# 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, $1^{\text {st }}$ division on Trigeminal.

## Other Findings

-Ipsilateral exophthalmos/or Glaucoma

- Occulomeningeal Capillary Hemangioma
- Retinal Angiomas
-Convulsive Seizures


## Treatment

- Anticonvulsants
- Lobectomy or Hemispherectomy for Refractory seizures
- Ophthalmology
- Physical Therapy
- Educational
- Genetic Profiling


## Hemispherectomy

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

