

### **AFTERNOON SCHEDULE**

Noon - 1:30pm

Site Preservation & Site Augmentation Hands-On

1:30pm - 1:45pm

Break (be sure to visit the sponsors again!)

1:45pm - 4:00pm

Lecture – Implants for the General Dentist

Question & Answer session

Course Evaluations and CE Verification



# TWO GENERAL CLASSIFICATIONS OF EXTRACTIONS

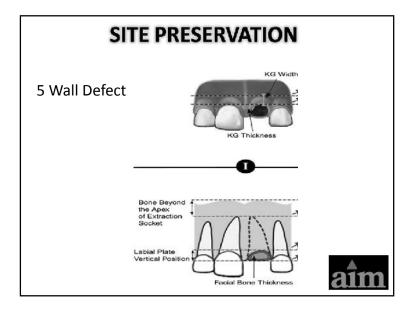
Site Preservation
Site Augmentation

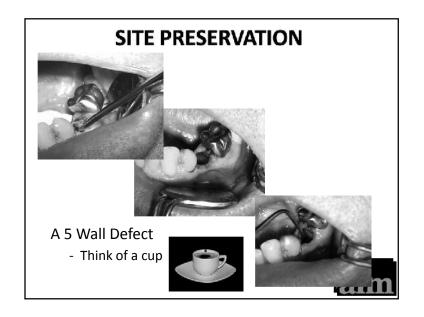


## SITE PRESERVATION

Removing a Tooth Without Removing Bone







### SITE PRESERVATION

Five wall defect

Currette the site really well

Get some bleeding from the socket

Use the following to fill the socket

- Collaplug/Collatape
- Bone product?

Wait about 16 weeks before implant placement



### SITE PRESERVATION

Occurs at the time of the atraumatic extraction

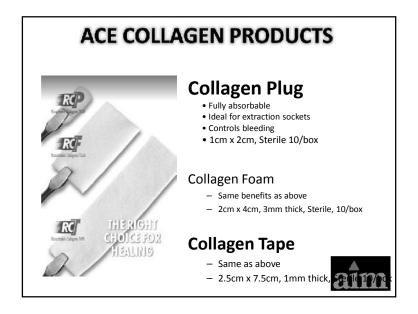
Buccal and lingual plate s remain intact ( 5 wall defect)

PDM thoroughly removed

Much bleeding is ideal

Collaplug/Collatape placement (along with collected blood) if timing for implant placement is determined and consented to at this time

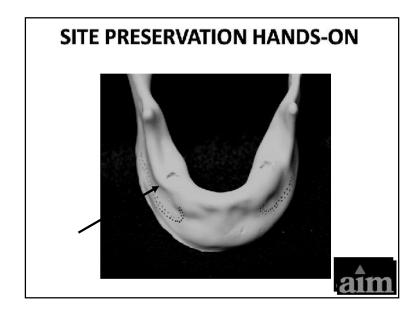
 If questionable commitment to the timing for placement of the implant, then treat it like a



# SITE PRESERVATION HANDS ON











Site Preservation With Collagen Tape Video

# Let's Do III

### **SUTURE MATERIALS**

- VICRYL 4-0
  - Resorbs In 3-4 Weeks internally
- Chromic Gut 4-0
  - Resorbs in 2 Weeks
- Silk 4-0
  - Does Not Resorb
  - Retains bacteria
  - Wicking effect
- Butylcyanoacrylate



### **TISSUE CLOSURE**

Suture ties (Vicryl sutures)

