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Innervation of the Radial + Median + Ulnar Nerves

Nerves	Radial	Median	Ulnar
Surfaces	Cranial + Cranio-Medial	Caudal + Caudo-Medial	Cranio-Lateral + Caudo-Lateral
Digits	III + IV (axial) + II	III + IV (axial) + II	IV (abxial) + V

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Courses: Radial Nerve (Summary)

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Shoulder Girdle	Origin: Last 3 Cervical + First Thoracic Spinal Nerve (Ventral Branch) + Run: Ventrally + Caudally
Arm / Brachium	Musculospiral Groove of the Humerus LATERAL ASPECT OF THE ARM Branches: Deep + Superficial
Forearm	Cranio-Medial Aspect of Radius (Extensor Carpi Radialis Muscle)
Manus	Carpus: Dorso-Medial Aspect of the Carpus Metacarpus: Dorso-Medial Aspect of the Metacarpus Slightly Proximal to the Fetlock Joint Dorsal Common Digital Nerve II and III Dorsal Common Digital Nerve II → (2nd + 3rd Digits) → Dorsal Proper Digital Nerve II Dorsal Common Digital Nerve III → (3rd + 4th Digits) → Dorsal Proper Digital Nerve III (Axial) Dorsal Proper Digital Nerve III (ab) → Dorsal Proper Digital Nerve IV (Axial) Cranio-Medial + Cranial

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Course of the Median Nerve **[Check for updates]**

Shoulder	<p>Origin: Last Cervical + First Thoracic Spinal Nerve (Ventral Branch)</p> <p>Cross: Medial Face of the Axillary Artery</p> <p>Form: Ansa Axillary with Musculocutaneous Nerve</p>
Arm	<p>(Medially): Median + Ulnar Nerves = Common Sheath</p> <p>Middle of the Arm : Median Nerve Separates from the Ulnar Nerve</p>
Forearm	<p>Lying Between: Caudal to Radius and Flexor Carpi Radialis Muscle</p>
Manus	<p>CARPUS: Caudo-Medial Aspect</p> <p>METACARPUS: Caudo-Medial Aspect + Divided into:</p> <ul style="list-style-type: none"> Lateral + Medial Branches Palmar Axial Digital Nerve V Palmar Common Digital Nerve II + III Palmar Proper Digital Nerve II Palmar Proper Digital Nerve III (abxial) Palmar Proper Digital Nerve III (Axial) Palmar Proper Digital Nerve IV (Axial) Palmar Common Digital Nerve IV (axial) <p>Palmar Axial Digital Nerve V Communicating Branch Joins directly with (Palmar Branch of Ulna)</p> <p>Caudo-Medial + Caudal</p>

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Course of the Ulnar Nerve **[Check for updates]**

