

Common Hand & Wrist Conditions for GPs

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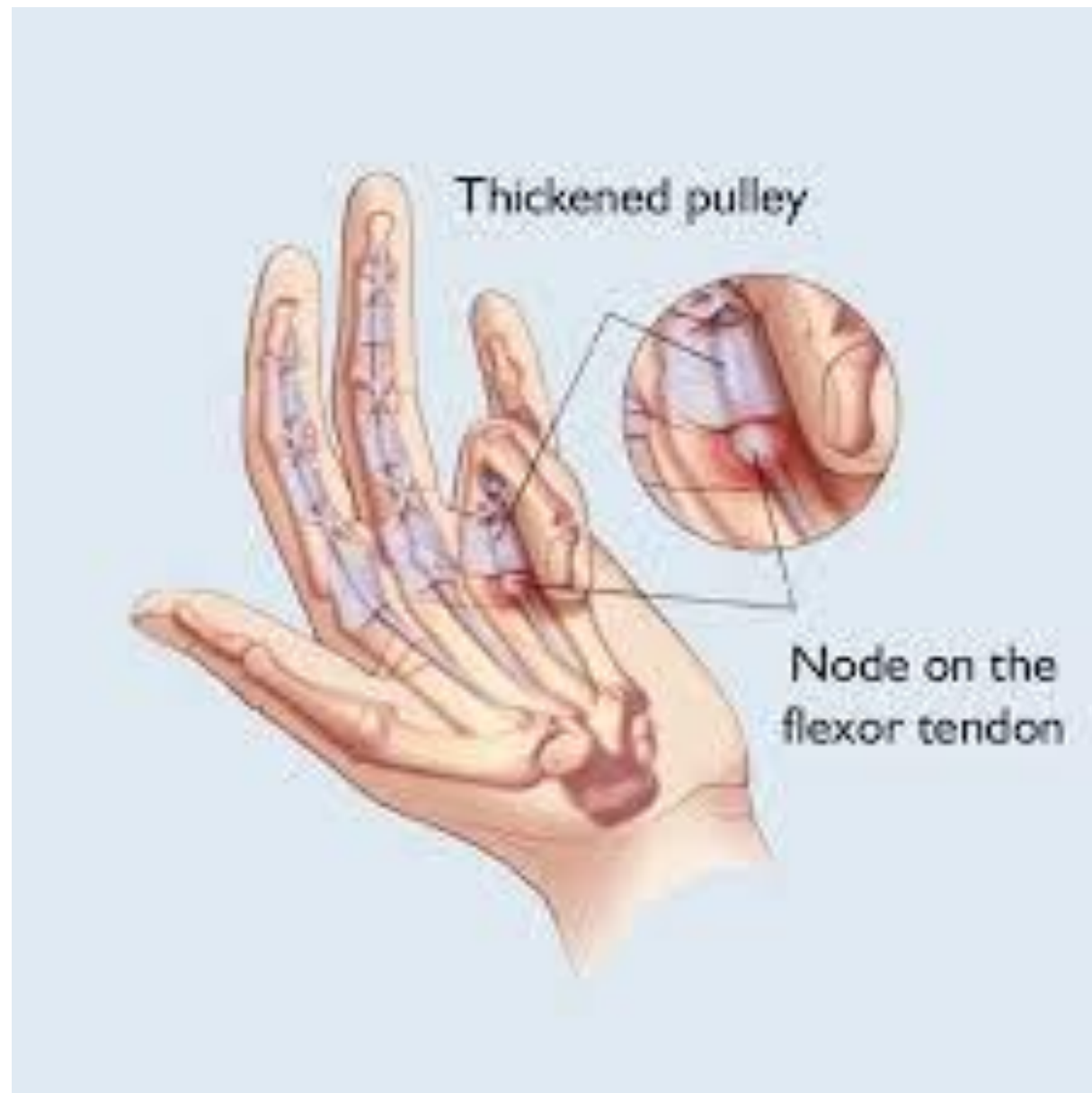
MBBS, BSc, FRCS (Tr & Orth), Br Dip Hand Surg



Objectives



Trigger Finger





Useful Facts

- Often misdiagnosed
 - PIPJ problem, dislocation, dupuytren's disease, dystonia, hysteria
- Secondary trigger more likely to fail non-operative management.
 - Diabetes, Gout, CRF, RA
- Paediatric trigger finger is very different!





