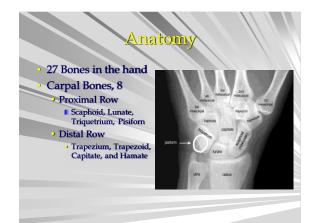
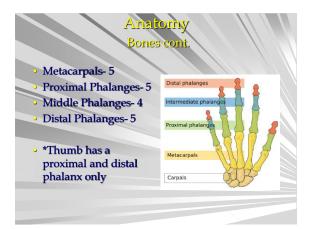


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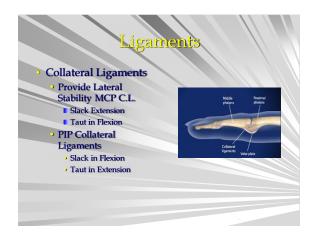






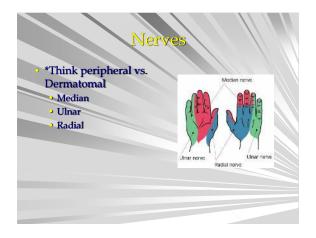




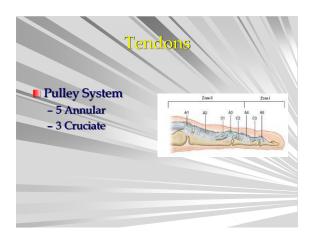




Ligamer	t <mark>i3 con</mark> t.
 Thumb Ulnar collateral ligament Skier's Thumb 	
 Gamekeepers Thumb 	













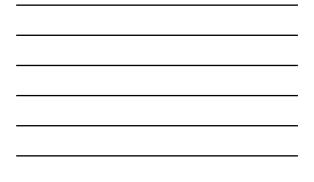










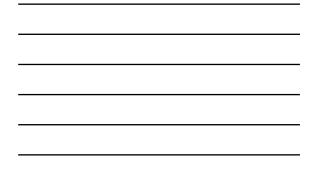




















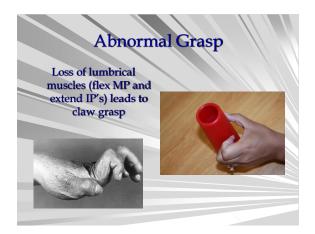






Complex and coordinated action between the extrinsic flexors and intrinsic muscles is what allows for a functional grasp.





Evaluation & Documentation

Know Precautions Before Starting!

For some diagnoses, one small move could undo the surgical repair or healing tissue.

(mallet finger, PIP dislocation)





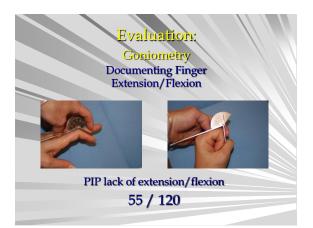


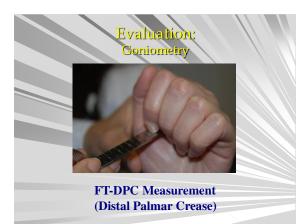






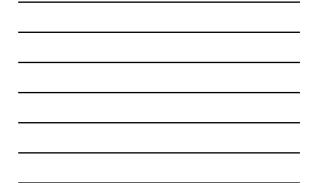






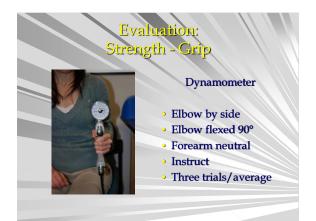


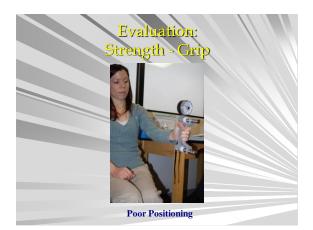
















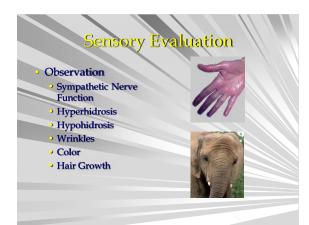


Scar Tissue cont. • Move • Push the skin around the scar • Evaluate Muscles/Tendons • Dermotenodesis • Gently pull scar in opposite direction of

