

FINGER	AMPUTATIONS
III (GLIC	TETH CITTURE



- No exposed bone or nail bed involvement
- Zone I injuries treat conservatively with serial dressing changes alone
 - Cover wound with non-adherent dressing
 - Instruct patient to soak fingertip in antibacterial soap-added water for 10min QD and then reapply non-adherent dressing Follow up with primary care provider in 2d

 - Most will have epithelialization in approximately 1 month[1].
- · Zone II injuries
 - · Consider hand surgery consult
- · Zone III injuries
- Consult hand surgery if available
- May require distal phalanx amputation
- Consider treating like Zone II

NAIL BED LACERATION

- · Partial Avulsion
- Gently lift nail but do not remove

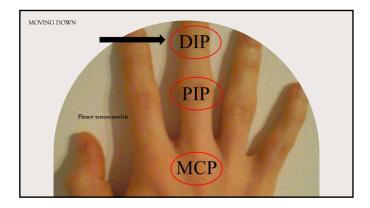


- · Complete avulsion
 - Repair nailbed laceration
 - Replace nail into nailfold and suture into place
 - If no nail- non-adherent, petroleum containing gauze into nail fold (also can use aluminum wrapping of
 - suture package)

 Leave in place for 2-3 weeks
 - Wound should be re-evaluated in 3-5 days

FINGERTIP INFECTIONS





FLEXOR TENOSYNOVITIS

Tenosynovitis is a broadly defined as inflammation of a tendon and its respective synovial sheath. This inflammation can derive from a great number of distinct processes, including idiopathic, infectious, and inflammatory causes.



pain, redness, and swelling of the affected digit over the period of hours to days.

palmar-side puncture wound or laceration. Infection may also begin in the adjacent soft tissues and subsequently spread to the sheath and its contents.

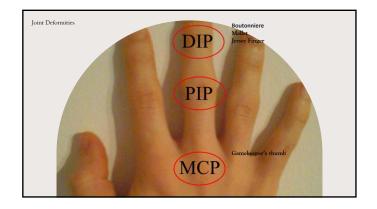
Rare, gonococcal infection.

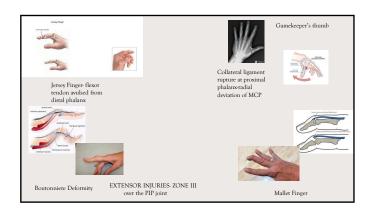
Physical examination of the affected digit may reveal some or all of Kanavel's four cardinal signs of flexor tendon sheath infection, $^{\{1,2\}}$ which are as follows:

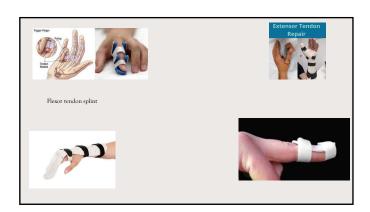
•Finger held in slight flexion

•Uniform swelling of the digit •Tenderness along the flexor tendon sheath

•Pain with passive extension of the digit







FINGER DISLOCATIONS

- Proximal Interphalangeal Dislocation (PIP)
- Metacrapophalingeal dislocation (MCP)
 Traction alone ya convert simple MCP dislocation may convert it to a complex dislocation
 Dorsal dislocation
 File the wrist to relax the fleor tendon
 Hypercrated the joint
 Apply pressure over dorsum of proximal phalanx in distal and volar direction

- Volar dislocation
 Rare, will likely need open reduction
 If attempting closed reduction, push finger into the MCP joint and then hyperflex joint
 After hyperflexion, pull traction and extend finger, using thumbs to guide proximal finger into place



TO FINISH OFF THE DISLOCATIONS-CARPOMETACARPAL



- Also known as CMC joint
- Uncommon due to strong ligaments and insertions of wrist flexors/extensors

- Traction and flexion with simultaneous longitudinal pressure on metacarpal base



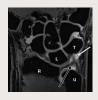


CARPAL INJURIES

SCAPHOID FRACTURE

- - · Obtain both standard and scaphoid views
 - Up to 10-25% of initial radiographs fail to detect a fracture
- Refer to a hand surgeon may lead to osteonecrosis if not properly recognized/treated
- Repeat Wrist and scaphoid X-rays should be obtained 2-3 weeks after initial injury
- Immobilization may be required for at least 6-12 wks.- thumb spica splint





LUNOTRIQUETRAL LIGAMENT INSTABILITY

- Background

 Ulnar equivalent of the scapholunate ligament injury

 May be confused with other causes of ulnar-sided wrist pain

 Results from FOOSH with impact on hypothenar eminence

- Evaluation
 X-ray (note: imaging is often normal with this injury)
 PA: Widening of the triquetrolunate joint space
 Listeral volar intercalated segment instability is seen
 Management
 Ulnar gutter splint/short arm posterior mold
 Refer to orthopedic surgery

SPECIAL INJURIES





6	

HIGH PRESSURE INJURIES

- Surgical emergency (Amputation rates are as high as 30%)
 Occurs with grease, paint, and fuel guns; usually injected into non-dominant hand
 Most important factor is type of injected material
 Clean water and air lower risk
 Paint produces large, early inflammatory response with high rate of amputation
 Grease causes small inflammatory response with lower rate of amputation

- Grease causes small inflammatory response with lower rate of amputation
 Clinical Facture.
 Most frequently in hand/lingers
 Beering appearance of small injection site in immediate post-injection period is misleading
 With time digit becomes edematous, pale, and severely tender to palpation



· Emergent ortho/hand surgeon consult

- Early surgical decompression and debridement
- Increased rate of amputation if >10 hours to OR

- Targeted at broad spectrum coverage. Traditionally a 3rd generation cephalosporins
- Digital blocks are contraindicated as wound already under high pressure

THANK YOU AND GOOD-BYE

