


**ACADEMY of GENERAL DENTISTRY** AGD2021 THE PREMIER MEETING FOR GENERAL DENTISTRY AUSTIN, TEXAS JUNE 9 - 12 AGD2021.ORG

**Principles of Surgical Extractions**

Model Surgery Participation



David L. Roberts, DDS, PA  
June 6, 2021  
[dave@robertsdds.com](mailto:dave@robertsdds.com)

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
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**Principles of Surgical Extractions**

Model Surgery Participation



 Tooth #3 With Sinus Closure  
 Tooth #19 Graft And Membrane  
 Teeth #23-26 Alveoloplasty

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**Principles of Surgical Extractions**

Model Surgery Tooth #3 With Sinus Closure

Surgical Sequence



Flap Design Make Incision Flap Reflection Remove Crown Section Roots T Cut Separate Buccal Roots MB Root Removal	DB Root Removal DB Root Tip Removal Palatal Root Removal Palatal Root Tip Removal Irrigate Socket OsteoGen Plug Placement Place Suture
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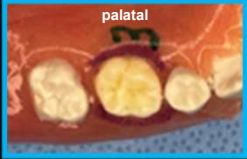


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**Principles of Surgical Extractions**  
**Model Surgery Tooth #3 With Sinus Closure**

Flap Design  
Make Incision  
Flap Reflection  
Remove Crown  
Section Roots T Cut  
Separate Buccal Roots  
MB Root Removal



palatal

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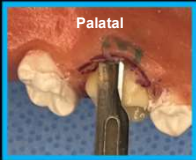


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**Principles of Surgical Extractions**  
**Model Surgery Tooth #3 With Sinus Closure**

Flap Design  
Make Incision  
Flap Reflection  
Remove Crown  
Section Roots T Cut  
Separate Buccal Roots  
MB Root Removal



Buccal

Palatal

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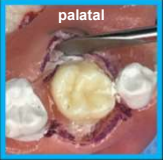


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**Principles of Surgical Extractions**  
**Model Surgery Tooth #3 With Sinus Closure**

Flap Design  
Make Incision  
Flap Reflection  
Remove Crown  
Section Roots T Cut  
Separate Buccal Roots  
MB Root Removal



palatal

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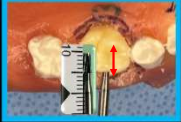
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### Principles of Surgical Extractions

#### Model Surgery Tooth #3 With Sinus Closure

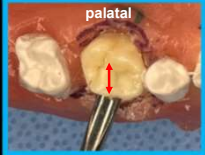
- Flap Design
- Make Incision
- Flap Reflection
- Remove Crown
- Section Roots T Cut
- Separate Buccal Roots
- MB Root Removal



The average width of a maxillary molar is with an average of 5.2 mm



34S



palatal

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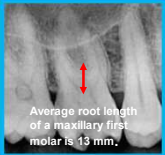
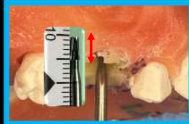

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### Principles of Surgical Extractions

#### Model Surgery Tooth #3 With Sinus Closure

- Flap Design
- Make Incision
- Flap Reflection
- Remove Crown
- Section Roots T Cut
- Separate Buccal Roots
- MB Root Removal



Average root length of a maxillary first molar is 13 mm.



palatal

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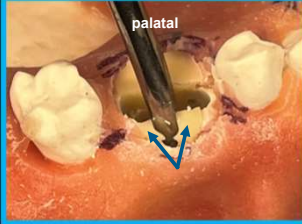
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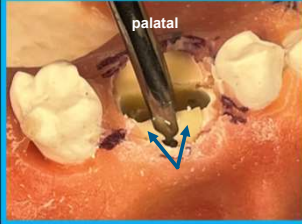
### Principles of Surgical Extractions

#### Model Surgery Tooth #3 With Sinus Closure

- Flap Design
- Make Incision
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- MB Root Removal



34S



palatal

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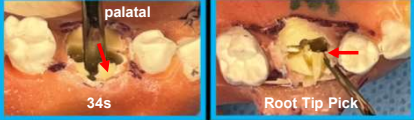
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### Principles of Surgical Extractions



#### Model Surgery Tooth #3 With Sinus Closure

- Flap Design
- Make Incision
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- MB Root Removal



34s

Root Tip Pick



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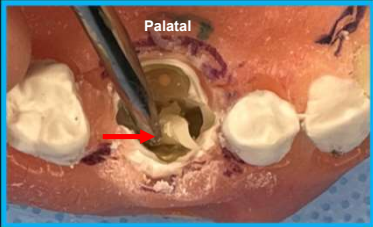
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### Principles of Surgical Extractions

#### Model Surgery Tooth #3 With Sinus Closure

- DB Root Removal
- Palatal Root Removal
- Palatal Root Tip Removal
- Irrigate Socket
- OsteoGen Plug Placement
- Place Suture



Palatal



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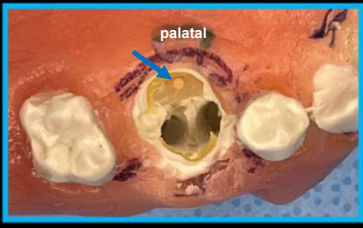
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### Principles of Surgical Extractions

