

# IPE Project: Case 7 - Otitis Media

Krishna Patel, Kayla Copas

# Scope of Practice

## PA

- Take medical history
- Perform physical exam
- Order and interpret laboratory studies
- Diagnose illness
- Develop and manage treatment plans
- Prescribe medications
- Assist in surgery

## PT<sup>1</sup>

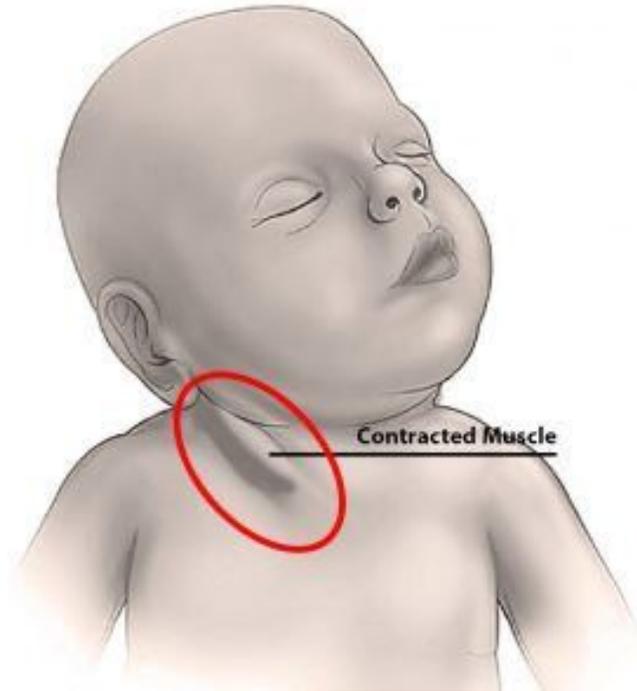
- Patient/ Client Management
- Optimize physical function, movement, performance, health, and quality of life across the lifespan.



# Storyline

- 5 month old male dx with CMT.
- Goes to PA for recurrent bilateral ear infections despite abx treatment.
- Also presents with a head "tilt" onset 2 months that changes sides.
- Symptoms began after starting daycare 2 months ago.
- No decreased passive or active cervical ROM
- Cervical sidebending is a 2/5 on the Muscle Function Scale

