

Table 11.3 Dermatome, Myotome, and Reflex Testing for the Upper and Lower Cervical Spine

Nerve root	Dermatome	Myotome	Reflex
C1	Top of head	(Contributes to cervical flexion)	None
C2	Temporal, occipital regions of head	Cervical flexion (longus colli, sternocleidomastoid, rectus capitis)	None
C3	Posterior cheek, neck	Lateral neck flexion (trapezius, splenius capitis)	None
C4	Superior shoulder, clavicle area	Shoulder shrug (trapezius, levator scapulae)	None
C5	Deltoid patch, lateral upper arm	Shoulder abduction (deltoid), elbow flexion (biceps)	Biceps (brachioradialis)
C6	Lateral forearm, radial side of hand, thumb and index finger	Elbow flexion (biceps, supinator), wrist extension	Brachioradialis (biceps)
C7	Posterolateral arm and forearm, middle finger	Elbow extension (triceps), wrist flexion	Triceps
C8	Medial forearm, ulnar border of hand, ring and little finger	Ulnar deviation, thumb extension, finger flexion and abduction	None

From S. Shultz, P. Houglum, and D. Perrin, 2016. *Examination of musculoskeletal injuries*, 4th ed. (Champaign, IL: Human Kinetics).