

## THORAX

- External and Internal intercostal deficiencies
  - o EXT: ANT –becoming ANT intercostal membrane (fibres ANT INF)
  - o INT: POST – becoming POST intercostal membrane (fibres POST INF)
- Thoracic cage joints

costovertebral	between body of vertebra/disc & head of rib
costotransverse	between transverse process & tubercle of rib
costochondral	between rib & costal cartilage
interchondral	between adjacent cartilages at costal margin
sternocostal (2 <sup>nd</sup> -7 <sup>th</sup> ) (1st)	between first 7 costal cartilages & sternum
sternal	manubriosternal & xiphisternal
SYNOVIAL:	
Secondary cartilaginous	
Primary cartilaginous	

- Posterior thoracic wall:
  - o sympathetic trunk: vertically along INT thoracic wall along heads of ribs
  - o sympathetic chain ganglia,
  - o rami communicantes,
  - o spinal nerves
  - o post intercostal veins
  - o post intercostal arteries
- ANT abd wall:
  - o Transverse thoracis muscle: attach ribs to sternum ANT
  - o Costal NVB:
    - in costal groove of corresponding rib, gives LAT cutaneous branch @ mid axillary line (2-11).
    - 7-11 enter abd via costal slips @ attachment of diaphragm, sensory supply to periphery of diaphragm.
  - o Internal thoracic arteries from
    - Descending aorta: POST intercostal branches
    - Internal thoracic A: ANT intercostal branches
  - o Internal thoracic vessels accompanied by PARASTERNAL LYMPH NODES
  - o The nipple is a zone of overlap of:
    - nerve supply (between lateral and anterior branches of the adjacent intercostal nerves)
    - arterial supply (between lateral thoracic branches of the axillary artery and perforating branches of the internal thoracic artery)
    - venous drainage (between tributaries of the corresponding veins)
    - lymph drainage (between lymphatics accompanying those veins to the pectoral nodes in the axilla and the parasternal nodes in the thorax).