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The ultrasonic-controlled injection method for qubital tunnel syndrome Qubital Tunnel Syndrome is a common trap of ulnar nerve neuropathy on the elbow, which is caused by the compression of the ulnar nerve by an aponeurotic group that runs from the medial epicondyle of the shoulder bone to the medial boundary of the olecranon (Figure 55.1). Patients suffering from cubital tunnel syndrome will experience pain and dysesthesia radiating from the elbow to the lateral forearm and into the wrist and ring and little finger. The onset of cubital tunnel syndrome can be insidious and is usually the result of improper or overuse of the elbow joint, although a direct nerve injury as it passes through a cubital tunnel can also lead to a similar clinical scenario. If this neuropathy is not treated, pain and functional disability may become more severe, and, ultimately, the constant numbness and flexion of the contracture of the ring and little finger can result. Physical results in patients suffering from cubital tunnel syndrome will show weakness of the inner muscles of the forearm and arm, which are innervated by the ulnar nerve. The Tinel sign will be present at the point where the ulnar nerve passes through the cubital tunnel and the nerve will be tender to palpation (Figure 55.2). Weakness of the muscles of the adductor pollicis can be demonstrated when performing the Froment and Jeanne test (Figure 55.3). Weakness of interosseous muscles can be demonstrated by performing crossed fingers, flexion of fingers, little finger and equivocal tests (Figure 55.4). Weakness of hypotenar muscles can be demonstrated during tests of Wartenberg, Massa and Pitres-Testat. It should be remembered that the ulnar nerve is the largest unprotected nerve in the body, and that it is subject to injury or seizure at many points throughout its journey, and that more than one ulnar nerve damage can coexist. Cubital tunnel syndrome is often misdiagnosed as a golfer's elbow and can be distinguished from the golfer's elbow, determining the place of maximum tenderness to palpation. Patients suffering from cubital tunnel syndrome will experience maximum tenderness to palpation over the ulnar nerve 1 inch below the medial epicondyle, while patients suffering from the golfer's elbow will experience maximum tenderness to palpation directly above the medial epicondyle. Cubital tunnel syndrome should also be distinguished from cervical radiculopathy involving the roots of C7 or C8 and the golfer's elbow. In addition, it should be remembered that cervical radiculopathy and elbow nerve seizure can coexist as the so-called double crush syndrome. Double crush syndrome is most commonly observed with an average nerve grip on the wrist or with carpal tunnel syndrome, but has been reported with the ulnar nerve. Electromyography and nerve conduction studies are useful for cubital tunnel syndrome from radiculopathy of the golfer's cervix and elbow. Simple X-rays, ultrasound tomography and magnetic resonance imaging are shown in all patients who are present with cubital tunnel syndrome to rule out occult bone pathology associated with the cubital tunnel, and to identify occult fractures, masses, tumors and ulnar nerve abnormalities that may be responsible for the interpretation of the ulnar nerve (figure 55). Additional tests, including a full blood test, uric acid, deposition levels and testing for anti-nuclear antibodies, may be shown based on the patient's clinical presentation. The ultrasonic injection method described below serves as both a diagnostic and therapeutic maneuver. CLINICALLY RELEVANT ANATOMY The key guides to the performance of ultrasonic cubital tunnel syndrome are the medial epicondyle and the olecranon process. Based on the fibers from C8 to T1 nerve roots of the medial cord of the brachial

plexus, the ulnar nerve lies anterior and gives way to the armpits of the artery at 3:00 p.m. to 6:00 p.m. quadrant as it passes through the ax. As the ulnar nerve leaves the axilla, it passes lower adjacent to the brachyal artery. In the middle of the upper arm, the ulnar nerve is found to medially pass between the process of olechranon and the medial epiconde of the humerus, where it passes under the aponeurotic band and is subject to seizure (Figure 55.7). Continuing its downward path, the ulnar nerve passes between the heads of the flexor carpi elbows, moving radially along with the ulnar artery. At the point 1 inch of the proximal fold of the wrist, the ulnar nerve is divided into the dorsal and palm branches. The spinal branch provides a feeling of the ulnar aspect of the dorsal part of the arm and the dorsal aspect of the little finger and the ulnar half of the ring finger (Figure 55.8). The palm branch provides sensory inertia of the ulnar aspect of the palm and palm aspect of the little finger and the ulnar half of the ring finger. Only golden members can continue reading. Sign in or sign up to continue this website using cookies. By continuing to use this website, you consent to the use of cookies. For information about cookies and how to disable them, visit our privacy and cookie policy. I got it, thank you! Work off campus? Learn about our remote access options Volume 56, Issue 2 Introduction: Ulnar Neuropathy on the Elbow (UNE) is a common peripheral compression neuropathy and, in most cases, occurs at 2 sites, a retroecordilar groove or a qubital tunnel. With regard to the potential therapeutic approach with perineural corticosteroid injection, the purpose of this study was to assess the distribution of injectable fluid used at the standard site. Methods: We ultrasonic (U.S.-controlled) perineural injections nerve halfway between the olebrandon and the medial epicondile in the 21 upper limbs of the 11 non-unincalmated corpse. In the anatomical autopsy, we investigated the distribution of injectable ink. Results: Ink was successfully inserted into the perineum of the ulnar nerve in all 21 cases (qubital tunnel: 21 out of 21; retroecicordial groove: 19 out of 21). Conclusion: U.S.-led injection between olechranone and medial epicondyl is a feasible and safe method for reaching the most common elbow nerve capture sites. Muscle Nerve 56: 237-241, 2017 Nicole J. Jarrett, David M. Kahan, Cubital Tunnel: Non-Surgical Control, Qubit Tunnel Syndrome, 10.1007/978-3-030-14171-4, (69-79), (2019). John W. Norbury, Levon N. Nazaryan, Ultrasonic Treatment of Mononeuropathy peripheral seizures, Muscles and Nerves, 10.1002/mus.26517, 60, 3, (222-231), (2019). 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