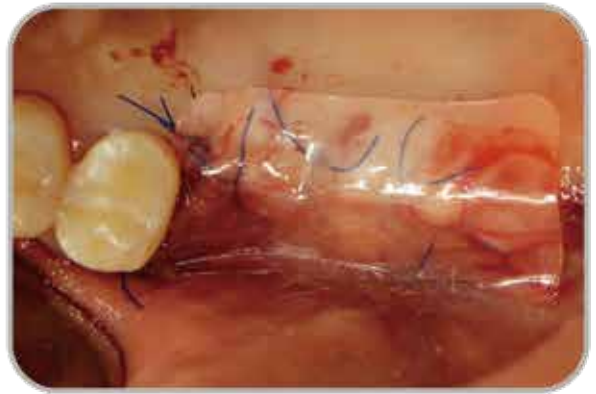


Ora-Aid placed over Surgery :David Baranes D.M.D

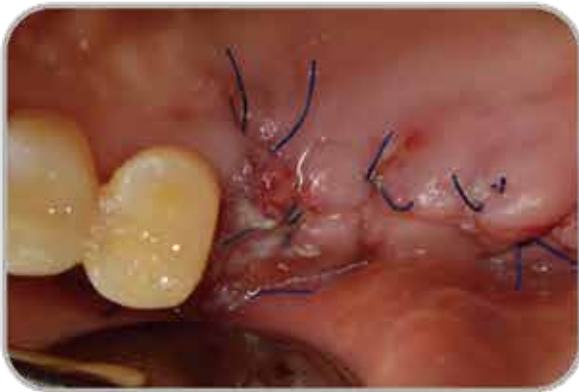
Implantation 2



After surgery & suture



Dressing with Ora-Aid



After 7days

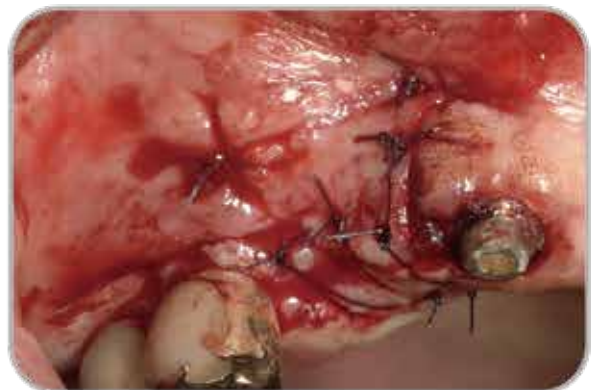


After 1 month

Implantation 3



#13, Implant failure. Bone grafting for reinforcing the bones of the insufficient ulitis



