

### WHAT IS IT?

- Entrapment disorder of the nerves or the vascular that occurs inside the "thoracic outlet" → space between the collarbone and the first rib
- Three types: Neurogenic, vascular, nonspecific



### SIGNS AND SYMPTOMS

### ANATOMY

- Many bones, muscles, nerves, and blood vessels that course through the thoracic outlet
- Structures most commonly affected include:
- Clavicle
- 1st rib
- Scalene muscles (anterior and middle) → more neurological s/s

- Pectoralis minor→ vascular s/s
   Subclavian artery and vein
   Upper and lower brachial plexus

# SPECIAL TESTS



## DIFFERENTIAL DIAGNOSIS

- Disc herniation in the cervical spine
- Peripheral nerve entrapment CRPS

- Inflammatory condition





## **CAUSES**

## TREATMENT EXAMPLES

- Therapeutic Exercise

  Relaxing the shoulder girdle and upper trapezius musculature

  Stretching the scalenes and pectoralis muscles

  Strengthening the cervical extensors, scapular adductors, and

  - shoulder retractors Manual Therapy Nerve Glides

- Posture Re-education (important to know for test! Best answer.)
- Ergonomic assessment NSAIDs
- Surgery (Rare) Modalities





