## 6002 Elbow Cheat Sheet by bee.f (bee.f) via cheatography.com/180201/cs/42081/

#### Cubital tunnel syndrome (CTS)

Intro:	- Entrapment neuropathy caused by compression the median nerve in the carpal tunnel		
Aetiology     (risk factors):	<ul> <li>Typically in 40 - 60 yrs</li> <li>1-5% in general population</li> <li>F&gt;M (3:1)</li> <li>Risk factors: carpal tunnel modifications, fluid imbalance, neuropathic factors</li> <li>Examples: carpal dislocation/subluxation, radius #, arthritis, cysts/tumours, pregnancy/menopause, obesity/kidney failure/hypothyroidism, oral contraceptives/heart failure/diabetes/alcoholism, vitamin deficiency/toxicity</li> </ul>		
Pathophys- iology:	<ul> <li>Caused by various factors</li> <li>Involves compression &amp; traction affecting the median n.</li> <li>Compression leads to increased pressure, obstruction of venous outflow, localised edema, &amp; impaired microcirculation of the median n.</li> <li>Lesions on the myelin sheath &amp; axon cause inflammation &amp; loss of normal physiological functions of surrounding tissues</li> <li>Worsening structural integrity of the nerve exacerbates the dysfunctional environment</li> <li>Repeated traction &amp; wrist movements further injure the nerve</li> <li>Inflammation of any of the 9 flexor tendons passing through the carpal tunnel can compress the median nerve</li> <li>Sensory fibres are often affected before motor fibres, &amp; autonomic nerve fibres may also be affected</li> </ul>		



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Cubital tunnel syndrome (CTS	S) (cont)
<ul> <li>Clinical presentation:</li> </ul>	<ul> <li>Numbness, tingling, &amp; px in the thumb, 2nd, &amp; radial portions of the 4th digits</li> <li>Ssx worsen at night</li> <li>Variability in Ssx distribution from wrist to shoulder</li> <li>Initially intermittent, worsen w/ activities like driving, reading, painting</li> <li>Nighttime exacerbation, relieved by shacking hand/wrist</li> <li>Leads to permanent sensory loss, muscle weakness, &amp; clumsiness</li> <li>Challenges in tasks like opening doorknobs &amp; buttoning clothes</li> <li>Dominant hand usually affected first</li> </ul>
<ul> <li>Physical examination:</li> </ul>	<ul> <li>Sensory loss or weakness in median n. distribution</li> <li>Thenar eminence spared in sensory loss</li> <li>Diminished thumb ABD &amp; opposition strength, thenar eminence atrophy</li> <li>Tinel's sign</li> <li>Carpal tunnel compression test</li> <li>Phalen's test</li> <li>Median n. tension test</li> <li>Motor &amp; sensory testing</li> </ul>
Management:	<ul> <li>70-90% of mild to moderate cases respond to conservative care</li> <li>Some degree of recurrence, even after surgery</li> <li>Pts w/ CTS 2° to diabetes or wrist # have less favourable prognosis</li> <li>SMT / STW</li> <li>Nerve release</li> <li>Support brace at night</li> <li>Taping</li> </ul>
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Cubital tunnel syndrome (CTS) (cont)

• Ddx:	- Brachial plexopathy
	- Cx myofascial px
	- Cx spondylosis
	- Compartment syndrome
	- Ischemic stroke
	- Mononeuritis multiplex
	- Multiple sclerosis
	- Median neuropathy in the forearm
	- Motor neuron disease
	- Diabetic neuropathy
	- Cx radiculopathy
	- Overuse injury
	- Traumatic brachial plexopathy
	- Neuropathies
	- Tendonitis
	- Tenosynovitis
	- TOS
link text	
Extensor tendinopa	thu*
GREEN	
Intro:	- Also known as tennis elbow & lateral epicondylitis
	- Overuse injury
	- Occurs due to eccentric overload of the extensor carpi radialis brevis (ECRB) tendon
	- Results from repetitive strain during activities involving gripping, wrist EXT, radial deviation, & forearm supination
	- Common in tennis, squash, & badminton
<ul> <li>Aetiology (risk</li> </ul>	- Most common cause of elbow Ssx
factors):	- F=M
	- More common in pts >40 yrs