- Gently pull scar in opposite direction of tendon glide
- Does the patient report that it is more difficult to move?
- Evaluation of tendon glide



Sensory Evaluation
• Subjective
 Light Touch Screen Compare left and right Compare different nerve distribution same
hand

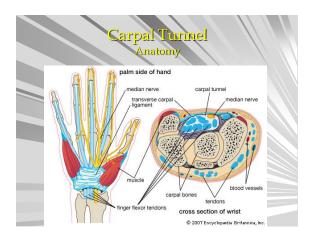


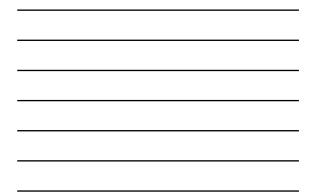


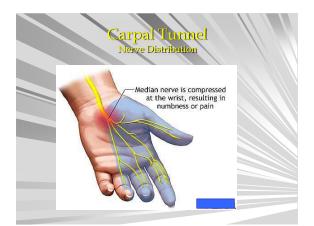




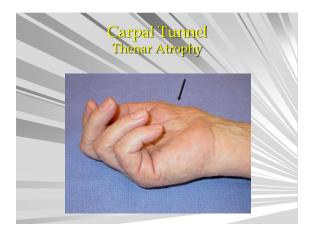












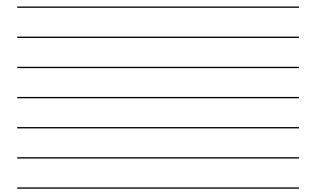
















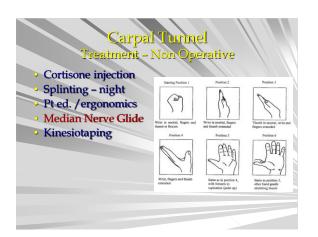




Lowest pressure in Carpal Tunnel is with wrist in 2°of flexion and 1° of ulnar deviation

Weiss et al, 1995















Carpal Tunnel Treatment - Post Operative

3 days post-op

- Remove bulky dressing
- Gentle AROM wrist and fingers
- Median Nerve Glides
- Edema control
- Pt education/precautions
- Use hand for light activities



Carpal Turnel Treatment - Post Operative Days post-op Sutures removed Scar massage/pressure pad Desensitization AROM - isolated tendon giding 4x/day Median Nerve Glides Resume light ADL's







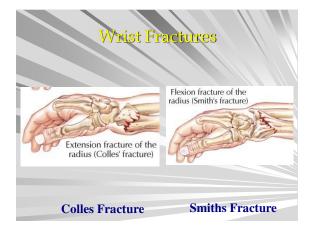


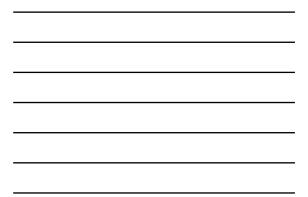


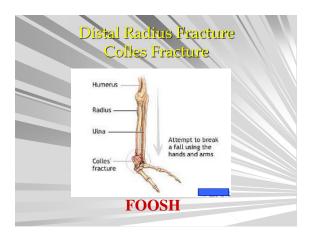


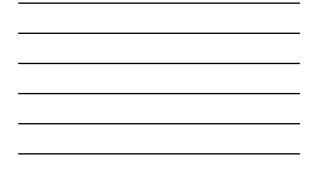




















Closed Reduction Distal Radius Fracture

GOALS - Middle Phase 6-8 weeks post fx

- Reduce edema
- Full finger motion: passive and active
- Maintain proximal motion
- Regain A/PROM to all wrist and forearm ranges
- Wean off removable splint by 8 weeks (if directed by MD)























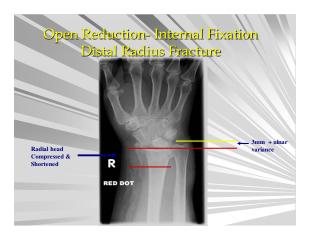














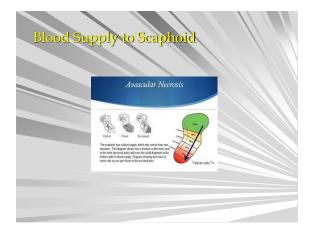


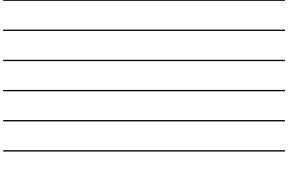


- Removable splint at 4 weeks
- Begin gentle AROM of the wrist sooner (only at direction of surgeon)
- Expectation of good recovery of wrist AROM
- Strengthening and dynamic splinting same schedule as closed











