

COMPLEX CLEFT AND CRANIOFACIAL RHINOPLASTY

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www.craniofacialinstitute.org

GSR Institute of Facial Plastic Surgery



- Non-profit hospital established in 1996
- Dedicated Cleft & Craniofacial Centre of Excellence
- Presently 1,600 cleft and craniofacial surgeries are done every year
- 4 surgeons and 6 fellows with full support team
- More than 40,000 documented cleft & craniofacial surgeries have been performed since 1996
- 600 primary new born cleft children are registered every year



COMPLEX NASAL DEFORMITIES



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CAUSE OF DEFORMITY

(Surgeon's Assessment)

- Congenital (Cleft or craniofacial defect)
- Anatomic (Hemiplasia, Aplasia, Duplication)
- Esthetic (Hump on the nose)
- Functional (Deviated Nasal Septum)
- Pathologic (Obstruction due to growth in the nose)
- Traumatic (Traumatic injury of the nose)



Congenital Nasal Defect



Congenital Nasal Defects

Tessier # 2 facial cleft



Tessier # 3 facial cleft



Anatomic Nasal Defects



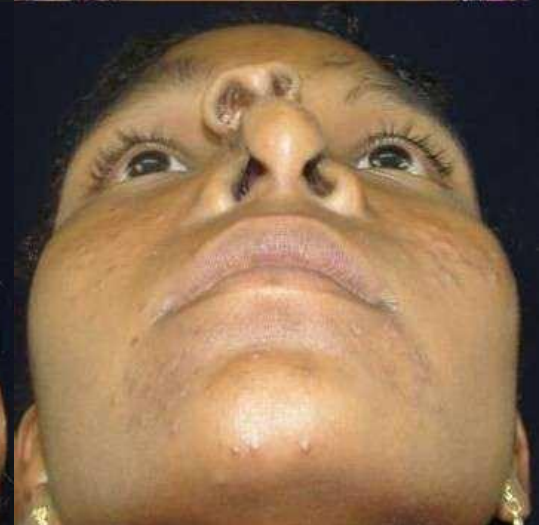
Nasal Aplasia



Hemi Nasal Aplasia



Nasal Duplication



Esthetic Nasal Deformities



Broad Nose



Beaked Nose



Short Nose



Long Nose



Functional Nasal Deformities



Deviated nasal septum



Pathologic Nasal Deformities



Rhinopyoma



Noma



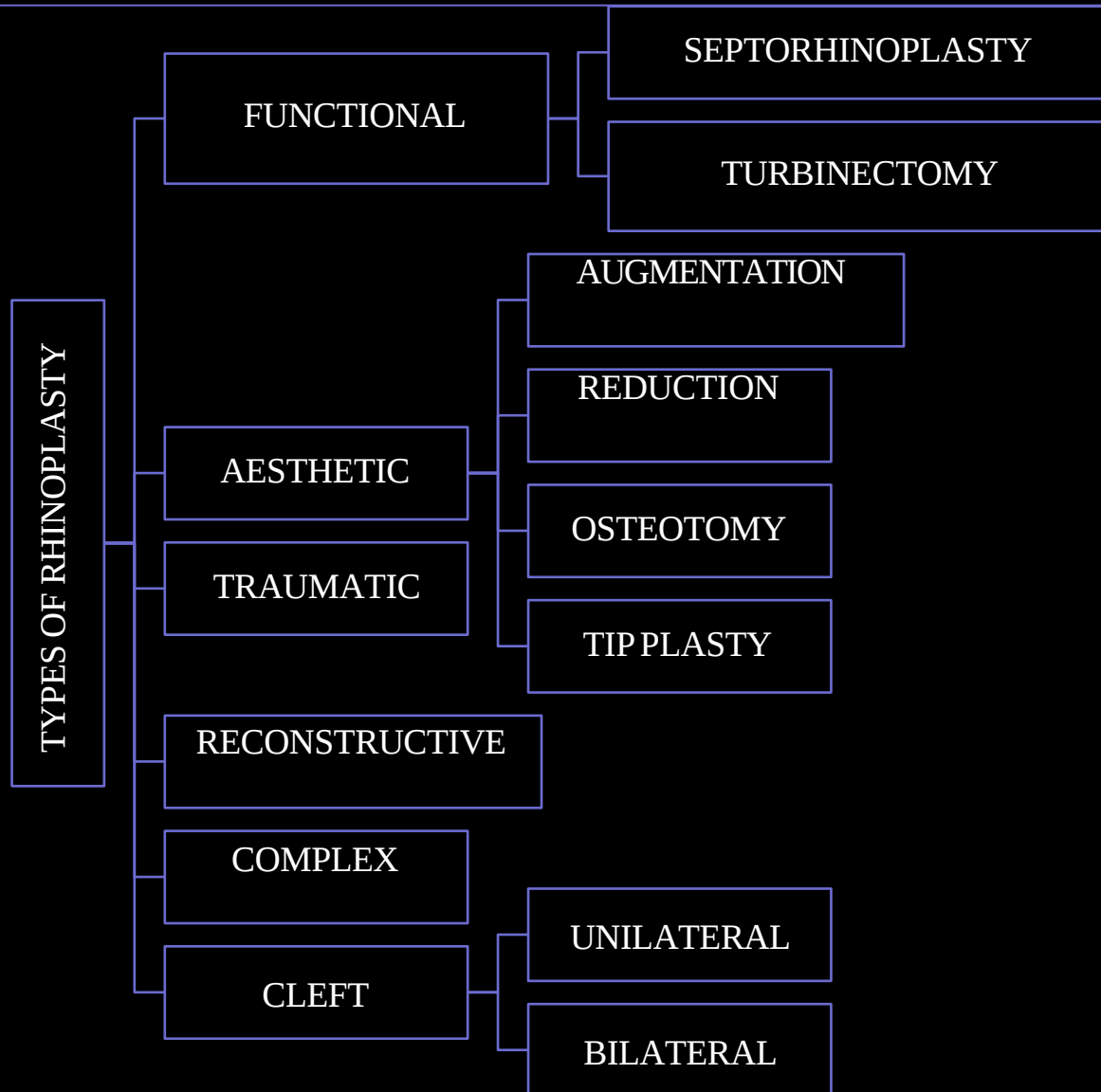
Hemangioma



Traumatic Nasal Deformities



TYPES OF RHINOPLASTY



QUALITY OF SKIN

<u>THICK SKIN</u>	<u>THIN SKIN</u>
Does not show small irregularities	Small irregularities become visible
Failure to contract-excess soft tissue scar	Early healing- Less oedema
Masks refinement and definition	Ensures that bony/cartilaginous grafts or implants are precisely positioned and smoothly contoured



