

# Disclaimer

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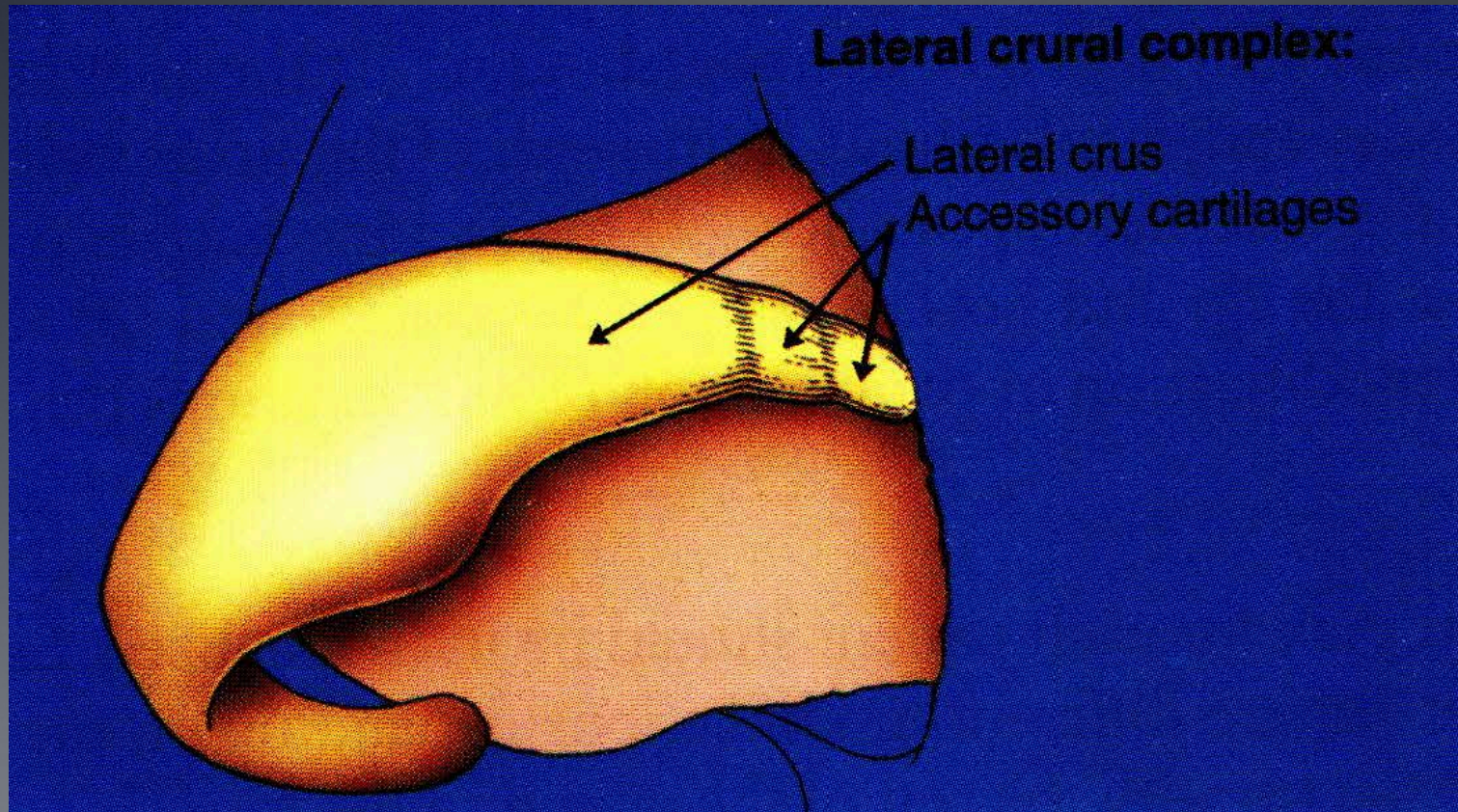
# STRUCTURAL GRAFTING OF ALAR CARTILAGES

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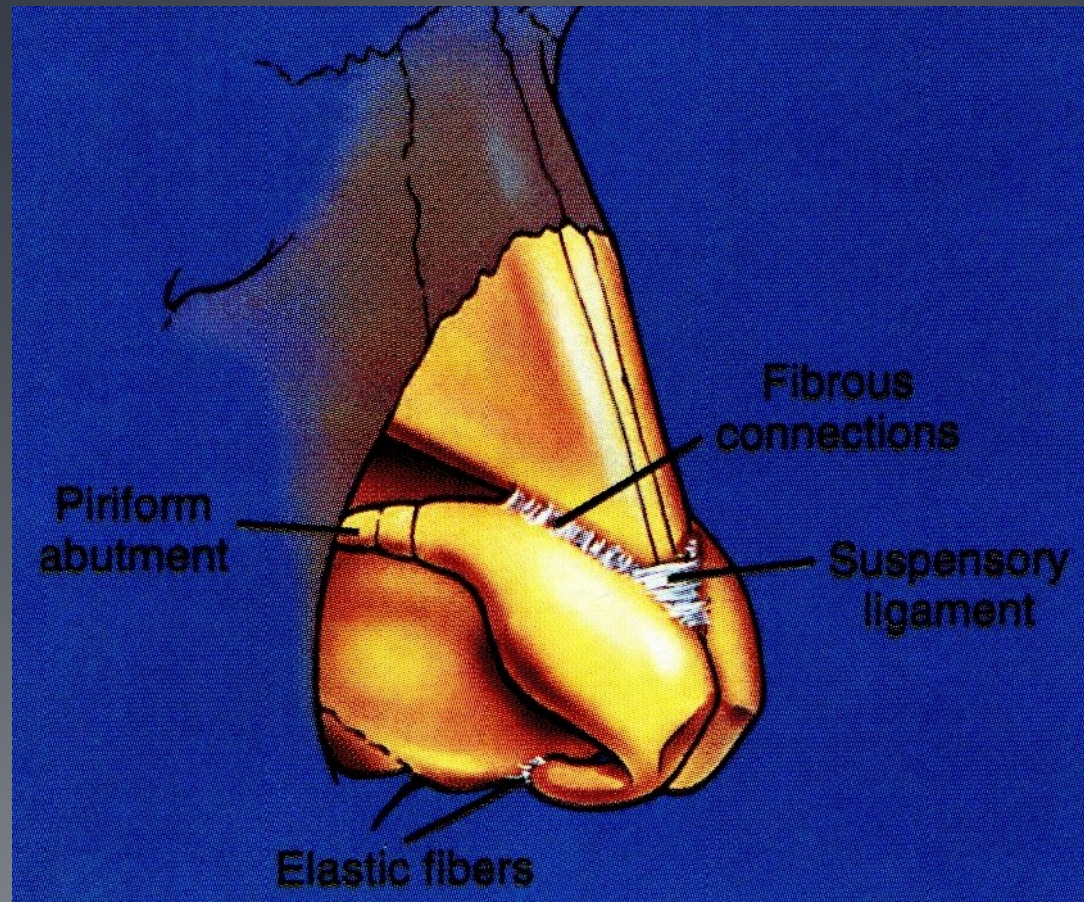
NAZIM CERKES MD.  
ISTANBUL-TURKEY

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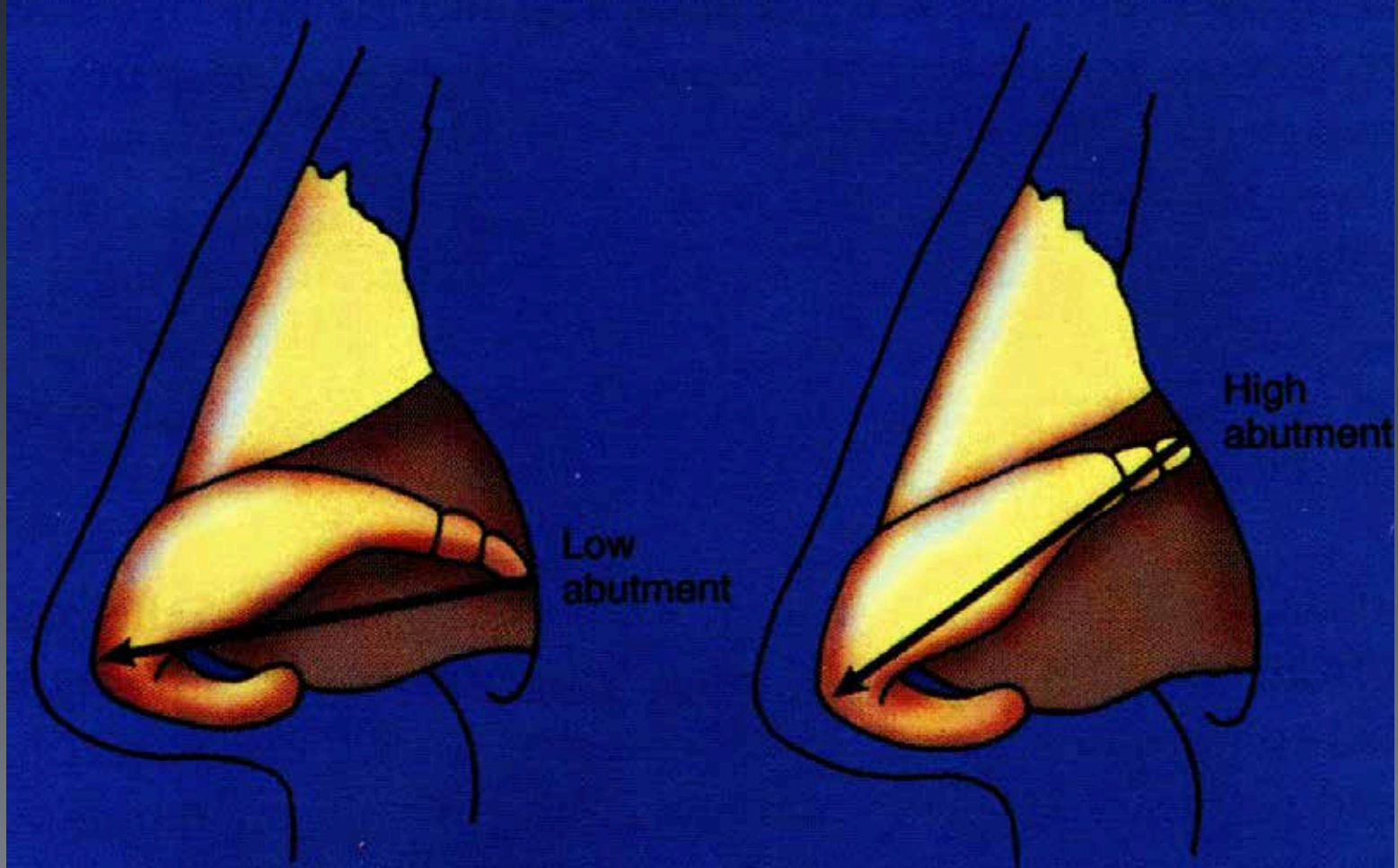
# ALAR CARTILAGES

