

**[Check for updates]**

**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)**

**[Check for updates]**

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

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**[Check for updates]**

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

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

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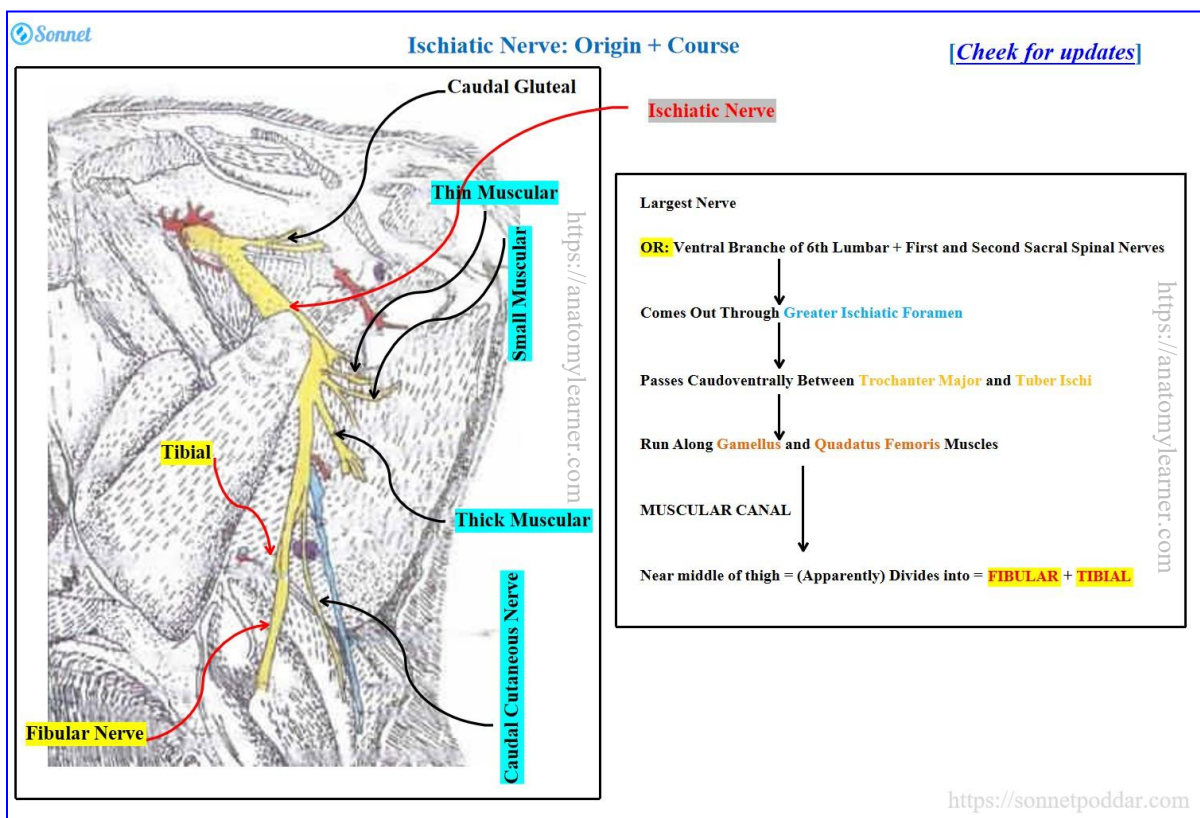
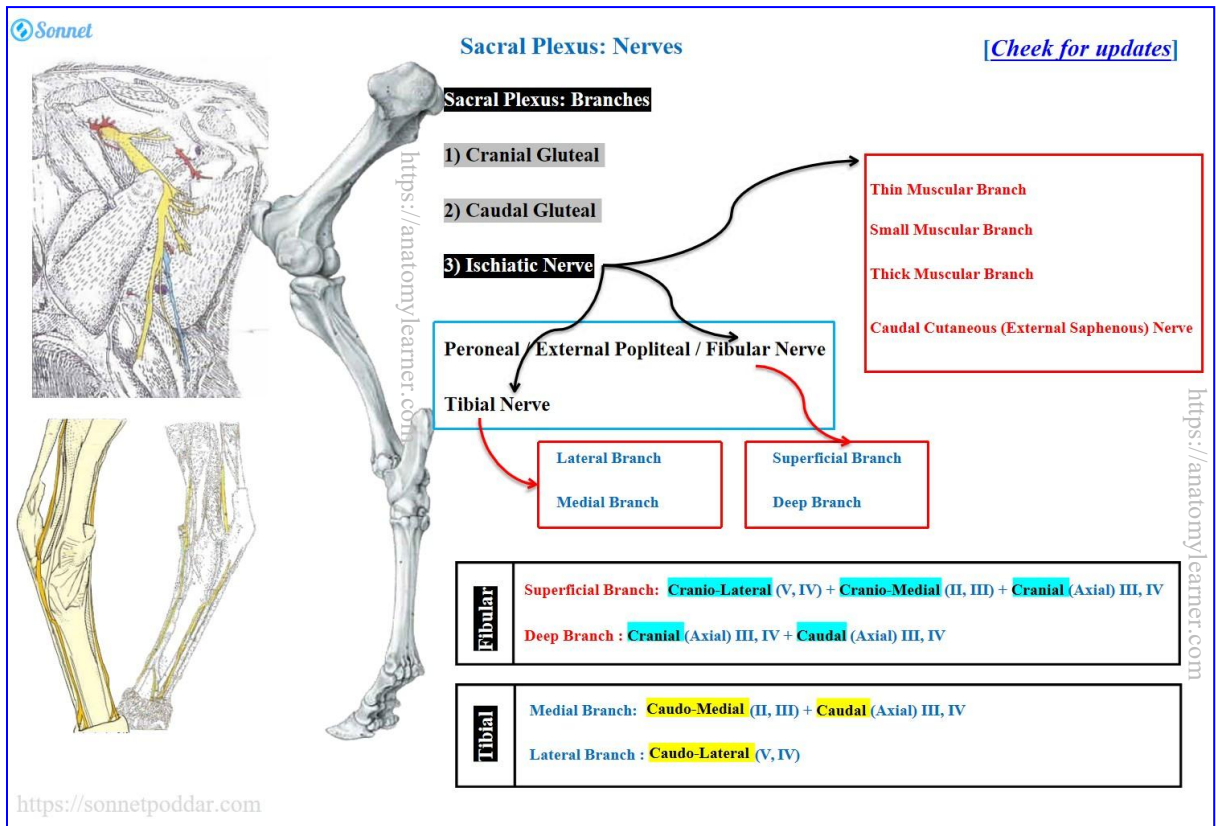
**Course of the Ulnar Nerve** **[Check for updates]**