CONGENITAL CRANIOFACIAL NASAL DEFORMITIES



Craniofacial Cleft Nasal Deformities

Tessier # 0-14 Facial Cleft



Craniofacial Cleft Nasal Deformities

Tessier # 0-14 Facial Cleft



Craniofacial Cleft Nasal Deformities

Lyophilised Cartilage Graft



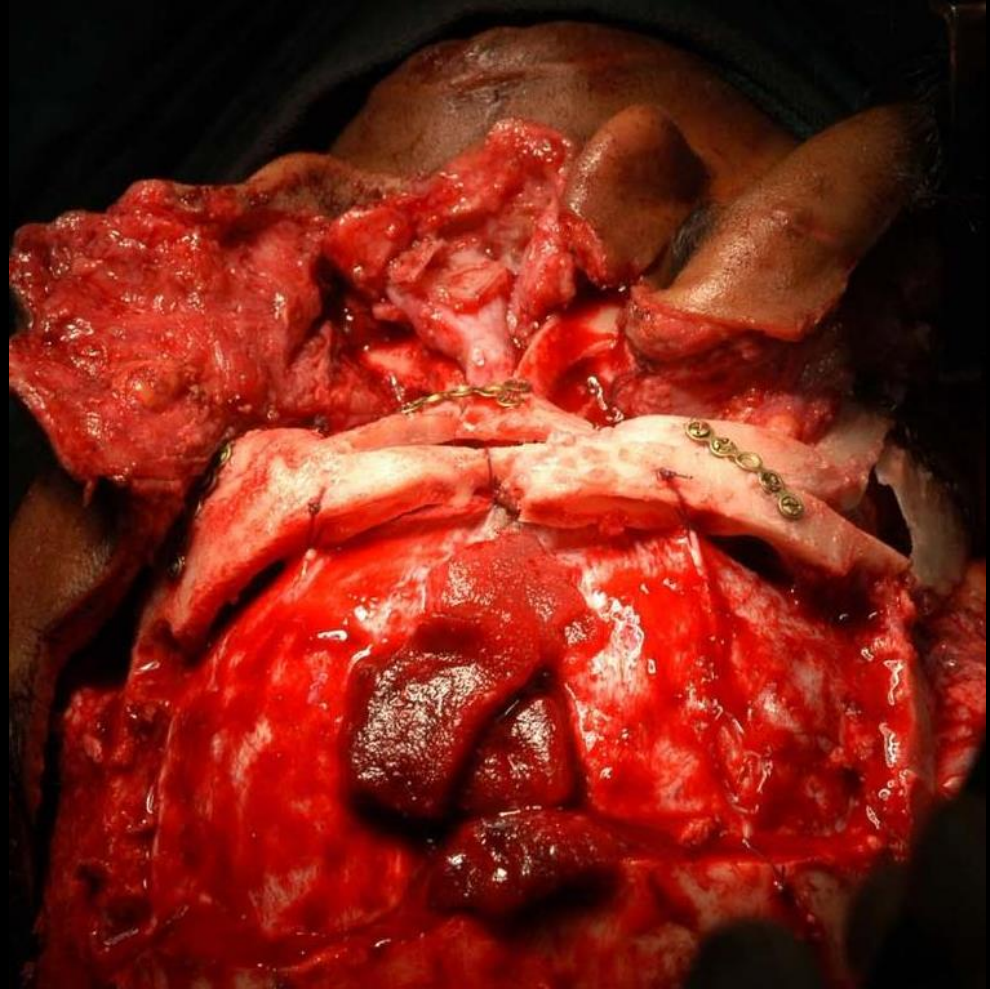
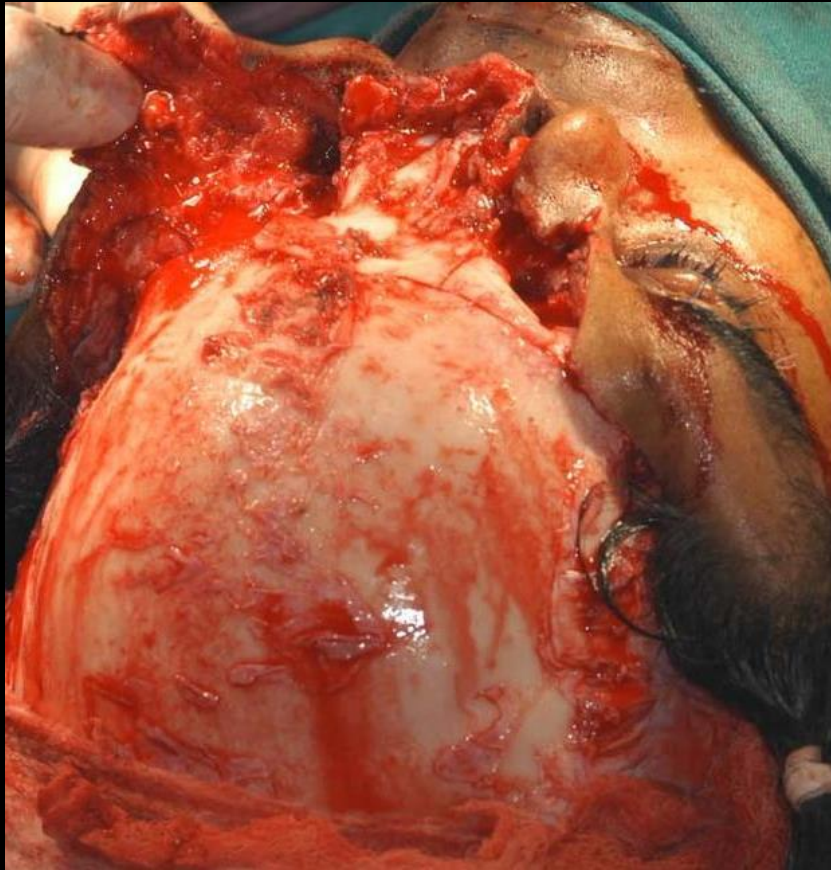
Craniofacial Cleft Nasal Deformities