- Risk factors: smoking, obesity, repetitive movement for at least 2 h daily, & vigorous activity (loads >20kg)

- Pathophysiology: Condition: degenerative overuse process
  - involves: extensor carpi radialis brevis & common extensor tendon
  - Findings: granulation tissue, micro-rupture, abundance of fibroblasts, vascular hyperplasia, instructed collagen, lack of inflammatory cells

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Extensor tendinopathy*	(cont)	
Clinical presentation:	<ul> <li>Px w/ an insidious onset</li> <li>Overuse Hx is common, often w/o a specific traumatic event</li> <li>Px occurs 1-3 days after unaccustomed activities involving repeate</li> <li>Triggers: new equipment use or atypical workout circumstances</li> <li>Acute injuries or strains (e.g. lifting heavy objects, hard backhand s</li> <li>Acute injuries may lead to chronic overuse injury</li> <li>Px is usually located over the lateral elbow</li> <li>Worsens w/ activity, improves w/ rest</li> <li>Px severity varies, from mild discomfort during activities to severe p coffee)</li> </ul>	swing)
• Physical examin- ation:	<ul> <li>Point of max. tenderness usually over lateral epicondyle or slightly</li> <li>Discomfort may extend along the tendon, w/ tightness in connectin</li> <li>Px exacerbated by resisted wrist EXT, especially w/ EXT elbow &amp; p</li> <li>Resisted middle finger EXT w/ EXT elbow particularly painful, indic</li> <li>Absence of radicular Ssx or numbness/tingling</li> <li>Suggests alternative process such as radial n. entrapment if present</li> </ul>	ng muscle pronated forearm cating increased tendon stress
• Management:	<ul> <li>Spontaneous recovery within 1-2 yrs in 80-90%</li> <li>RICE</li> <li>NSAIDs</li> <li>Bracing</li> <li>Forearm stretching &amp; strengthening</li> <li>Progression to eccentric muscle strengthening of the common externative techniques if conservative care fails</li> <li>Surgery (if no improvement after 6-12 months)</li> </ul>	ensor tendon
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Extensor tendino	opathy* (cont)
• Ddx:	- Elbow bursitis
	- Cx radiculopathy
	- Posterolateral elbow plica
	- PLRI
	- Radial n. entrapment
	- Radial n. syndrome
	- Occult fracture
	- Capitellar osteochondritis dissecans
	- Triceps tendinitis
	- Radiocapitellar OA
	- Shingles
link text	
Flexor tendinopa	thy

GREEN	
• Intro:	<ul> <li>Also known as <i>medial epicondylitis, pronator tendinopathy, &amp; golfer's elbow</i></li> <li>Overload or overuse of the medial common flexor tendon</li> <li>Medial epicondyle is a common origin: pronator teres, flexor carpi radialis, palmar is longus, flexor digitorum superficialis, &amp; flexor carpi ulnaris</li> <li>Innervated by median n.</li> <li>Together, they form the conjoined FX tendon (3cm long)</li> <li>This tendon crosses the medial ulnohumeral joint &amp; acts as a 2° stabiliser parallel to the ulnar collateral ligament</li> </ul>
Aetiology (risk factors):	<ul> <li>90% of cases are not sports related</li> <li>F&gt;M</li> <li>45-64 yrs</li> <li>Athlete risk factors: training errors, improper technique, equipment, lack of strength, endurance, flexibility</li> <li>Occupation risk factors: heavy physical work, excessive repetition, high BMI, smoking, comorbidities, high psychosocial work demands</li> <li>General risk factors: smoking, overuse, dominant arm, DM 2</li> </ul>