suture

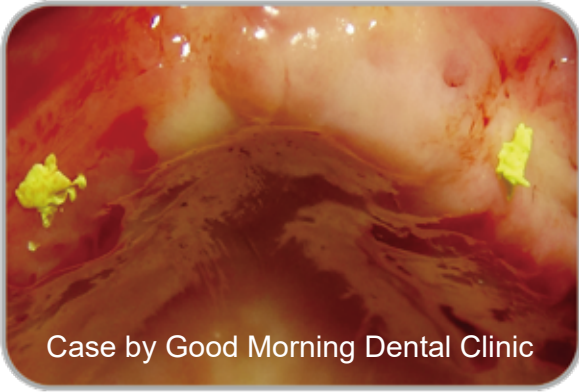


Dressing with Ora-Aid

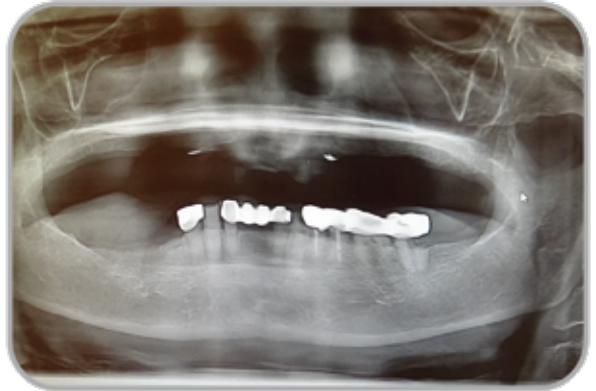


After 10 days

Implantation 4



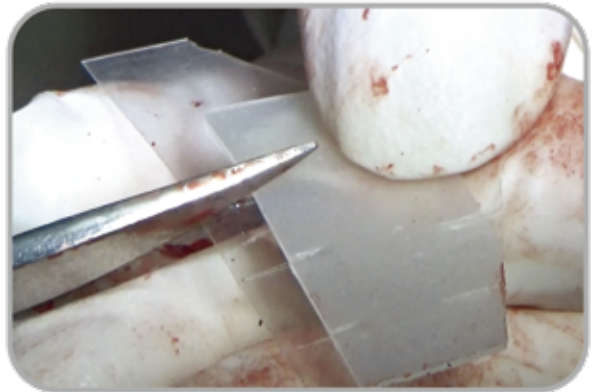
Before implant



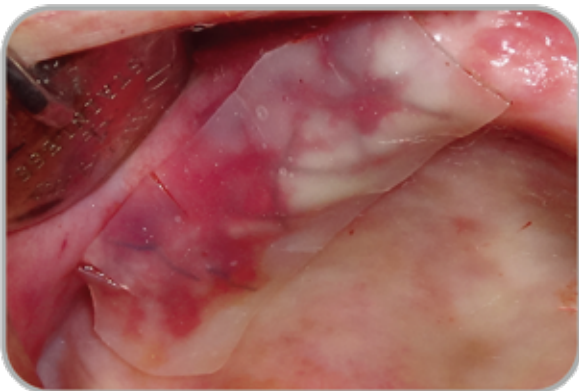
Panoramic shooting to check the location of the implant



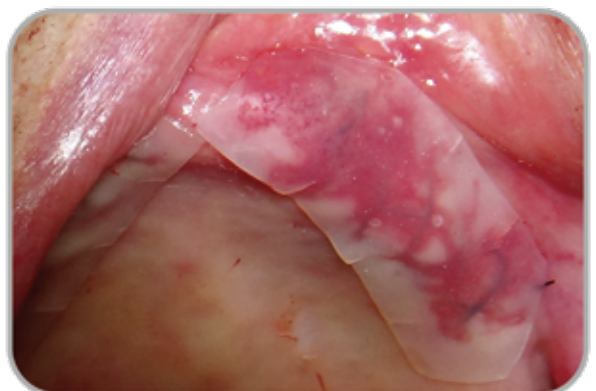
Wiping the surgical site and blood control after implant placement.



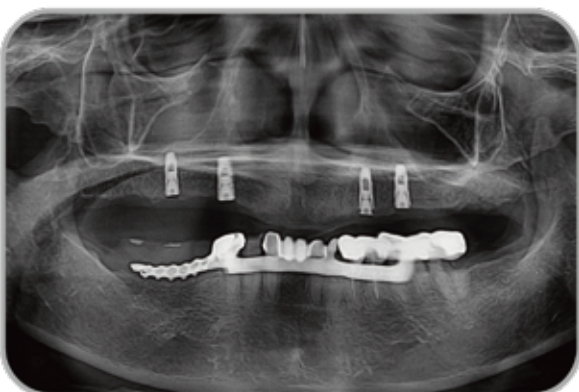
Cutting the Ora-Aid to attach it on the wound suitably



Right side application
(the retention time is depends on the attachment method)