Tessier #14 Facial Cleft with Hypertelorism



Craniofacial Cleft Nasal Deformities

Tessier #14 Facial Cleft with Hypertelorism



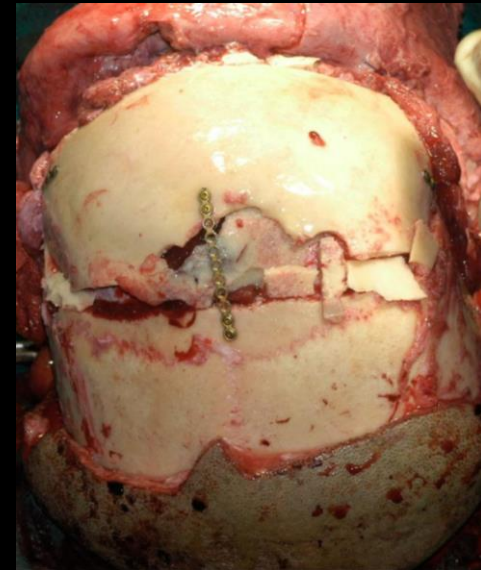
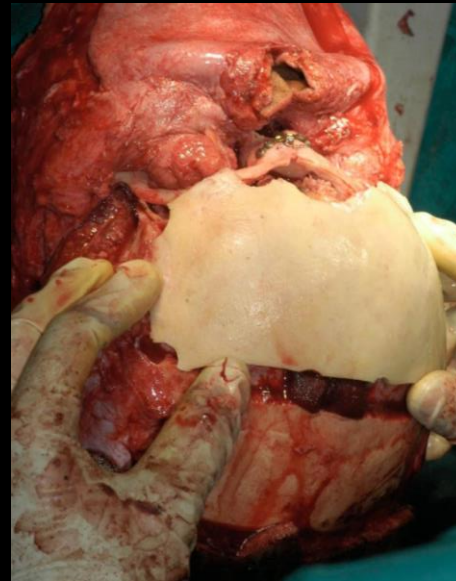
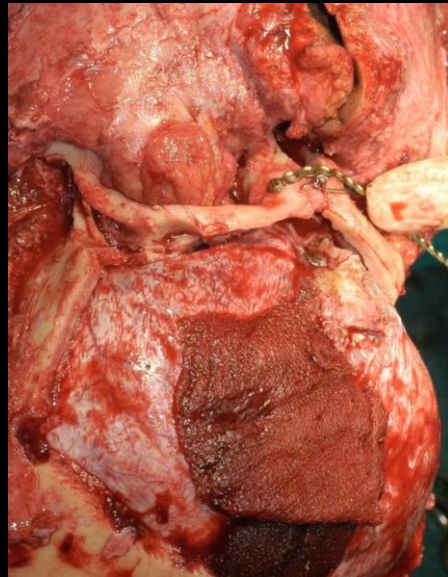
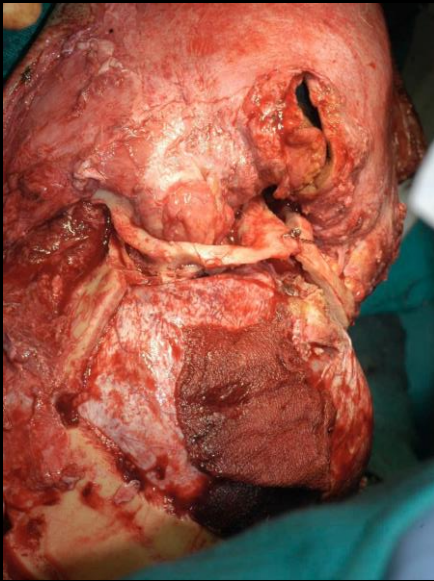
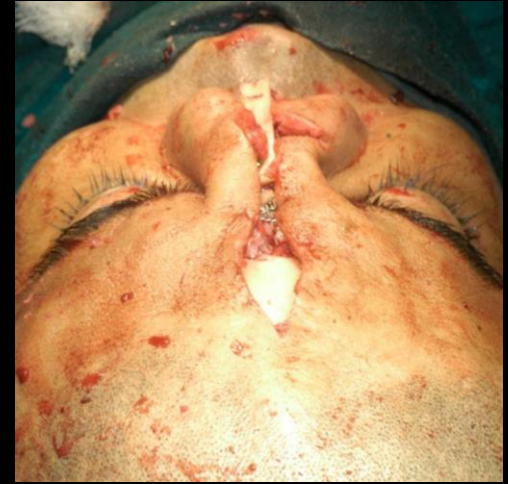
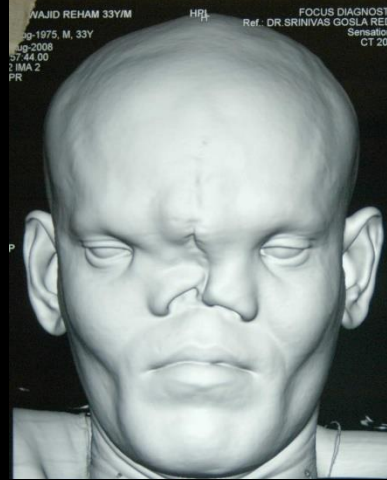
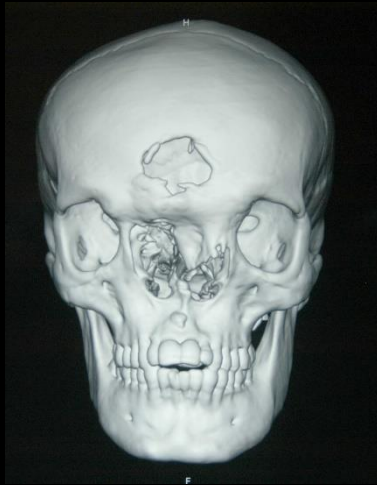
Craniofacial Cleft Nasal Deformities