History and Examination

- History
 - Pain / Catching / Stuck finger
 - Idiopathic vs associated
- Examination
 - Feel for catching / lump at A1 pulley
 - Test each finger in isolation
 - Multiple triggering common





Investigations and local treatment

- Investigations
 - None routinely recommended
- Local Treatment
 - Splinting
 - Reasonable but less effective than steroid.
 - Numerous regimes
 - Steroid injection
 - 1ml lignocaine (0.1 ml bicarb) + soluble steroid (20-40mg)
 - Up to 3 inj spaced 1 month apart





When to refer and what patients should expect

- Referral
 - Diagnostic uncertainty / no response to steroid injection / for injection
 - Paediatric trigger fingers
- Expectations
 - Injection /s
 - Local anaesthetic day case surgical release



Base of thumb arthritis





Useful Facts

- Normal part of ageing
- Despite many efforts we haven't found a better treatment in the last 60 years
- Up to 40% chance of co-existing carpal tunnel syndrome





History and Examination

- History

- C/O throb / burn / ache (non specific)
- ADLs
- Night pain

- Examination

- Prominent base / Z-thumb
- Grind test / Distraction test
- CTS provocative tests
- Modified Eichhoff test





Investigations and local treatment

- Investigations
 - X-Ray
- Local Treatment
 - Advice & simple analgesia (regularly)
 - HT & Splints
 - Injections





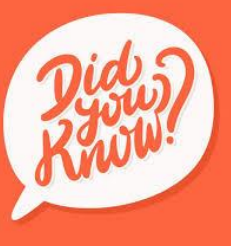
When to refer and what patients should expect

- Referral
 - Diagnostic uncertainty
 - Referral for HT / injection
 - Pain/stiffness/loss of function significantly impacting quality of life and refractory to non-surgical treatment
- Expectations
 - Operations only considered after exhausting all other options
 - Many different operations - what is right for 1 patient may not be for another