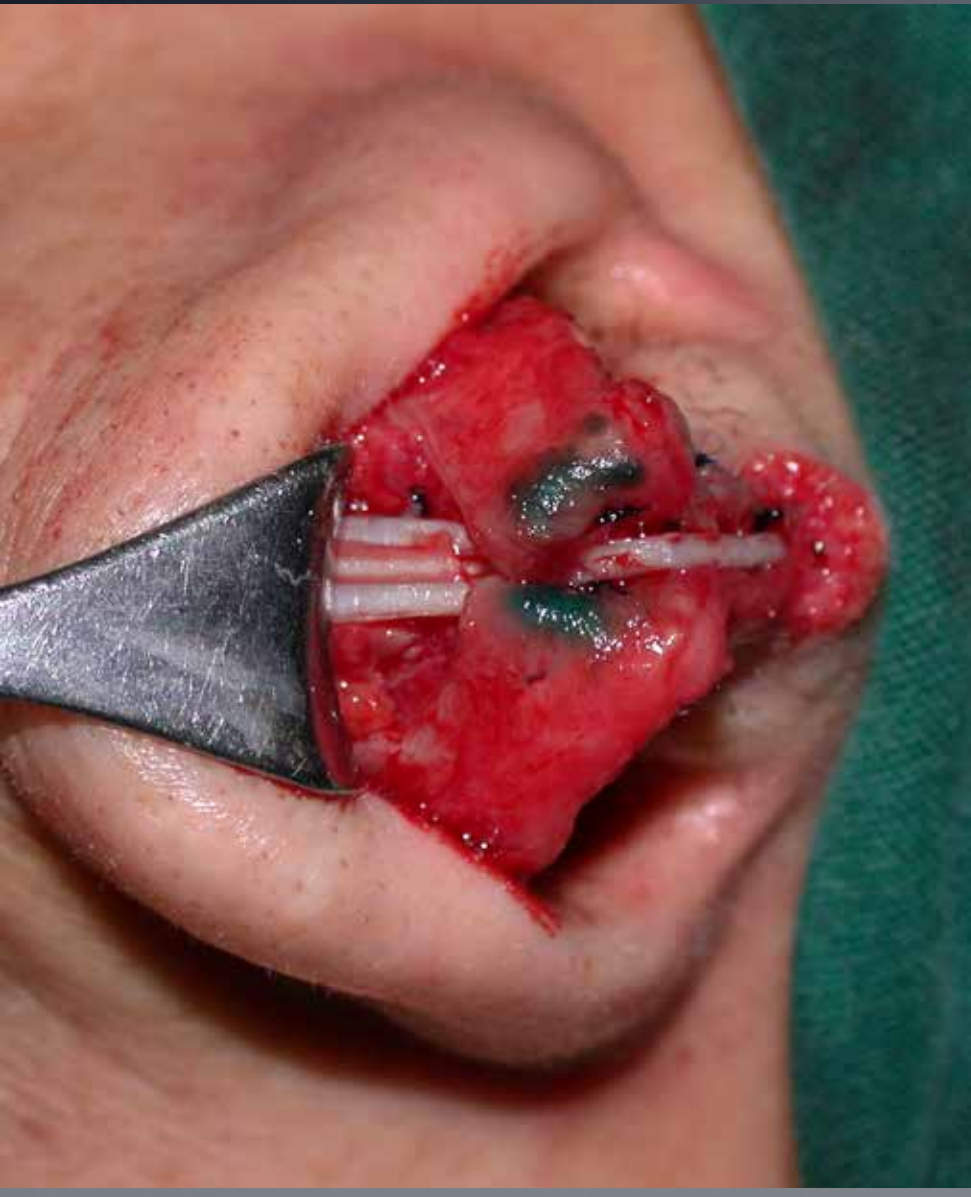


# TIP SUPPORTING LIGAMENTS



# ORIENTATION OF LATERAL CRURA

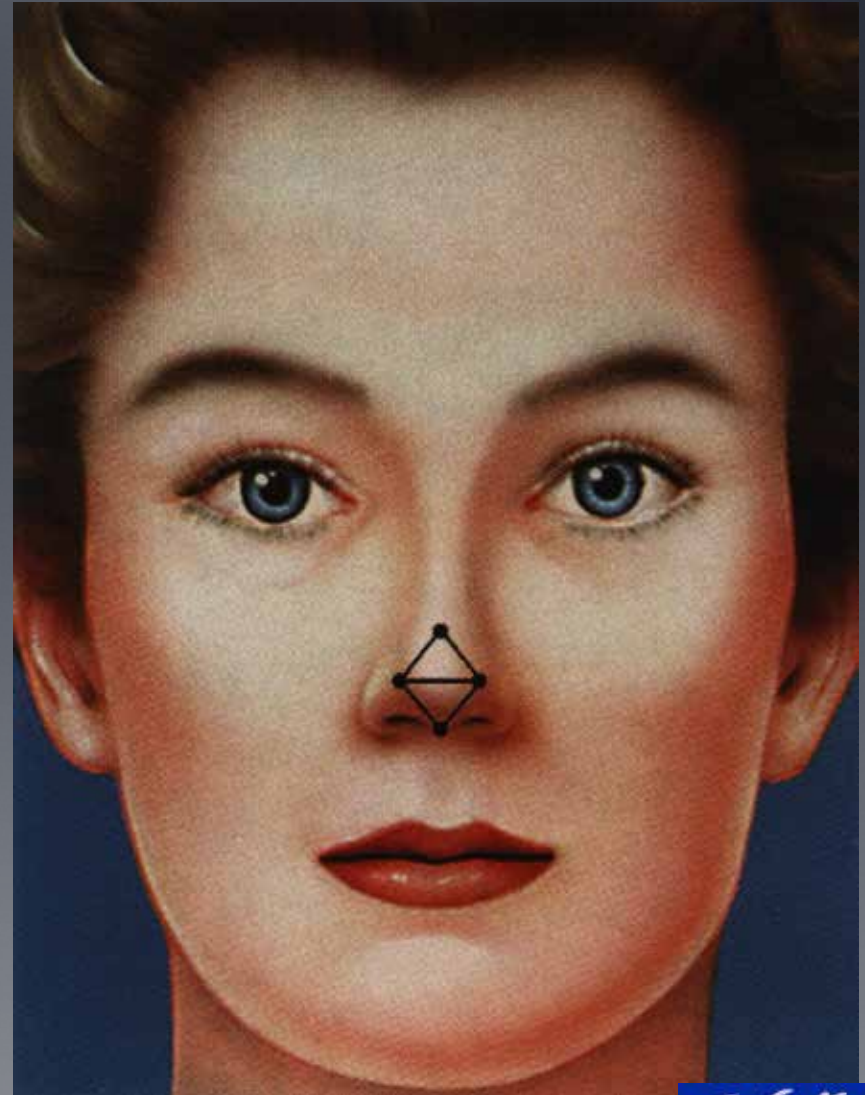




# NASAL TIP

On the frontal view the tip should have four defining landmarks: a tip defining point on each side, the supratip break, and the columellar-lobular angle.

Lines connecting the tip defining points with supratip break and columellar-lobular angle should form two equilateral triangles.



# INDICATIONS FOR ALAR CARTILAGE GRAFTING

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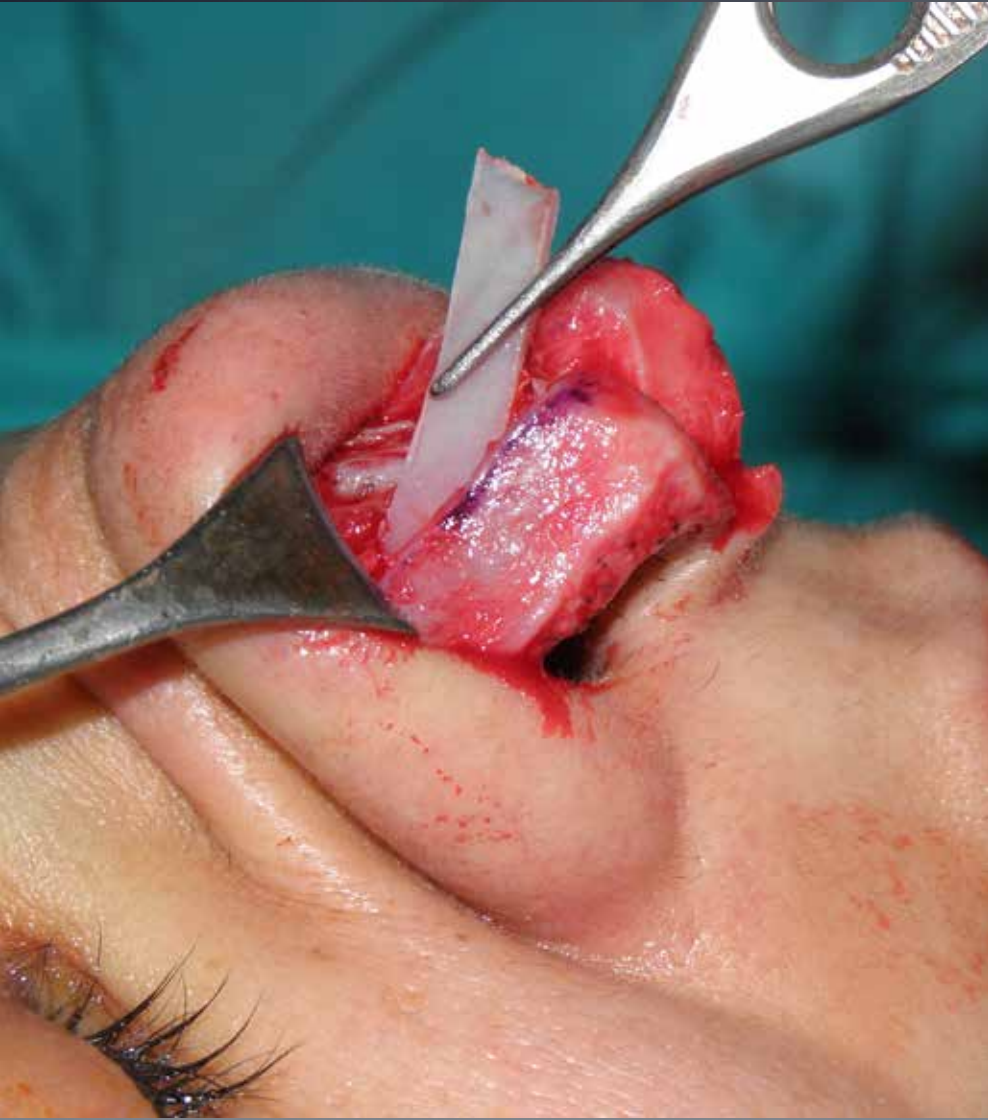
- **To change curvatures of lateral crura**
    - **Concave lateral crura**
    - **Convex lateral crura**
  - **Weak lateral crura (congenital, acquired)**
  - **Weak medial crura (congenital, acquired)**
  - **Cephalic malposition of lateral crura**
  - **Lateral crural defects**
  - **Medial crural defects**
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# Concave Lateral Crura External Nasal Valve Incompetency