Tessier #14 Facial Cleft with Hypertelorism

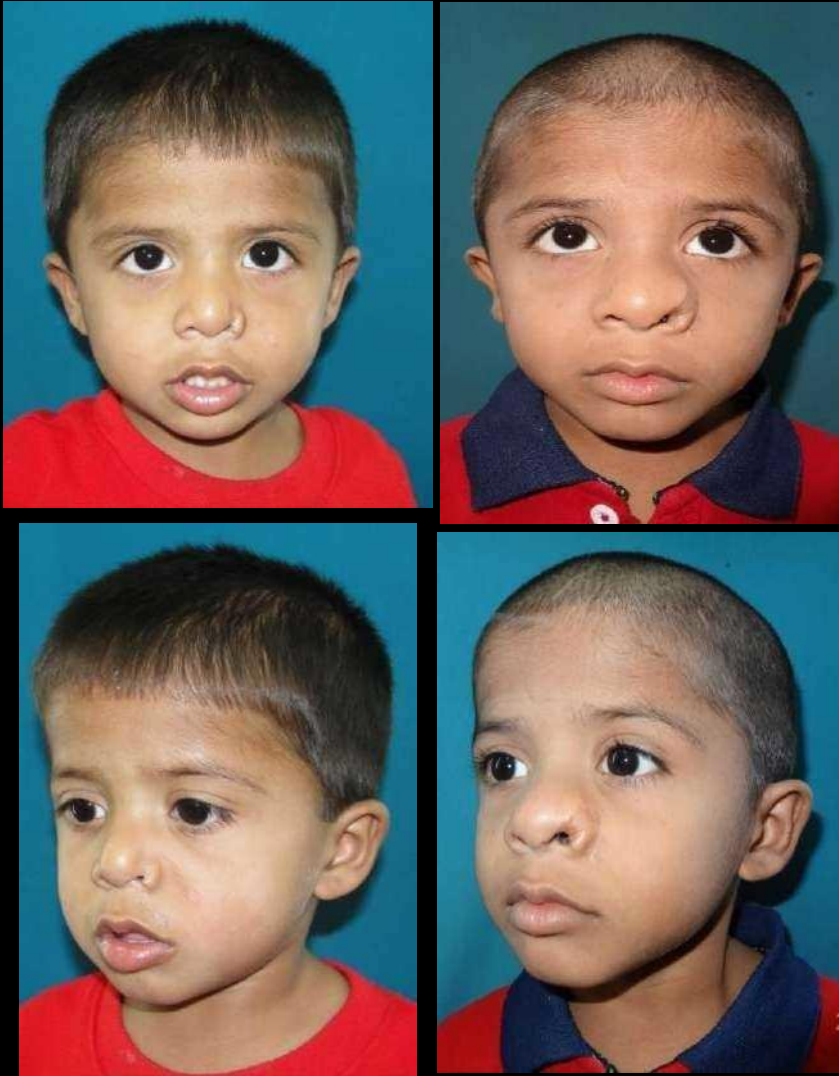


Craniofacial Cleft Nasal Deformities

Tessier #14 Facial Cleft with Hypertelorism



Craniofacial Cleft Nasal Deformities



Tessier #2 Facial Cleft



Craniofacial Cleft Nasal Deformities

Tessier # 2 Facial Cleft



Craniofacial Cleft Nasal Deformities



Tessier #2 Facial Cleft



Craniofacial Cleft Nasal Deformities

Tessier #3 Facial Cleft



Craniofacial Cleft Nasal Deformities



Tessier #3 Facial Cleft



Craniofacial Cleft Nasal Deformities

Tessier #3 Facial Cleft



Craniofacial Cleft Nasal Deformities

Bilateral Tessier #3



Complex Cleft Nasal Deformity

Unilateral cleft nasal deformity (crooked nose)



