Sturge Weber Syndrome/ Klippel Trenaunay Syndrome

An overlap

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Case History

- ►New Born
- Normal delivery 3.1 kg
- ► Bilateral Port Wine Stain on face and several abnormalities
- Seizure

Examination & Investigations Findings

- ▶ Glucoma
- ► ASD/VSD
- Persistence of left SVC
- Focal seizures
- Cerebral atrophy
- Cerebral vascular malformation
- Laryngomalacia
- Hypocromic Anemia
- Limbs hypertrophy
- Facial port-wine stain
- Cutaneous lesions overall body (combined vascular malformation of capillaries, veins and lymphatics

Haziness of cornea

Larger Cornea

Abnormality of pupil

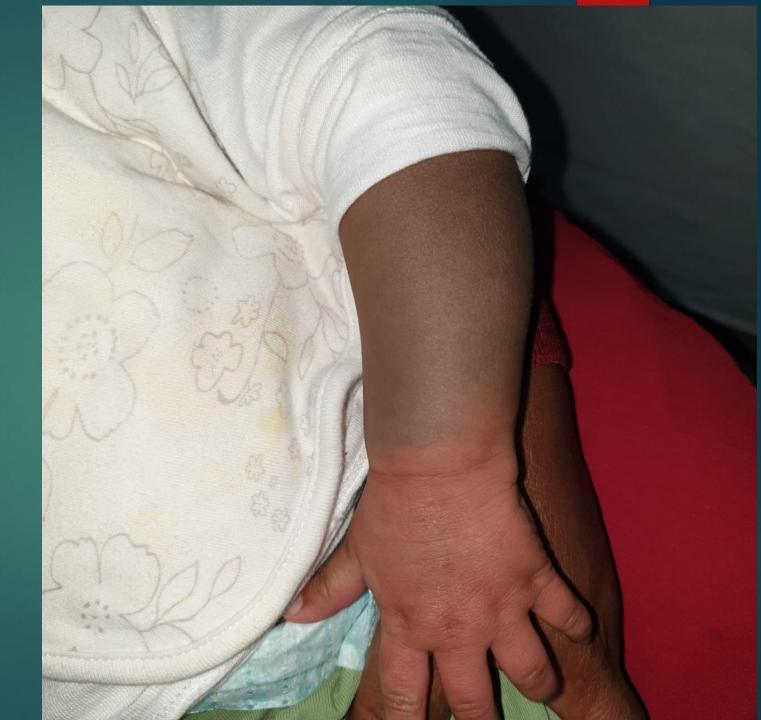
Glaucoma

Port wine stain & Hypertrophy of upper limb



Combined vascular malformation of capillaries veins and lymphatics

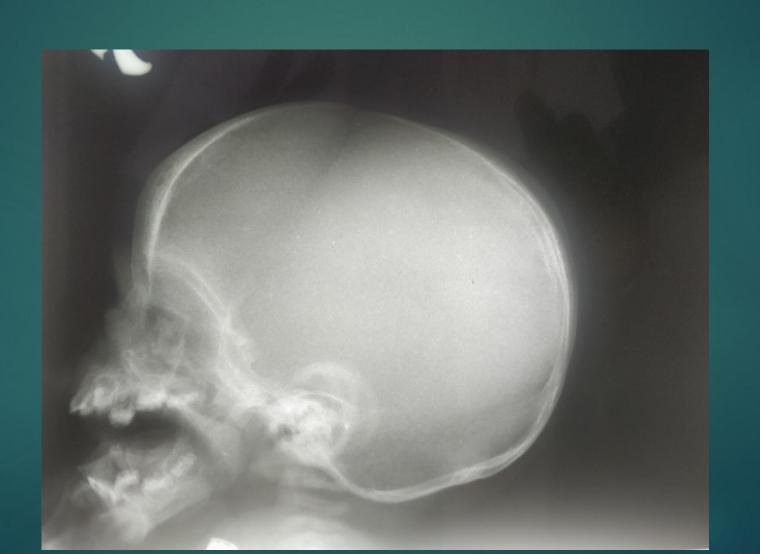
Limb hypertrophy



Tram Track Sign

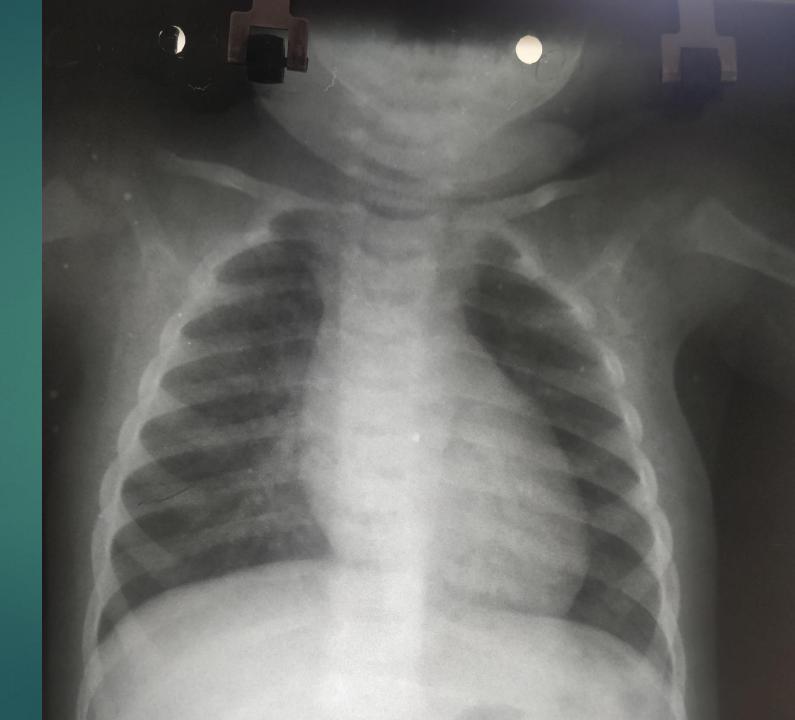


SKULL X-RAY



CHEST X-RAY

Cardiomegaly



Statistics

- Frequency in 1 to 20000 to 1 in 50000 birth
- ► Mutation in the GNAQ gene
- ► SWS Type 1-Facial and Leptomeningeal Angiomas
- ► SWS Type 2 Facial alone. No CNS
- ► SWS Type 3 Isolated Leptomeningeal angiomas

Presentation

- Also known as Encephalotrigeminal Angiomatosis
- Developmental Delay
- ▶ Cognitive impairment
- ▶ Seizures
- ▶ Paralysis
- ▶ 50% develop Glaucoma in Infancy

Sturge Weber Syndrome

Cardinal Features

Localized Cortical atrophy and calcifications.

"Tram Tracking"-Curvilinear double parallel lines on Plain Xray skull

Ipsilateral Port-Wine Facial Nevus, 1st division on Trigeminal.

Other Findings

- ▶ Ipsilateral exophthalmos/or Glaucoma
- ► Occulomeningeal Capillary Hemangioma
- ► Retinal Angiomas
- ► Convulsive Seizures

Treatment

- Anticonvulsants
- <u>Lobectomy or Hemispherectomy</u> for Refractory seizures
- Ophthalmology
- Physical Therapy
- Educational
- Genetic Profiling

<u>Hemispherectomy</u>

Anatomical Functional

Klippel Trenaunay Syndrome

- Combined vascular malformation of capillaries veins and lymphatics
- Enlargement of bone, soft tissue of the limbs and asymmetric limb hypertrophy
- Overlapping of Sturge Weber Syndrome plus Trenaunay Syndrome

A very rare syndrome