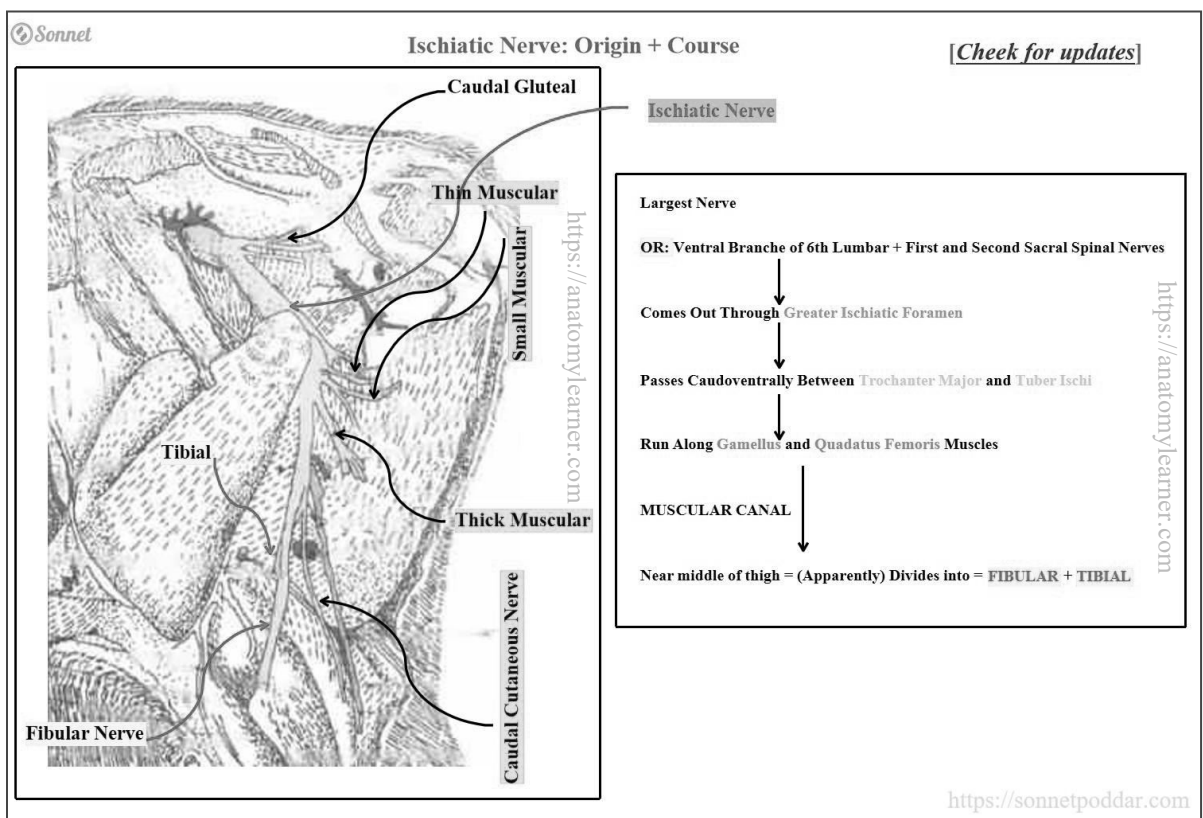
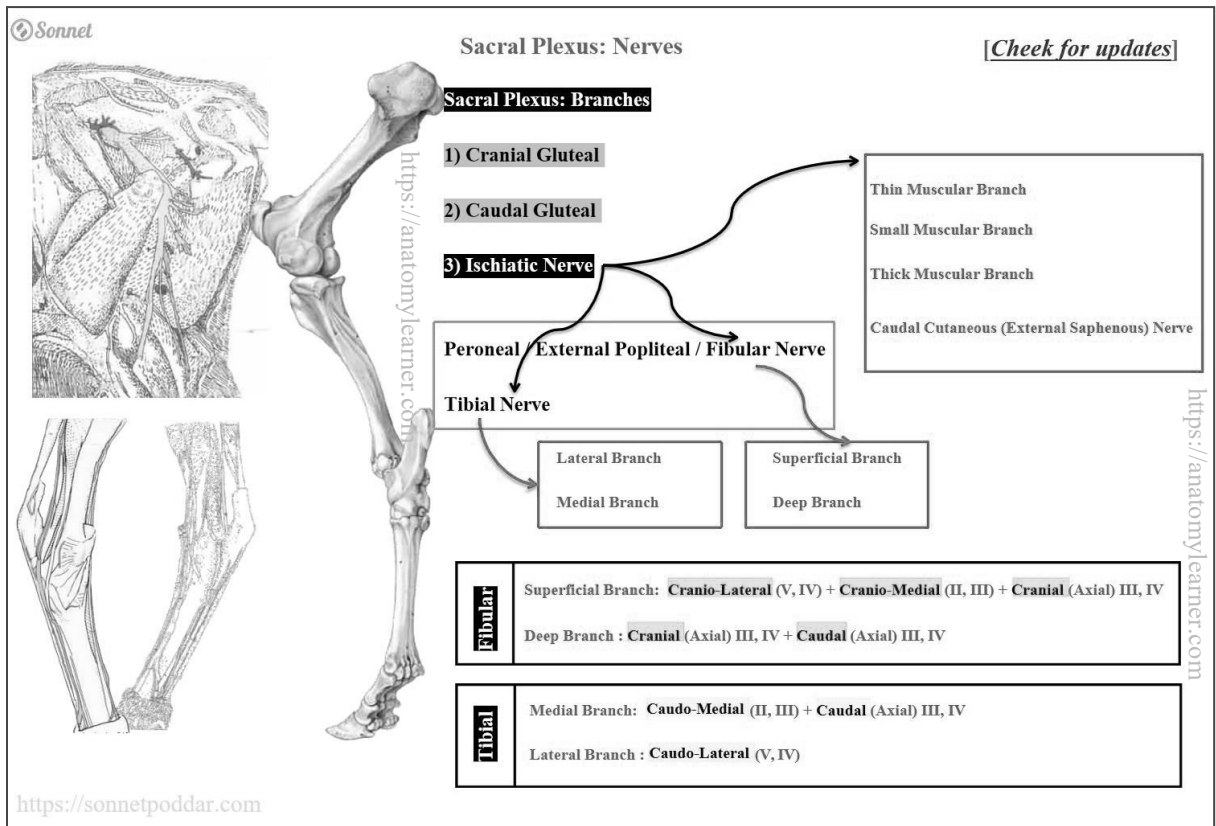
Shoulder	<p>Origin: Last Cervical + First Thoracic Spinal Nerve (Ventral Branch)</p> <p>Descends: Medial Face of the Axillary Artery with Median Nerve</p>
Arm	<p>(Medially + Caudally): Median + Ulnar Nerves = Common Sheath</p> <p>Middle of the Arm : Ulnar Nerve Separates from the Median Nerve</p>
Forearm	<p>Descends Between: Ulnaris Lateralis and Flexor Carpi Ulnaris Muscles</p>
Manus	<p>ACCESSORY CARPAL: Divided (Slightly Proximally)</p> <ul style="list-style-type: none"> Dorsal + Palmar Branches Pass Between: Tendons of UL+FCU CARPUS: Palmo-Lateral Aspect METACARPUS: Dorso-Lateral Aspect Dorsal Common Digital Nerve IV (Fetlock) Lateral Accessory Digital Nerve V Dorsal Proper Digital Nerve IV (Abxial) <ul style="list-style-type: none"> DEEP + SUPERFICIAL CARPUS: Joins with Median (CB) METACARPUS: Palmar Aspect Palmar Common Digital Nerve IV (Fetlock) Lateral Accessory Digital Nerve V Palmar Proper Digital Nerve IV (Abxial) <p>Cranio-Lateral + Cranio-Medial</p>