Left side application

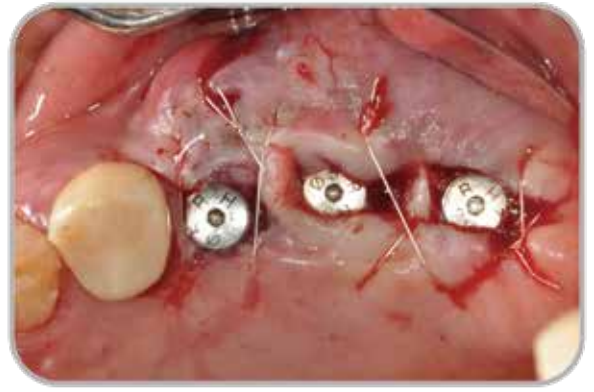


Postoperative panoramic imaging

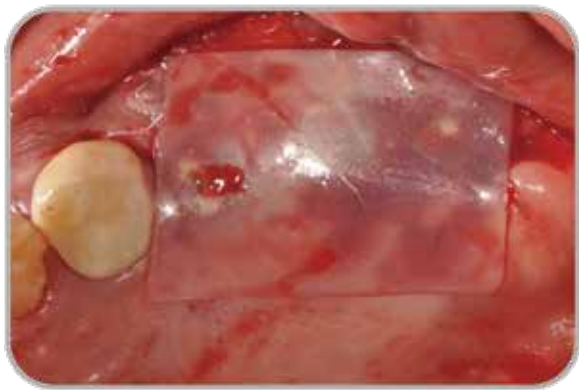
Immediate Implantation



Before implant



Surgery



After surgery & suture, dressing with Ora-Aid



Excellent blood clot was formed on next day



After 2 weeks

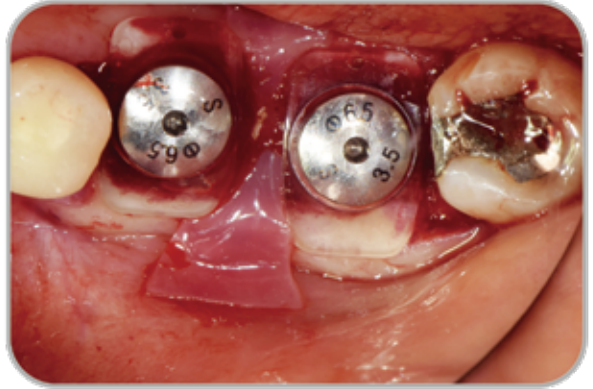


After 1 month

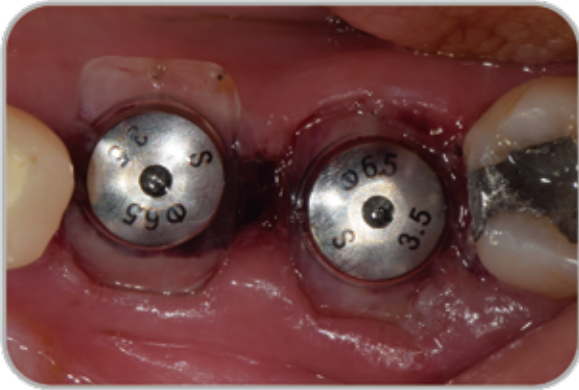
Two-step Implantation 1



Applying healing abutment after 3 months. Using Ora-Aid reduces operation time and protect surgical sites to make blood clot.



Apply Louis Button with healing abutment



After a week, blot clot formed.