Craniofacial Nasal Deformities

Hypertelorism



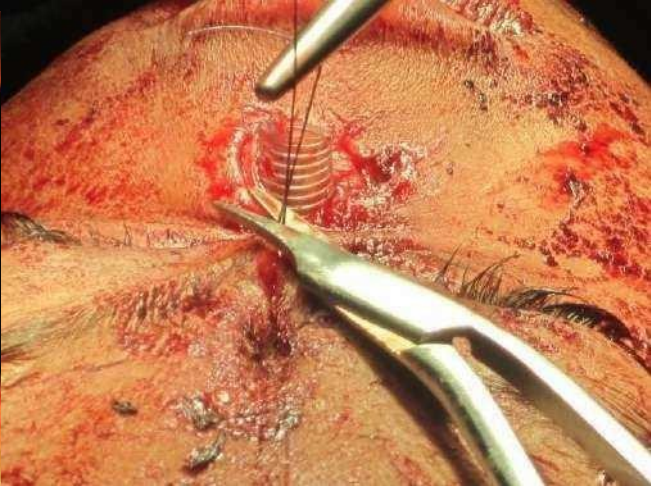
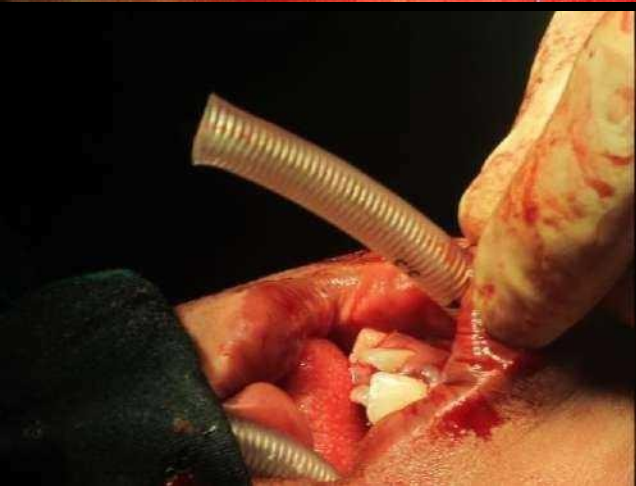
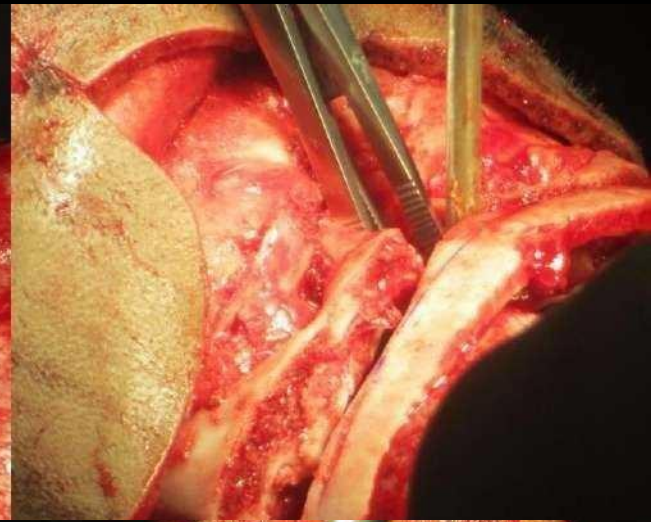
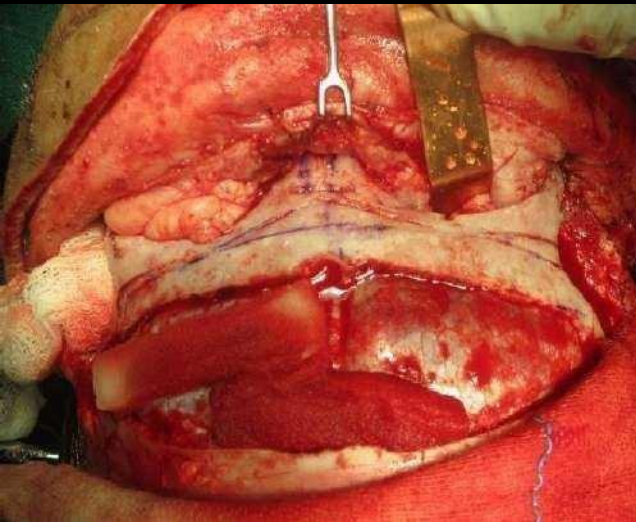
ANATOMIC NASAL DEFECTS