#### Model Surgery Tooth #3 With Sinus Closure

- DB Root Removal
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palatal



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**Principles of Surgical Extractions**  
**Model Surgery Tooth #3 With Sinus Closure**

- DB Root Removal
- Palatal Root Removal
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- OsteoGen Plug Placement
- Place Suture



palatal



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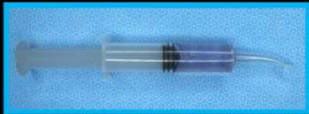
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**Principles of Surgical Extractions**  
**Model Surgery Tooth #3 With Sinus Closure**

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- Place Suture



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**Principles of Surgical Extractions**  
**Model Surgery Tooth #3 With Sinus Closure**

- DB Root Removal
- Palatal Root Removal
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- Irrigate Socket
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- Place Suture



OSTEOGEN®  
NON-CERAMIC  
BIOACTIVE CRYSTAL  
BONE GRAFT  
TYPE I BOVINE  
ACHILLES TENDON  
COLLAGEN



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**Principles of Surgical Extractions**  
**Model Surgery Tooth #3 With Sinus Closure**

- DB Root Removal
- Palatal Root Removal
- Palatal Root Tip Removal
- Irrigate Socket
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- Place Suture



**OsteoGen Plug**  
High-grade bovine collagen mixed homogeneously with an alloplast synthetic particulate bone  
Code 7953 "same day graft"



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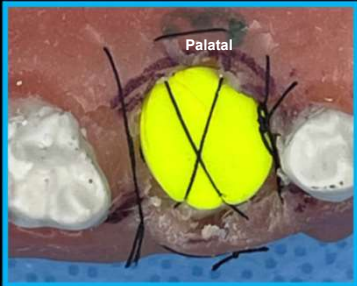
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**Principles of Surgical Extractions**  
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Palatal



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- DB Root Removal
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- Irrigate Socket
- OsteoGen Plug Placement
- Place Suture



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### Principles of Surgical Extractions

Model Surgery Tooth #19 Graft And Membrane

#### Surgical Sequence



Flap Design-Incision  
Flap Reflection  
Hemi Section 703 34S  
Luxate-Remove DRoot  
Luxate Mesial Root  
Trough MR w/ 701

Luxate-Remove M Root  
Access DR Tip w/ 703  
Remove Distal Root Tip  
Irrigate Socket  
Place Graft / Membrane  
Suture

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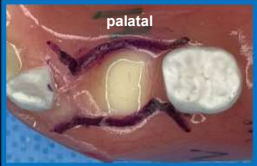
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### Principles of Surgical Extractions

Model Surgery Tooth #19 Graft And Membrane

Flap Design-Incision  
Flap Reflection  
Hemi Section 703 34S  
Luxate-Remove DRoot  
Luxate Mesial Root  
Trough MR w/ 701



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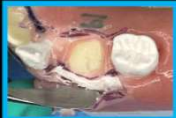
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### Principles of Surgical Extractions

Model Surgery Tooth #19 Graft And Membrane

Flap Design-Incision  
Flap Reflection  
Hemi Section 703 34S  
Luxate-Remove DRoot  
Luxate Mesial Root  
Trough MR w/ 701



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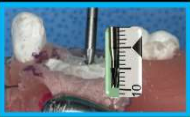

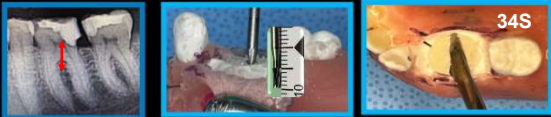

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**Principles of Surgical Extractions**  
Model Surgery Tooth #19 Graft And Membrane

Flap Design-Incision  
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**Principles of Surgical Extractions**  
Model Surgery Tooth #19 Graft And Membrane

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**Principles of Surgical Extractions**  
Model Surgery Tooth #19 Graft And Membrane

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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

Luxate-Remove M Root  
Access DR Tip w/ 703  
Remove Distal Root Tip  
Irrigate Socket  
Place Graft/ Membrane  
Suture



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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

Luxate-Remove M Root  
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Place Graft/ Membrane  
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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

Luxate-Remove M Root  
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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

Luxate-Remove M Root  
Access DR Tip w/ 703  
Remove Distal Root Tip  
Irrigate Socket  
Place Graft / Membrane  
Suture



**allo gain**  
particulate  
Mineralized  
Human Allograft  
Composite  
Commercialized  
Human mandible, femoral head, and iliac crest bone  
Mineralized Composite Bone  
(MBC)  
Composite of bone particles including  
cortical and trabecular bone  
Tissue source is AATB accredited  
Broad assessment of particle sizes



**Collagen matrix**  
Collagen type I, it is a natural and  
biocompatible  
Sourced from bovine xenogenic  
origins such as porcine, bovine or  
equine  
The Achilles tendon is one of the  
preferred sites to harvest collagen  
**xeno protect**  
collagen matrix

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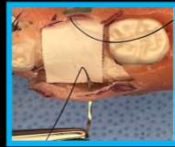
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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