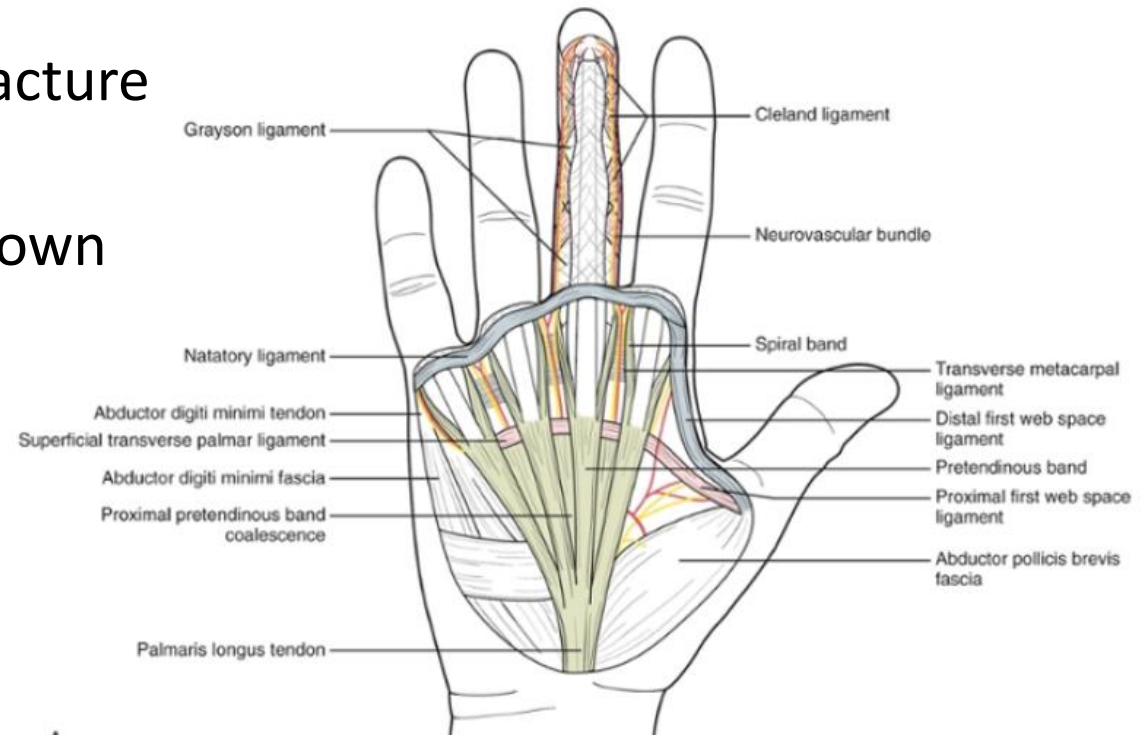
Dupuytren's Disease





Useful Facts

- Genetic + common
- It does not involve tendons
- Many unsolved issues
 1. Core biology represents wound contracture
 2. Anatomy is distorted
 3. Optimum timing of treatment is unknown
- Chronic but not always progressive





History and Examination

- History
 - How aggressive?
 - Progression / ectopic sites
 - **Functional impact**
- Examination
 - Pitting / Nodules / Cords / Contractures





Investigations and local treatment

- Investigations
 - None
- Local Treatment
 - Education



When to refer and what patients should expect

- Referral
 - Contracture / Loss of function
 - ? Pain
- Expectations
 - Interventions;
 - Break the cord
 - Cut out the cord
 - Cut out the cord and skin



Wrist Ganglia





Useful Facts

- Benign, common, mucin filled cyst
- Symptoms are due to a pressure effect
- 80% will resolve in 1 yr in children
- 50% will spontaneously resolve within 2 years in adults



History and Examination

- History

- ICE
- Fluctuating lump / bump
- Pain on forced wrist extension
- Pain on prolonged writing

- Examination

- Firm, well demarcated lesion
- No attachments to skin or underlying structures
- Trans-illuminates
- Pulsatile?





Investigations and local treatment

- Investigations
 - Investigations not required
- Local Treatment
 - Reassurance!
 - Aspiration (no kenalog)



