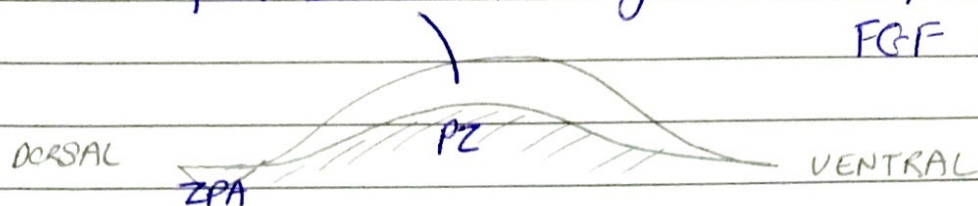


EMBRYOLOGY & LIMB GROWTH

LIMB BUD (Appears at end of 4th week (hind limbs 2 days before))
Apical ectodermal ridge controls prox-distal growth
FGF 2, 4, 8, 10



PZ = Progress zone
ZPA = Zone of polarizing activity controls Radio Ulnar (SHH)
Dorsoventral controlled by dorsal & ventral ectoderm
Ant/Post Wnt7a via LIM-16 En-1

Wk

- 4 Limb bud appears
- 5 neural plexuses & peripheral nerves
- 6 Hand shaped paddle cells of AER undergo apoptosis - 5 digits
- 7 upper limb rotates laterally (extensors dorsal) & LL rotates medially (ext anterior)
- 8 Endochondral ossification begins & muscles developed enough to move
- 12 Diaphyseal 1^o ossification centres