

HAND AND FOOT TUMORS : A 10 YEARS RETROSPECTIVE ANALYSIS

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Introduction: The hand and foot are complex structures, composed of several tissues, each of which can be the origin of proliferation and development of the tumor: skin, adipose tissue, muscle, nerve, bone, cartilage, etc. With the majority of lesions about the hand and foot are reactive or inflammatory in nature, some are true neoplasms.

Methodology: Retrospective analysis of 4997 patient records treated in Orthopaedic Oncology Unit of University Malaya Medical Centre, Malaysia between 1st January 2007 to 31st December 2017. Demographic data of 223 patients with hand and foot tumors out of 4997 patients with neoplasms were analysed.

Discussion: There were a total of 28 patients with hand tumors and 195 with foot tumors. Among the hand tumors, 20 were benign and 8 malignant with 12 being bone tumors, 1 metastasis and 15 soft tissue tumors. As for the foot tumors, 133 were benign and 62 malignant with 29 being bone tumors, 7 metastases and 152 soft tissue tumors. Prevalence of hand tumors are found in left hand and the 4th decade of life. Majority of foot tumors are located in the toes and dorsum of foot with predilection of soft tissue tumors at the elderly age group and bone tumors at the 2nd decade of life. There is slight predominance towards female gender in bone tumors. In the hand and foot tumors group, majority were treated with wide excision, some requiring digit amputation or higher amputation level.

Conclusion: Hand and foot tumors are uncommon, most tumors are soft tissue in nature however differential diagnosis of malignant from benign tumors is difficult with poor prognosis if delayed. Functional outcome of hand and foot tumors may require specific scorings such as DASH, FFI or AAOS.