Disfiguring Plexiform Neurofibromatosis

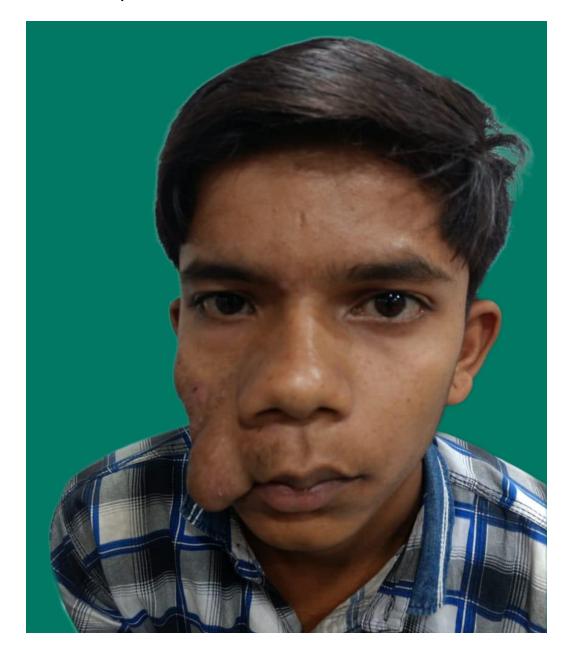
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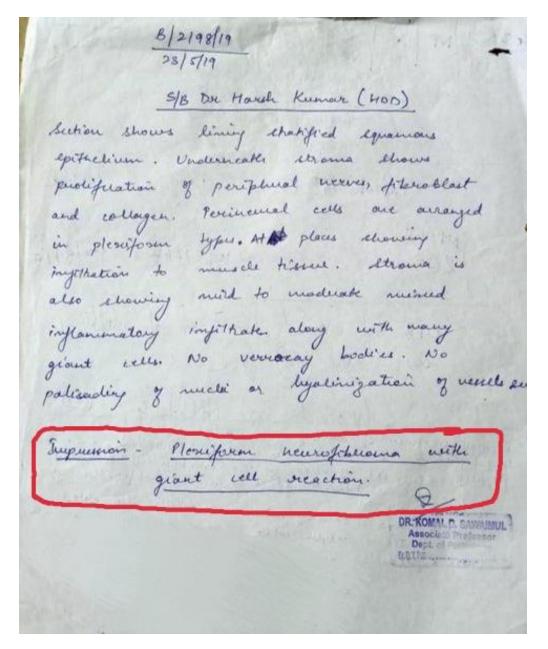
Dr. D. Y. Patil Medical College