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Flexor tendinopathy (cont)		
Pathophysiology:	<ul> <li>Caused by overuse tendinopathy from repetitive loading of wrist flexors &amp; pronator teres</li> <li>Leads to angiofibroblastic changes in the affected tendons</li> <li>Repetitive activity causes microtears in the tendon, resulting in tendonosis</li> <li>All muscles may be affected equally, except for palmaris longus</li> <li>Bony inflammation is not involved in this condition</li> <li>Microtears lead to collagen fibre remodelling &amp; increased mucoid ground substance</li> <li>Focal necrosis or calcification can develop in the tendon</li> <li>Collagen strength decreases over time, leading to increased fragility &amp; scar tissue formation</li> <li>Acute trauma can also cause medial epicondylitis from sudden violent muscle contractions, though less common</li> </ul>	
Clinical presentation:	<ul> <li>Hx of acute traumatic blow or repetitive elbow use, gripping, or valgus stress</li> <li>Aching px on the medial or ulnar side of the elbow, which radiates from the epicondyle into the forearm &amp; wrist</li> <li>Exacerbated: forearm motion, gripping, or throwing activities (overhead throwing, tennis, golf)</li> <li>Relief: rest</li> <li>Elbow stiffness, weakness, numbness, or tingling, 1° in an ulnar n. distribution</li> <li>Chronic cases may exhibit weakness w/ grip strength</li> <li>Ulnar n. Ssx in up to 20%</li> </ul>	
Physical examination:	<ul> <li>Acute cases: swelling, erythema, or warmth</li> <li>Chronic cases: less likely to show abnormalities</li> <li>Tenderness: 5-10mm distal &amp; anterior to medial epicondyle</li> <li>Pronator teres &amp; flexor carpi radialis involvement</li> <li>Px elicited by resisted pronation or FX of wrist</li> <li>Weakness in affected arm</li> <li>ROM typically normal</li> <li>Golfer's elbow test: px during manoeuvre</li> <li>Tinel's test: +ve for ulnar neuropathy</li> <li>Valgus stress test: stressing ulnar collateral ligament (especially throwing athletes)</li> </ul>	



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Flexor tending	ppathy (cont)		
• Manage-	- Good prognosis		
ment:	- RICE		
	- NSAIDs		
	- Conservative care: aims for full, painless motion at wrist & elbow		
	- Strength exercises w/ focus on eccentric activity		
	- Dry needling, shock wave therapy, etc.		
	- STW/SMT		
	- Night splinting		
	- Elbow taping		
	- Corticosteroid injections, US, platelet-rich plasma injections		
	- Surgery		
• Ddx:	- Neuropathy: C6 or C7 radiculogpthy, CTS, ulnar/median neuropathy, ulnar neuritis, anterior interosseous n. entrapment, tardy		
	ulnar n. palsy		
	- Ligamentous injury: ulnar / medial collateral ligament instability, sprain, tear		
	- Intra-articular issues: adhesive capsulitis, arthrofibrosis, loose bodies		
	- Osseous concerns: medial epicondyle avulsion fracture, osteophytes		
	- Myofascial difficulties: flexor / pronator strain		
	- Tendinopathy: lateral epicondylitis, triceps tendonitis		
	- Synovitis		
	- Valgus extension overload		
	- Herpes zoster (dermatological)		
link text			