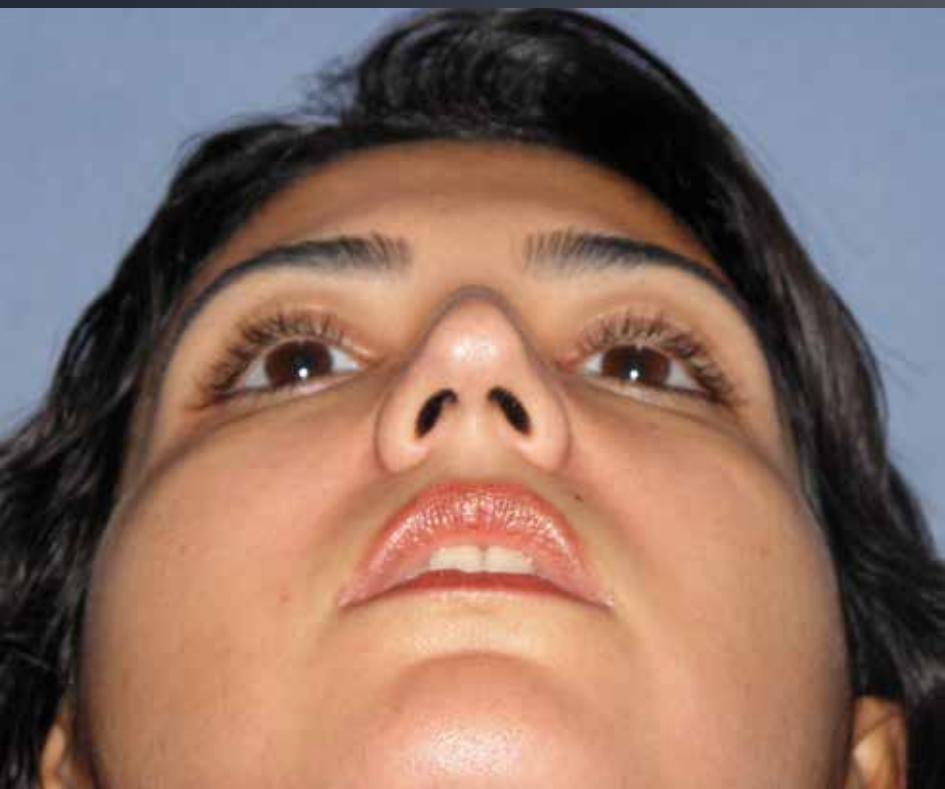












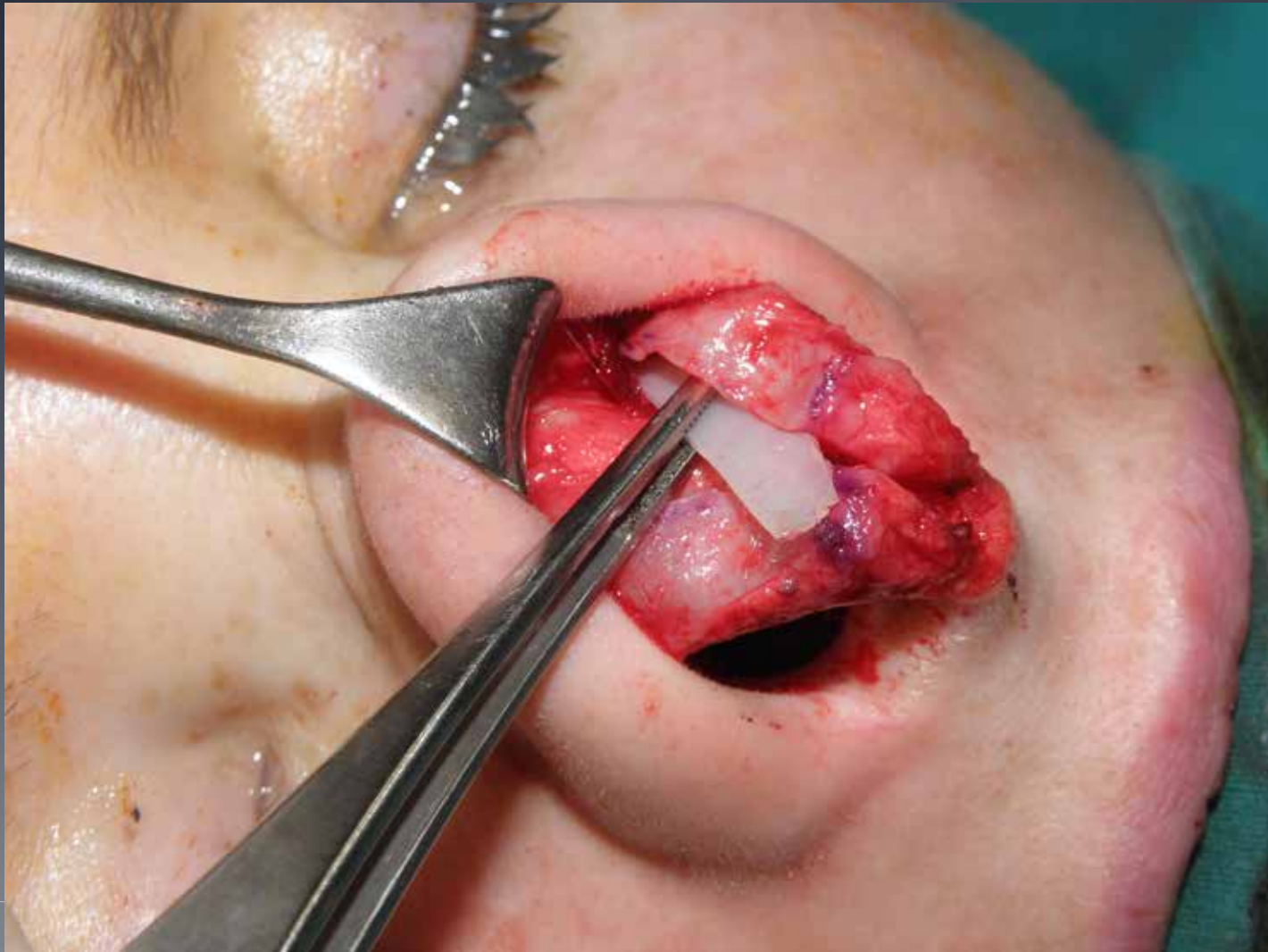


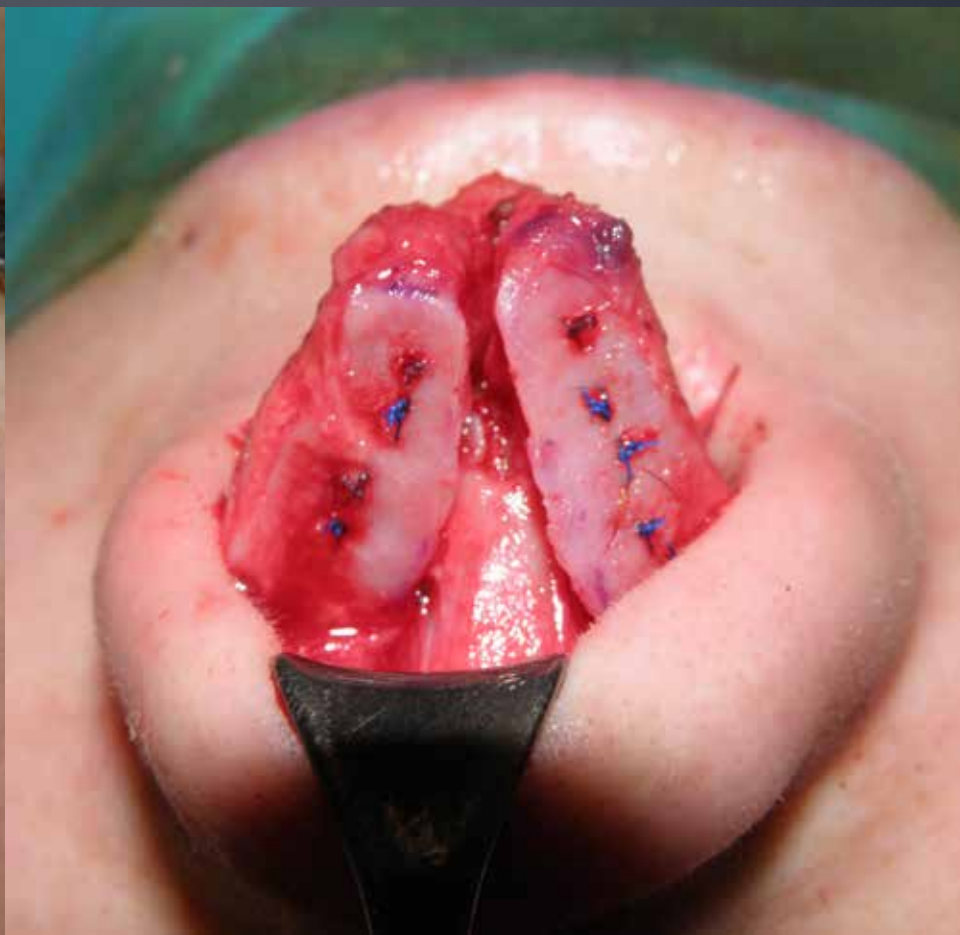
# "S" Deformity of Lateral Crura





# Lateral Crural Strut Graft





# Weak Middle Crura



# Middle Crural Supporting Grafts









# Depressed Soft Triangles







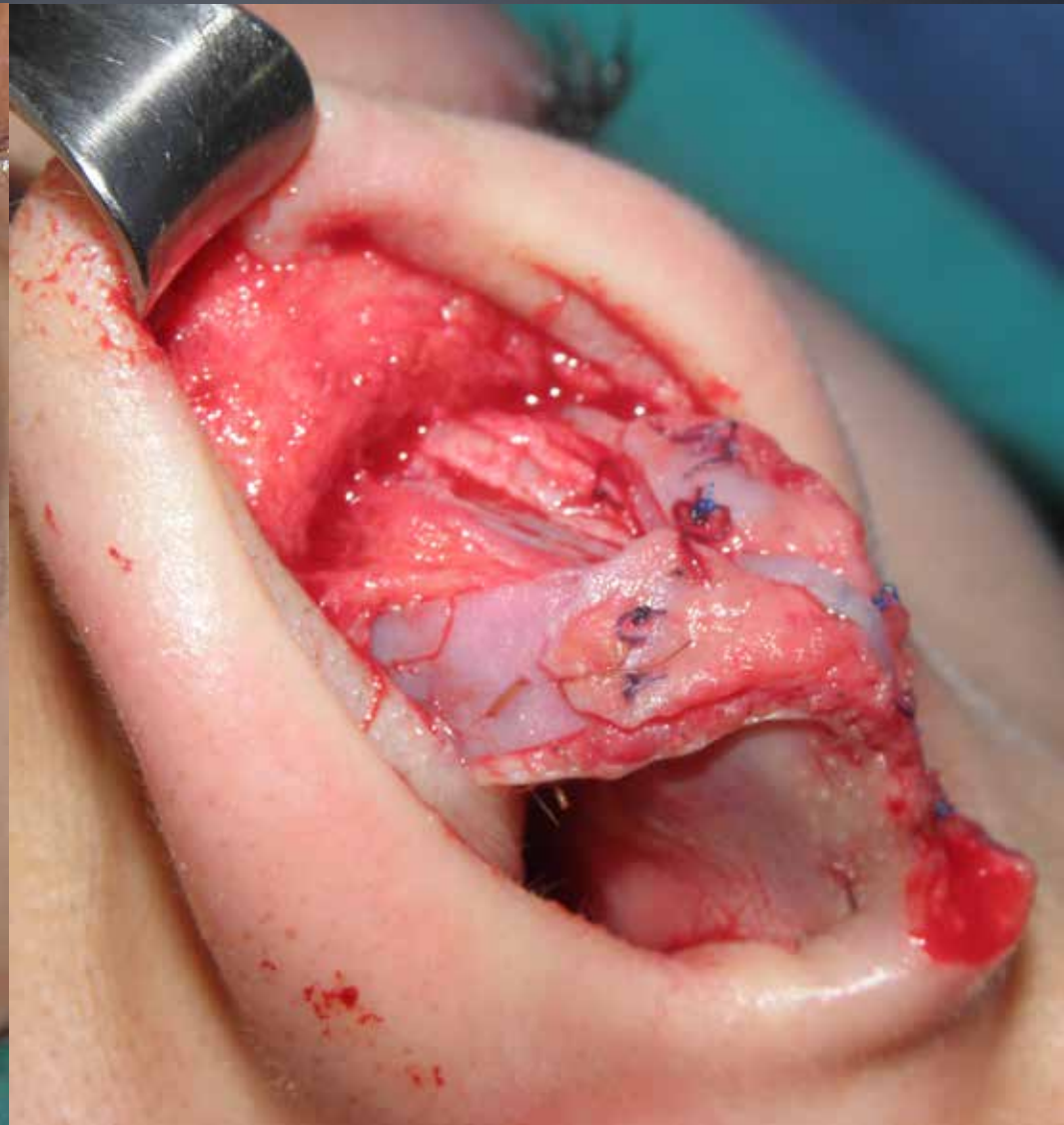
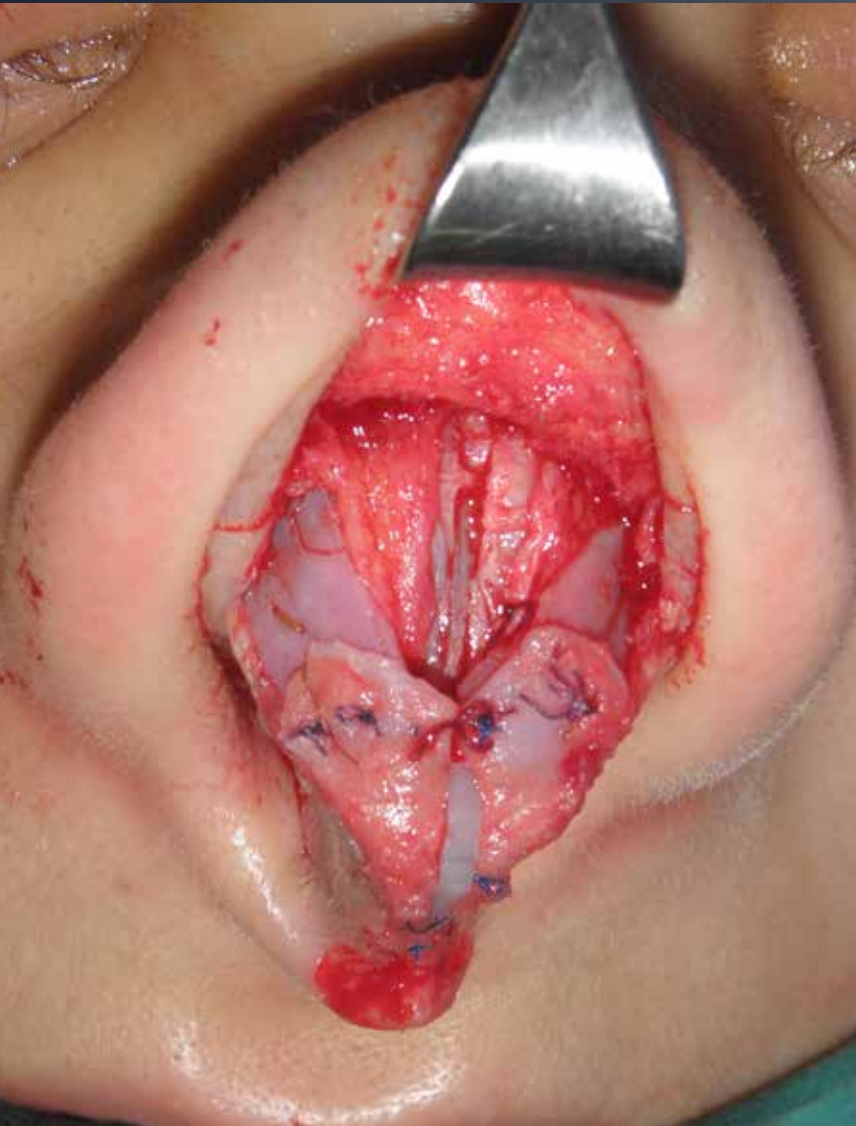
# Large and Thick Skin Weak Medial and Lateral Crura







