Management of Gamekeeper`s Thumb

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Anatomy

- Dorsal Aponeurosis
- Adductor Aponeurosis
- Ulnar Collateral Ligament
Ulnar Collateral Ligament
Proper
Accessory

FIG. 2
When the joint is fully extended the collateral ligament proper is relaxed whereas the accessory ligament is taut; at maximum flexion the reverse is true.
1 = collateral ligament proper, 2 = accessory collateral ligament, 3 and 4 = palmar ligaments, 5 = sesamoid bone.
Kinematics

- Flexion
- Extension
- Abduction
- Adduction
- Rotation
Kinematics

- Flexion
- Osseous Anatomy
- Ulnar Collateral Ligament
- Adductor Aponeurosis
Kinematics

- Extension
- Osseous Anatomy
- Accessory Collateral Ligament
Kinematics

Flexion : range 10-100
Average: 75

Extension : range 0-90
Average: 20

Abduction/Adduction: 0-20
Average: 10
Ulnar Collateral Ligament Injury

Game Keeper's Thumb

Skier's Thumb
Ulnar Collateral Ligament

- Gamekeeper`'s Thumb
  (C.S.campbell J.B.J.S(Br) 1955)
Gamekeeper`s Thumb

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Ulnar Collateral Ligament

- Skier`s Thumb
Ulnar Collateral Ligament

- Skier`s Thumb
Skier`s Thumb

- Common injury
- 2nd most common
- 6-17%
Skier`s Thumb

• Mechanism of Injury
• Abduction
• Hyperextension
Skier`s Thumb

- Ski pole
- Strap
Skier`s Thumb

- Ski Glove
Skier`s Thumb

- Periarticular Fracture
- Avulsion
- Shear
Skier`s Thumb

- Avulsion Fracture
- Jupitar
  Clin.Orthop.1987
- Louise & Palmer
Stener Lesion

- Adductor Aponeurosis
- Ulnar collateral Ligament
SKIER'S THUMB

• Stener Lesion
Stener Lesion

- Swelling dorsoulnar MCP Joint
SKIER`S THUMB

- Stener`s Lesion
Diagnosis

- History
- Examination
- Investigation
Diagnosis

• Investigations

• Plain X-ray
Diagnosis

• Investigations

• Stress Radiography
Investigations

- Arthrography
Investigations

- Partial Rupture
Investigations

- Complete Rupture
Investigations

- Ultrasound
- M.R.I
- Arthroscopy
Treatment
Treatment

• Acute Injuries

• Chronic injuries
Acute Injuries

- Partial Tears
- Avulsion Fractures
- Complete Tears
Non Surgical

- Partial Tears
- Undisplaced Avulsion Fractures
Surgical

- Displaced Avulsion Fracture
- Complete Rupture (Stener's Lesion)
Chronic Injuries

- Partial Rupture
- Complete Rupture
Chronic Injury
Alldred Repair
Chronic Injury

- Sakellarides Operation
- Extensor Pollicis Brevis
Chronic Injury

- Smith Repair
Chronic Injury
Neviaser Repair
Chronic Injury

- Neviaser Repair
Chronic Injury

- Neviaser Repair
THANK YOU