Myositis os	sificans (MO)			
YELLOW				
		0 /	elf-limiting ossifying lesion that can affect a mon form of heterotrophic ossification (HO	5 51
Aetiology	(risk factors):	- M>F - 1° in youn	ng adults as result of trauma	
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Myositis ossificans (MO	) (cont)
Pathophysiology:	<ul> <li>Metaplasia of the intramuscular connective tissue resulting ion extra osseous bone formation (w/o inflammation)</li> <li>Histologically can appear similar to osteosarcoma, thus, can lead to inappropriate management</li> </ul>
• Staging:	3 stages:         Stage 1 (0-4 weeks):         - Following injury         - Inflammatory cascade that preceded ossification         - Calcification not apparent radiographically         Stage 2 (4-8 weeks):         - Calcification becomes radiographically seen         Stage 3:         - Peripheral bone formation         - Lamellar cortical & trabecular bone
<ul> <li>Clinical presentation:</li> </ul>	- Onset followed by trauma, repetitive trauma - Px, joint stiffness, oedema - Lesion causes mechanical irritation of bursa, tendon, joint
<ul> <li>Physical examin- ation:</li> </ul>	- Px durance longer than of a sprain/strain - Decreased ROM
Management:	<ul> <li>Up to 70% of cases are asymptomatic</li> <li>Prognosis good after surgery</li> <li>Very little than can be done to accelerate the resorptive process (i.e. process of removing bone from the bruised region)</li> <li>Rest from aggravating activities</li> <li>Implementation of gentle px-free ROM exercises</li> <li>Surgical resection of mature bone once it has fully matured</li> <li>Can take 12-18 months after initial presentation</li> <li>Surgery only if there will be improvement in function as demonstrated by mobility, transfers, hygiene, &amp; ADLs</li> </ul>
• Ddx:	- Osteosarcoma
link text	

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Olecranon bursitis / Mine	er's elbow
YELLOW	
• Intro:	<ul> <li>Inflammation of the synovial bursa</li> <li>Susceptible to trauma &amp; infection due to superficial location, limited vascularity</li> </ul>
<ul> <li>Aetiology (risk factors):</li> </ul>	<ul> <li>M&gt;F</li> <li>30-60 yrs</li> <li>Underlying inflammatory conditions: RA, psoriatic arthritis, gout, etc</li> <li>Chronic medical conditions: diabetes, alcoholism, HIV</li> <li>Infection usually occurs through a transcutaneous route due to poor vascularity, often from direct inoculation via mild trauma</li> </ul>
Pathophysiology:	<ul> <li>Inciting events (trauma or infectious), trigger reactive inflammation in the bursa</li> <li>Leads to the extravasation of protein &amp; synovial type fluid into the affected bursa</li> <li>Consequence is the development of a pronounced round swelling characteristic of this condition</li> <li>Trauma causes bleeding within bursa &amp; release of inflammatory mediators, increasing recurrence risk</li> </ul>
Clinical presentation:	<ul> <li>Swelling over the olecranon process</li> <li>Initially, doesn't restrict elbow movement, setting it apart from swelling within the joint</li> <li>Swelling can progress &amp; eventually limit elbow movement</li> <li>Characteristic appearance is round or "golf ball" shaped due to fluid confinement within the bursa</li> </ul>
Physical examin- ation:	<ul> <li>Caused by infection shows signs of erythema &amp; tenderness</li> <li>Systemic Ssx like fever &amp; malaise can accompany infectious bursitis</li> <li>Fever is present in around 70% of septic bursitis cases, but its absence doesn't rule out infection entirely</li> </ul>



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Management:	- Low risk of progression to systemic infection from infectious bursitis in healthy pt
	Non-infective:
	- Self-limiting & managed conservatively
	- RICE
	- NSAIDs
	- Elastic bandage application
	- Corticosteroid injections (risk of iatrogenic infection)
	- Bursectomy considered for related episodes, especially w/ underlying bone spur
	- Recurrent non-infective bursitis w/o a spur may benefit from surgical bursa excision
	Infective:
	- Requires antibiotics
	- Aspiration & drainage are recommended
	- Oral antibiotics for 7 days (longer courses don't reduce recurrence)
	- Bursectomy may be necessary
	- Systemic infection warrants further evaluation & appropriate treatment for sepsis or septic shock
• Ddx:	- Cutaneous abscess
	- Hematoma
	- Olecranon fracture
	- Cellulitis
	- Tendon rupture
	- Septic arthritis
	- Gouty arthritis
	- Neoplasm
	- Ligament rupture
link text	

### GREEN • Intro:

- Compression neuropathy of the posterior interosseous n. (branch of radial n.)
  - Passes through radial tunnel (Arcade of Frohse)
  - Results in paresis & paralysis of the finger & thumb EXT
  - Preserves wrist EXT due to innervation patterns