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

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**Fibular: Origin + Course** [Check for updates]

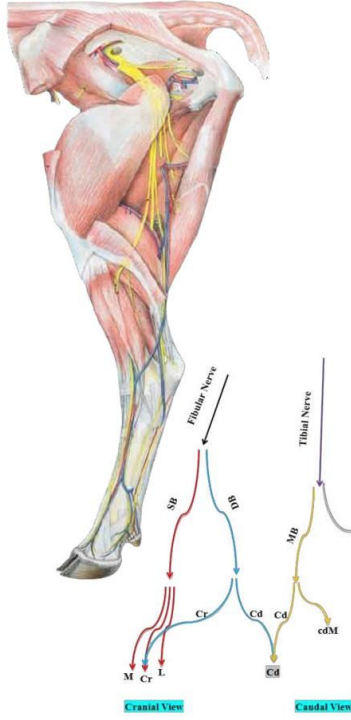


<b>THIGH</b>	Cranially Under Gluteobiceps Muscle ↓ AT MIDDLE OF THIGH: Descends along the Lateral Aspect of Gastrocnemius Muscle
<b>LEG</b>	(Further Between) ↓ Fibularis Longus + Extensor Digitorum Lateralis Muscles (Divides) ↓ SUPERFICIAL + DEEP Braches ↓ MIDDLE OF THE LEG: Deep Face of Fibularis Longus
<b>PES</b>	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]



<b>THIGH</b>	Cranially Under Gluteobiceps Muscle ↓ AT MIDDLE OF THIGH: Descends along the Lateral Aspect of Gastrocnemius Muscle
<b>LEG</b>	(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
<b>PES</b>	DORSAL SURFACE OF METATARSUS → <span style="background-color: yellow;">Medial Branch of TIBIAL (Communicating Branch)</span> ↓ <span style="background-color: cyan;">Dorsal Common Digital Nerve III</span> → Dorsal Proper Digital Nerve III (Axial) ↓ Dorsal Proper Digital Nerve IV (Axial)

CRANIAL (Axial) + CAUDAL (Axial)

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

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

**CAUDO-MEDIAL + CAUDAL (Axial)**

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**Tibial Nerve: Origin + Course (Lateral Branch)**

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

**CAUDO-LATERAL**

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