

## Unit 25: Topographic anatomy: **Upper limb regions 2: pectoral & scapular regions, axilla**

### Guide for the practical class using Anatomedia online

#### Topography of pectoral, scapular and axillary regions

1. Go to An@tomedica, **upper limb** module-regions-frames: **01 and 05** (Surface margins of upper limb, Regions of upper limb)
  - Activate 'can you identify' to demarcate the upper limb (from the neck, thorax and back) and distinguish anterior and posterior regions
2. Go to An@tomedica, **upper limb** module-regions-frame: **04** (Aperture to upper limb) - Activate 'can you identify' to identify boundaries of the axilla apex and paths of major nerves and vessels into the axilla
3. Go to An@tomedica, **upper limb** module-regions-frame: **08** (Pectoral regions & breast)
  - Turn on the 'lm' button to displays position of the pectoral region in the body
  - Click on underlined text to review anatomical characteristics of the breast (compartments, spaces, neurovascular supply, clinical importance...) and pectoral region
  - Activate 'can you identify' to see components of the breast anatomy, muscles of pectoral region, borders of deltopectoral region and visible content of the axilla
4. Go to An@tomedica, **upper limb** module-regions-frame: **21 and 22** (Scapular region, Deltoid region)
  - Click on underlined text to review boundaries and structures transmitted via scapular notch and triangular/quadrangular spaces, content of deltoid region and structures around the surgical neck of humerus
  - Activate 'can you identify' to see boundaries and components of scapular and deltoid regions
5. Go to An@tomedica, **upper limb** module-regions-frame: **09 and 10** (Axilla wall & base, Axilla apex)
  - Click on underlined text to review walls of axilla and structures traversing the apex of axilla -Activate 'can you identify' to see components of axillary walls and structures traversing axillary apex
6. Go to An@tomedica, **upper limb** module-regions-frame: **11 and 12** (Vessels & nerves of axilla, Posterior apertures of axilla)

- Click on underlined text to review arteries, veins, lymph vessels and nodes and nerves of axilla and apertures in the posterior wall
- Activate 'can you identify' to see branches of axillary artery, tributaries to the axillary vein and cords/branches of brachial plexus. On frame 12 activate 'can you identify' to see apertures of the axilla and their contents

### **Upper limb muscles from thorax & spine and scapular muscles**

7. Go to An@tomedica, **upper limb** module-systems-frames: **19, 20 and 21** (UL muscles from thorax, spine and scapular muscles)
  - Click on underlined text to identify names, positions, attachments, function and supply of individual muscles presented on these frames
  - Activate 'can you identify' to see positions and attachments of these muscles

### **Nerves and blood vessels of the axilla**

8. Go to An@tomedica, **upper limb** module-systems-frame: **42** (Brachial plexus)
  - Click on underlined text to review branches of the brachial plexus (supraclavicular branches, those arising directly from the cords and terminal branches), variations in its anatomy and its clinical importance
  - Activate 'can you identify' to visualize divisions, cords and branches of brachial plexus

9. Go to A@tomedica, **upper limb** module-systems-frame: **48** (Axillary & brachial arteries)

- Click on underlined text to review branches of the axillary artery, their variations and anastomoses
- Activate 'can you identify' to visualize the above arterial branches

10. Go to An@tomedica, **upper limb** module-systems-frame: **50** (Veins of upper limb)

- Click on underlined text to review origins of major superficial and deep veins of the upper limb and the 'final common venous path'
- Activate 'can you identify' to visualize the above veins and their tributaries

11. Go to An@tomedica, **upper limb** module-systems-frame: **51** (Lymph vessels & nodes of upper limb)

- Click on underlined text to review anatomical and clinical classification of peripheral lymph nodes of the upper limb and axillary nodes together with their drainage territories
- Activate 'can you identify' to visualize the above lymph nodes and lymph vessels

### **Dissection**

12. Go to An@tomedica, **upper limb** module-dissection-frames: **01 to 04** (Pectoral regions and axilla, superficial layers: LAYER-BY-LAYER DISSECTION)

-Turn on the colored buttons to highlight different dissected structures, from surface to deep

-Activate 'can you identify' to see dissected structures

13. Go to An@tomedica, **upper limb** module-dissection-frames: **05 to 07** (Pectoral regions and axilla, deep layers: LAYER-BY-LAYER DISSECTION)

-Turn on the colored buttons to highlight different dissected structures, from surface to deep

-Activate 'can you identify' to see dissected structures

14. Go to An@tomedica, **upper limb** module-dissection-frames: **08 to 10** (Pectoral regions and axilla, axillary vessels and brachial plexus: LAYER-BY-LAYER DISSECTION)

-Turn on the colored buttons to highlight different dissected structures

-Activate 'can you identify' to see dissected structures