## Course of the Radial Nerve Starts as the direct continuation of the posterior cord Runs posterior to the brachial artery, On top of the long head of the triceps Gives branches to innervate the long head and the lateral head of tripceps brachii BEFORE it crosses the humerus Crosses the humerus in the RADIAL GROOVE with the deep artery of the arm Inside the radial groove, behind the triceps, it gives rise to the posterior cutaneous nerve of the arm and the Triceps Brachii, long head posterior cutaneous nerve of the forearm, which pierce the lateral head of the triceps The branch to the medial head of the triceps also branches off behind Brachial artery the humerus Deep artery of the arm After crossing the humerus, it RADIAL NERVE LESIONS pierces the lateral intermuscular septum and descends between the brachialis and the brachioradialis Fracture of the HUMERUS: wrist drop due to extensor paralysis, as Lateral intermuscular septum well as a loss of sensation on the dorsum of the hand Damage to the DEEP BRANCH: Inability to extend the thumb and to Brachioradialis extend the MCP joints of the digits- but **BRACHIALIS** NO SENSORY LOSS Damage o the superficial branch usually only results in a tiny area of At the level of the lateral condyle, in the anaesthesia because of the overlap in cubital fossa, it divides into the deep and median and ulnar nerve territories the superficial branches The SUPERFICIAL BRANCH runs under brachioradialis all the The DEEP BRANCH pierces the supinator way down the arm Supinator Still Brachioradialis Beyond the supinator, the DEEP BRANCH becomes the POSTERIOR INTEROSSEOUS NERVE The SUPERFICIAL BRANCH the POSTERIOR INTEROSSEOUS NERVE Eventually becomes superficial when winds laterally behind the radius and enters the it emerges from beneath posterior compartment of the forearm brachioradialis, crosses the roof of the anatomical snuffbox, and innervates In the posterior compartment, it runs along the the dorsal skin of the hand interosseous membrane to innervate the extensor muscles