Nasal Aplasia



Nasal Aplasia



Nasal Aplasia



Nasal Aplasia



Nasal Aplasia – Prosthetic rehabilitation



Heminasal Aplasia



Heminasal Aplasia



Heminasal Aplasia

Reconstruction with costo – chondral cartilage and forehead flap



Heminasal Aplasia

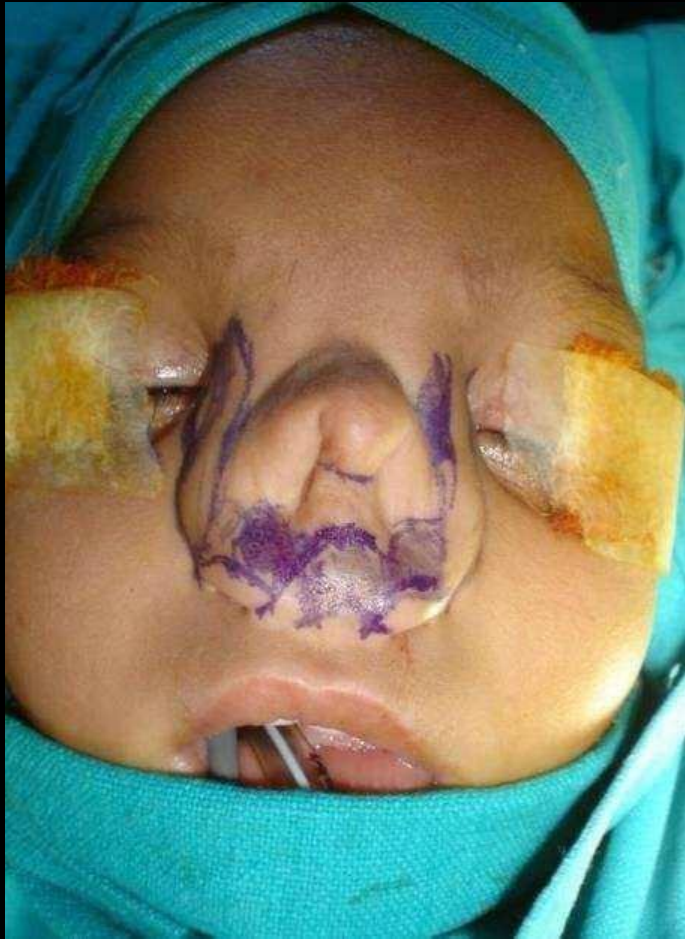
Reconstruction with costo – chondral cartilage and forehead flap