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Posterior inteross	Posterior interosseous nerve entrapment (cont)				
Aetiology (risk factors):	<ul> <li>M&gt;F (2:1)</li> <li>Dominant arm</li> <li>Trauma or space-occupying lesions (RA, brachial neuritis, spontaneous compression)</li> <li>Most common site: Arcade of Frohse (proximal edge of supinator)</li> <li>Also repetitive pronation/supination</li> </ul>				
Pathophys- iology:	<ul> <li>Nerve injury severity varies based on compression severity</li> <li>3 categories of nerve injury:</li> <li>Neuropraxia: mildest form, demyelination, from compression/traction, slows conduction, may cause muscle weakness, -ve</li> <li>Tinel sign, recovery prognosis: days to 12 weeks</li> <li>Axonotmesis: demyelination &amp; axon damage, muscle weakness, may have +ve Tinel sign</li> <li>Neurotmesis: severe, nerve completely transected, no nerve conduction, surgical correction needed for recovery</li> </ul>				
Clinical presentation:	- Hx of trauma or fracture of the extremity - Can be present in Monteggia fractures or radial head fracture-dislocations				
Physical     examination:	- Weakness w/ finger EXT - When asked to make a fist, wrist may deviate <b>radially</b> due to extensor carpi ulna's weakness - Depending on injury severity, may be +ve Tinel sign				
Management:	<ul> <li>Pretty good prognosis</li> <li>Pts continue to improve months after surgery</li> <li>Athletes may return to play once full ROM &amp; strength</li> <li>Conservative: <ul> <li>Splinting</li> <li>NSAIDs</li> <li>Physical therapy</li> <li>Activity modification</li> </ul> </li> <li>Surgical: <ul> <li>Unsuccessful conservative therapy for at least 3 months</li> </ul> </li> </ul>				
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#### Posterior interosseous nerve entrapment (cont)

Radial tunnel syndrome: same sites of compression, however presents w/ forearm px w/o motor weakness

Ddx: - Wartenberg syndrome: compression of superficial sensory radial n., no motor weakness, may present w/ paresthesia / numbness / ill-

defined px over the dorsal radial aspect of hand

link text

#### Pronator teres syndrome (PTS) GREEN · Intro: - Compression of the median n. by the pronator teres muscle in the forearm - Innervation: C6-7 - Rare & often overlooked & mistaken for CTS · Aetiology (risk factors): - M>F - Especially common in pts w/ additional fibrous bands - PTS can occur due to: local trauma, compression w/ Schwanoma (rare tumour), & pts undergoing anticoagulation therapy & renal dialysis · Pathophys-Quick & repetitive grasping or pronation movements can lead to PT muscle hypertrophy & entrapment of the median n. iology: Clinical - Px in volar forearm region presentation: - Weakness may be significant - Muscle wasting rare, but mild weakness in: flexor pollicis longus (FPL), abductor pollicis brevis (APB), some involvement of flexor digitorum profundus (FDP) in 2nd & 3rd digits - PT commonly spared due to early innervation Physical - Reproduction: resisted pronation + FX of elbow examination: - +ve Tinel sign over proximal edge of PT - +ve Phalen test over PT muscle in 50%

Variable sensory loss:

- Involving palm or mimicking CTS

- Including thenar eminence, thumb, index, middle, & ring fingers

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Pronator teres syndrome (PTS) (cont)		
Management:	- Good prognosis	
	- Light duty in 3-6 weeks (conservative care speeds up)	
	- Surgical cases: light duty in 6-8 weeks, regular duty in 10-12 weeks	
	- Rest, activity modification, NSAIDs, physical therapy	
	- Pts may usually continue work unless prominent motor or sensory deficits are present	
	- Surgery considered after fail of >6 weeks of conservative care	
• Ddx:	- CTS	
	- AIN s.	
	- Ligament entrapments	
	- MN entrapment of hypertrophied lacertus fibrosis (bicipital aponeurosis)	
	- Brachial plexus injury	
	- Cx radiculopathy	
link text		

