Case Report: Hypothenar Hammer Syndrome with Pseudoaneurysm of Ulnar Artery

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Introduction:

Hypothenar hammer syndrome is a rare condition with ulnar nerve symptoms. Repetitive trauma is the most common etiology. Our case is presented with pseudoaneurysm of the ulnar artery due to previous penetrating injury.

Case Report:

26 years of male patient has administered our hospital with hypothenar mass and distal ulnar nerve symptoms.

Medical history of previous penetrating injury and scar is inspected at the dorsal side of the same hand. Doppler US is reported as pseudo-aneurism of the ulnar artery. Resection of the mass and vein grafting is performed and ulnar nerve neurolysis is performed. Total relief of the symptoms is observed at the postoperative 3 months.

Discussion:

Hypothenar hammer syndrome must be kept in mind for the masses around the hypothenar region. Detailed ulnar nerve examination must be performed. Doppler US or MRI is diagnostic for ulnar artery related conditions. Ulnar artery ligation (If Allen Test is positive) or ulnar artery reconstruction with vein grafting can be done after resection.

Figure 1: Preoperative presentation with hypothenar mass. The dorsal scar is not visible in this view.

Figure 2: Pseudoaneurysm of ulnar artery is explored.

Figure 3: Grafting from reversed dorsal hand veins, acquired flow through the ulnar artery to superficial palmar arch.