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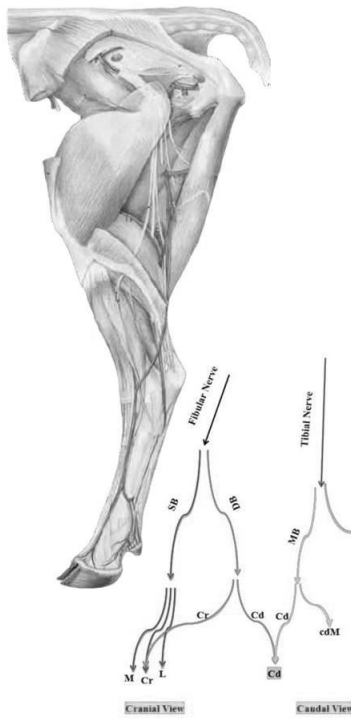


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Fibular: Origin + Course [Check for updates]

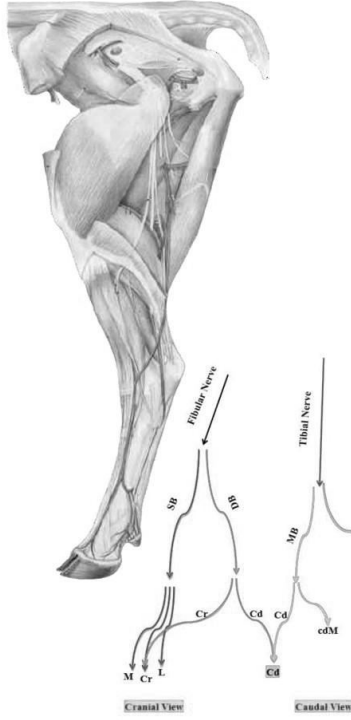


THIGH	Cranially Under Gluteobiceps Muscle ↓ AT MIDDLE OF THIGH: Descends along the Lateral Aspect of Gastrocnemius Muscle
LEG	(Further Between) ↓ Fibularis Longus + Extensor Digitorum Lateralis Muscles (Divides) ↓ SUPERFICIAL + DEEP Braches ↓ MIDDLE OF THE LEG: Deep Face of Fibularis Longus
PES	DORSAL SURFACE OF TARSAL / METATARSUS ↓ Dorsal Common Digital Nerve IV (Fetlock) → Lateral Accessory Nerve V → Dorsal Proper Digital Nerve IV (Abaxial) ↓ Dorsal Common Digital Nerve III → Dorsal Proper Digital Nerve III ↓ Dorsal Common Digital Nerve II → Medial Accessory Nerve II → Dorsal Proper Digital Nerve III

CRANIO-LATERAL + CRANIAL (Axial) + CRANIO-MEDIAL

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Fibular: Origin + Course (Deep Branch) [Check for updates]



THIGH	Cranially Under Gluteobiceps Muscle ↓ AT MIDDLE OF THIGH: Descends along the Lateral Aspect of Gastrocnemius Muscle
LEG	(Further Between) ↓ Fibularis Longus + Extensor Digitorum Lateralis Muscles (Divides) ↓ SUPERFICIAL + DEEP Braches ↓ MIDDLE OF THE LEG: Deep Face of Fibularis Longus + Extensor Digitorum Lateralis Muscles
PES	DORSAL SURFACE OF METATARSUS → Medial Branch of TIBIAL (Communicating Branch) ↓ Dorsal Common Digital Nerve III (Fetlock) → Dorsal Proper Digital Nerve III → Dorsal Proper Digital Nerve IV (Axial) ↓ Plantar Common Digital Nerve III → Plantar Proper Digital Nerve III (Axial) → Plantar Proper Digital Nerve IV (Axial)

CRANIAL (Axial) + CAUDAL (Axial)

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Tibial Nerve: Origin + Course (Medial Branch) **[Check for updates]**

THIGH	Caudally Under Gluteobiceps Muscle ↓ AT MIDDLE OF THIGH: Tibial Nerve Separate From FIBULAR Nerve
LEG	(Further Between) ↓ Two Head of GASTRONEMIUS ↓ Cranial to Common Calcaneal Tendon (Between CCT and Flexor Digitorum Superficialis Muscle)
PES	AT CALCANEAL TUBER: Divides into = MEDIAL + LATERAL Branches ↓ TARSUS: Medioplantar Aspect (Fetlock) Plantar Common Digital Nerve II + Plantar Common Digital Nerve III ↓ Medial Accessory Digital Nerve II Plantar Proper Digital Nerve III (Abxial)

↓
CAUDO-MEDIAL + CAUDAL (Axial)

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Tibial Nerve: Origin + Course (Lateral Branch)

THIGH	Caudally Under Gluteobiceps Muscle ↓ AT MIDDLE OF THIGH: Tibial Nerve Separate From FIBULAR Nerve
LEG	(Further Between) ↓ Two Head of GASTRONEMIUS ↓ Cranial to Common Calcaneal Tendon (Between CCT and Flexor Digitorum Superficialis Muscle)
PES	AT CALCANEAL TUBER: Divides into = MEDIAL + LATERAL Branches ↓ TARSUS: Lateroplantar Aspect (Fetlock) Plantar Common Digital Nerve IV Lateral Accessory Digital Nerve V Plantar Proper Digital Nerve IV (Abxial)

↓
CAUDO-LATERAL

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