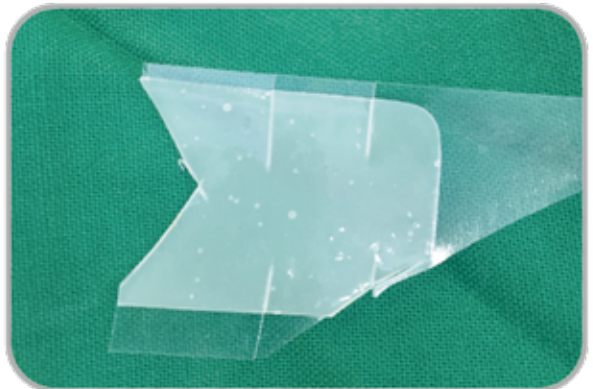


After two weeks. Attached gingiva formation

two-step implantation 2



After surgery & suture

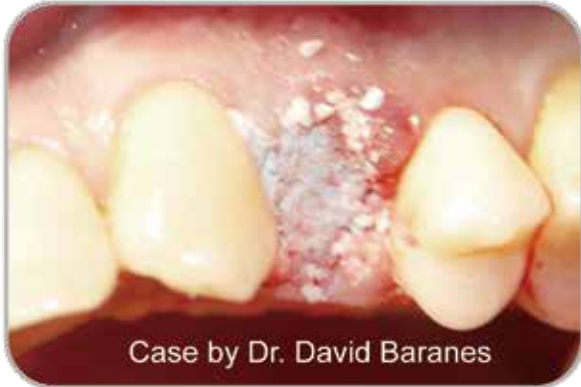


Cut Ora-Aid into a proper shape and size



Dressing with Ora-Aid

Socket grafting 1



Case by Dr. David Baranes

#24 extraction.
apply Bond Apatite graft



Cut Ora-Aid into a proper shape and size



Fixation sutures to keep the Ora-Aid patch
in place until soft tissue proliferation
will bridge the exposed gap



10 days post op, complete closure of the
exposed gap by soft tissue proliferation



3 weeks post op



5 months post op

Socket grafting 2



After tooth extraction 36



Socket filling in bone



Sewing the ORAID



One week post op



3 months post op



Opening and placing 2 implants

Socket grafting 3



#36 Fractured with pain.



Extraction, and socket debridement



Socket grafting with Bone Apatite (Augma)



Sutures above Ora-Aid to maintain it in place for a long time until it's absorption. Ora-Aid is quite effective to dress bleeding or oozing wounds and to protect the wound for longer time when it sutured above the exposed Bone apatite, enable soft tissue proliferation above the graft.



After 10 days



3 months post op

Periodontal Flap Operation 1



#14,15 Suturing after removed inflammatory tissue from the tooth cavity and mucosa



Protect the donor site. Provide pain relaxation. Block external stimuli.

Periodontal Flap Operation 2



Case by Leeyoungseok Dental Clinic



Frenectomy



Use laser to perform labial frenectomy



Apply Ora-Aid which is transparent and aesthetic, thin to minimize feeling of irritation

Ora-Aid and Periodontal Pak 1

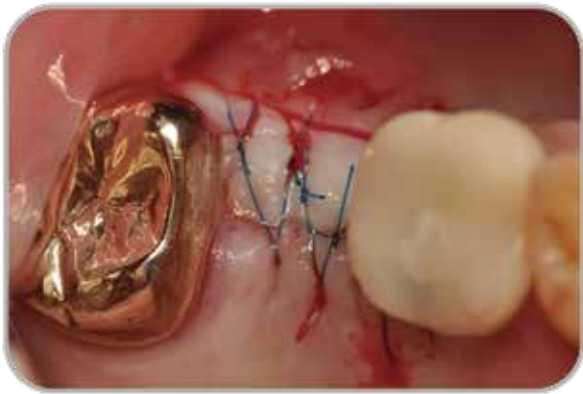


Case by Seo jeong Dental Clinic

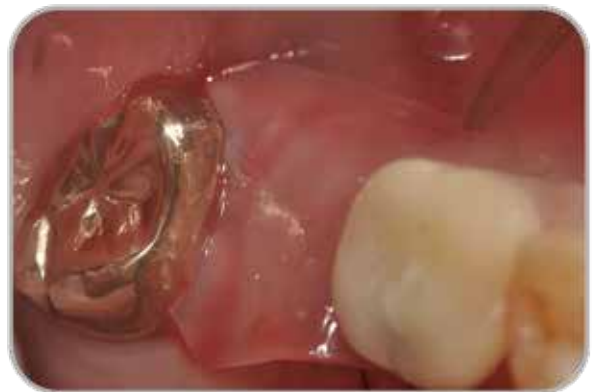
Before surgery



Apply the auto-tooth bone graft
& membrane(absorbent)
#16 Implant placement



Suture



Apply Ora-Aid for protection, pain relaxation,
and blood control -> Apply Periodontal Pak
aboveon the Ora-Aid