# Lateral Crural Steal+Lateral Crural Strut Grafts



# Alar Base Reduction-Radix Graft







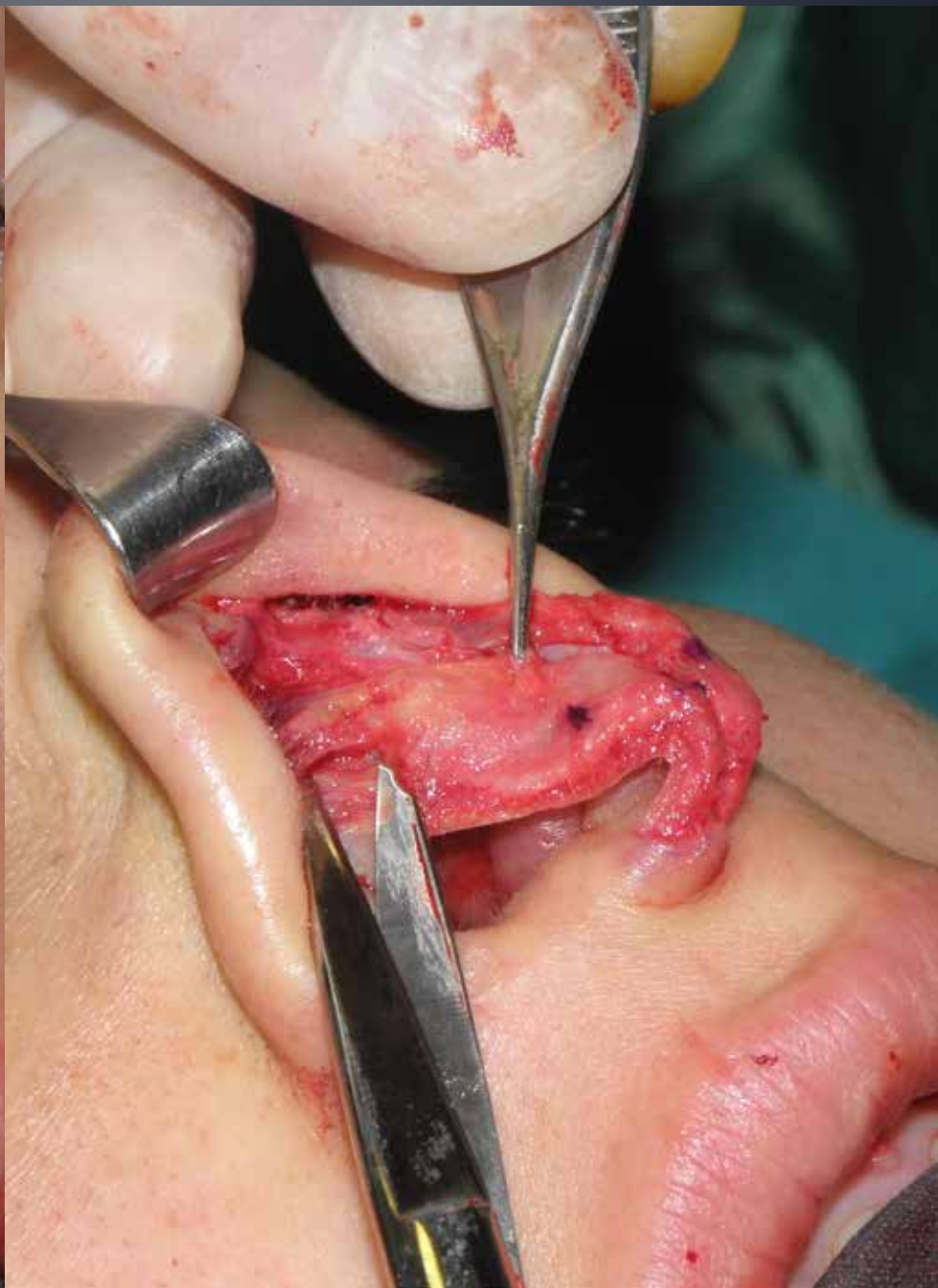


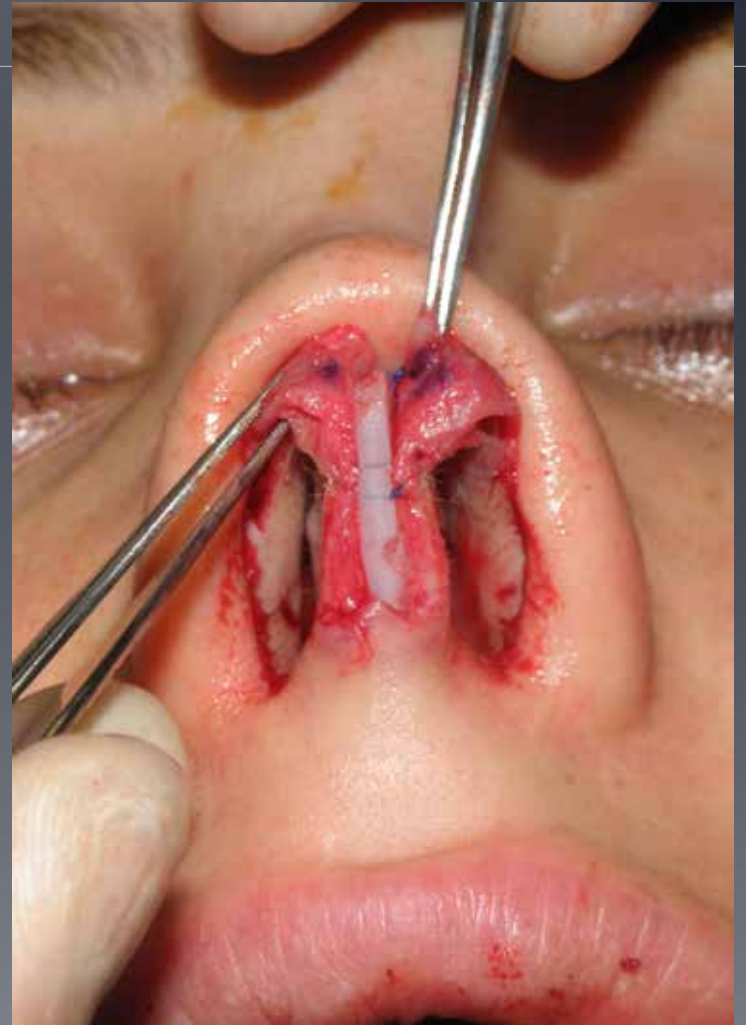


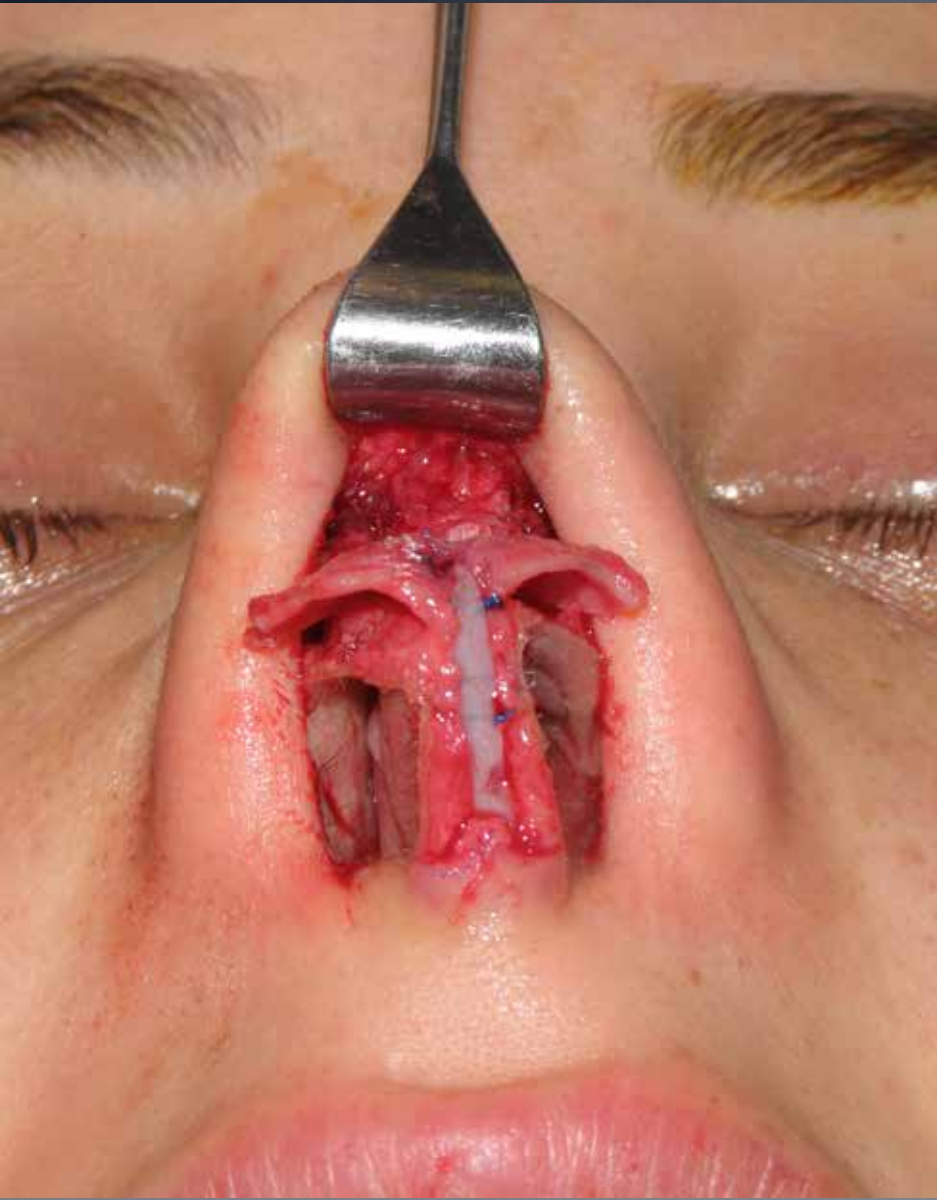


# Short and weak medial and lateral crura











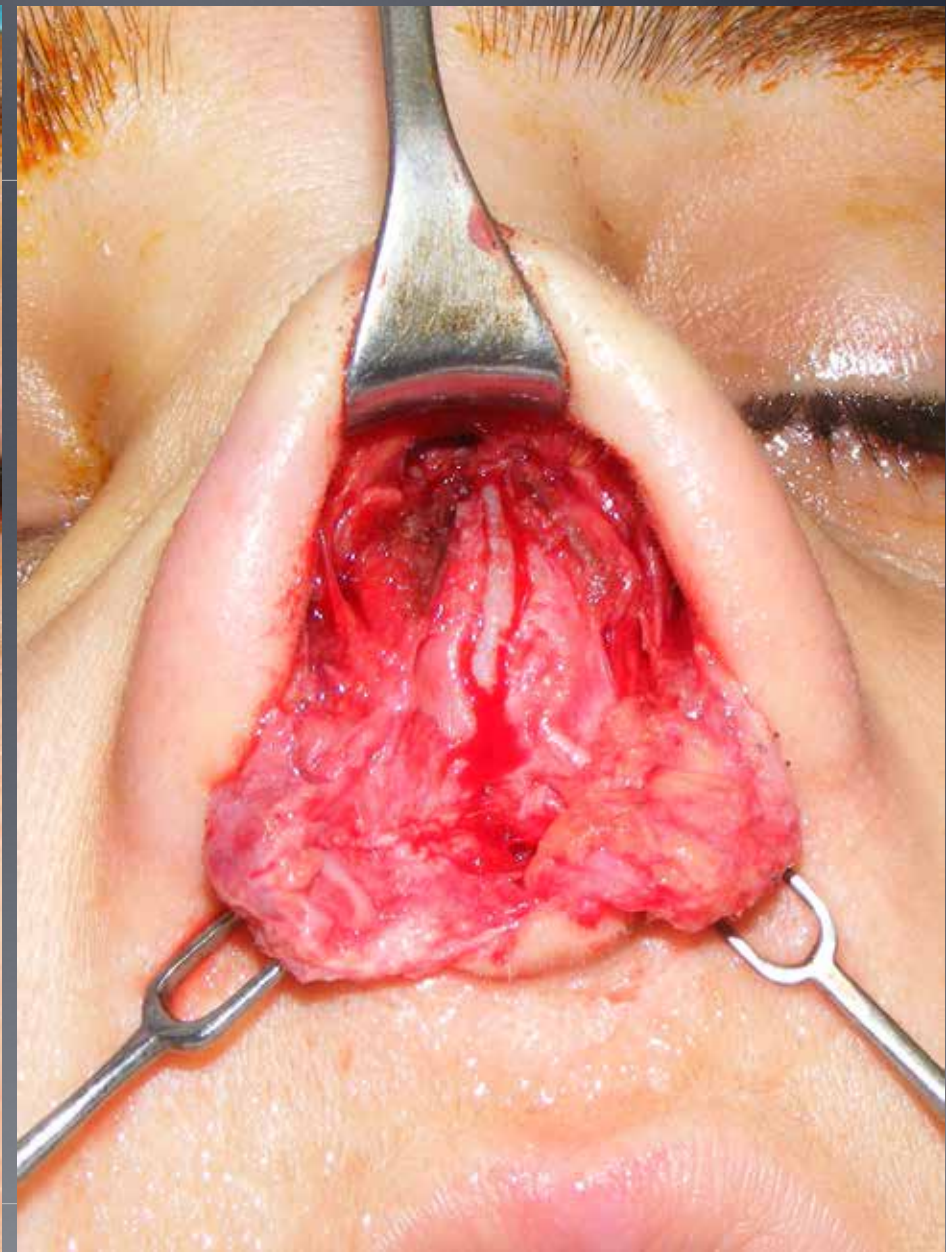


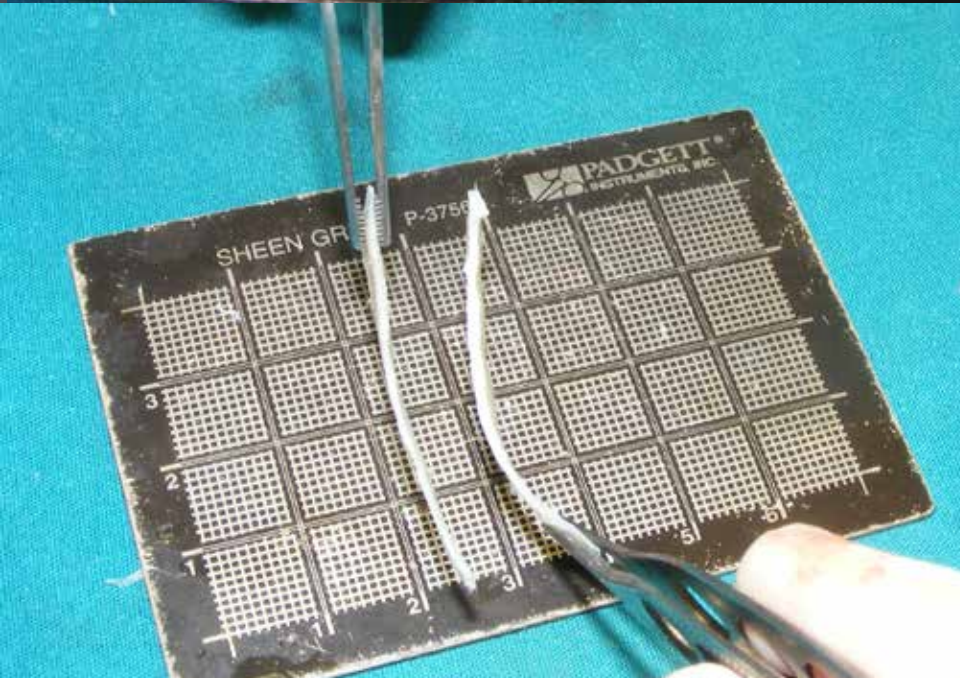










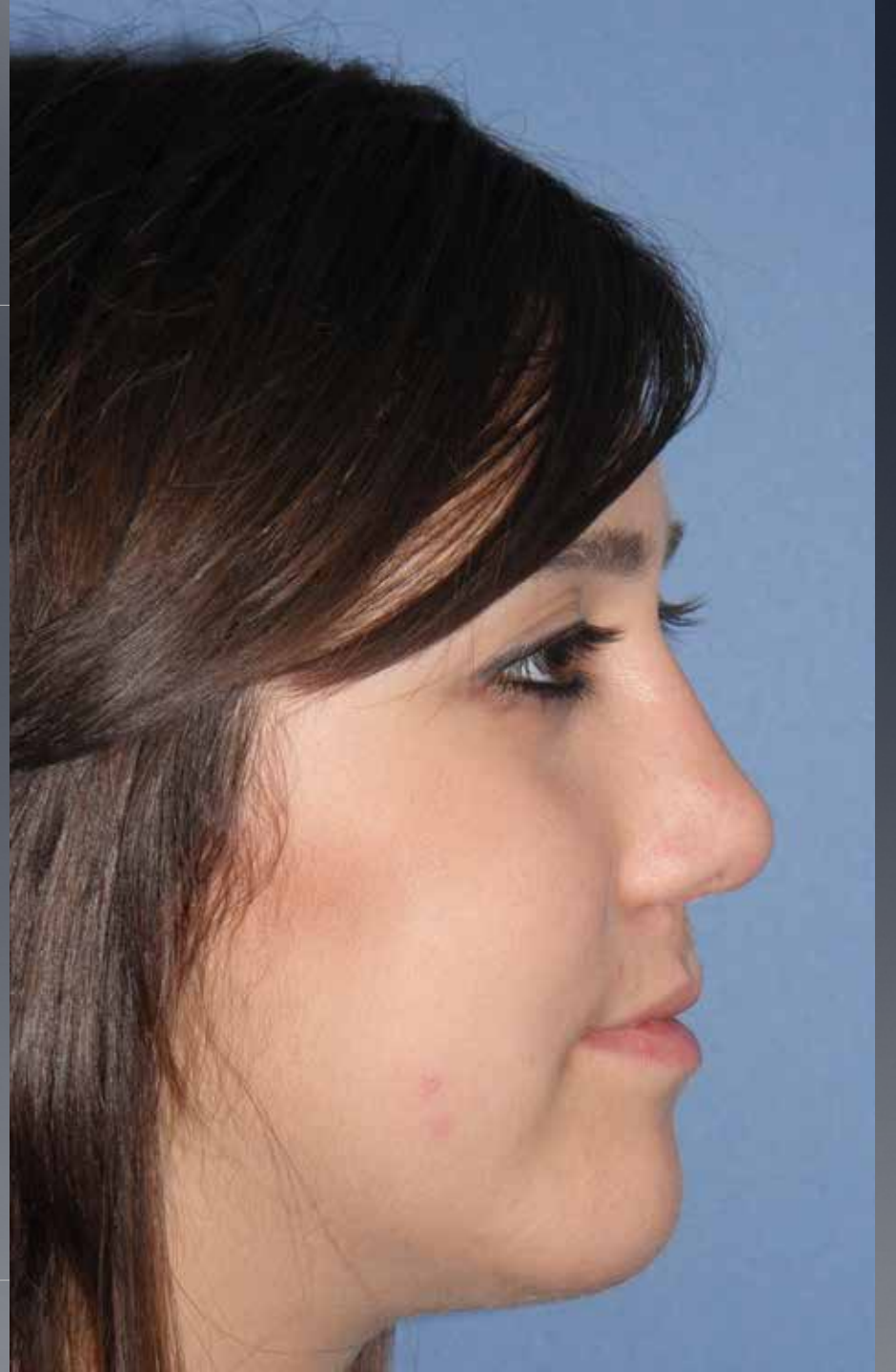




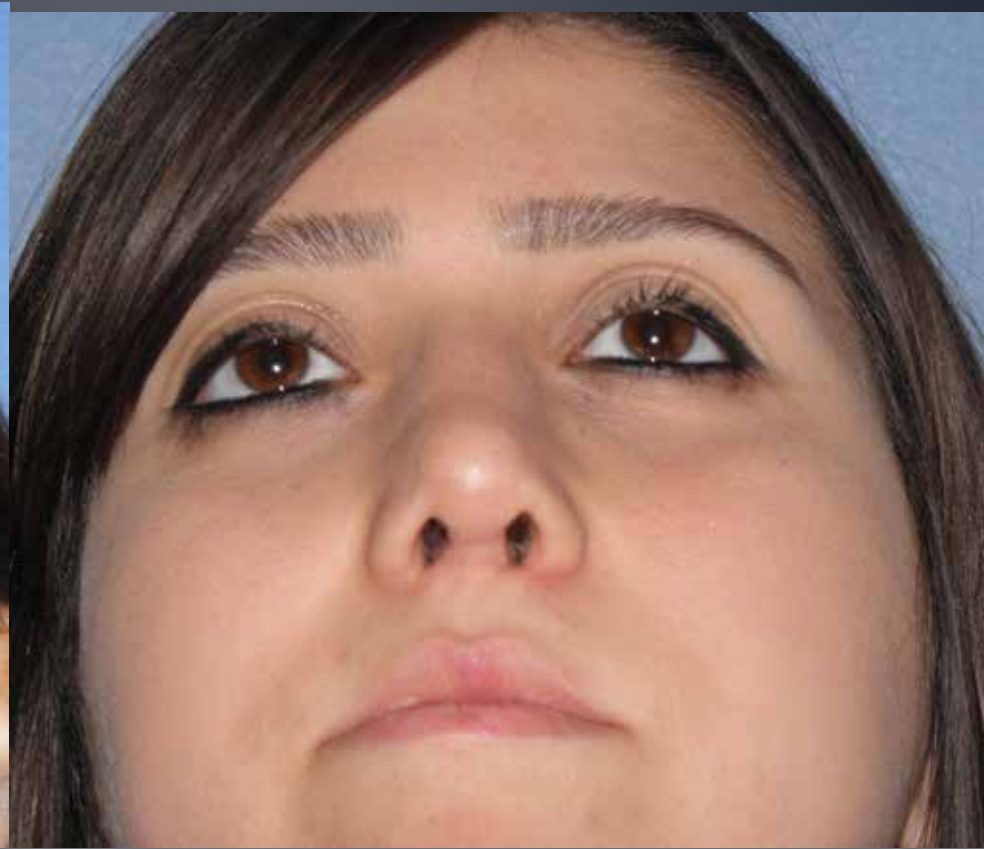












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# CEPHALIC ORIENTED LATERAL CRURA

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# Cephalic oriented lateral crura

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# Lateral Crural Transposition

