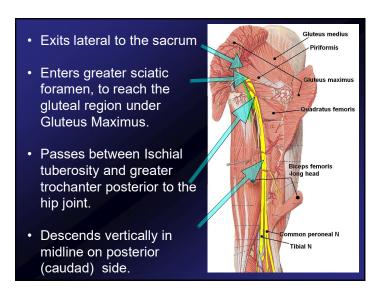


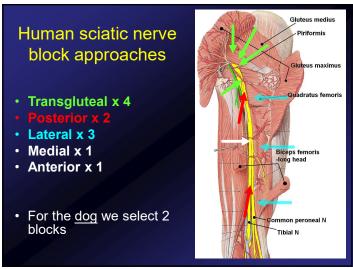
### Complete analgesia distal to the stifle joint....requires.....

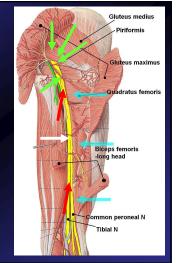
- Sciatic nerve block (the dominant nerve).
  - Sciatic Nerve block alone is sufficient for good analgesia (85%).
- <u>Saphenous</u> nerve block needed for 100% analgesia. Supplies skin and joints (pure sensory).

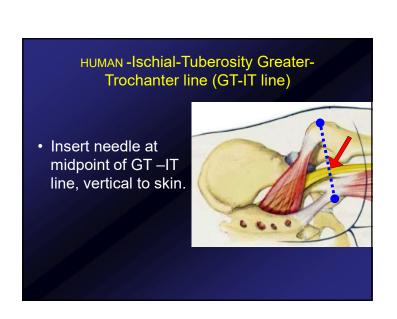
#### Human sciatic nerve

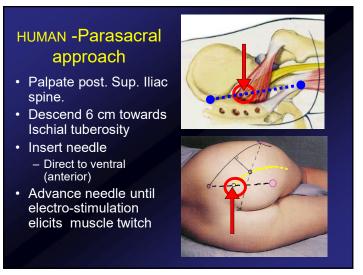
 Sufficient similarity to canine anatomy to adapt some medical technique to veterinary application, with modifications.









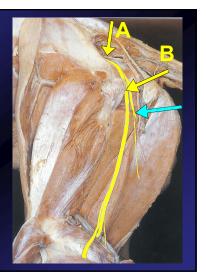


### Which muscle twitch is acceptable as a nerve electro-location end point?

- Parasacral
  - –Hamstring = YES
  - -Below stifle = YES
- GT-IT line block
  - –Hamstring = NO
  - -Below stifle = YES

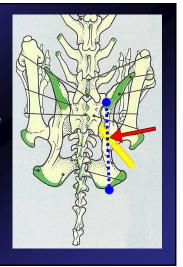
#### Canine sciatic N.

- A = parasacral
  - Includes hamstrings
- B = GT-IT line
  - Easiest
  - May exclude hamstrings



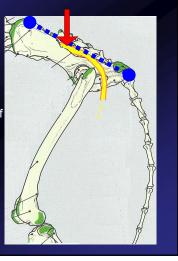
#### Parasacral Sciatic N. block

- Line: most posterior point of iliac crest to Ischial tuberosity
- Insert needle vertical 1/3 of distance from iliac crest.
- Needle direction parasagital and direct to ventral (anterior).
- Explore "across" direction of nerve



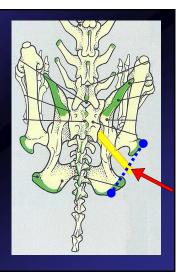
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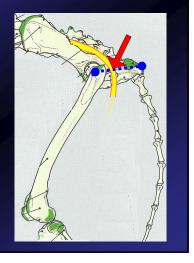
#### GT-IT line Sciatic N. block

- Midpoint of line from Greater trochanter to Ischia tuberosity
- Insert needle vertical to skin.
- Explore "across" direction of nerve



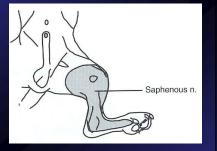
#### GT-IT line Sciatic N. block

- Midpoint of line from Greater trochanter to Ischia tuberosity
- Insert needle vertical to skin.
- Explore "across" direction of nerve





# The canine Saphenous nerve



- Sensory distribution in the pelvic limb below the stifle joint.
- Should be blocked with the sciatic nerve for pain below the stifle.

# HUMAN saphenous nerve block

- A: Subcutaneous technique unreliable.
- B: Trans-Sartorius muscle is reliable, needs patient verbal feedback.
- Human legs obese, skin immobile = Palpation of single muscles is difficult.
- Dogs have loose skin and less fat = individual muscles easily palpated.