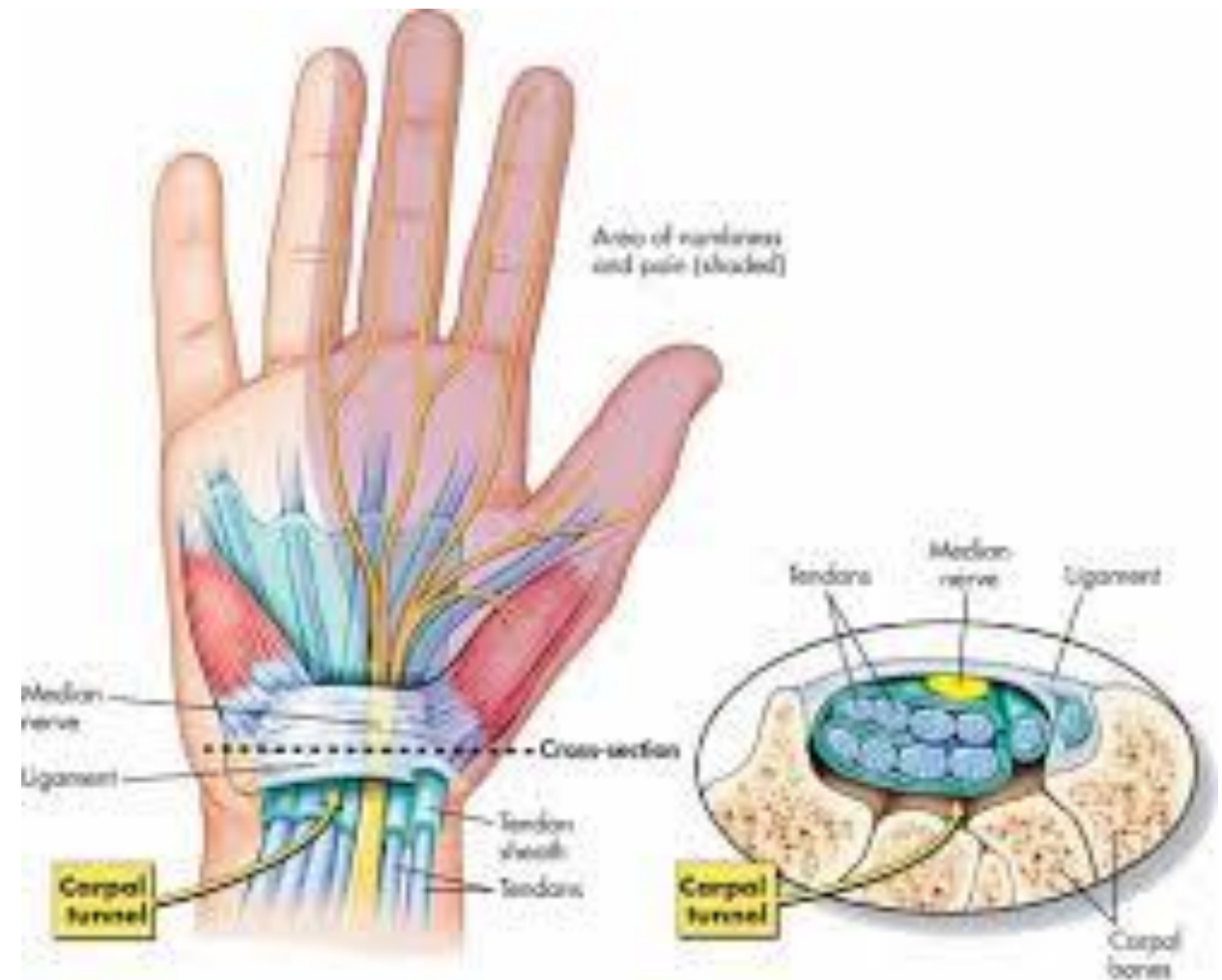


When to refer and what patients should expect

- Referral
 - Pain > cosmesis > further advice
- Expectations
 - Open / arthroscopic excision
 - 10% recurrence rate
 - Scar



Carpal Tunnel Syndrome





Useful Facts

- Extends from forearm to hand
- Nocturnal paraesthesia almost pathognomonic
- Classically occur during fixed wrist activities
- Can predict successes of non-op MX
 - >50yr, >10/12, constant paraesthesia, APB atrophy, +ve provoc signs

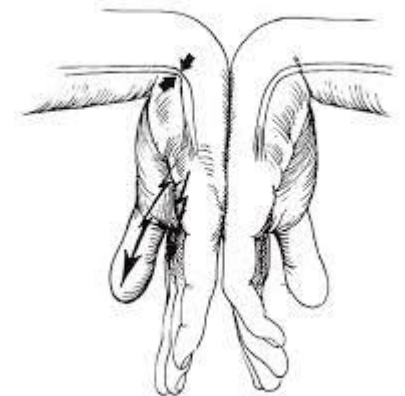


History and Examination

- History
 - Consider known (treatable) causes
 - DM, B12, Thy
- Examination
 - Provocation Tests
 - 1 min, symptoms reproduced in appropriate neural distribution.
 - 1 nerve per test
 - CTS – flex or extend and apply pressure just proximal to CT
 - Prox Entrapment – extended elbow, full supination, pressure over PT
 - Cub tunnel – elbow flexion, neutral wrist and forearm, pressure prox to CT
 - Rad Sens nerve – WF, Pro, UD, pressure over BR
 - TOS = arms above head – symp in hands
 - Spurlings – Extend and lat flex neck, apply axial compression - 'spray = positive