10 days later, remove Ora-Aid & Coe-pak

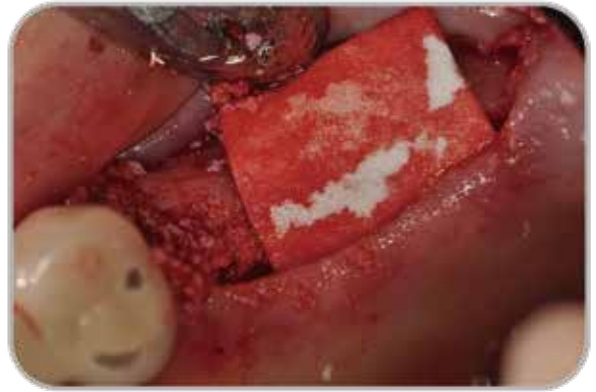


Through applying Ora-Aid under the Coe-pak,
blocks plague formation and provides pain relaxation
(When remove Periodontal Pak from the surgical sites,
it usually causes pain because it adheres with silk)

Ora-Aid and Periodontal Pak 2



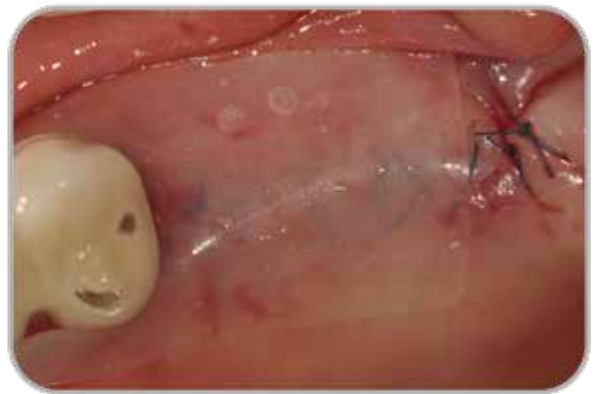
Before surgery



Apply the auto-tooth bone graft & membrane(absorbent)/ #25 Implant placement



Suture



Apply Ora-Aid for protection, pain relaxation, and blood control



Apply Coe-pak above on the Ora-Aid (makes Ora-Aid duration time longer)



14 days later / remove Ora-Aid & Coe-pak



Case by Seo jeong Dental Clinic

#22,23,24,25 implantation.
Check width and cool to 7mm to 10mm



Use bone grafting and synthetic bone
to repair the broken parts and use
absorbent shielding film.



Suture



Application of Ora-Aid for
rapid Blood clot formation



Extend the attachment time using
a Periodontal Pak over the Ora-Aid.



After 10 days.
After removing the Ora-Aid and
the Periodontal Pak

Extraction 1



palatal side impacted
supernumerary tooth



palatal side impacted supernumerary tooth
After an incision of mucosa,
remove the supernumerary tooth.



palatal side After apply Ora-Aid



After 2 weeks

Extraction 2



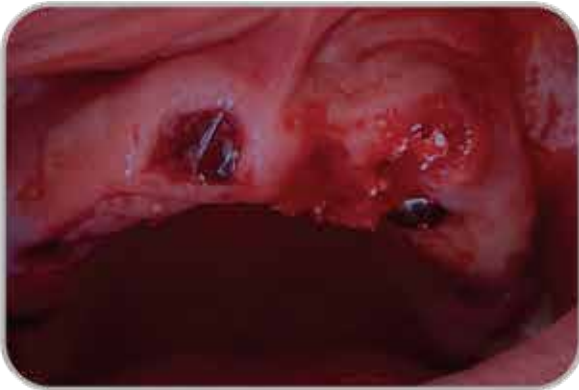
Case by Central Dental Clinic

#12 After extraction, the blood clot
is formed and hemolysis presented
within 24 hours.

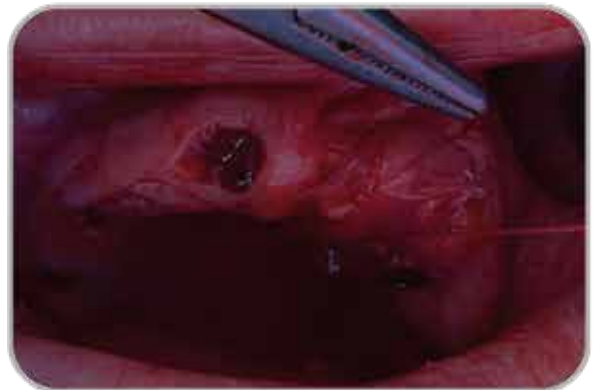


Apply Ora-Aid above on the open
socket to protect blood clot and help hemolysis.