Suture technique

- -Interrupted
- -Continuous



# **TISSUE CLOSURE**

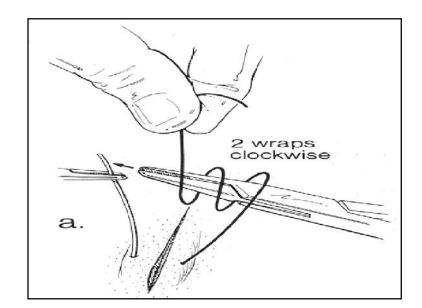
# **Suturing Technique**

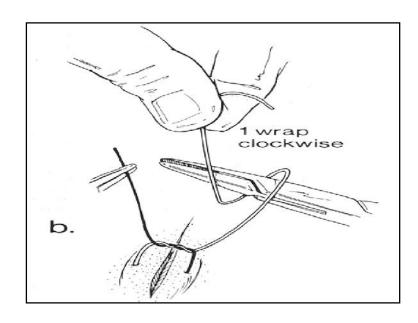


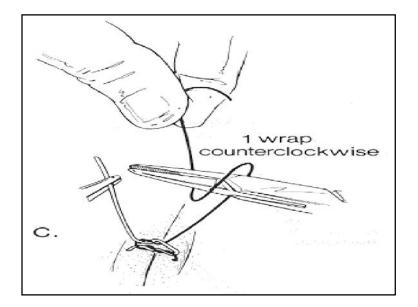


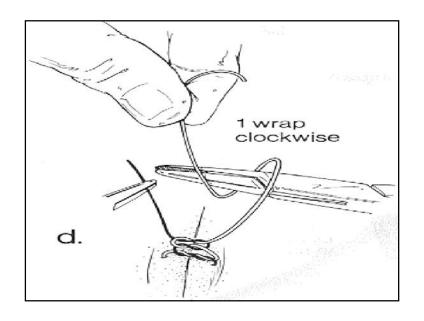
Site Preservation,
Instrumentation & Suturing Basics
Supplied and 6-49 tillular grants

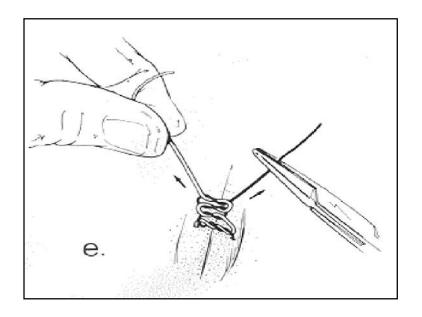












### **SUMMARY OF POLYGLACTIN KNOT**

Double granny forward

- Light pressure then hold

Single granny forward

Light pressure then hold

Single granny reverse

- Pull tightly then hold

Single granny forward

- Pull tightly to lock then hold

Trim with 2mm length ends





SITE PRESERVATION HANDS-ON 2

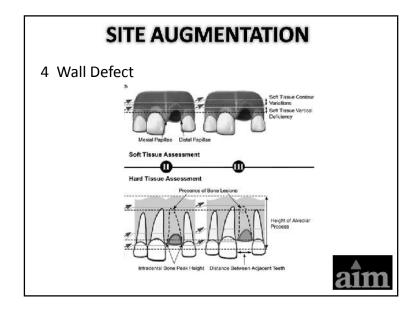
# Remove Collatape to Prepare for the Next Exercise!

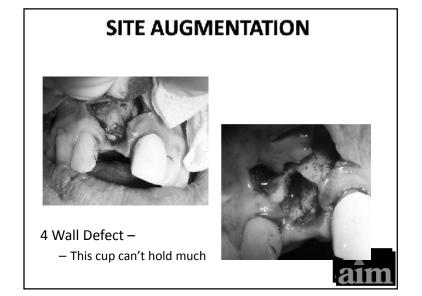


# SITE AUGMENTATION

A Wall of Bone is Lost Prior to or During Tooth Removal







### SITE AUGMENTATION

Occurs at the time of the *traumatic* or diseased extraction

- Buccal and/or lingual plates are not remaining
- OR if the predetermined timing for implant placement is not committed to or vague.