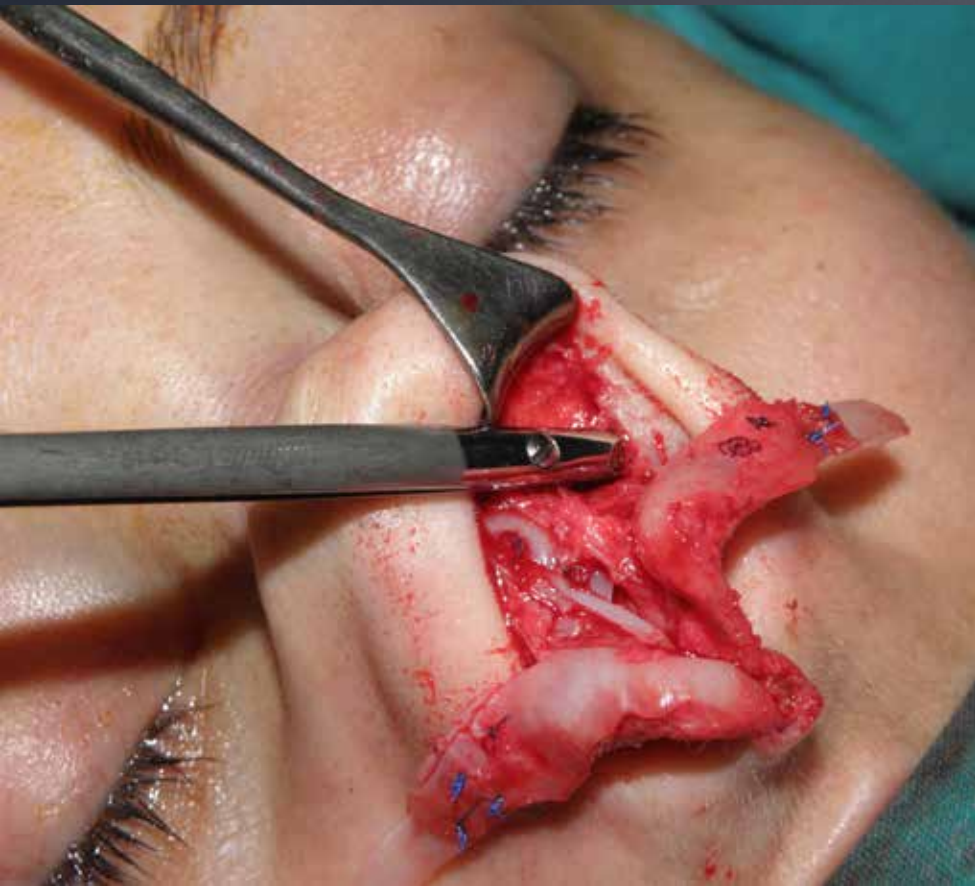


















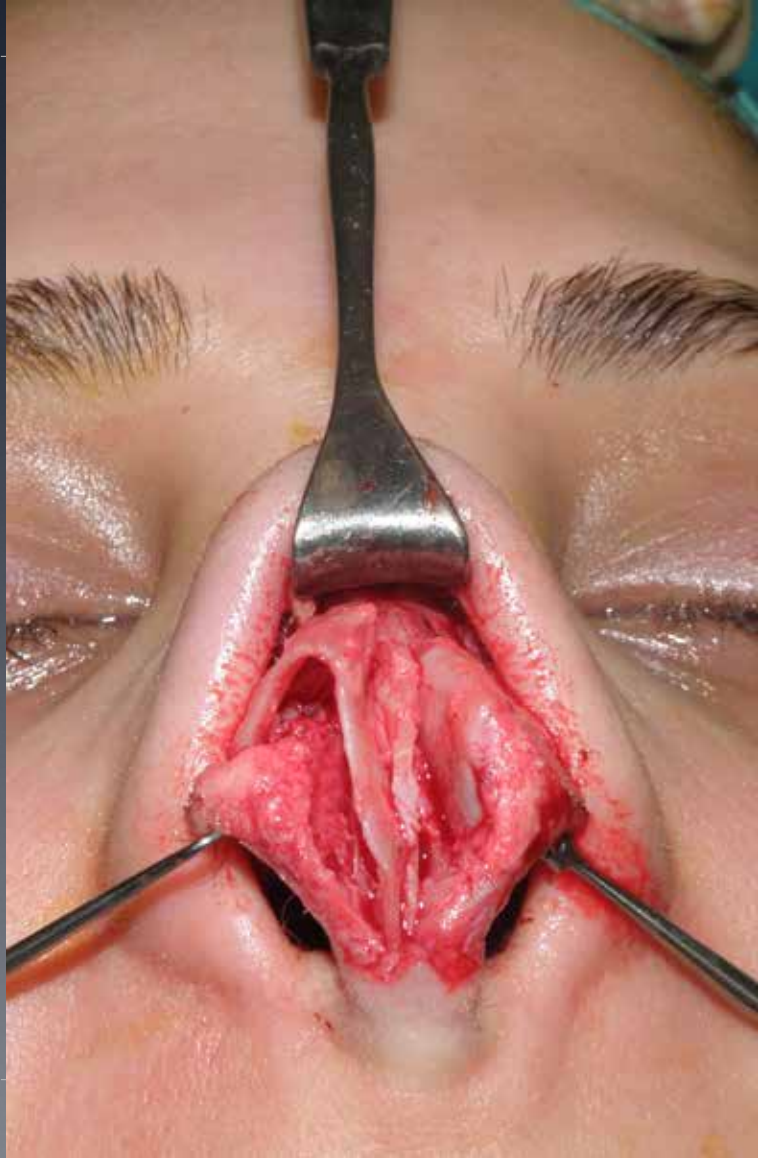




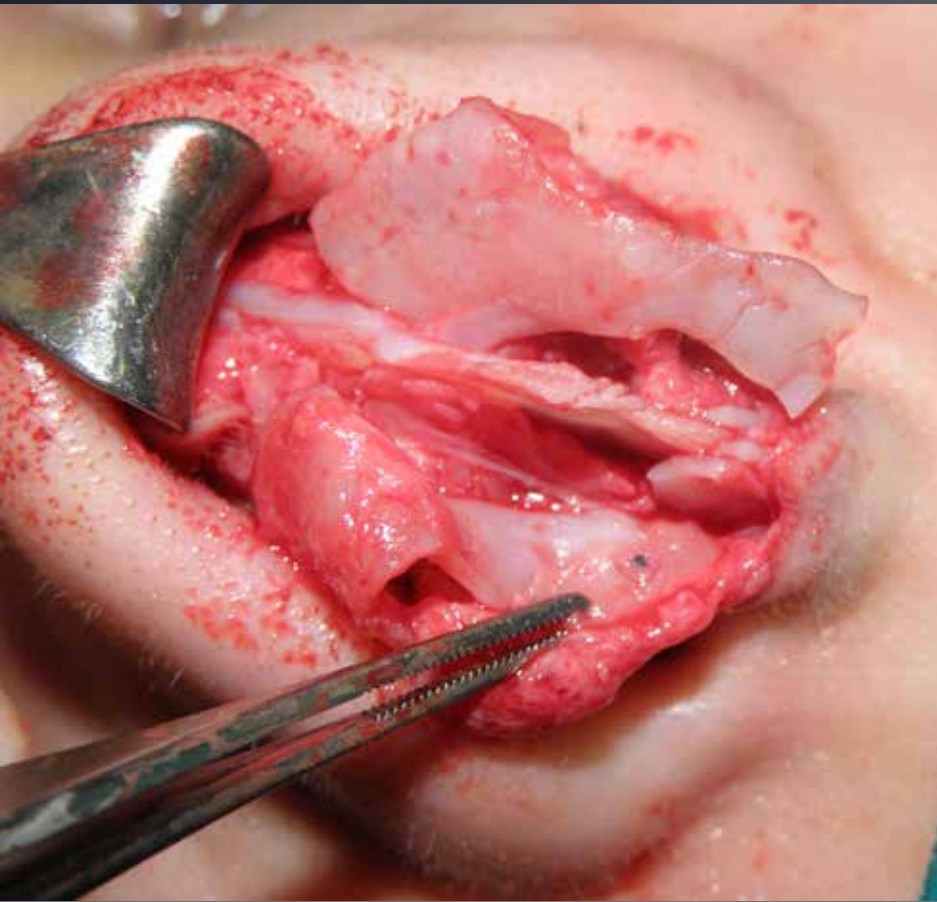




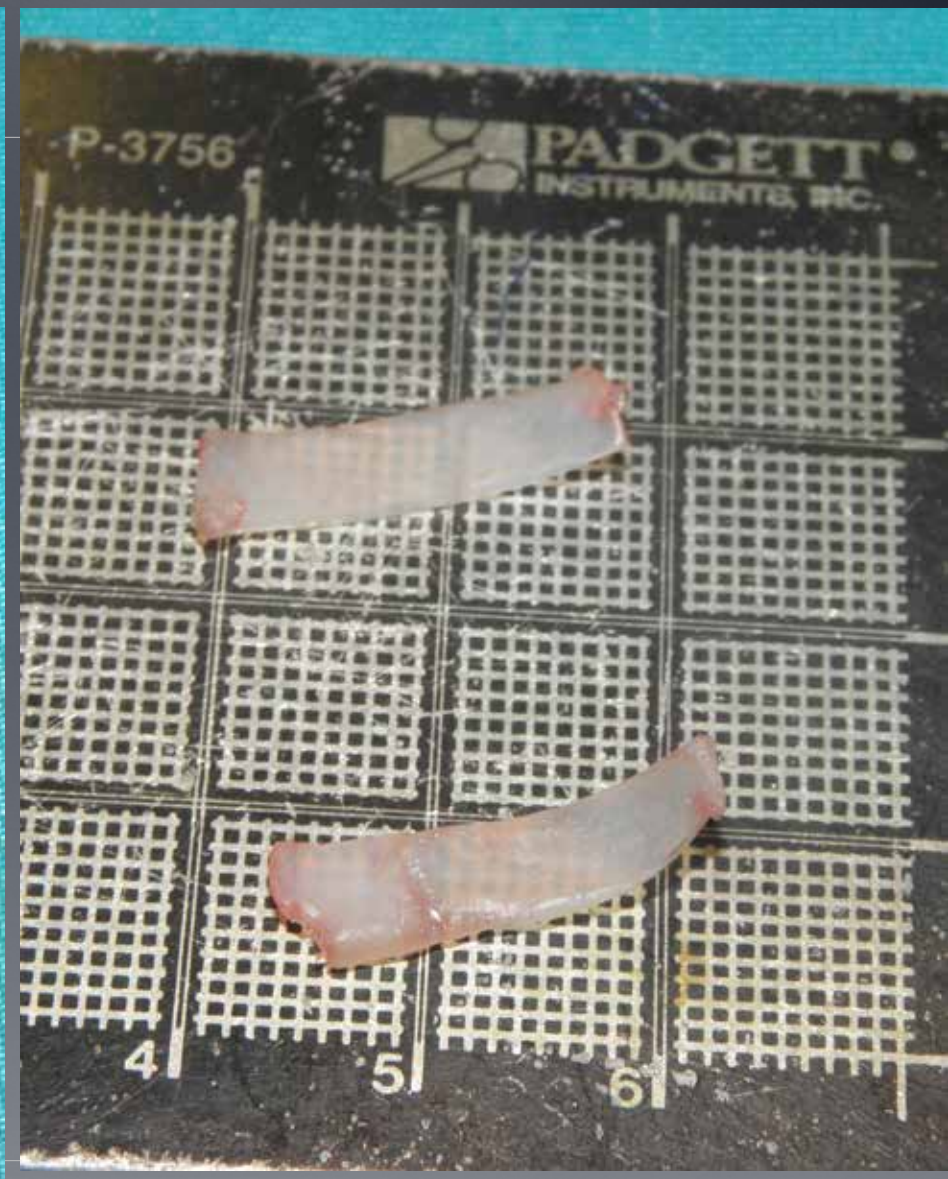




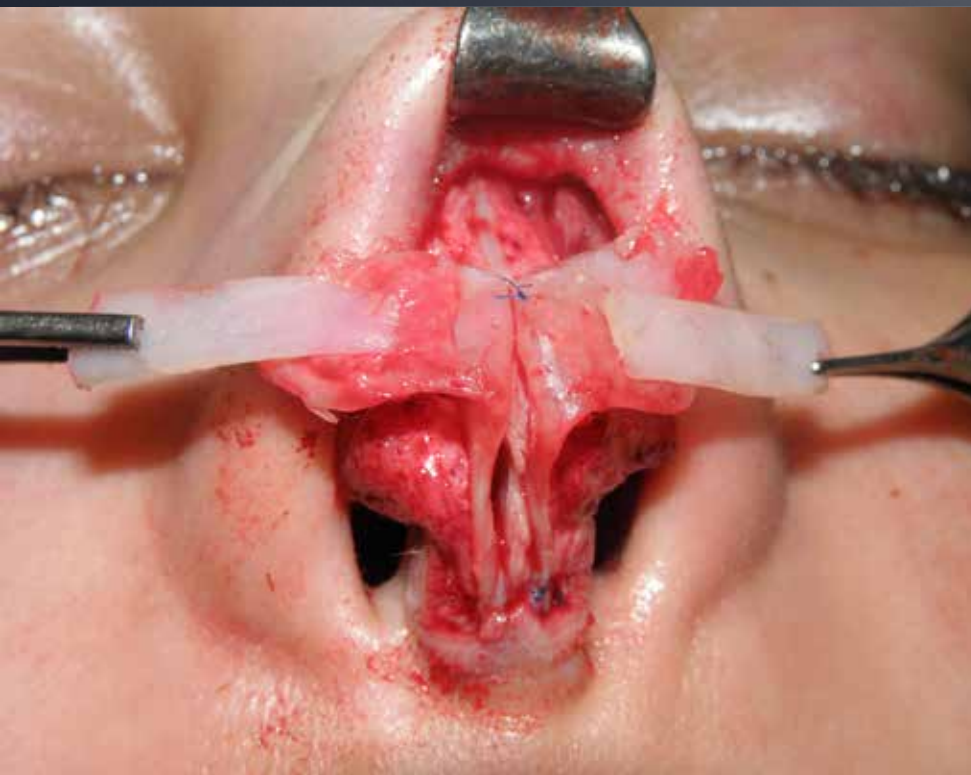