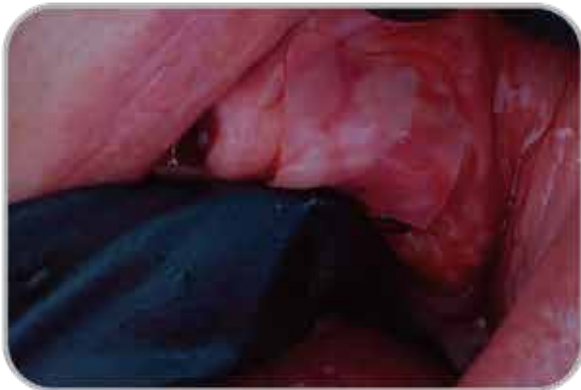
Extraction 3



#21, 22 Extraction & Apply bone graft



#21, 22 Suture with Ora-Aid to prevent loss of bone graft for a long time



#21, 22 Attach Ora-Aid on the surgical site after applied bone graft

Incision and drainage : I&D



#15 Visits by Pain Appeal Implementation of I&D to remove inflammation



Apply Ora-Aid (25mm*15mm size)



Remove the drainage, and apply Ora-Aid to prevent periodontitis

Mucous membrane traumatic damage



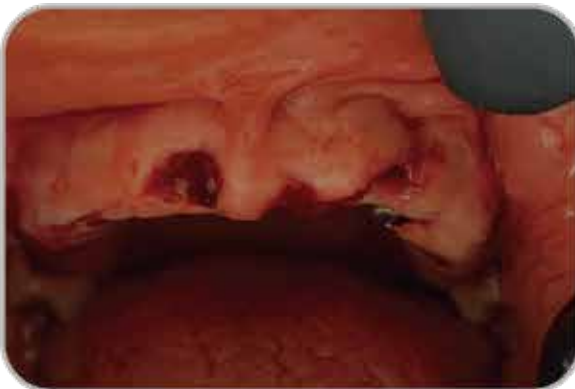
Case by Leeyoungseok Dental Clinic

oral ulcer occurred after surgery
(cuts by braces, self biting, etc)



Attach Ora-Aid to prevent secondary
infection. And it provides pain relaxation

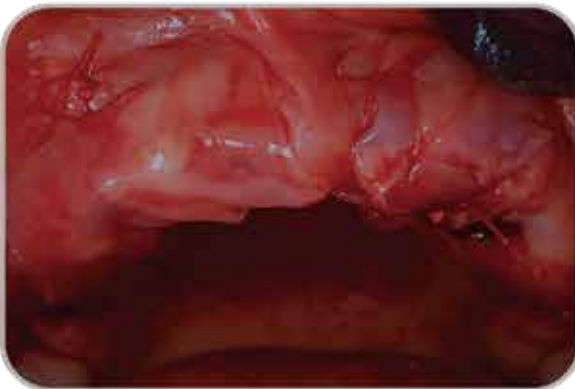
Temporary denture 1



#11, 13, 21, 22 Extraction



#11, 13 Attach Ora-Aid on the surgical site
(protects socket, aids pain relaxation)



#11, 13 Apply Ora-Aid after suture



By using an Ora-Aid, it protects the area of
surgical site and eliminates pain caused by
temporary dentures.



Ora-Aid is thin and does not affect the intersection
between denture and gum. And enable rapid recovery
of patients with cushioning(wall) roles during the
adaptation period.