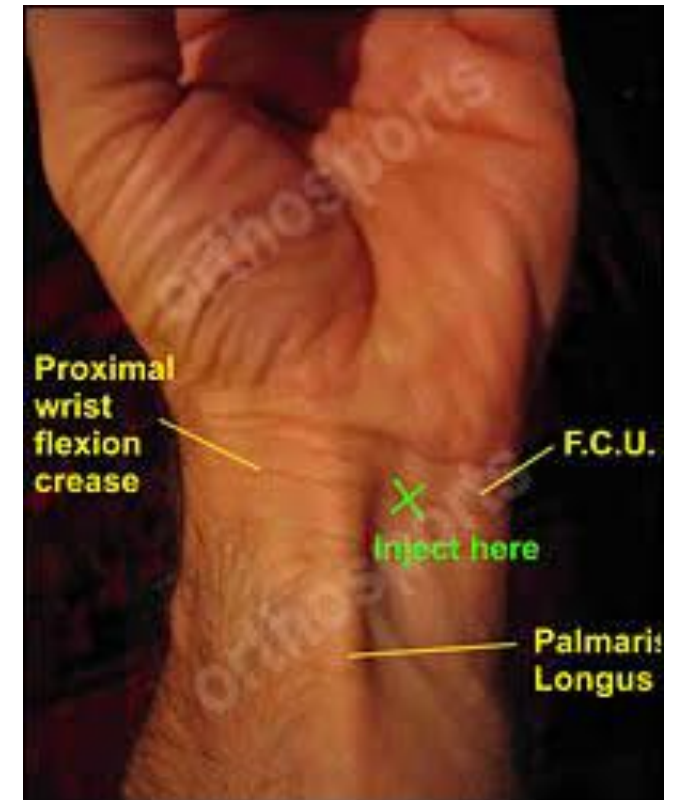
Phalen's test





Investigations & Local Treatment

- Investigations
 - NCS
 - No need to perform for suspected carpal tunnel.
 - Always in cubital tunnel syndrome.
- Local Treatment
 - Splint
 - Must be neutral
 - Anti-inflamm
 - Varied reports – I don't use
 - Steroid
 - Well proven, temporary, diagnostic, predictive
 - Nerve Gliding Exercises
 - Mild to mod





When to refer and what patients should expect

- Refer
 - Permanent symptoms, loss of muscle, numbness, > 6months
 - 2+ RF
- Expectations
 - Possible further tests
 - Decompression
 - LA, 5-10 min, Return to driving 2 weeks, Manual work 1-3 weeks.



DIPJ Ganglion (mucous cyst)





Useful Facts

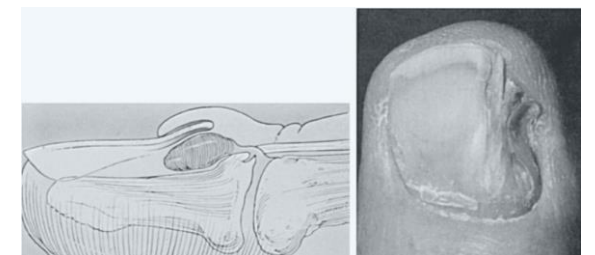
- Benign cyst arising from the DIPJ typically at the site of an osteophyte
 - External sign of underlying arthritis
- No.1 cause of atraumatic nail abnormalities
- No absolute requirement for treatment





History and Examination

- History
 - Cosmesis
 - Pain – superficial v deep
 - Discharge / Infection / Inflammation
- Examination
 - Heberden nodes
 - Sinus
 - Nail abnormality





Investigations and local treatment

- Investigations
 - None routinely recommended
 - XR?
- Local Treatment
 - Reassure and educate
 - Treat infections with oral antibiotics
 - Aspiration?



