

Management of Carpal Tunnel Syndrome in Adults

Guidance for General Practitioners 2018

(based on BOA guidance 2017 and views of local orthopaedic hand surgeons)

Presentation		Mild to Moderate				Severe	
Investigations		History	AND	Examination	History	AND	Examination
- Signs/symptoms consistent with both the history and examination - Consider Differential Diagnosis		Intermittent paraesthesia in the correct distribution (thumb, index, middle) AND Exacerbation of symptoms at night AND No persistent hypoaesthesia	Subjective (mild) or Objective (moderate) sensory impairment in the correct distribution AND Subjective (mild) or Objective (moderate) weakness in the thumb/loss of coordination	Persistent paraesthesia in the correct distribution AND Persistent numbness and weakness in the correct distribution AND Daily symptoms with frequent night waking		Reduced vibration and 2-point discrimination AND Objective thenar muscle weakness AND Thenar muscle wasting (visible)	
➤ Blood test is only needed if the history and examination suggests a specific secondary cause eg. hypothyroidism, rheumatoid arthritis.		<ul style="list-style-type: none"> ○ Patient information ○ Wrist splint at night (12 weeks; with review after 6 weeks where necessary) 				<ul style="list-style-type: none"> ○ REFER to 2ndry Care ○ Patient information ○ Wrist splint at night ○ NCS ONLY if diagnosis in doubt 	
MANAGEMENT	STEP 1 <i>0 weeks</i>	Corticosteroid (CSC) injection - GP or Intermediate provider - 40mg methylprednisolone or 40mg triamcinolone acetonide with local anaesthetic				"Red Flags" – emergency referral to A&E <ul style="list-style-type: none"> • Fracture • Onset of tingling/numbness after injury • Nerve /other suspected tumour (Syngomyelia) 	
	STEP 2 <i>12 weeks</i>	No Benefit ↓	Sustained Improvement ↓	Temporary Improvement (significant symptom recurrence within 6 weeks) ↓		"Yellow Flags" – urgent speciality referral (< 2 wk) <ul style="list-style-type: none"> • Neurological diseases (MS, MND) • Active inflammatory joint diseases (eg. Gout, RA) • Peripheral limb ischaemia (eg thoracic outlet syndrome or Raynaud's disease) • Cervical nerve root entrapment 	
	STEP 3 <i>16+ weeks</i>	Nerve Conduction Study (at least 6 weeks after CSC inj ⁿ)	Repeat CSC injection every 6 months as necessary	REFER to 2ndry Care Assuring:		Remember Alternative Diagnosis: <ul style="list-style-type: none"> • Ulnar neuropathy (at the elbow - cubital tunnel syndrome, or wrist - canal of Guyon) • Peripheral neuropathy (all forms, diabetic neuropathy) • Trigger digits • Restless limb syndrome (Restless legs; may begin in arm) • De Quervain's tenosynovitis (and other tendonitides) • Writers cramp (focal dystonia of the forearm) 	
		Negative, Borderline or Mild NCS Conservative Mx/ Consider Alternative Dx	Moderate, or Severe NCS →	REFER to 2ndry Care Assuring:		↓ 1. Value of and need for surgery on the basis of symptoms 2. Patient willing to proceed to surgery	