PDM and granulation tissues are thoroughly removed

Much bleeding is ideal

Reflect attached gingiva to 2-3 mm past bor margins in all areas



### **MATERIALS**

Collagen products

Bone products

Resorbable membranes

Suture material



### SITE AUGMENTATION

Particulate is hydrated with collected blood (or sterile saline/sterile water), it is then placed into the extraction site, and then covered with a resorbable membrane

Flaps are sutured to place with polyglactin sutures
Patient placed on Clindamycin 150mg q6h for 7
days

Sutures stay in place for 2 weeks!

Ultrasoft brush and antimicrobial rinse is giveleanse the site

### **GRAFT COMPOSITE**

Clindamycin – if infection at site

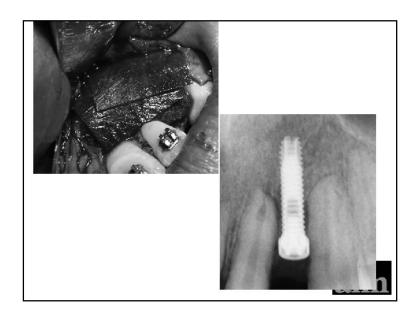
- Effective against streptococci and staphlococci and gram (-) rods
- Low incidence of pen allergy

NuOss or AlloOss (bone product)

Type I collagen membrane

- RCM6
- Slow resorbing





### SITE AUGMENTATION HANDS-ON

Lower left on technique mandible simulating a molar extraction

Nu-Oss

**RCM6** Membrane

Silk suture (instead of Vicryl)

Diluted ketchup (instead of collected blood)

Furcal Bone...to keep or not to keep.







### **FEES & INSURANCE CODING**

### Site Preservation

- ADA code D7953
- Plus the extraction of the tooth fee
- Five-walled defect + Collagen Plug or Collagen Tape
- -~ \$185.00

### Site Augmentation (at the time of extraction)

- ADA code D7953
- Plus the extraction of the tooth fee
- Four or less walls/timing until implant placement considered
- + Particulate bone (included in fee)
  - ~ 4205 00

# **Soft Tissue Management**





# TISSUE FLAPS CRITERIA

Maintain periosteum and blood supply.

Clear visualization of surgical site.

Easy access for surgical team members.

Effortless reflection of the tissues for the surgical team members.



# TISSUE FLAPS TECHNIQUE

Scalpel penetration contacts bone.

Full thickness tissue reflection-

Sharp edge of periosteal elevator faces the bone.

Use the thumb to resist the pressure of the periosteal elevator against the tissue.

May require use of curette to relieve the tissue at the distal aspect of the last tooth.

Remove all tissue tags with instrument and/or wet gauze.



# TISSUE FLAPS DESIGN

"Establishing non-tension primary closure over a dental implant and/or

bone grafted sites begins with proper Soft Tissue Management"

Soft Tissue Management for Implant Dent: A Clinical Guide Heller, Heller et al. JOI, No. 2/2000



# TISSUE FLAPS DESIGN

Non Tension Primary Closure Benefits:

- -Shortens soft tissue healing time
- -Contains graft materials
- Reduces infection potential
- -Less painful healing
- Allows tissue expansion with post operative swelling
- Helps maintain blood supply



# TISSUE FLAP THE TRAPEZOID DESIGN

The trapezoid design includes a wider tissue attachment at the base of the flap which improves the following factors:

- Blood supply
- Lymphatic drainage
- Periosteal integrity

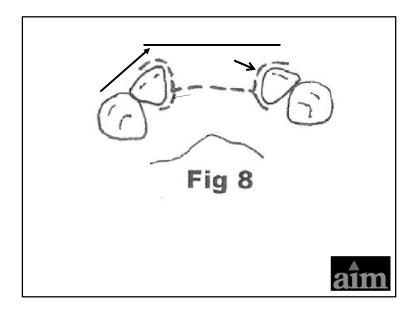
Facilitates non tension vertical closure with bone grafting

## INTERDENTAL FLAP DESIGN

Trapezoid shape still applies

Carry incision to the adjacent papilla with limited attached gingiva to avoid tearing.





# **TISSUE CLOSURE**

Non tension soft tissue flap closure is essential for a successful surgical result.