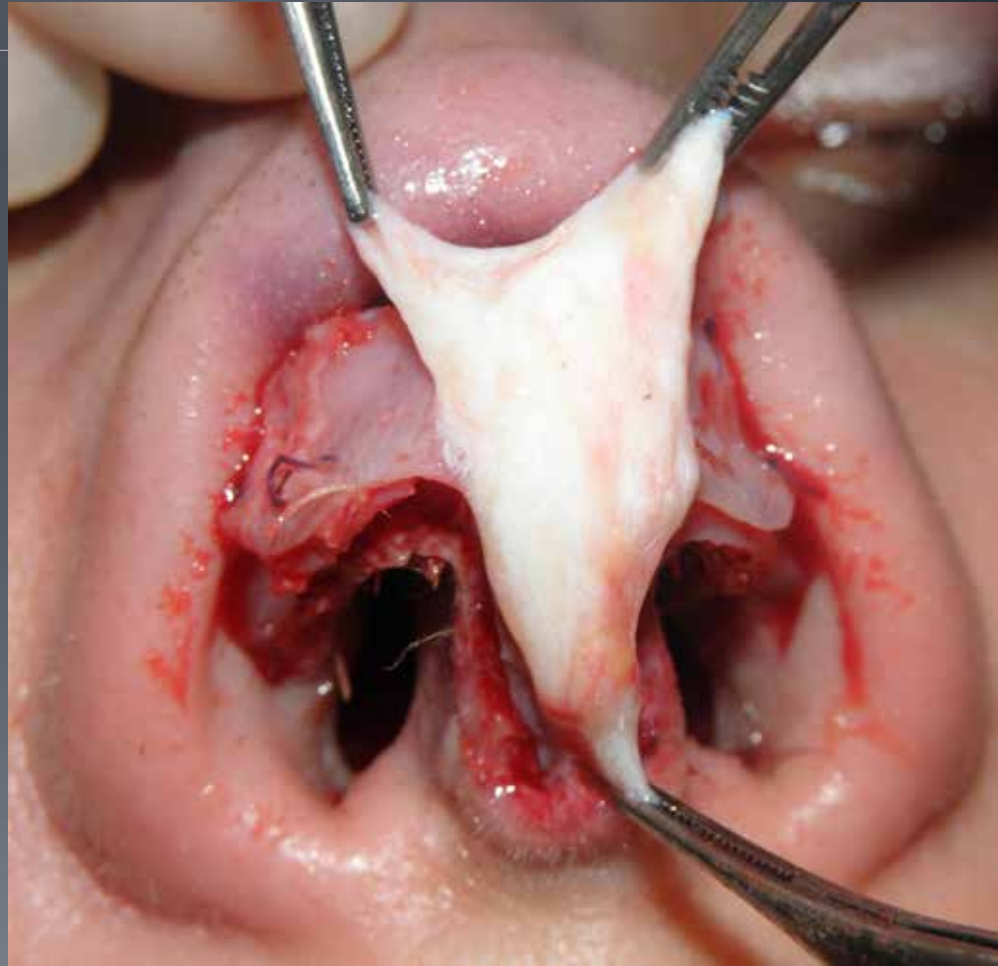
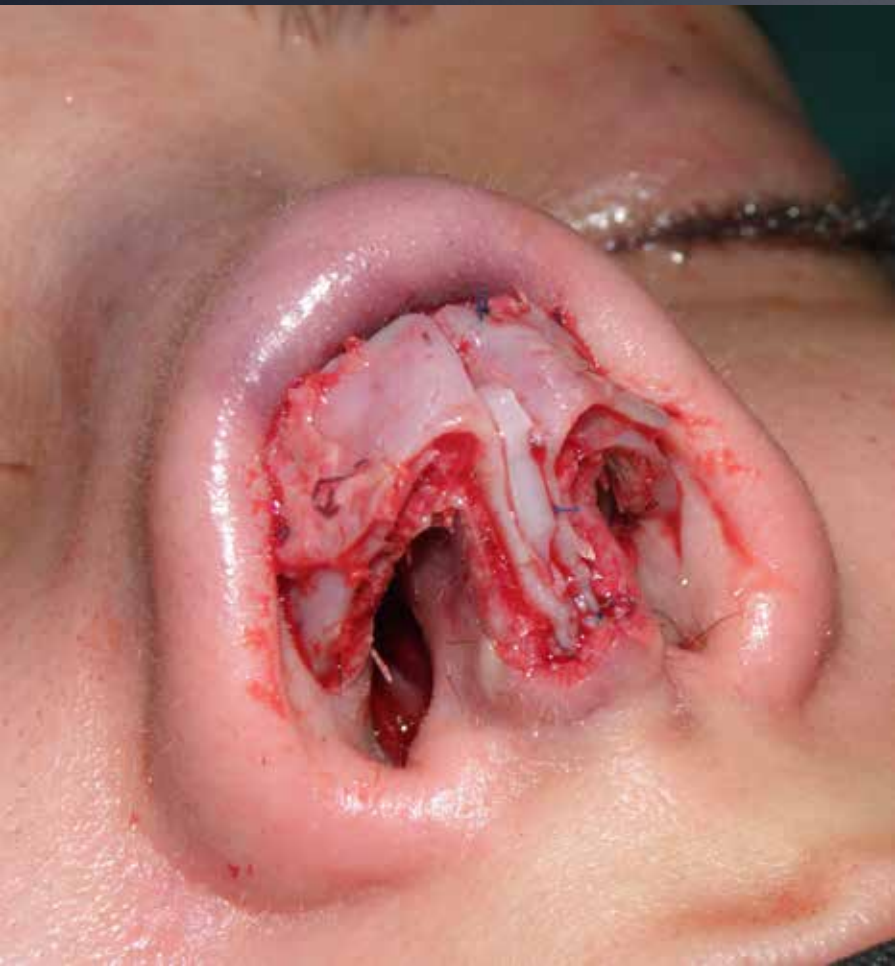




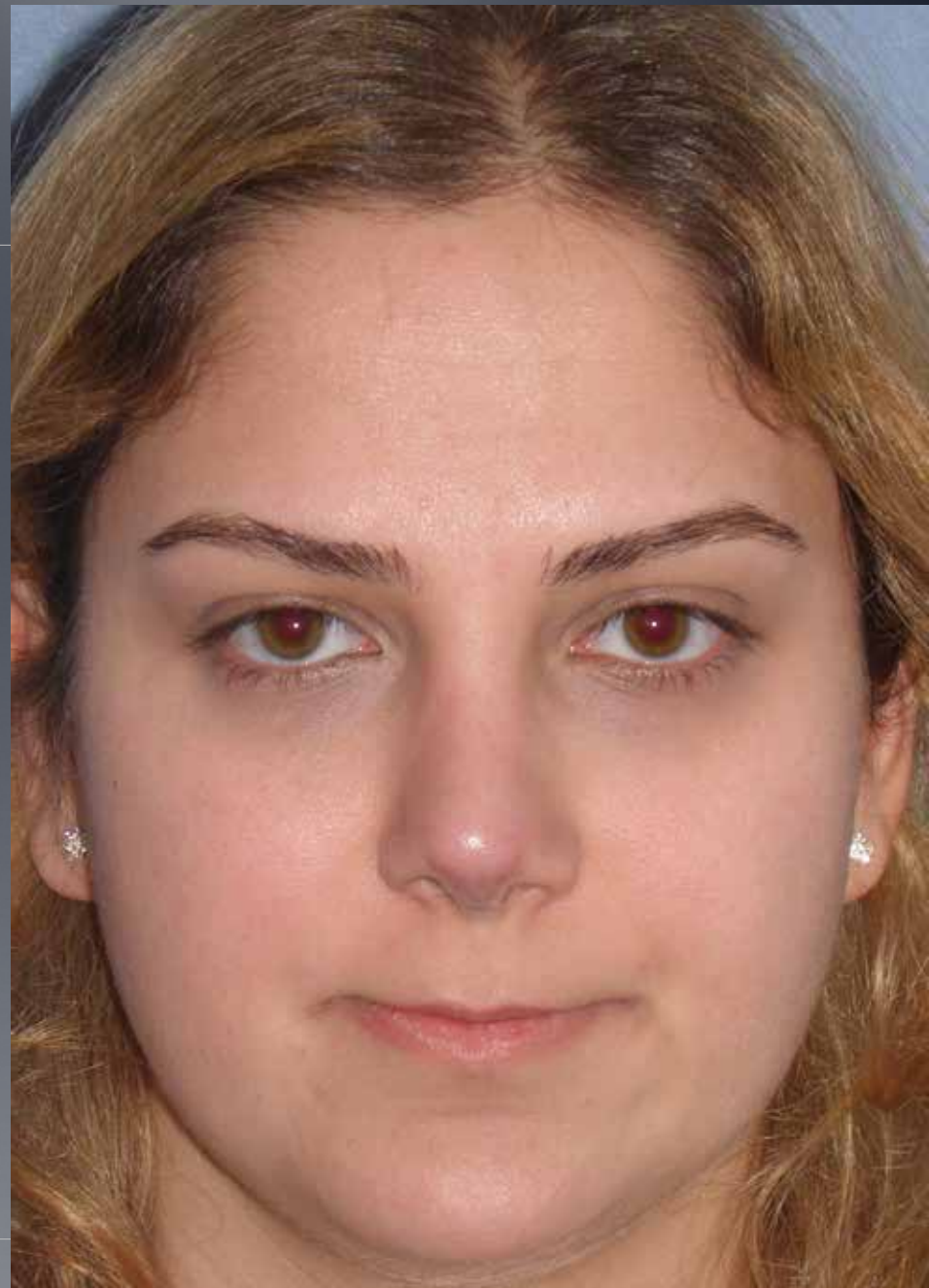




















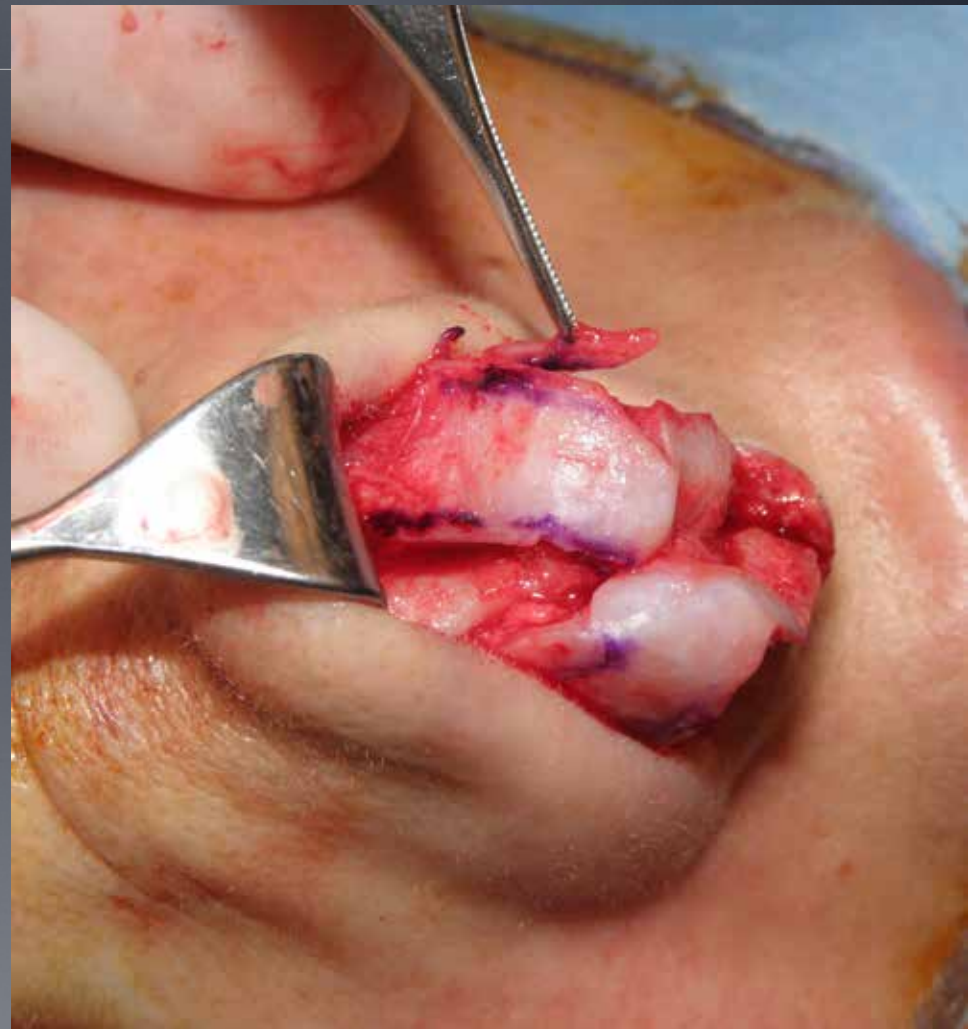


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# CAUDAL ORIENTED LATERAL CRURA

