

Disclosures

- Consultant: Bioclinica
- Book Royalties: Elsevier
- Contractor: POCUS PRO
- Advisory Board: Philips
- Not relevant to this talk





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Gamekeeper's Thumb

- Injury of the ulnar collateral ligament (UCL) of the thumb MCP
 - Historically, chronic injury in Scottish gamekeepers - Frequently, due to acute MCP joint hyperabduction
 - Skier's thumb: up to 86% of thumb base injuries











































Ultrasound Pitfalls: Gamekeeper's thumb

- Not scanning in correct plane
 Use bone contours for guidance
- Misinterpretation of adductor aponeurosis as intact fibers
 - Passively flex interphalangeal joint
- Not recognizing a chronic full-thickness tear

 Dynamic valgus stress imaging
- Not recognizing Stener lesion:
 Round area proximal to joint



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Adductor Pollicis Aponeurosis

- Superficial to UCL of 1st MCP
- Examine long axis to UCL with passive 1st IP joint flexion/extension
- Commonly injury with Gamekeeper's thumb

 Hypoechoic and thickened
- Isolated injury: uncommon
 - Diffusely hypoechoic thickened



Long Axis to UCL

1st MCP Joint: RCL Tear

- Varus stress injury
- Abnormal increased signal on MRI
- Hypoechoic on ultrasoundVolar and ulnar subluxation
- of proximal phalanx

 25% with UCL tears will also have RCL tear



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Take-home Points

- 1st MCP UCL injuries associated with RCL and volar injuries
- Ultrasound is 100% accurate in diagnosis of Stener lesion
- Stener: variable appearance
- Ultrasound: dynamic evaluation:
 - IP flexion: abductor aponeurosis
 - Valgus stress: chronic tear

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