

Aesthetic Procedures of the Nose – Pre and Postoperative CT Evaluation

Nose surgeries are often performed to modify portions to improve its appearance and to correct causes of nasal obstruction

Preoperative Nose



Functional Anatomy

- Bony pyramid
- Cartilaginous pyramid
- Lower Lateral Cartilages
- Lobule
- Nasal valves
- Inferior turbinates
- Skin and soft tissue
- Muscles
- Blood supply
- Nerves



CT and MRI



Nasal Deformities

Frontal

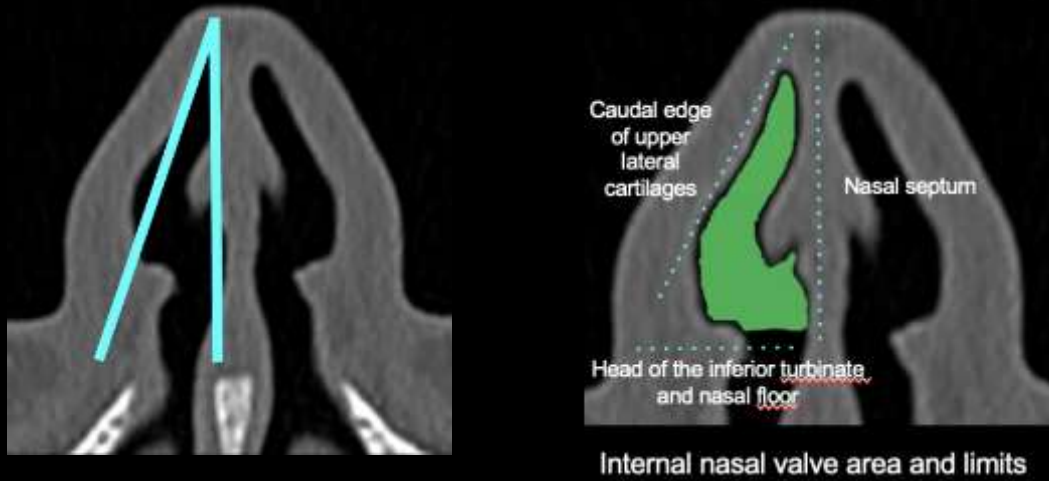
Lateral

Base



Preoperative- Planning the Procedure with a CT Scan

Internal nasal valve area and limits



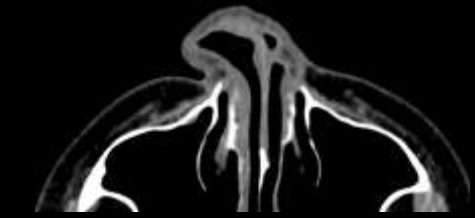
Internal nasal valve angle

Critical Points in a Report:

Functional components of the nasal valve:

- Internal nasal valve angle
- Bony piriform aperture
- Head of the inferior turbinate
- Erectile body of the septum

Anatomic variants, nasal deformities, genetic syndromes must be carefully described in the report



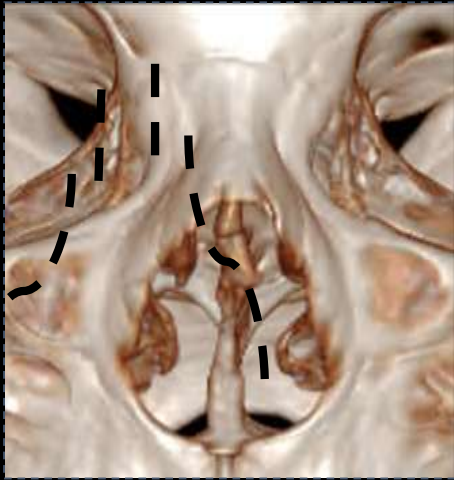
Major nasal deformity



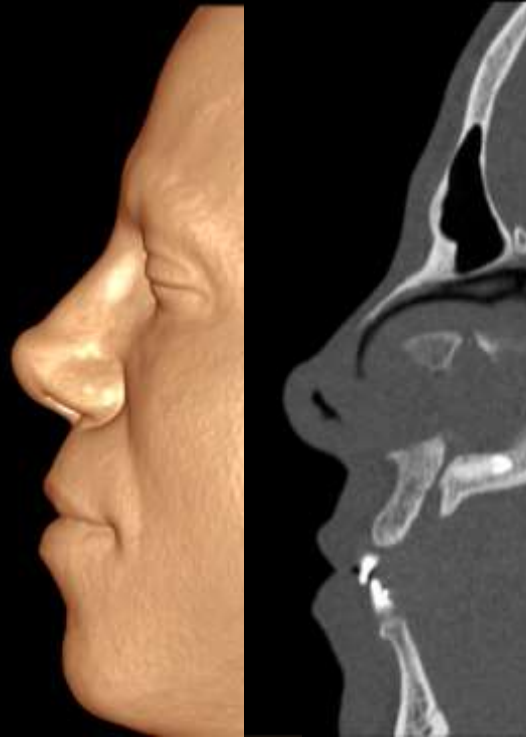
Laterorhiny



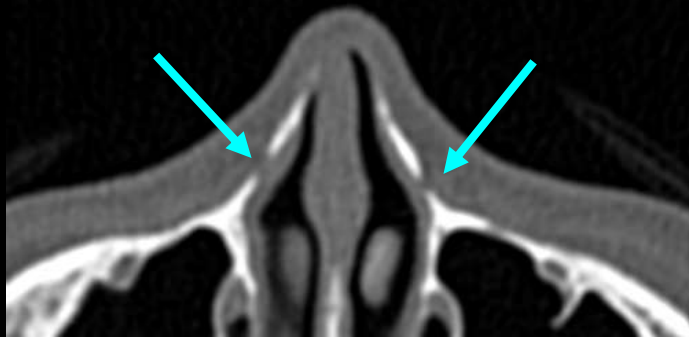
Surgical Techniques and Imaging Findings



