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Gracilis muscle is a long and slender muscle located in the medial (adductor) compartment of the thigh. It forms part of the adductor muscle group together with adductor longus, adductor brevis, adductor magnus and pectineus muscles. Gracilis is the most superficial hip adductor, overlying the remaining four.

Free functioning muscle transfer is a reconstructive option to restore elbow flexion in brachial plexus injury. Hinchcliff et al. determined the impact of body mass index, age, and location of distal tendon attachment on elbow flexion strength after free functioning muscle transfer in traumatic brachial plexus injury patients.

A retrospective review of patients who underwent free functioning muscle transfer for elbow flexion as part of their brachial plexus injury reconstruction with a minimum 2-year follow-up were evaluated. Outcomes assessed included elbow flexion strength (British Medical Research Council grade) and change in Disabilities of the Arm, Shoulder and Hand questionnaire and visual analogue scale pain scores.

One hundred six patients met inclusion criteria. The average age was 32 years, and the average body mass index was 27.1 kg/m2; 56.5 percent of patients achieved M3 or greater muscle grade using the authors' strict modification of the British Medical Research Council scale. Disabilities of the Arm, Shoulder and Hand questionnaire scores improved from 45.7 to 38.8 (p < 0.05). Visual analogue scale pain scores decreased, but this trend did not obtain significance. Age and body mass index both had a significant negative impact on final free functioning muscle transfer grade (p < 0.05). Use of a distal tendon insertion led to improved muscle grade outcomes, with targeting of wrist extension being superior to finger flexion (p < 0.05). Simultaneous musculocutaneous nerve grafting did not significantly alter final elbow flexion strength.

Increasing age andbody mass index both imparted a deleterious effect on free functioning muscle transfer muscle grade. Distal muscle targets had better strength outcomes than when the biceps tendon was used ¹⁾.

Hinchcliff KM, Kircher MF, Bishop AT, Spinner RJ, Shin AY. Factors Impacting the Success of Free Functioning Gracilis Muscle Transfer for Elbow Flexion in Brachial Plexus Reconstruction. Plast Reconstr Surg. 2022 Mar 11. doi: 10.1097/PRS.00000000000009036. Epub ahead of print. PMID: 35271536.

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