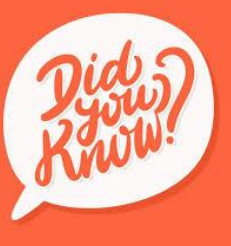
When to refer and what patients should expect

- Referral
 - Pain, recurrent rupture / infection, concerning nail deformity, unacceptable cosmesis
- Expectations
 - Local anaesthetic procedure
 - Discussion of treatment of underlying OA (injections/fusion)



De Quervains Tenosynovitis





Useful Facts

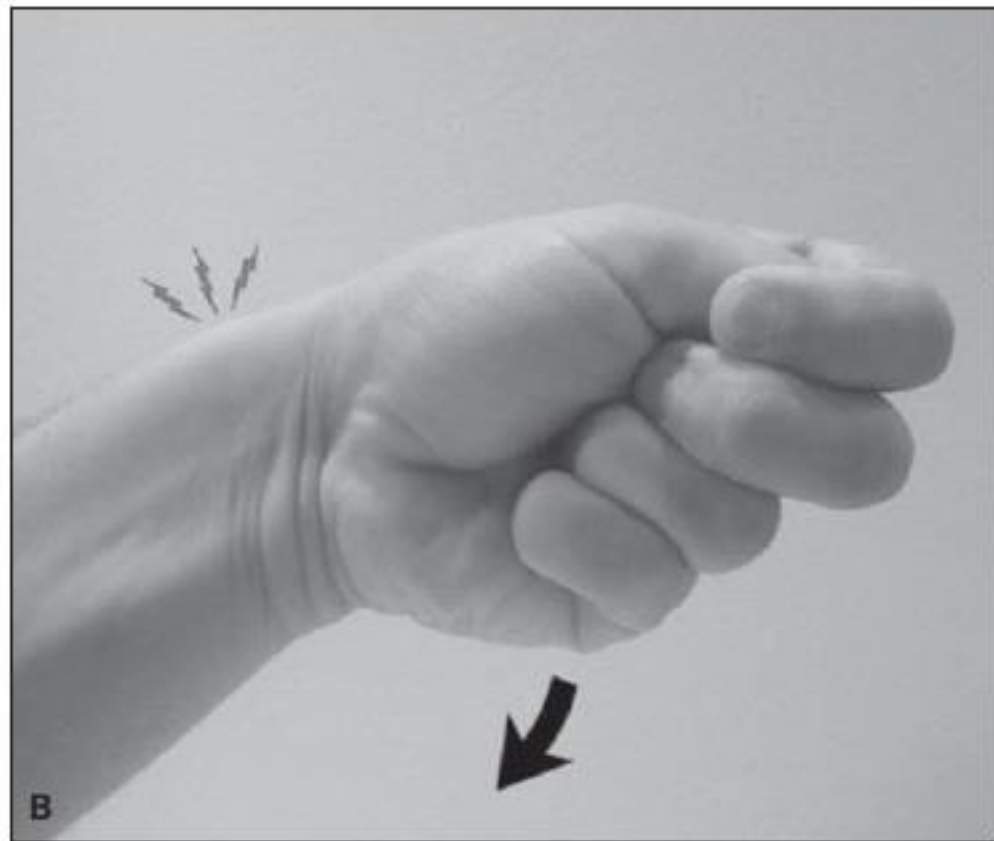
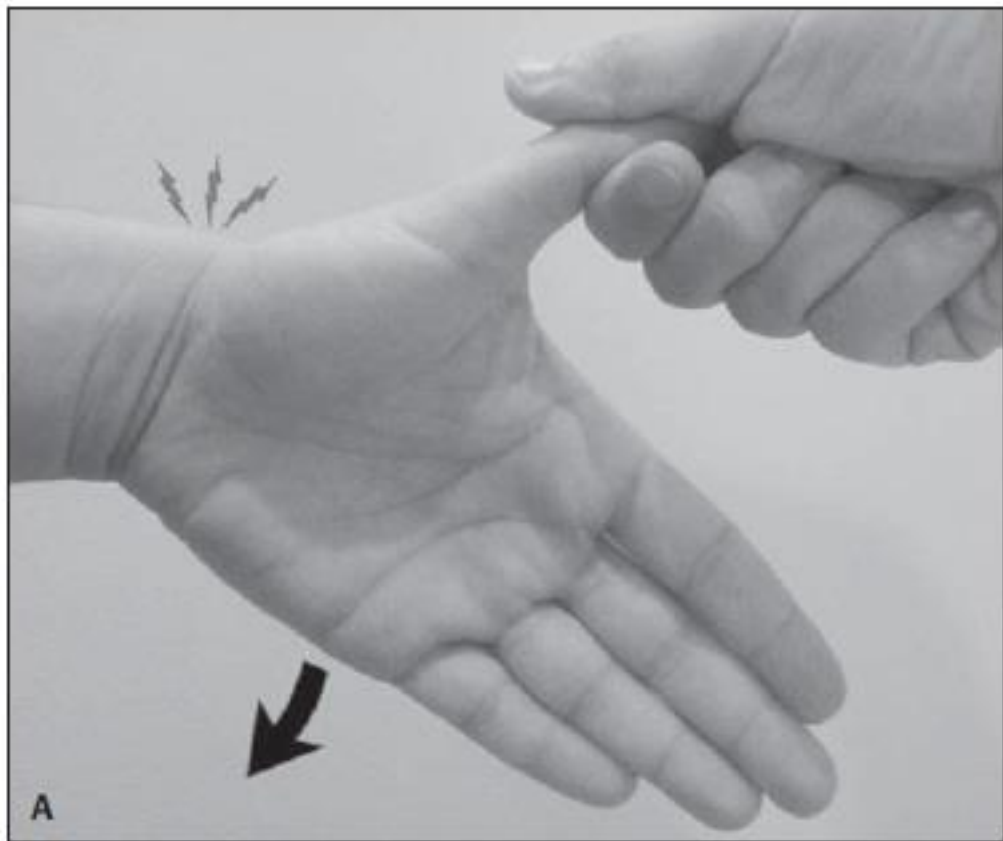
- '1893 - Washerwomens Sprain'
- Discovered by a Thyroid expert!
- 'Thumb pain'
 - Intersection syndrome
 - Trigger thumb
 - Base of thumb arthritis
- Likely a self limiting condition





