

SNS COLLEGE OF ALLIED HEALTH SCIENCES

SNS Kalvi Nagar, Coimbatore - 35 Affiliated to Dr MGR Medical University, Chennai



DEPARTMENT: PHYSICIAN ASSISTANT

COURSE NAME: ORTHOPAEDIC

UNIT: CONGENITAL MALFORMATIONS

TOPICS: INFANTILE TORTICOLLIS

REFERED FROM:

ADAMS'S OUTLINE OF ORTHOPAEDICS.



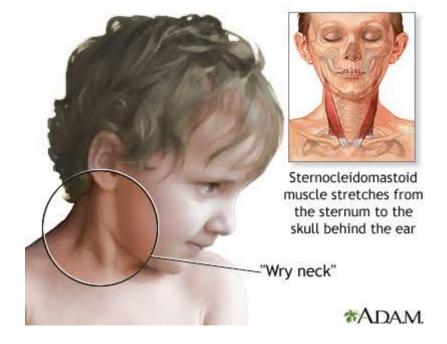


- •Infantile Tortcollis is also called Congenital Tortcollis or Muscular Tortcollis or wry neck.
- •In infantile Tortcollis the head is tilted and rotated by contracture of the sternomastoid muscle of one side.
- •Strictly this is not a true congenital deformity because it arises after birth.
- •With improvement in obstetrical practice it is now seen much less often than it was in the past.









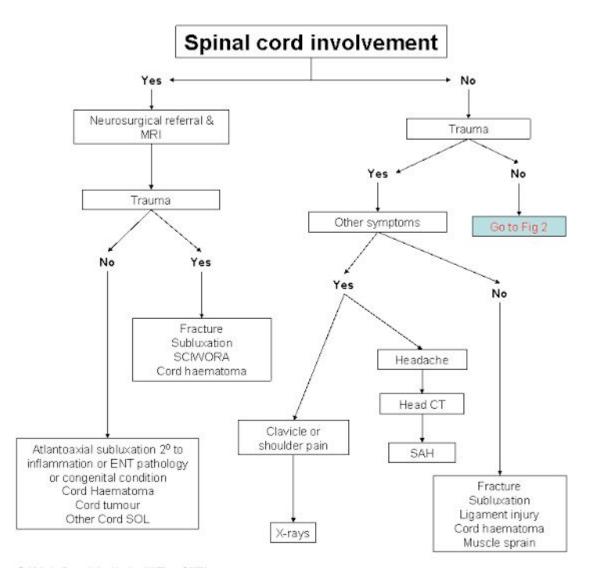


Causes:



- Exact cause is unknown.
- •Interference with the blood supply of the sternomastoid muscle, caused by injury during birth .
- Neuro developmental delay.
- Comorbidities













Risk factor

- •Ischemia
- Trauma during childbirth
- •Intrauterine malposition
- Crowding in uterus or birth canal





- •In the established condition, part of the affected muscle is replaced by contracted fibrous tissue.
- •In some cases contracture is known to have been preceded ,in early infancy,by a tumour like thickening of muscle (sternomastoid tumour), the histology of being that' of muscle infarction and replacement by fibrous tissue.





Clinical manifestations:

- •The child between 6 months and 3 years is noticed to hold the head on side
- •The ear on affected side is approximated to the corresponding shoulder.
- •Retarded development of the face.
- Assymetry of the face.
- Troubling in moving head





- •Turning on baby chin towards the opposite side of the head
- •Firm, small, lump in the middle of the neck muscle
- •Baby head is flat on one side



Diagnosis:



- •History collection birth trauma, condition of sternomastoid muscle
- Physical Examination facial represention
- •Xray-spine
- •CT scan
- MRI(rule out vertebral anomalies)



Management:



Physical therapy:

To correct the deformity by release of the contracted soft tissue and to maintain correction by suitable exercise regime, avoiding recurrence.

Physiotherapy:

Evaluation(ROMand degree of deformity), massage(relax muscle preceding), thermo therapy modality, passive movements (attain relaxation, maintain correction).



Surgical management:

- •Subcutaneous tenotomy, open tenotomy, bipolar tenotomy(treat pain' in tendon, remove a piece of tendon through small incision -tenotomy)
- •Radical resection of a sternomastoid





Thank you