



**Lecture title:** Bones of fore limbs

**Lecturer Affiliation :** Thekra Fadel Saleh , BVMS, MSc.

**Scientific degree** ( Lecturer Assistant.), Department of Anatomy, College of Veterinary Medicine, University of Mosul, Mosul, Iraq

**Summary:** Digit In horse

The digit in horse

There is one digit (third digit) consist of three phalanges

First or proximal phalanx articulate with distal extremity of metacarpal & second phalanx .It is long bone has body & two extremity , the body has dorsal & palmar surfaces as well as medial & lateral borders. The distal extremity or head articulate with middle phalanx.

Second or middle phalanx : short bone situated between the proximal and distal phalanges ,its width is greater than its height ,it has four surfaces : the base or proximal surface to articulate with proximal phalanx ,head or distal surface to articulate with distal phalanx ,dorsal & palmar surface ,there is a flexor tuberosity on its proximopalmar aspect .

Third or distal phalanx : enclosed by the hoof , it has three surfaces ,three borders ,and two angles .

1-Articular surface:to articulate with the middle phalanx and distal sesamoid bone.

2-Parietal or dorsal surface:is rough and porous ,on each side there is parietal sulcus .

3-Solar surface:is arched and divided by semilunar line ,there are the solar groove and solar foramen leading to solar canal .



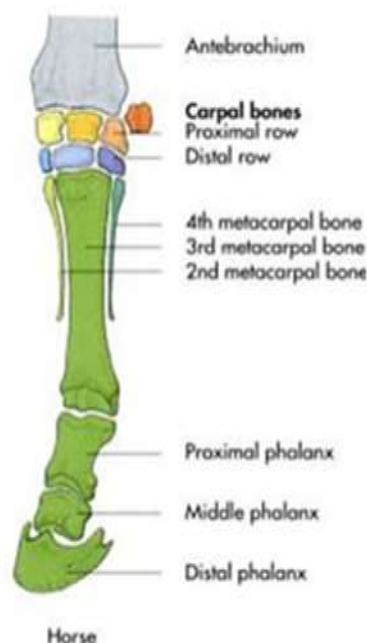
**The three borders are:**

**1-Coronary or proximal border it has the extensor process.**

**2-Solar border:it is thin and sharp.**

**3-Dorsal border :carries the cartilage.**

**The angles or the palmar processes:medial & lateral.**



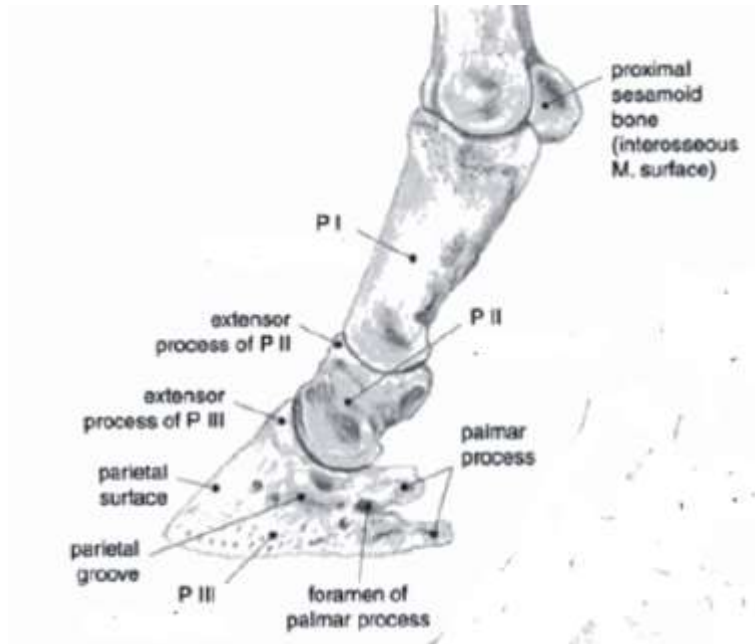
**The digits in ox:**

**Four digits are present in the ox ,two are fully developed (third &fourth) they have three phalanges and three sesamoids each .**

**The second and fifth are vestige and are placed palmar to the fetlock as (dew claws) each contains one or two small bone which do not articulate with skeleton.**



## The digit in ruminant



## The digits in dog:

The digits have three phalanges except the first digit consists of two phalanges and very short .Third and fourth digits are the