Temporary denture 2



Suture



Dressing with Ora-Aid



Ora-Aid is Reducing irritation in gum tissue formation

Temporary denture 3



Case by Leeyoungseok Dental Clinic

Suture



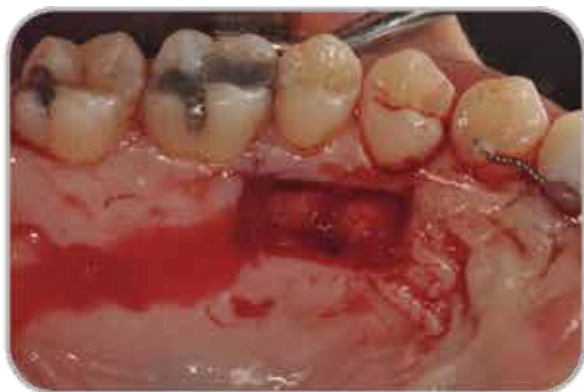
Dressing with Ora-Aid



Subepithelial connective tissue graft



Gum discoloration



Obtain graft tissue



Graft Insertion



After suture apply Ora-Aid



palatal side After apply Ora-Aid
Pain Management is Excellent
for the Soft tissue Augmentation



After 1 week donor site

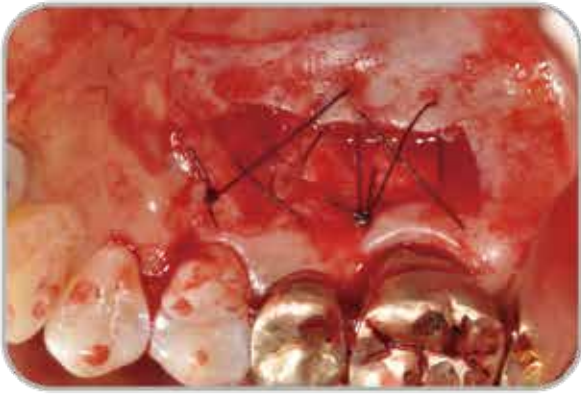


After 1 week recipient site



After 6 month

Free gingiva graft : FGG



Obtain subepithelial connective graft tissue of palatal side



#45 #46 no attached gingiva / free gingival graft Insertion and Suturing



Recipient site dressing with Ora-Aid



Donor site dressing with Ora-Aid



Secondary protection with flipper



After 1 week donor site



After 3 week donor site



After 3 week recipient site

Crown lengthening procedure : CLP



Before CLP



Preparation periodontal flap operation



Suturing



Dressing with Ora-Aid



After 1 week



After 3 week

Q & A

Q. Needs to remove protection layer?

Ora-Aid is composed of two layers, protection layer and attachment layer. When the attachment layer dissolved completely with moisture/saliva in mouth, the protection layer will fall off automatically. So, no need to remove protection layer by force

Q. Doesn't stick well? / Fall off too fast?

Usually it is caused by incorrect attachment on the surface of the wound and affected area.

Cut Ora-Aid into a proper shape and size accordance with the wound. When attach Ora-Aid, it should be combined with some amount of moisture.

If there are too much moisture, slightly remove with gauze on the wound and gently press Ora-Aid 5~10 seconds to make high adhesion.

We also recommend customers to attach Ora-Aid to hard tissue.

If you attach to soft tissue, it may not last long due to the movement of soft tissue muscle.

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Q. How long the adhesion remains normally?

Normally, Ora-Aid stays around 4~6 hours on the wound.

And it depends on each case because the attached circumstances are not same.

Q. Ingredients?

It is made of polymeric materials, including hydroxy ethyl cellulose. All raw materials are listed on KP&USP standards.

Q. Could be stay more than 2~3 days?

Ora-Aid's attachment duration is normally 4~6 hours on the wound.

The main purpose of Ora-Aid is to increase natural healing effects of oral tissue with preserving growth factors through the absorption of exudate especially during prime time.

In addition, it provides protection to the wound area against secondary infection.

Through this early stage protection for several hours, it can help with the effect of initial wound healing.


Q. Can use without suture or can suture it inside tissue?

We do not recommend it. Better to use Ora-Aid after on suture.

Ora-Aid is not a membrane which can be used inside of oral tissue.



Ora-Aid



A New Conceptual Intraoral Wound Dressing Strip

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