

Anterior Abdominal Wall
Structure, muscles and surface anatomy

Lab check list

❖ Bones of the abdominal region

- Hip bone/ Five Lumbar vertebra/ Lower eight Ribs/ Xiphoid process of sternum
- Ilium:
 - ✓ Anterior superior iliac spine (ASIS)/ Iliac crest and tubercle
- Pubis
 - ✓ Body/ Superior ramus/ Inferior ramus/ Pectineal line
 - ✓ Pubic tubercle/ Pubic crest/ Symphysis pubis
- Ischium

❖ Anterior abdominal wall

- Layers:
 - ✓ Superficial fascia (Fatty & membranous layers)/ muscles/ fascia transversalis/extra peritoneal fat/ parietal peritoneum
- Muscles of AAW
 - ✓ External and Internal oblique/ Transversus abdominis/ Rectus abdominis/ Pyramidalis
- Related structures
 - ✓ Linea alba/ Inguinal ligament/ lacunar ligament/ Conjoint tendon
 - ✓ Superficial inguinal ring/ Femoral ring
 - ✓ Rectus sheath (anterior and posterior layers)/ Arcuate line/ Tendinous intersections/
- Surface markings:
 - ✓ Xiphoid process/ Costal margin/ iliac crest/ ASIS/ pubic tubercle/ symphysis pubis
 - ✓ Umbilicus/ Linea semilunaris
 - ✓ Midclavicular line/Abdominal planes: transpyloric, subcostal, intercrystal, intertubercular

Questions related to lab checklist

- ⊕ At which vertebral level lie the followings:
 - Highest point of Iliac crest/ Iliac tubercle/ ASIS/ arcuate line
 - Transpyloric, subcostal, intercrystal, intertubercular planes
- ⊕ Inguinal ligament extends from _____ laterally to _____ medially
- ⊕ What is attached to lower aspect of inguinal ligament?
- ⊕ Name the structures passing through the superficial inguinal ring
- ⊕ The conjoint tendon is formed by the joining together of lowest fibers of which muscles?
- ⊕ To which structure does the conjoint tendon attach medially?
- ⊕ To which layer of the rectus sheath the tendinous intersections are firmly attached?
- ⊕ Linea alba is attached to _____above and _____below
- ⊕ The semilunar line meet the costal margin at _____