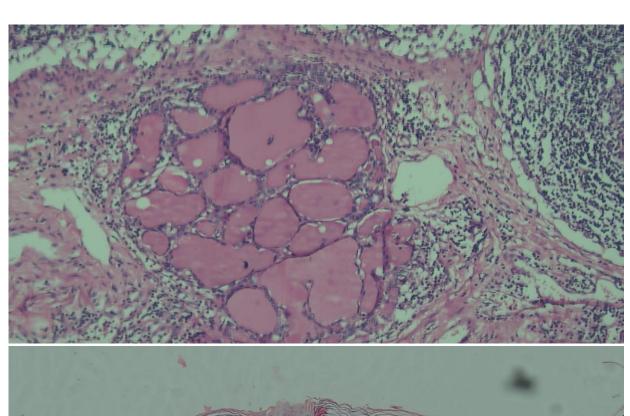
Pre operative

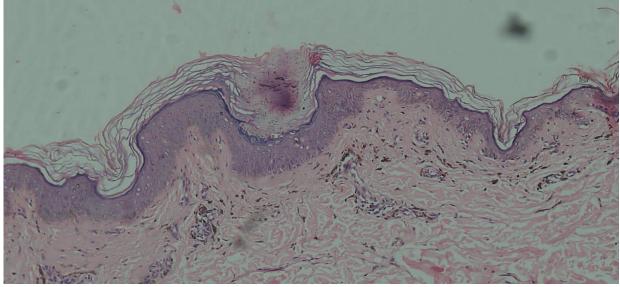




Histopathological Report







Post 1st Debulking surgery



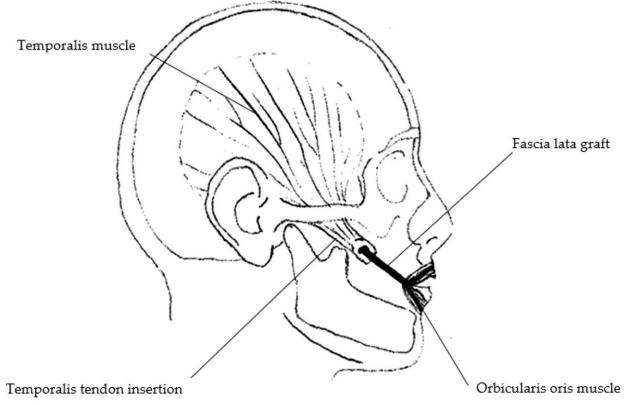
Post 2nd Debulking Surgery





Orthodromic Temporalis Tendon Transfer





Post Lip Repositioning









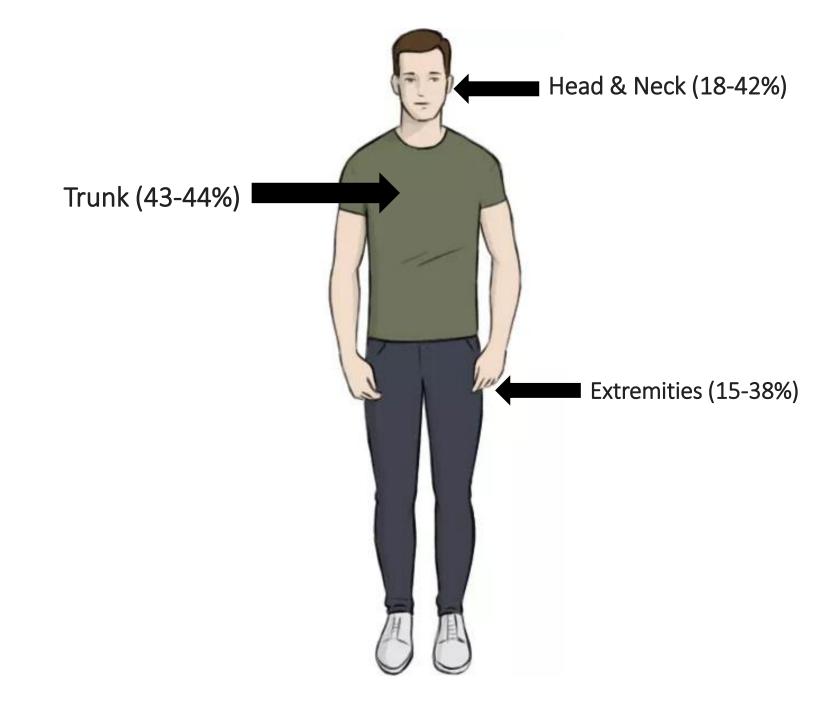
Aim:

Aim of presentation of this case was to highlight the deformities which can be cause by this uncommon condition and how plastic surgery can restore the aesthetic appearance as well as image of confidence.

Plexiform Neurofibromatosis

- Irregular
- Thick
- Non circumscribed tumor
- Peripheral nerve sheath
- Multiple nerve fascicles
- Composed of nerve sheath cells
- Associated with
 - hypertrophy of the overlying soft tissue
 - hyperpigmentation
 - hypertrichosis of the overlying skin

- Incidence
- Characteristics
- Site



Imaging

CT Scan

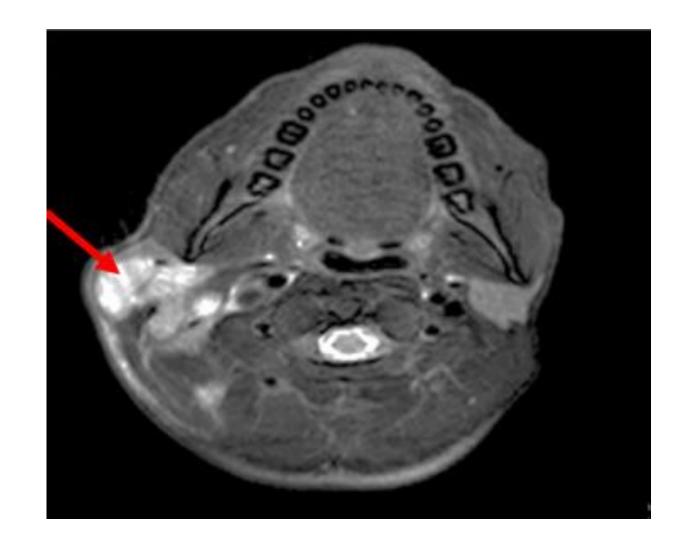
- low attenuation
 - myelin-lipid content
 - fat entrapment
 - high-water content in endoneurial myxoid tissue



<u>MRI</u>

• lobulated with a hyperintense signal on T2W imaging

CT Angiography
Preoperative Embolisation



Diagnostic Criteria

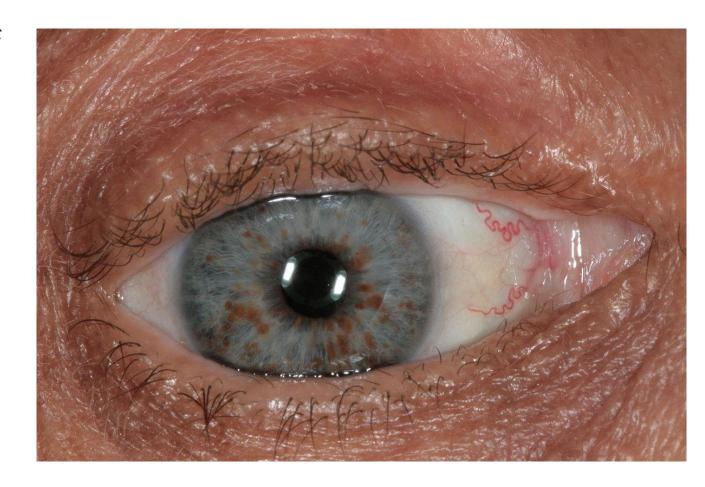
- (a) Family History
- (b) Café-au-lait macules:
 - > 1.5 cm after puberty and
 - >0.5 cm in prepubertal individuals



(c) Freckling in the axillary or inguinal region (Crowe sign)



- (d) At least 2 neurofibromas of any type or at least 1 plexiform neurofibroma
- (e) Optic pathway glioma
- (f) At least 2 Lisch nodules (iris hamartoma)
- (g) A characteristic bone lesion, which can be: pseudoarthrosis, sphenoid wing dysplasia and thinning of long bone cortex



Difficulties in Surgery

- 1. Bleeding
- 2. Nerve Damage
- 3. Neuroma Formation
- 4. Infection
- 5. Altered Sensations
- 6. Scarring
- 7. Chronic Pain
- 8. Recurrence

Thank you