

Case report: Muscle Adaptation by Serial Sarcomere Addition 1 Year after Femoral Lengthening

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Clinical Orthopedics and Related Research

Boakes, Jennette L MD, et al. - A common complication of reconstructive surgery is muscle contracture and consequent loss of joint motion. This particularly occurs in surgical lengthening procedures where the muscle adaptive capacity seems to limit the extent of possible lengthening. We used intraoperative laser diffraction to determine the skeletal muscle adaptation that occurred in a 16-year-old girl who had 4-cm femoral lengthening for a leg-length discrepancy secondary to posttraumatic growth arrest

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