Luis Pérez-Cordero pdrating@pacbell.net

←Impairment & Disability Rating Specialists → http://www.pdratings.com/

<u>Craig Andrew Lange</u> craigalange@pacbell.net

California Workers Compensation

A P&S Report Checklist ✓: Upper Extremities Peripheral Nerve Disorders (PND) Brachial Plexus

To Rate Impairment, Neuropathy needs to be present On The Date Of Examination For The MMI/P&S Report.

Entrapment/compression neuropathies are rated when an objective verifiable diagnosis is present, supported by positive clinical findings and loss of function. AMA 5th Ed., 493

<u>Upper Extremities PND:</u> Upper extremity impairments due to sensory deficits or pain resulting from peripheral nerve disorders are determined according to the grade of severity in diminution or loss of function and the relative maximum upper extremity impairment value of the nerve structure involved, as shown in the classification (a) and procedural (b) steps described in Table 16-10 and the impairment determination method detailed in Section 16.5b. Table 16-10 is to be used for pain that is due to nerve injury or disease that has been documented with objective physical findings and/or Electrodiagnostic abnormalities. AMA 5th Ed, pg 482:

AMA Guides Clinical & Rating Criteria

Yes No Reported Medical Findings

AMA Guides Clinical & Rating Criteria	Yes	No	Reported Medical Findings		
(Substantial Medical Evidence Standards)	√	√	Med Rpt., pgs.		
 Nerve Conduction Velocity Test (Nerve Conduction Study) measures how quickly electrical impulses move along a nerve. It is often done at the same time as an electromyogram, in order to exclude or detect muscle disorders. 					
1.1. Results of Sensory NCS?					
1.2. Results of Motor NCS?					
1.3. Were motor and sensory latencies, conduction velocities, H reflex & F wave properly evaluated?					
1.4. Decreased Amplitudes?					
1.5. Has physician tested all the muscles of the upper extremities, tested sensation and reflexes?					
 Electromyogram (EMG) is a test that measures the electrical a blocking or slowing down of responses to nerve stimulation. The itself and shows how well it receives stimulation from the nerve. often done at the same time as an EMG. 	e test p	rovide	es information about the muscle		
2.1. Degree of nerve involvement identified as per the electrodiagnostic studies?					
2.2. Do the EMG studies confirm motor function of a specific muscle or group of muscles? AMA 5 th Ed, pg 484					
2.3. Does the EMG provide objective evidence to support the symptoms and findings; confirmation of nerve injury?					
3. Are symptoms related to PND permanent impairment present? (Weakness, sensory abnormalities and pain.)					
4. Has physician established an accurate diagnosis by confirming the presence (absence) of specific pathology and symptoms with the use of appropriate neurological testing?					
5. Diagnosis confirmed by electrodiagnostic studies (needle & cutaneous) as well as sensory and motor nerve conduction studies conducted by a Board Certified Neurologist?					
6. As per clinical/records history, are prior symptoms and complaints corresponding to the part of the nervous system that is presumed to be affected by the particular vocational injury?					
7. Is the contralateral asymptomatic or symptomatic?					
8. Have both the <u>Nerve Conduction</u> <u>Studies / EMG</u> tests ruled out other pathologic nerve compression?					
8.1. Alternatively, are the studies indicative of non-vocational underlying polyneuropathy?					
9. Clinical Neurological Evaluation and ancillary clinical testing have been correlated to the electromyographic studies? (Results from multiple provocative tests reproduce symptoms.)					