# Original Diagnosis



Congenital Muscular Torticollis

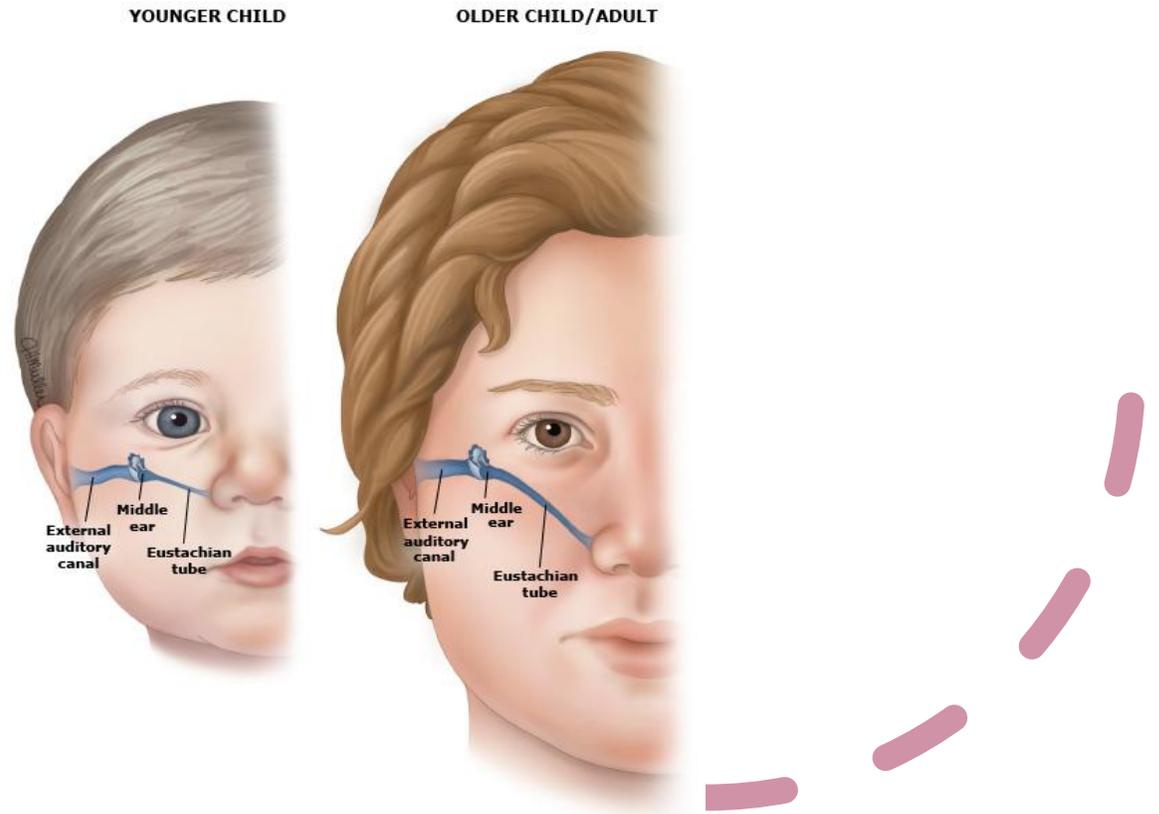


# New Diagnosis

## Otitis media w/ effusion

- Ear infections in kids can be common due to undeveloped sinuses

## Cervical muscle weakness





# Treatment Plan



# Physician Assistant

## History Taking:

- What antibiotics has John tried?
- Has he been able to take the medication properly and complete the whole regimen?
- Have you noticed John pulling or touching either ear more frequently?
- Have you noticed if anything makes the pain worse or better?

## Physical Exam:

- Erythema
- Effusion
- Bulging
- Discharge
- Fever
- Fussiness



# Physician Assistant

## Medications

- Amoxicillin (mainstay)
- Augmentin if resistant
- Penicillin G Benzathine IM

## Holistic Treatment

- Warm compresses
- Keep head elevated
- Hydration

## Testing

- Tympanometry

## Referral

- Physical therapy for the head tilt
- Pediatric ENT for testing



# Physical Therapy

Referral for cervical muscle weakness

Reassess Muscle Function Test

PDMS-2

- Assess fine and gross motor skills

Reflex Testing

- Neck Righting/Body Righting
- Labyrinth and Optical Righting
- Moro Reflex
- ATNR
- Babinski

Other Testing

- Assess for nystagmus in different positions
- Eye tracking
- Eyes crossing midline
- Hearing

# Physical Therapy

## Interventions

### Developmental Milestones

- Head control in supported sitting
- Head lag with pull to sit
- Head control in supported standing

### Cervical muscle strengthening

- Play in “tummy time”
- Work on crossing midline



# Pediatric ENT

## Testing

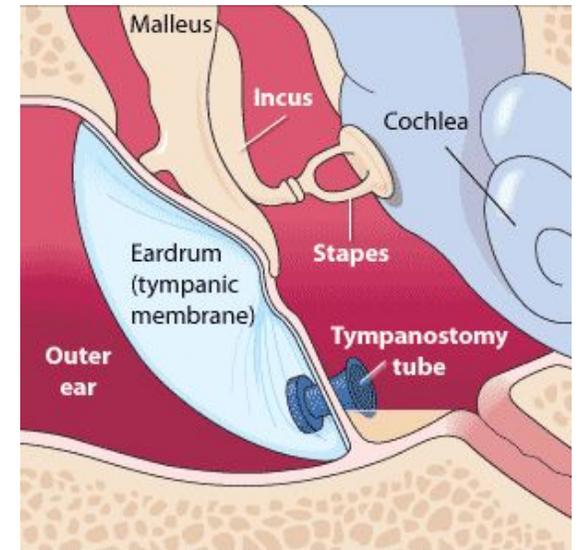
- Hearing test
- Long periods of decreased hearing in young children can lead to delays in speech development

## Treatment

- Myringotomy & tympanostomy
  - If ear infections don't clear up easily
  - Ear infections cause hearing loss or speech delay

## Referral

- Speech pathologist



# References

1. Apta.org. 2021. [online] Available at: <<https://www.apta.org/contentassets/a400d547ca63438db1349c4a69bf7ead/position-pt-scope-practice.pdf>> [Accessed 26 October 2021].
2. Pa scope of practice - home - AAPA. [https://www.aapa.org/wp-content/uploads/2017/01/Issue-brief\\_Scope-of-Practice\\_0117-1.pdf](https://www.aapa.org/wp-content/uploads/2017/01/Issue-brief_Scope-of-Practice_0117-1.pdf). Accessed November 1, 2021.
3. Inverso D, ed. Hearing tests (for parents) - nemours kidshealth. KidsHealth. <https://kidshealth.org/en/parents/hear.html>. Accessed November 2, 2021.
4. Barth PC, ed. Ear Tube Surgery (for parents) - nemours kidshealth. KidsHealth. <https://kidshealth.org/en/parents/ear-infections.html>. Published June 2019. Accessed November 2, 2021.
5. Costa J, Goodman M. (2020). Primitive Reflexes and Balance Reactions. [PowerPoint Presentation] (Accessed: October 13, 2021).
6. Costa J, Goodman M. (2020). Motor Development: 4-6 months. [PowerPoint Presentation]. (Accessed: October 13, 2021).
7. Huston K. Kids are more likely to get an ear infection - how to spot it and what to do. Norton Children's. <https://nortonchildrens.com/news/middle-ear-infection-symptoms-in-kids/>. Published July 31, 2020. Accessed November 3, 2021.
8. Biondolillo F. Ear, Nose, Sinuses, & Eye Intro. lecture presented at the: Pathology & Clinical Medicine; October 18, 2021.
9. Tympanostomy tube insertion. MedBroadcast.com. <https://www.medbroadcast.com/procedure/getprocedure/tympanostomy-tube-insertion>. Accessed November 3, 2021.