Nasal Duplication



Nasal Duplication



Nasal Duplication



Nasal Duplication



Nasal Duplication



ESTHETIC NASAL DEFORMITIES



AUGMENTATION RHINOPLASTY



AUGMENTATION RHINOPLASTY



REDUCTION RHINOPLASTY



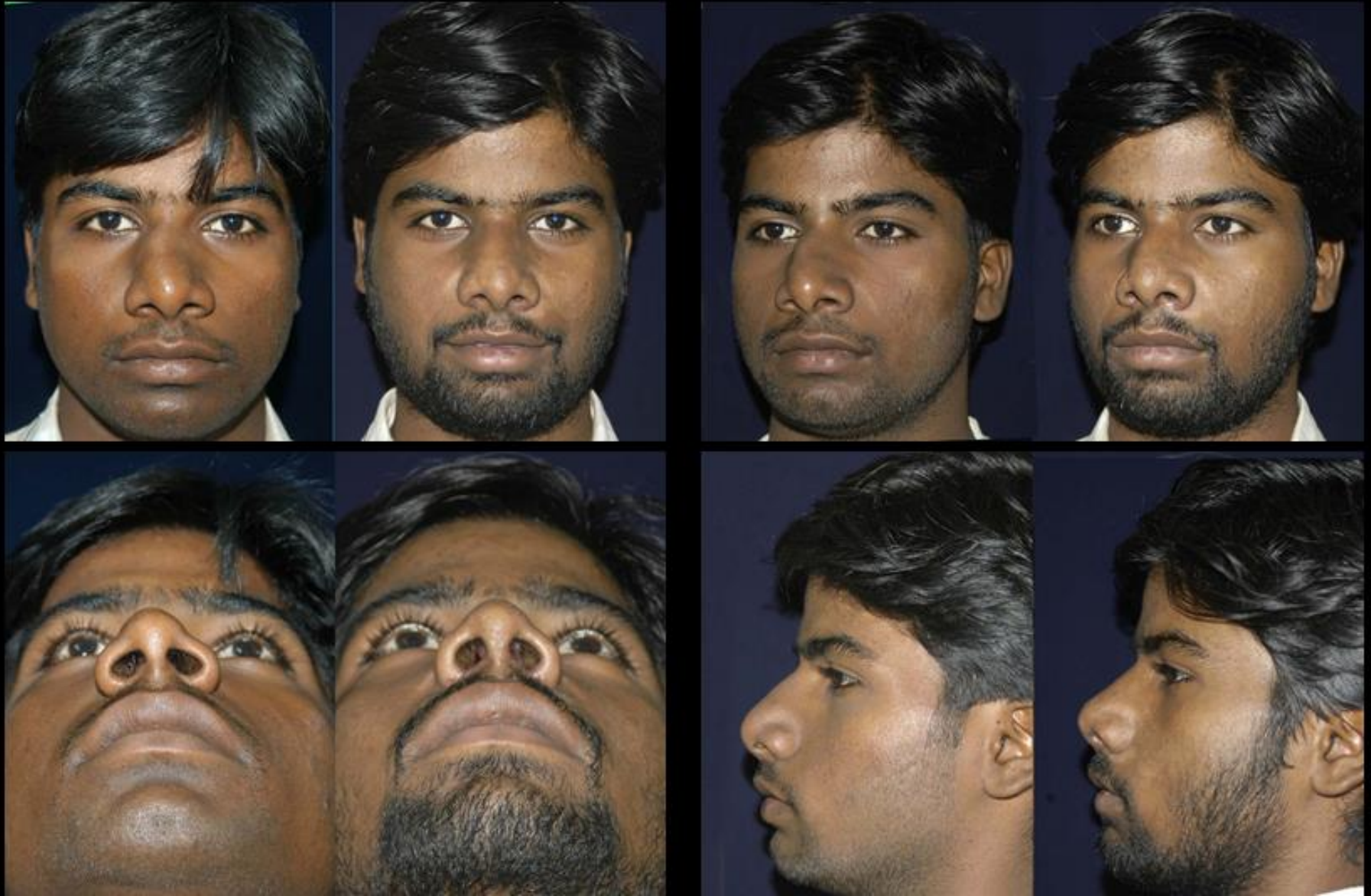
NASAL BONE OSTEOTOMY



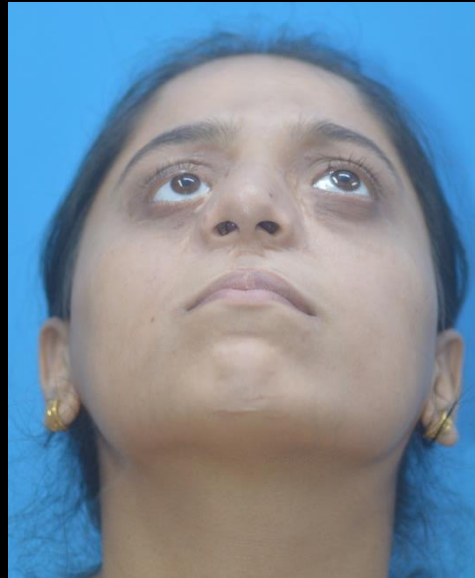
FUNCTIONAL NASAL DEFORMITIES



Deviated Nasal Septum Correction



Posterior Choanal Atresia Correction



PATHOLOGIES OF NOSE



Pathology of the Nose



Vascular Malformation of the nose



Pathology of the Nose

Rhinophyma



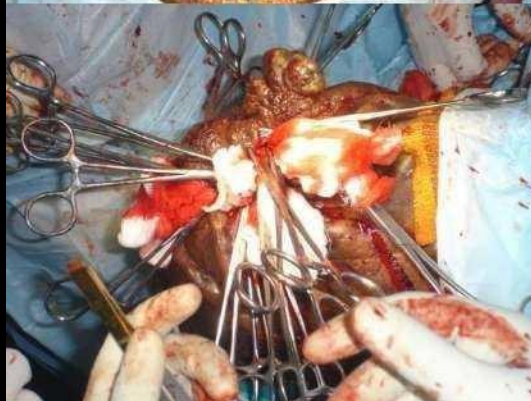
Pathology of the Nose

Dermoid



Pathology of the Nose

Vascular Malformation



Pathology around the Nose

Encephalocele



Pathology around the Nose

Neurofibroma



Pathology around the Nose

Vascular Malformation



Pathology around the Nose

Vascular Malformation



TRAUMATIC NASAL DEFORMITIES



POST TRAUMATIC DEFORMITY CORRECTION



Traumatic nasal deformity correction



Traumatic nasal deformity correction



Traumatic Nasal Deformity correction with Prosthesis



RECONSTRUCTIVE RHINOPLASTY



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Reconstructive Rhinoplasty



Reconstructive Rhinoplasty



Reconstructive Rhinoplasty



COMPLICATIONS



EARLY COMPLICATIONS

- Haemorrhage
- Hematoma
- Infection
- Edema & Ecchymosis
- Skin Abnormality:
 - Minor Skin Reactions
 - Skin Necrosis
 - Poor Scar
- Septal Perforation

LATE COMPLICATIONS

- Loss of vital tip support
 - Overreduction
 - Underreduction
- Cartilagenous Vault abnormality
- Bony Vault abnormality





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Bring the Smile Back

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