Craig Andrew Lange

pdrating@pacbell.net California Workers Comper	nsation		craigalange@pacbell.net		
A P&S Report Checklist ✓: Upper Extremities Peripheral	Nerve	Disc	orders (PND) Brachial Plexu		
AMA Guides Clinical & Rating Criteria	Yes	No	Reported Medical Findings		
(Substantial Medical Evidence Standards)	√	√	Med Rpt., pgs.		
9.1. Is the Impairment rating only based on a single diagnostic/ancillary test?					
9.2. Evaluating physician explains how the rating was derived?					
9.3. List tables, figures used and refers to AMA 5th Ed., page numbers?					
10. LC § 4663 Causation Apportionment - Physician addresses	the pr	obabi	lity that 'evoked' responses are		
the result of a non-vocational disease processes; e.g., due					
degenerative disc disease, motor neuron disease, genetically de	etermir	red di	sorders or polyneuropathy.		
10.1. Evaluator apportions to pre-existing/predisposing or associated conditions?					
10.2. Tumors, compression or irradiation have been also					
considered as causation?					
10.3. Diabetes or Thyroid?					
10.4. Congenital cervical rib?					
10.5. Impingement from carrying a heavy shoulder bag or					
bad posture?					
10.6. Additional Causes:					
http://www.thebodyworker.com/thoracicoutletsyndrome.htm					
Symptoms Brachial Plexus: Symptoms may include a limp arm, lack of muscle control in the arm, hand or wrist and lack of feeling or sensation in the arm or hand. Total brachial plexus paralysis is manifested by flail arm, paralysis of all muscles of the hand, and no sensibility. Sudorific function is intact when the lesion is preganglionic. A lack of spontaneous movements of the affected extremity and differences in reflex responses help to distinguish the type of injury. Patient with a brachial plexus injury will usually present with arm internally rotated, abducted and wrist somewhat flexed, depending on level of lesion. Scapular winging is a common problem of all brachial plexus injuries due to impairment of the long thoracic nerve. Phrenic nerve damage can also occur in brachial plexus injury.					
11. Testing Standards : AMA 5th Ed, pg. 10, 307, 493 & AMA Disa	bility E	valua	tion page 459		
Are any of the following findings for individual with Brachial Plex	us inju	ries p	resent:		
11.1. Arm Internally Rotated, abducted?					
11.2. Flexed Wrist (Depends on lesion level)?					
11.3. Scapular winging (long thoracic nerve damage)?					
11.4. Soft Tissue or Joint Contractures?					
11.5. Frozen Shoulder?					
11.6. Dislocated Shoulder or Elbow?					
11.7. Tested Area has met required standards?	oo Erb	Dual	anna Dalay		
C5-C6 Upper Trunk Nerve Roots: Upper Trunk Paralysis is know 12. Is the arm hanging in adduction and internal rotation with the	as Eir	-Duci	lenne Paisy.		
elbow in extension and the forearm in pronation?					
13. Motor Strength: The biceps, deltoid, brachialis, supraspinatus,	infrasr	oinatu	s and rhomboid muscles are		
paralyzed; the triceps, pectoralis major and extensor carpi radia					
Most finger movements are intact. Muscles To Test:			5		
13.1. C5 –Supraspinatus, Infraspinatus, Shoulder Abduction					

(Deltoid), Elbow Flexion (Biceps)?

13.3. C7 – Elbow Extension (Triceps), wrist flexors?

C6 – Elbow Flexion (Biceps), supinator, wrist extensors?

A P&S Report Checklist ✓: Upper Extremities Peripheral Nerve Disorders (PND) Brachial Plexus

AMA Guides Clinical & Rating Criteria	Yes	No	Reported Medical Findings
(Substantial Medical Evidence Standards)	✓	✓	Med Rpt., pgs.
13.4. C8 – Ulnar deviation, thumb extension, finger flexion and			
abduction?			
13.5. T1 medial aspect of the upper arm?			
13.6. Does the physician localize and grade the magnitude of			
the decreased strength for each affected muscle?			
13.7. Has physician identified the nerves innervating all the			
muscle groups examined, describing which are weak and			
which are not?			
14. Sensory Deficits : (AMA, Figure 16-49, page 490) Sensory			
deficit in the C5 and C6 dermatomes is present in:			
14.2. C4 Shoulder Tip?			
14.3. C5 Deltoid area, anterior aspect of the entire arm to base			
of thumb?			
14.4. C6 Anterior Arm, radial side of the hand to thumb and			
index finger?			
14.5. C7 Lateral Arm & forearm to index, long and ring fingers?			
14.6. C8 Little Finger?			
14.7. T1 medial aspect of the upper arm? 15. Reflexes :			
15.1. C5 Biceps (Brachioradialis) 15.2. C6 Biceps (Brachioradialis)			
15.3. C7 Triceps			
	oult of	introo	calona anasthatia black Middle
 <u>C7 Middle Trunk Nerve Root</u>: Injuries are rare, except as a re Trunk (C7) injuries are often associated with coexisting upper or 			
17. C8-T1 Lower Trunk Nerve Roots: Lower trunk paralysis is known			
17.1. Motor Strength: (Horner syndrome (ptosis, myosis,	JWII as	Dejei	ille-Mullipke Falsy.
enophthalmos) if the T1 root is avulsed from the spinal cord.)			
17.2. Paralysis of all intrinsic muscles of the hand?			
17.3. Loss of opposition of thumb?			
17.4. Weakness of the flexor carpi ulnaris and flexor digitorum			
profundus of the little finger?			
17.5. Clawing of fingers 3 & 4: Loss of following finger			
movements: abduction and adduction of M.P. joints; flexion at			
M.P. & extension of I.P. joints?			
17.6. Loss of abduction & adduction of M.P joints of fingers?			
17.7. Thumb - abducted and extended?			
17.8. Loss of adduction of thumb?			
17.9. Loss of flexion of D.I.P. joints of fingers 4 & 5?			
17.10. Very weak flexion of P.I.P.& D.I.P. joints?			
18. Sensory Deficits: Sensory deficits of the C8 & T1 dermatomes			
18.1. Diminished sensation ulnar and dorsal aspect of palm and			
of ulnar 1 1/2 digits?			
18.2. Thenar branch of Median nerve?			
19. Deep branch of Ulnar & Median?			

Luis Pérez-Cordero & Craig A. Lange

Impairment & Disability Rating Specialists

Friday, November 03, 2006