OSSEOCARTILAGINOUS RIB GRAFTS FOR MAJOR DORSAL RECON

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• Describe Surgical Harvest of 11th Rib (Video to follow).
• Describe Indications for Use of Osseocartilaginous Rib Graft versus Cartilaginous Rib Graft.
• Describe Benefits of Osseocartilaginous Rib Grafts.
Why Use Rib?

- Wonderful Resource For:
  - Dorsal Augmentation
    - Post-Traumatic Deformity
    - Surgically Decimated Nose
  - Saddle Nose
  - Structural Support
  - Total Nasal Reconstruction
  - Septal Replacement
  - Tip Cartilage Reconstruction

- Alternatives:
  - Split Calvarial Bone
  - Irradiated Homologous Rib
  - Freeze Dried Bone Grafts
  - Septum
  - Auricular Cartilage
  - Alloplasts
  - Diced Cartilage Burrito
Advantages/Disadvantages of Rib

Advantages
- Unlimited Supply
- Easily Shaped
- No Rejection Risk (Autograft)
- Low Resorption Potential

Disadvantages
- Donor Site Morbidity
- Pneumothorax Risk
- Rigid Nose
- Warping
Which Rib to Use?

- Cartilaginous (Autologous vs. Homograft)
  - 5th/6th/7th rib
  - Use When Only Need Cartilage
  - Extended Spreader
  - L-Strut / Septal Replacement
  - Cartilaginous Dorsal Onlay
  - Lower Lateral Cartilage Replacement

- Consider Irradiated Homograft Rib
Which Rib to Use?

- Osseocartilaginous
  - 10th/11th Rib. “Floater”
- Used for Majority of (My) Rib Graft Rhinoplasties
  - Major Dorsal Augmentation
  - Severe Nasal Valve Stenosis
  - Dorsal Onlay
  - Tip Grafts
  - Pre-Maxillary
Benefits of Osseocartilaginous Rib Graft

- Like with Like
- Stability (bony fusion)
- Lack of Warping
- Strong Dorsal Onlay spreader
- Cartilaginous Tip
Chest Wall Anatomy

- Serratus anterior
- External oblique