Pulled elbow		
RED		
• Intro:	<ul> <li>Also Nursemaid elbow or radial head subluxation</li> <li>Common injury in young children</li> <li>Radial head subluxation caused by axial traction resulting in px &amp; inability to supinate forearm</li> </ul>	
<ul> <li>Aetiology (risk factors):</li> </ul>	<ul> <li>1-4 yrs</li> <li>20% of upper extremity injuries in children</li> <li>Less common in &gt;5 yrs because annular ligament strengthens w/ age</li> <li>F&gt;M</li> <li>Recurrence rate: 20%</li> </ul>	
Pathophysiology:	<ul> <li>Trauma: axial traction on pronated forearm + elbow EXT</li> <li>Lifted/swung by arms or pulling child's arm to prevent fall</li> <li>Displacement of the annular ligament leads to discomfort &amp; px during arm movement</li> <li>Longitudinal traction (e.g. baby rolling onto their arm) can also lead to radial head subluxation (&lt;6 months old)</li> </ul>	



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Pulled elbow (cont)	
Clinical presen- tation:	<ul> <li>Child's behaviour:</li> <li>Often nervous &amp; may support affected arm protectively w/ opposite hand</li> <li>Arm held in complete or almost complete EXT + pronation</li> <li>Refusal to move the arm &amp; becoming upset during examination</li> <li>Generally no px unless the arm is manipulated</li> <li>Caregivers may report:</li> <li>Arm pulled upwards by the wrist or swung around by the arms prior to Ssx onset</li> <li>No known trauma or awareness of the incident causing the injury</li> <li>Onset of Ssx after FOOSH (less common)</li> </ul>
• Physical examin- ation:	<ul> <li>Tenderness at radial head</li> <li>Resistance to forearm pronation, supination, FX, &amp; EXT</li> <li>Absence of ecchymosis, erythema, edema, or signs of trauma</li> <li>Intact circulation, sensation, &amp; motor ability distal to the elbow</li> <li>Possible lack of cooperation w/ the exam</li> <li>Spontaneous reduction: radial head may spontaneously reduce before exam, reassurance to parents after exam is usually sufficient</li> </ul>
Management:	Closed reduction (brief but potentially painful): <ul> <li>Px resolves post-reduction (within minutes)</li> <li>Techniques for reduction: hyperpronation (preferred) &amp; supination/FX</li> <li>Arm function should be regained post-reduction; imaging if not</li> <li>Referral to orthopaedic surgeon if arm not used post-reduction</li> <li>No splinting or sling required</li> </ul> Post-treatment instructions: <ul> <li>Avoid activities causing axial traction to arm to prevent recurrence</li> <li>Excellent prognosis post-reduction</li> </ul>

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Pulled elbow (cont)	
• Ddx:	- Elbow fracture

- Fractured wrist
- Green stick fractureHand injury
- Monteggia fracture
- Sypracondylar fracture
- Soft tissue damage of hand

link text

Medial collateral ligament sprain*		
• Intro:	- Stretching or tearing of ligaments, due to abnormal or excessive forces applied to a joint - Classified in 3 grades	
Grade 1:	- Mild stretching of the ligament complex w/o joint instability	
Grade 2:	- Partial rupture of the ligament complex w/o joint instability	
Grade 3:	- Complete rupture of the ligament complex w/ instability of the joint	
Causes of MCL injury:	<ul> <li>Overstretched in a single incident, e.g. unnatural bending or twisting of elbow</li> <li>Repetitive ligament stretching, e.g. overhead throwing activities</li> </ul>	
Outcome of MCL injury:	- Increased valgus stress	
Prognosis:	<ul> <li>- Grade 1-2: 2-6 weeks &amp; high-end sports in 8 weeks</li> <li>- Grade 3 ruptures: significantly longer rehabilitation depending on whether surgical intervention was required &amp; how much damage is present</li> </ul>	
link text		

link text

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