History and Examination

- History
 - Weeks to months of mechanical thumb pain +/- swelling
- Examination
 - Focal tenderness & swelling prox to radial styloid
 - Positive provocative tests
 - Consider differentials





Investigations and local treatment

- Investigations
 - None recommended
 - USS / XR
- Local Treatment
 - NSAIDs
 - Splint
 - Steroid





When to refer and what patients should expect

- Referral
 - Injection
 - Failure of injection
- Expectations
 - Injections or surgery
 - Rarely a chronic problem

Small Joint Arthritis



Useful Facts

- OA affects the hands more than any other location in the body
- Handedness does not influence development of arthritis of the hand
- Now we can replace most joints



History and Examination

- History
 - Pain, stiffness, swelling

- Examination
 - MCPJ
 - PIPJ
 - DIPJ

- Always check tendons



Investigations and local treatment

- Investigations
 - 3 view hand XR + dedicated finger views
- Local Treatment
 - No rush
 - Analgesia (topical / oral)
 - Hand therapy



When to refer and what patients should expect

- Referral
 - Injection
 - Failure of non-operative treatments
- Expectations
 - Injections or surgery
 - Joint replacement v fusion

Cubital Tunnel Syndrome



Useful Facts

- Common
- Normally idiopathic
- Space within the cubital tunnel decreases 55% during elbow flexion



History and Examination

- History
 - Paraesthesia / numbness ring & little finger
 - Medical elbow / forearm ache
- Examination
- Flexion compression > Tinel
- Clawing / Wasting / +ve Froments & Wartenberg escape



Investigations and local treatment

- Investigations
- Local Treatment



When to refer and what patients should expect

- Referral
- Expectations

Intersection Syndrome



Useful Facts

- Rowers & weightlifters
- Repetitive extension activities
- Muscle bellies of 1st EC tendons crossing tendons of 2nd comp



History and Examination

- History
 - Pain & swelling on activity
- Examination
 - Crepitus on active thumb extension with resisted wrist extension



Investigations and local treatment

- Investigations
 - MRI to confirm when unclear
- Local Treatment
 - Activity modification / rest
 - Splint



When to refer and what patients should expect

- Referral
 - Injection
 - Failure of non-operative treatments
- Expectations
 - Injections or surgery

Questions?



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A stylized blue icon of a hand with fingers spread, positioned to the right of the text.