 Circulation enter bone distal to proximal

 Blood supply often torn to proximal fragment

Non-union

Avascular Necrosis





Scaphoic Fractures Immobilization Comparison

Closed

- 0-6 wks thumb spica cast above elbow
- 6-12 wks short arm thumb spica splint
- 12-18 wks removable thumb spica splint
- ORIF • 0-4wks thumb spica cast above elbow
- 4-8 wks short arm
- thumb spica cast
- 8-10 wks removable thumb spica splint

Scaphoid Fractures

- Goals similar to radius fracture, different time frame
- Expect less stiffness in wrist post immob primarily because of age group
- Injury often occurs in young athletes and you may be pressured by parents to progress faster than recommended.
- No weight bearing on wrists until cleared by MD.
- Follow Doctors Instructions!

Scaphoid Fractures

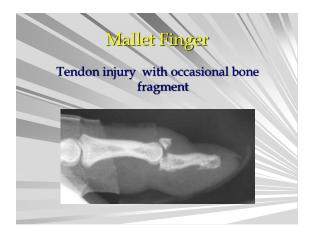
Expect stiffness of thumb, address with ROM exercises including coordination activities

Don't start resistance until MD OK's













Mallet Finger

Important

At NO point during the healing process is the DIP joint allowed to drop into flexion. If it does, the splinting time line will start over from day one.











Mallet Finger

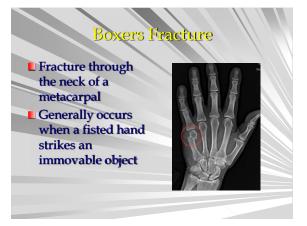
- Closely monitor extensor lag and resume splinting if it occurs
- Patient education of utmost importance
- See weekly early on to check splint and skin condition















Treatment-Metacarpal Fracture

-Thermal Modalities

Ice, heat when appropriate

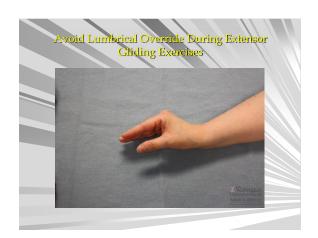
- -Tendon gliding exercises (TGE)
- To improve glide of extensor tendon through scar

Helps to hold MCP passively flexed

TGE with traction on scar



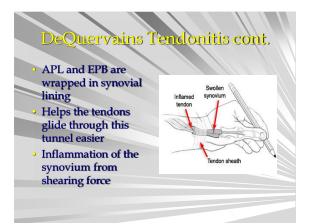




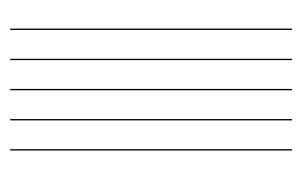


Treatment- Metacarpal Fractures AROM PROM Careful not to stretch out tendon distal to scar adherence (coban) Watch for PIP flexion contractures Watch for MCP extension contractures Scar Massage HOME PROGRAM Monitor, Monitor ROM

















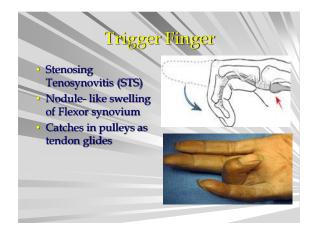


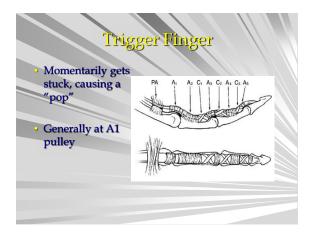




Return to full activity by 6 weeks post op











Trigger Finger- Symptoms

- Can be painful or painless
- Can palpate lump or nodule around Metacarpal joint
- Nodule glides with flexor tendon
- Patient feels symptoms mid-finger















