

Author, Year Country Study Design	Objective/Purpose
(Smith et al., 2001) USA Case Report N=1	Population: 10 yr, female, C5 SCI, 10 mo post injury. Intervention: Freehand System (functional electrical stimulation neuroprosthesis). Outcome Measures: Manual Muscle Test, stimulated pinch force, Grasp and Release Test, Functional Independence Measure, bone growth, lead unwinding.
(Mulcahey et al., 1999b) USA Case Report N=3	Population: <i>Case I:</i> 9 yr, C7 SCI; <i>Case II:</i> 6 yr, C7 SCI; <i>Case III:</i> 9 yr, C6 SCI. Intervention: Surgical transfers of the brachioradialis to the flexor pollicis longus and extensor carpi radialis longus to flexor digitorum profundus for thumb and finger flexion, respectively. Outcome Measures: Pinch and finger flexion force, Grasp and Release Test, Functional Independence Measure.
(Davis et al., 1997) USA Case Report N=1	Population: 17 yr, male, C5 complete SCI. Intervention: Bilateral tendon transfers and unilateral implementation of the Freehand System (functional electrical stimulation neuroprosthesis). Outcome Measures: Range of motion, Manual Muscle Test, Pinch force.
(Mulcahey et al., 1995) USA Case Report N=1	Population: 11 yr, male, C7 complete SCI. Intervention: Surgical transfers of the brachioradialis to the flexor pollicis longus and the extensor carpi radialis longus to the flexor digitorum profundus. Outcome Measures: Pinch force, Jebsen Test of Hand Function for Children, Grasp and Release, Functional Independence Measure, Common Object Test.
(Smith et al., 1992) USA Case Report N=1	Population: 8 yr, male, C7-8 Frankel C SCI. Intervention: Functional neuromuscular stimulation neuroprosthetic hand system. Outcome Measures: Manual muscle test, muscle strength, Grasp and Release Test.