

Table 7-1

Spastic Skeletal Muscle Literature Summary (continued)

Literature Reference	Impact Factor ^a	Sample Size	Patient Diagnosis	Age (yr)	Study Type ^b
(Stackhouse, Binder-Macleod, & Lee, 2005)	2.458	12	CP	10.46	EMG Joint kinematics Mechanical
(Lieber, Runesson, Einarsson, & Fridén, 2003)	2.282	9	CP	9.3	Biopsy Mechanical Histological Morphological—in vitro
(Fridén & Lieber, 2003)	2.282	12	CP	7.8	Biopsy Mechanical

^aImpact factor: Score calculated for journals by Institute of Scientific Information, Philadelphia, PA. (See <http://www.isinet.com/isi/hot/essays/journalcitationreports/7.html> for details on calculations.)

^bType of study: Biopsy—muscle biopsy taken and analyzed; EMG—study utilizing EMG as part of the study; Histological—fiber typing included in the study; Joint kinematics—study involving relation of joint motion with measurement of torque; Mechanical—study involving torque measurement or fiber stiffness; Morphological *in vivo*—study measuring fiber lengths, sarcomere lengths, or fiber sizes in living tissue; Morphological *in vitro*—studies measuring fiber lengths and sizes or sarcomere lengths *in vitro*. CVA, cerebral vascular accident; CP, cerebral palsy; MS, multiple sclerosis; SCI, spinal cord injury; UMNL, upper motor neuron lesion; NR, not recorded.