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# RECONSTRUCTION OF ALAR CARTILAGES

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# OVERRESECTION OF ALAR CARTILAGES

- Pinching deformity
- External nasal valve collapse
- Loss of tip support
- Impairment of airway

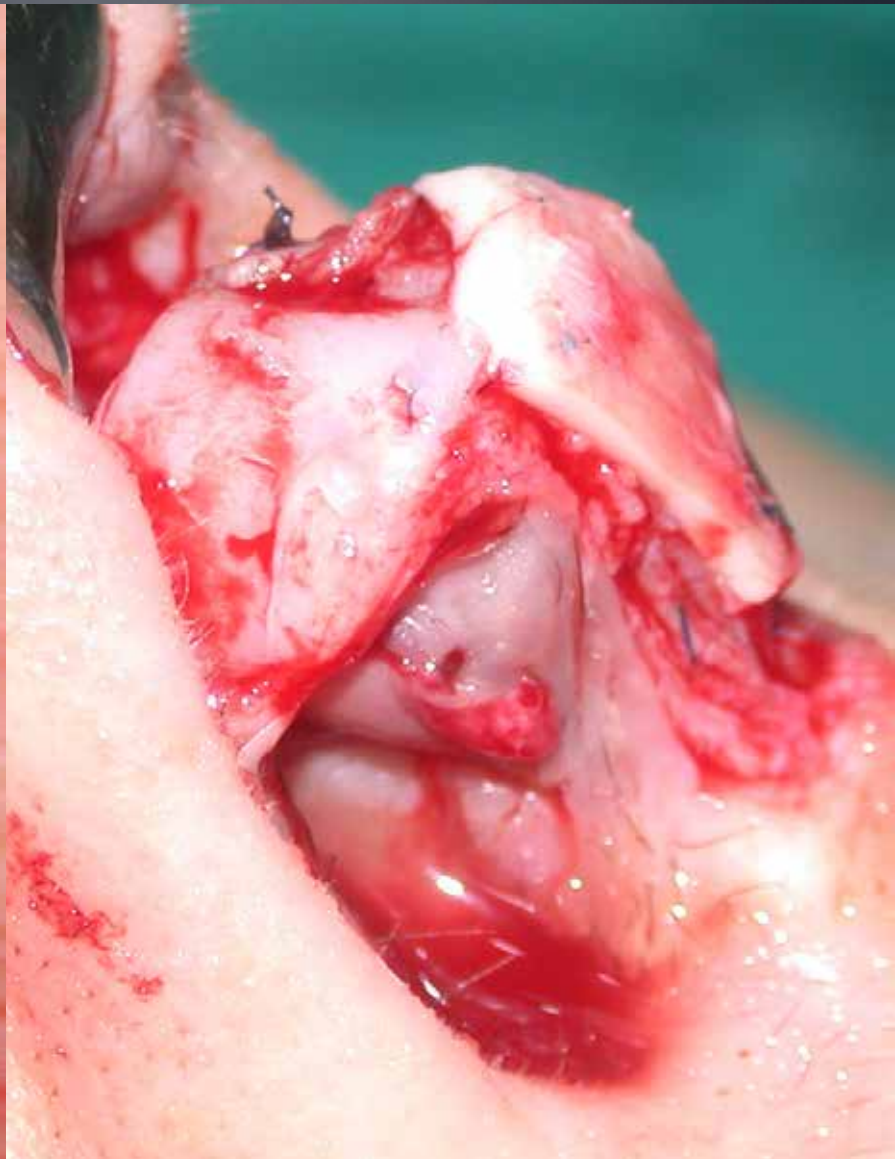


# MEDIAL CRURAL DEFECTS

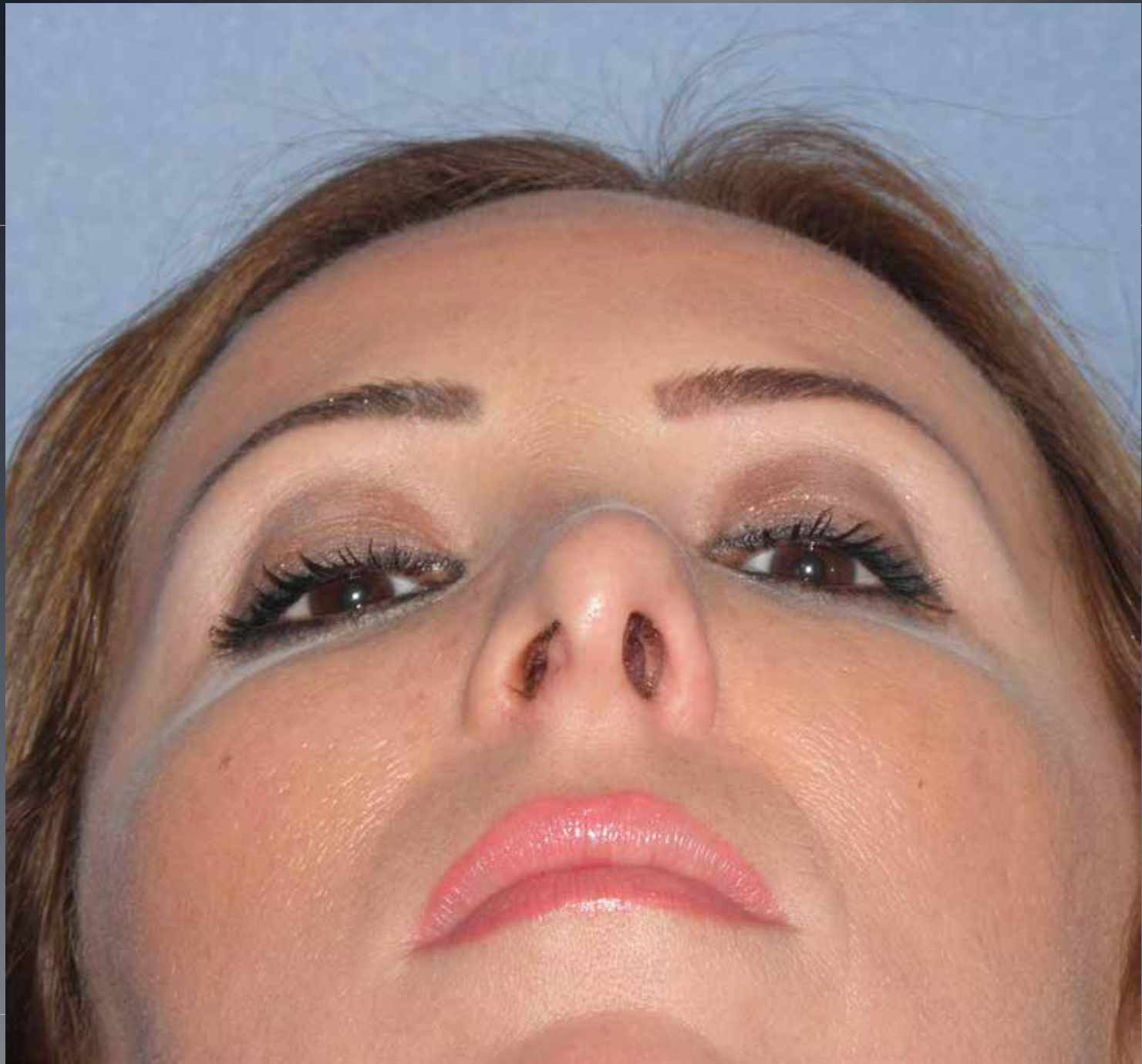
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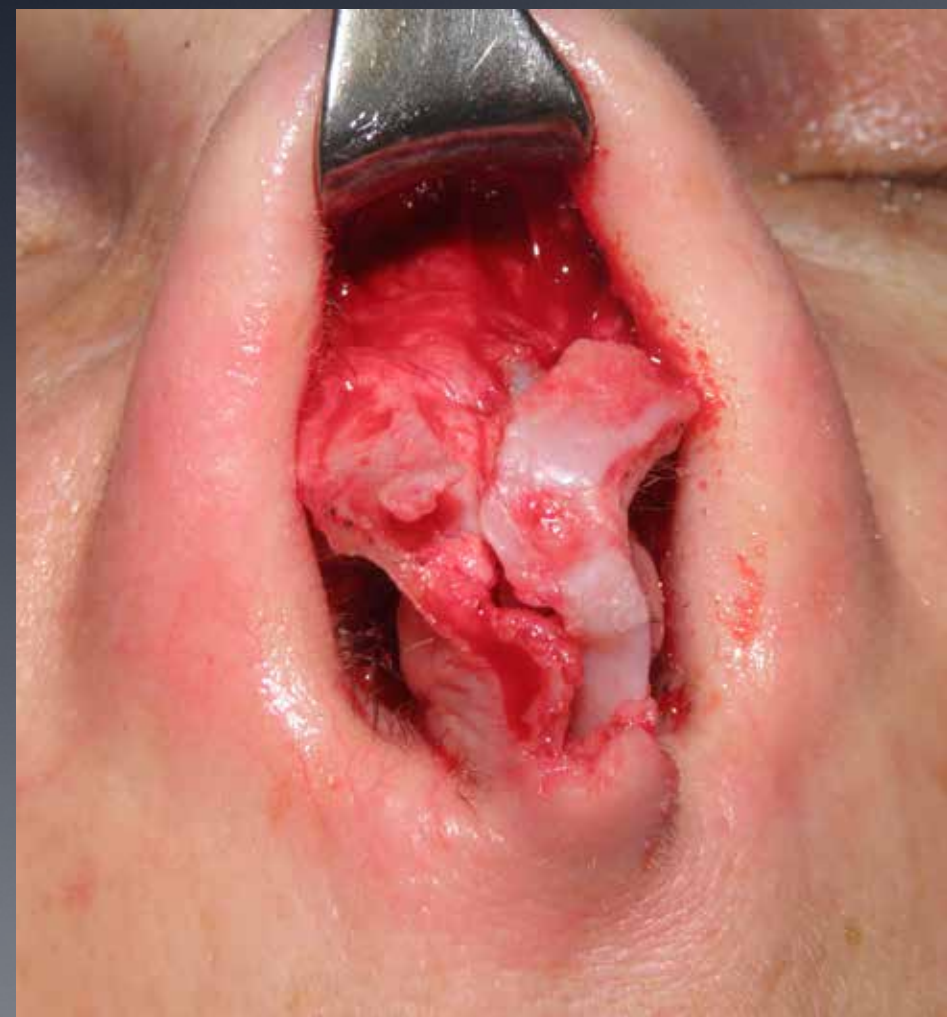
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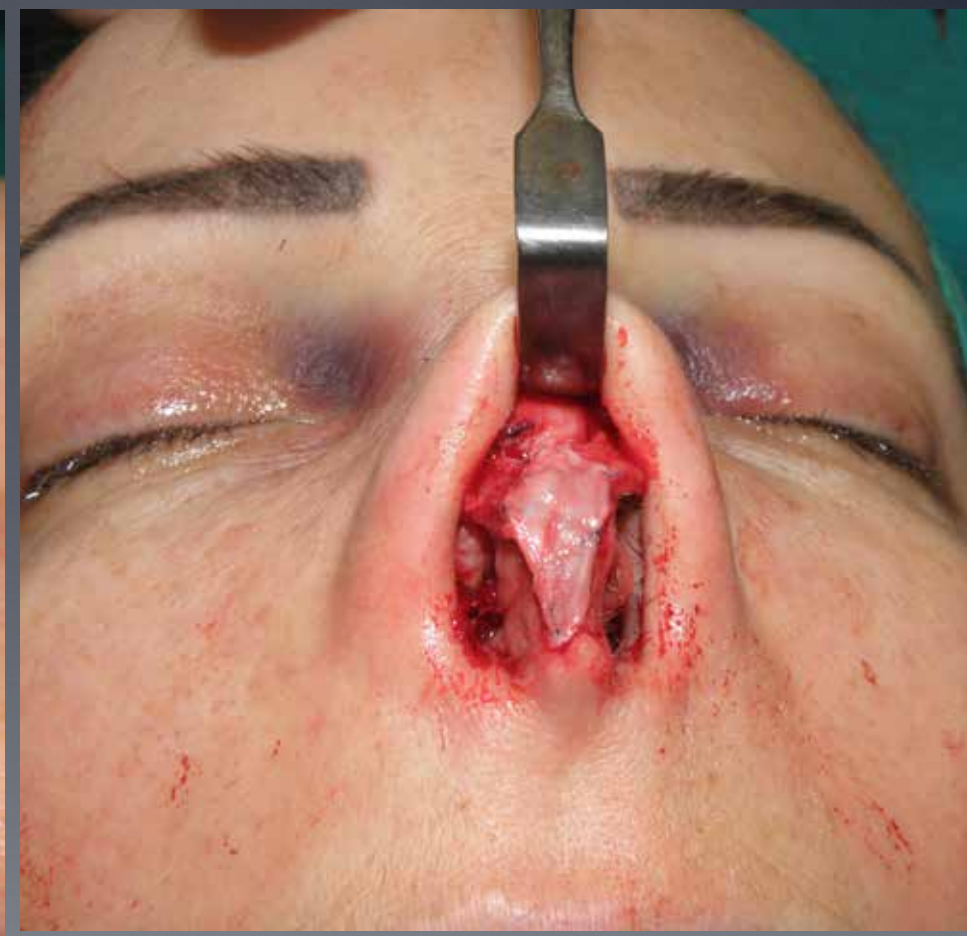