Luxate-Remove M Root  
Access DR Tip w/ 703  
Remove Distal Root Tip  
Irrigate Socket  
Place Graft / Membrane  
Suture



Reverse Interrupted Suture



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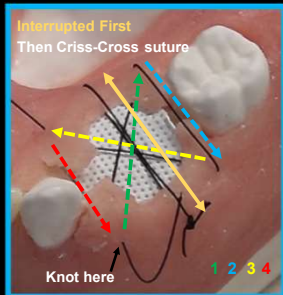
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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

Luxate-Remove M Root  
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Remove Distal Root Tip  
Irrigate Socket  
Place Graft / Membrane  
Suture



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### Principles of Surgical Extractions

#### Model Surgery Tooth #19 Graft And Membrane

Luxate-Remove M Root  
Access DR Tip w/ 703  
Remove Distal Root Tip  
Irrigate Socket  
Place Graft / Membrane  
Suture



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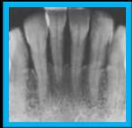
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### Principles of Surgical Extractions

#### Model Surgery Teeth #23-26 Alveoplasty

##### Surgical Sequence



Flap Design  
Make Incision  
Flap Reflection  
Pre Luxate Teeth 23-26  
Remove 23-26  
Alveoplasty  
Bone File  
Irrigate Sockets  
Continuous Suture

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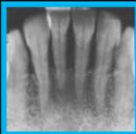
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### Principles of Surgical Extractions

#### Model Surgery Teeth #23-26 Alveoplasty

Flap Design  
Make Incision  
Flap Reflection  
Pre Luxate Teeth 23-26  
Remove 23-26  
Alveoplasty  
Bone File  
Irrigate Sockets  
Continuous Suture



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**Principles of Surgical Extractions**  
**Model Surgery Teeth #23-26 Alveoloplasty**

- Flap Design
- Make Incision
- Flap Reflection
- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoloplasty
- Bone File
- Irrigate Sockets
- Continuous Suture



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**Principles of Surgical Extractions**  
**Model Surgery Teeth #23-26 Alveoloplasty**

- Flap Design
- Make Incision
- Flap Reflection
- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoloplasty
- Bone File
- Irrigate Sockets
- Continuous Suture



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**Principles of Surgical Extractions**  
**Model Surgery Teeth #23-26 Alveoloplasty**

- Flap Design
- Make Incision
- Flap Reflection
- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoloplasty
- Bone File
- Irrigate Sockets
- Continuous Suture



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### Principles of Surgical Extractions

#### Model Surgery Teeth #23-26 Alveoplasty


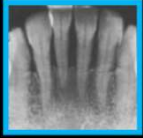
- Flap Design
- Make Incision
- Flap Reflection
- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoplasty
- Bone File
- Irrigate Sockets
- Continuous Suture



Pre-Op



Intra-Op



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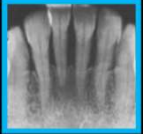
### Principles of Surgical Extractions

#### Model Surgery Teeth #23-26 Alveoplasty

- Flap Design
- Make Incision
- Flap Reflection
- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoplasty
- Bone File
- Irrigate Sockets
- Continuous Suture



Tooth 24 Root Fracture



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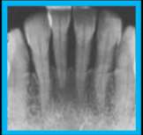


### Principles of Surgical Extractions

#### Model Surgery Teeth #23-26 Alveoplasty

- Flap Design
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- Flap Reflection
- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoplasty
- Bone File
- Irrigate Sockets
- Continuous Suture



Tooth 24 Root Tip Removal



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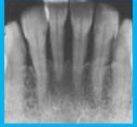
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**Principles of Surgical Extractions**  
**Model Surgery Teeth #23-26 Alveoloplasty**

- Flap Design
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- Bone File
- Irrigate Sockets
- Continuous Suture



3H Dean Rongeur



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**Principles of Surgical Extractions**  
**Model Surgery Teeth #23-26 Alveoloplasty**

- Flap Design
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- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoloplasty
- Bone File
- Irrigate Sockets
- Continuous Suture



Miller-Colburn Bone File 1X



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**Principles of Surgical Extractions**  
**Model Surgery Teeth #23-26 Alveoloplasty**

- Flap Design
- Make Incision
- Flap Reflection
- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoloplasty
- Bone File
- Irrigate Sockets
- Continuous Suture



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**Principles of Surgical Extractions**  
**Model Surgery Teeth #23-26 Alveoloplasty**

- Flap Design
- Make Incision
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- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoloplasty
- Bone File
- Irrigate Sockets
- Continuous Suture

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**Principles of Surgical Extractions**  
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- Flap Design
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- Flap Reflection
- Pre Luxate Teeth 23-26
- Remove 23-26
- Alveoloplasty
- Bone File
- Irrigate Sockets
- Continuous Suture

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**Principles of Surgical Extractions**  
**Questions ?**

David Roberts DDS

**ACADEMY OF GENERAL DENTISTRY** AGD2021 THE PREMIER MEETING FOR GENERAL DENTISTRY AUSTIN, TEXAS JUNE 9 - 12 AGD2021.ORG

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