

DUPUYTREN'S CONTRACTURE IN THE MALAY PATIENT: CASE REPORT

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Introduction: Dupuytren's disease is a fibroproliferative reaction of unknown etiology involving the palmar aponeurosis and fascial structures of the fingers. It is rare in Asian countries, particularly in the Malay population. It is associated with an autosomal dominant pattern of inheritance. Dupuytren's disease has been associated with other factors including alcoholism, diabetes mellitus, and epilepsy. Involvement bilateral middle finger in a Malay patient seen in the clinic, with underlying Diabetes mellitus.

Discussion: A 63-year-old Malay gentleman presented with progression flexion deformity of the bilateral middle finger over 2 years. The deformity progressively worsened with daily activities. He is underlying Diabetes Mellitus had bilateral middle finger Dupuytren's contracture, his right middle finger fixed flexion deformity 45 degrees at the level of PIPJ and MCPJ level and left middle finger fixed flexion deformity at 45 degrees at level PIPJ and MCPJ level with prominent and thickened cord-like structure with nodule palpable at A1 pulley area. The ROM of the right middle finger at level MCPJ is 45-90 degree and at PIPJ is 0-90 degree while left middle finger at MCPJ 30-90 degree and at level PIPJ 20-90 degree. Regional dermatofasciectomy was performed using a single vertical palmar incision over the right middle finger and a zig-zag incision done over left hand. Intraoperatively fibroid cord-like structure over zone 2 and extending to zone 3 over the bilateral middle finger. The patient was reviewed back after 2 months. Noted scar well healed over bilateral hand, no thickened structure felt, able to flex and extend all the fingers.

Conclusion: The disease associated with diabetes still significant but the biochemical mechanism still unclear. Alcoholism, epilepsy, and diabetes are not conditions solely found in Caucasians also common in Asians. This leads us to believe that these conditions also were directly related to the development of the Dupuytren's contracture on Asians.