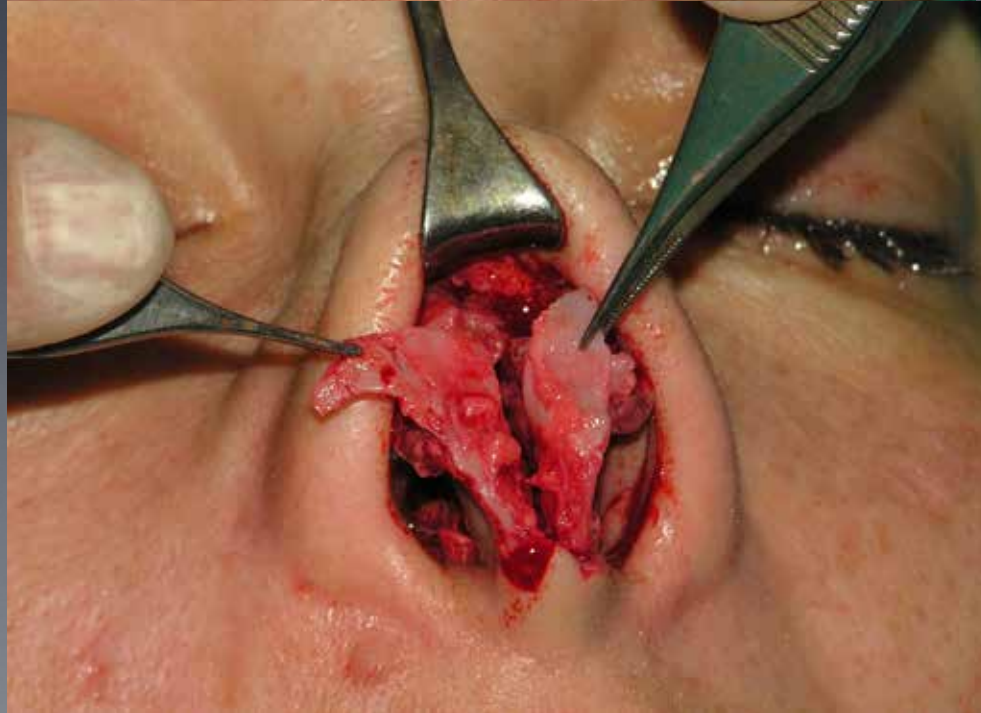


# LATERAL CRURA RECONSTRUCTION

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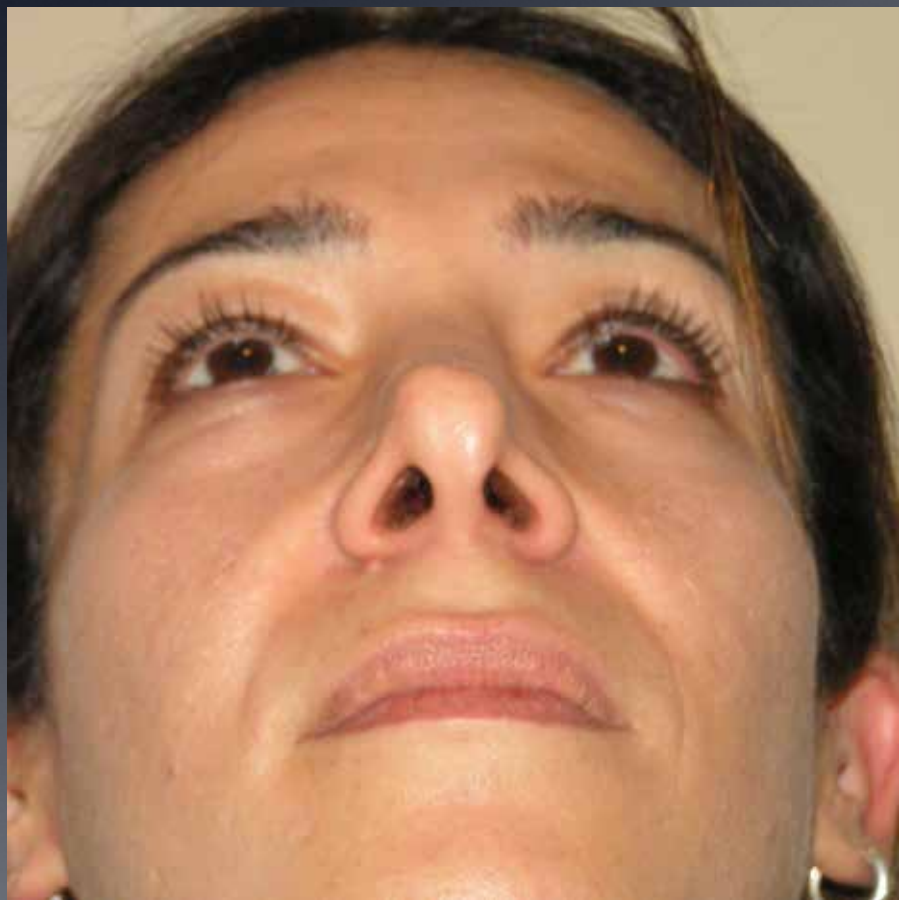








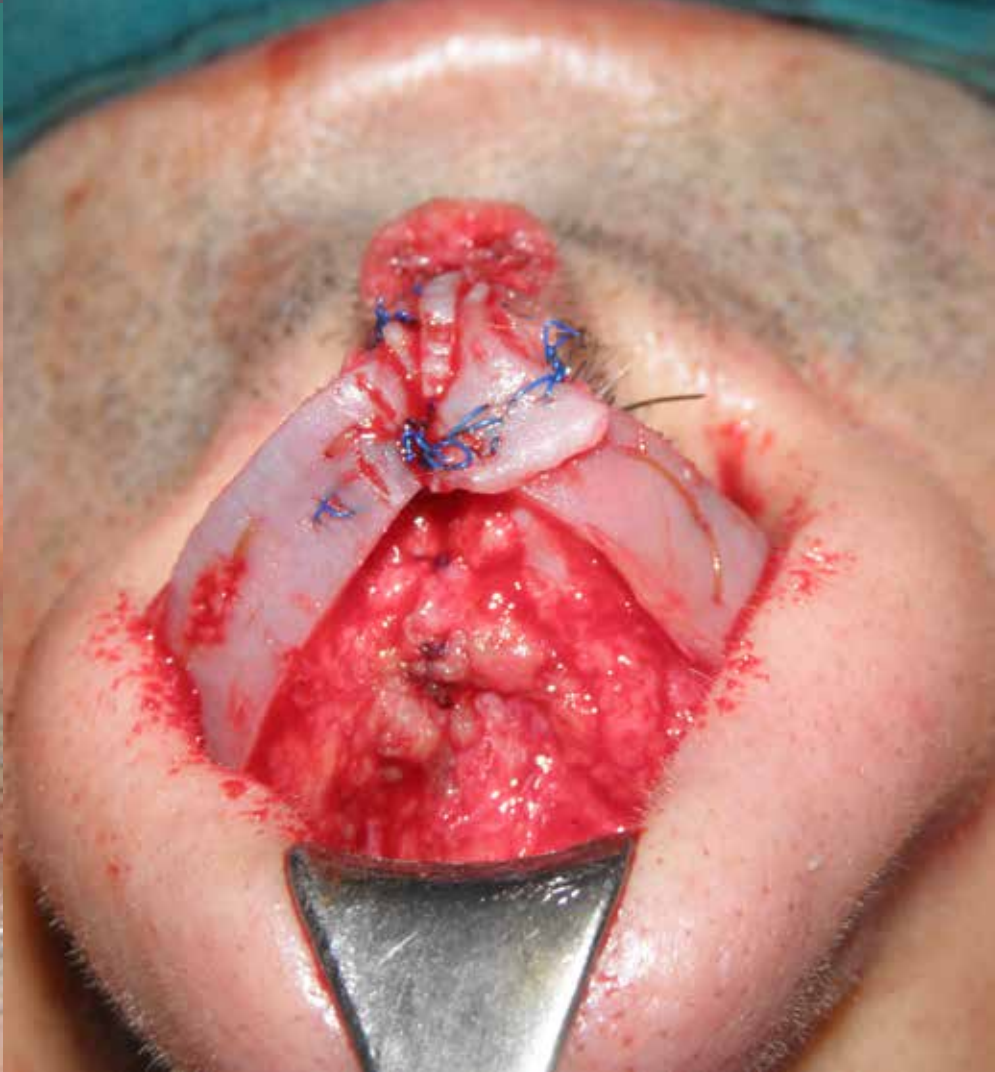














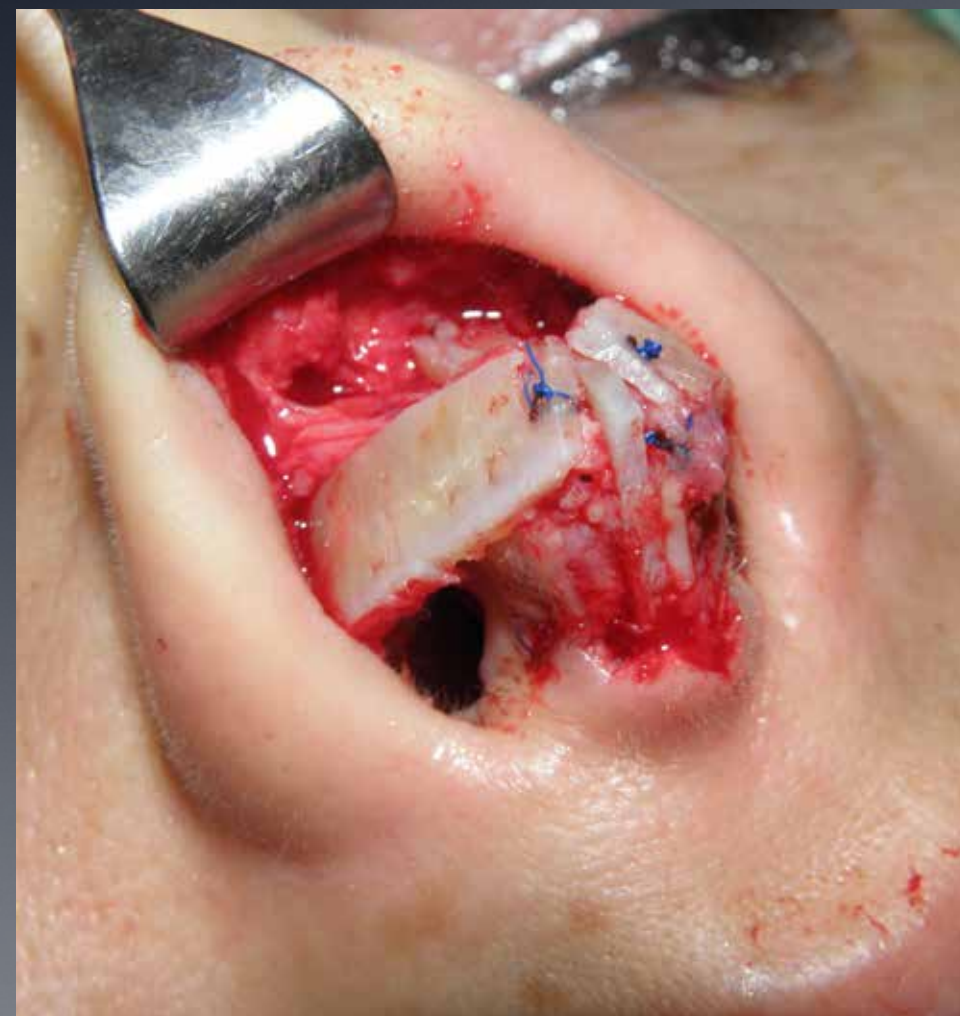




# Congenital Defect of Lateral Crus



# LATERAL CRURAL RECONSTRUCTION WITH RIB CARTILAGE





# CLEFT LIP NOSE DEFORMITY

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# SURGICAL PLAN

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- Open technique
  - Septoplasty
  - Left lateral crus dissection and separation from accessory cartilages
  - 9. Rib cartilage harvest
  - Bilateral lateral crural strut graft
  - Placement of a long columellar strut
  - Dome equalization suture
  - Alar rim graft to left
  - Shield type tip graft
  - Rektus fascia harvest
  - Rektus fascia + Diced cartilage dorsal onlay graft
  - Diced cartilage graft to pyriform aperture
  - Alar base resection
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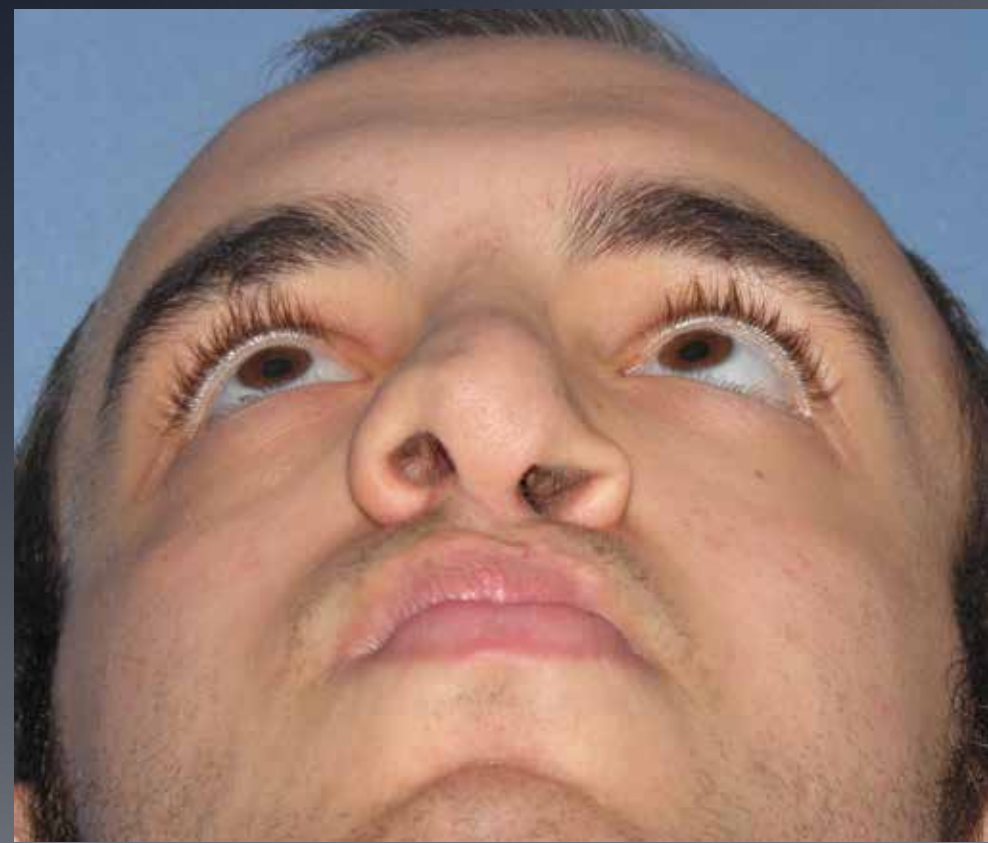












Thank you.....

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