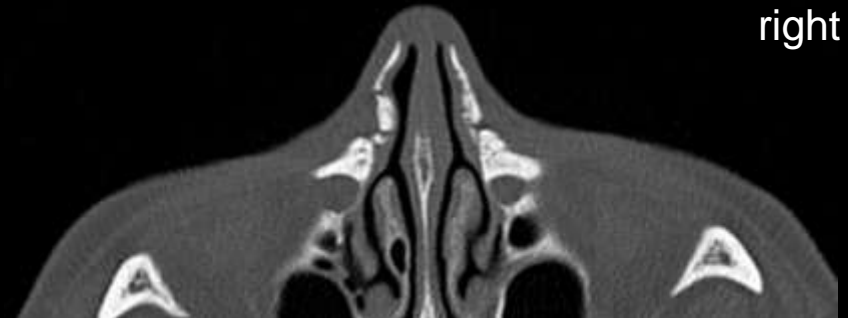
CT image after rhinoplasty with nasal tip rotation



Comminuted fracture of the nasal bones with bone misalignment, especially on the right



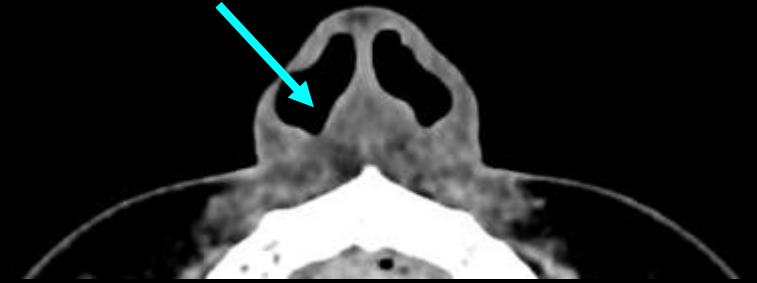
Midline and lateral osteotomy lines to reposition accordingly and correct asymmetry



Postoperative CT imaging – Surgical Modifications and Potential Complications



- Surgical techniques
- Sequels and modifications in usual anatomy
- Complications

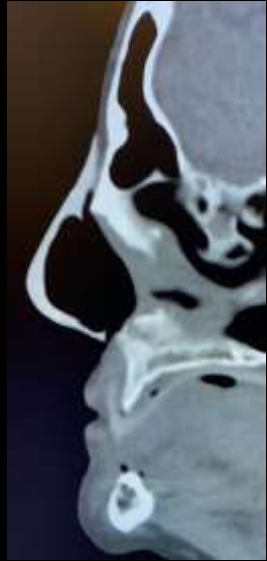


CT and
MRI

Absorbable PDO thread - Thickening and densification of soft parts of the nasolabial philtrum and the base of the nasal columella, without images of foreign bodies or collections using the method



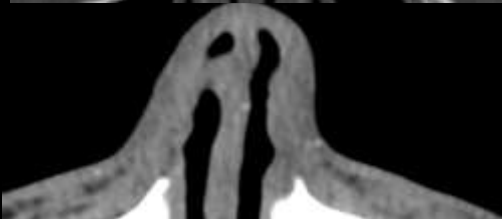
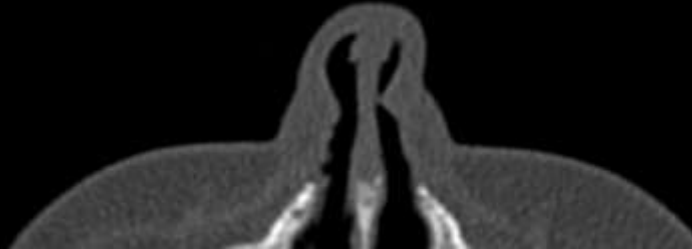
Postoperative CT imaging – Surgical Modifications and Potential Complications



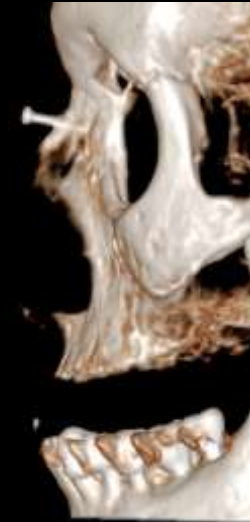
Total nasal prosthesis -
postoperative of basal
cell carcinoma



Pinched tip caused by excessive
removal of cartilage during rhinoplasty



Nasal synechia after rhinoplasty



Fixation screw for grafting
material on the nasal
dorsum

