

•	ROM Assessment
	Abnormal Passive Range of Motion End-Feels
End-Feel	Description
Soft	Occurs earlier or later in a joint anticipated to have a firm/hard end-feel.
Firm	Occurs earlier or later in a joint anticipated to have a soft end-feel.
Hard	Occurs earlier or later in a joint anticipated to have a soft end-feel.
Spasm	Joint motion is halted by involuntary or voluntary muscle contraction.
Empty	No end feel exists due to pain.

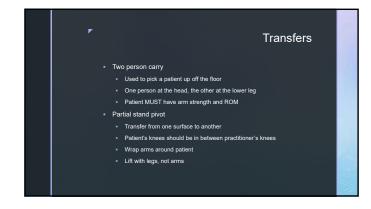
۴		MMT Assessment			
Grading Systems for Manual Muscle Tests					
Verbal	Numerical	Clinical Findings			
Normal	5/5	Patient can resist maximal pressure; unable to break resistance.			
Good	4/5	Patient can resist moderate pressure.			
Fair	3/5	Patient can move the limb against gravity.			
Poor	2/5	Patient can move the limb in a gravity-eliminated position.			
Trace	1/5	Patient cannot produce movement, but contraction is visible or palpable.			
Zero	0/5	No contraction visible or palpable.			
2010	0/0				

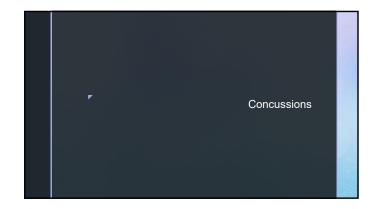
Crutches

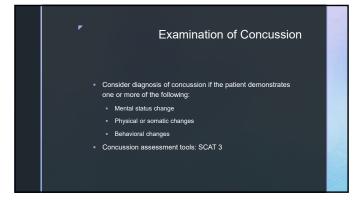
- Handgrip at wrist crease
- 20-30deg bend in elbow
- 2-3 finger width between axillary pad and a
- Position crutches at a 45deg angle from foot
- Slings

- Firm against elbow
- Shoulder relaxed, not elevated or depressed
- Wrist should be supported within sling









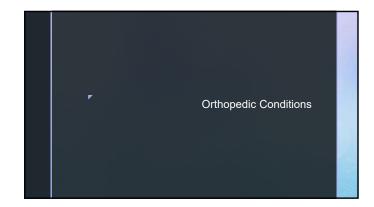
۲	Concussion S	Signs and Symptoms	
Area		Signs and Symptoms	
Brain		Amnesia Confusion Disorientation Irritability Incoordination Dizziness Headache	
Ocula	r	Blurred vision Photophobia Nystagmus	
Ears		Tinnitus Dizziness	
Stoma	ach	Nausea Vomiting	
Syste	mic	Unusually fatigued	

Behavioral Signs and Symptoms					
Sign	Behavior				
Vacant Stare	Confused or blank expression				
Delayed Verbal and Motor Response	Slow to answer questions or follow directions				
Inability to Focus	Easily distracted, unable to complete tasks				
Disorientation	Walking in wrong direction, unaware of person, place and time				
Slurred or Incoherent Spee	Rambling, disjointed, incomprehensible speech				
Gross Incoordination	Stumbling, inability to walk straight				
Heightened Emotions	Distraught, crying, emotional responses out of proportion				
Memory Defects	Evident by retrograde/anterograde testing				

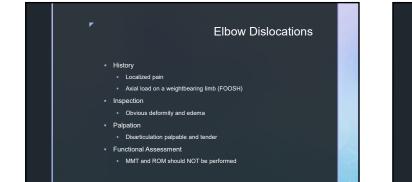
Provance et al.

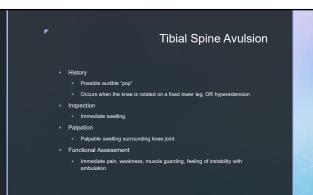
- Severity determined by nature of head injury, burden on the athlete, and duration of post-concussive symptoms.
- Cardinal signs include confusion and amnesia.
- Do NOT allow return to play/activity without complete resolution of symptoms.
- Monitor closely first 48 hours.
- Be mindful of accommodations.
- Must have physician clearance to return to all activity.

Broglio et al. Construction Construction



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Ankle Sprains

Third Degree (Severe)

Complete tear of ligament

 Swelling and bruising present immediately

First Degree (Mild)

- Involves stretching of the ligament
- Pain increases with mov
- Mild point tenderne
- Possible swelling
- Second Degree (Moderate)
 - Involves partial tearing of ligament
 - Pain with or without mo
 - Point tenderness present
 - Swelling and bruising present

Examination of Lateral Ankle Sprains

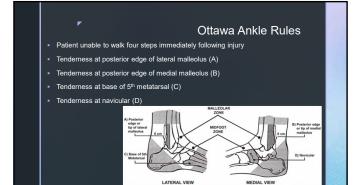
- History
 - Acute onset, possible audible "pop"
- Inspection
- Swelling, bruising
- Palpation
- Pain near lateral malleolus
- Functional Assessment
 - Weak and/or painful plantarflexion and inversion

Examination of Medial Ankle Sprains

- History
 - Acute onset, possible audible "pop"
- Inspection
 - Swelling, bruising
- Palpation
 - Pain near medial malleolus
- Functional Assessment
- Weak and/or painful plantarflexion and eversion







Ankle and Leg Fractures

- Inspection
- Palpation
- Functional Assessment
- Do NOT assess MMT or PROM if fracture is suspected

References

- Begasse de Dhaem, O et al. (2017). Post-traumatic headache: The use of the sport concussion assessment tool (SCAT-3) as a predictor of post-concussion recovery. The Journal of Headache and Pain, 18 (60), 1-9.
- Broglio, S. et al (2014). National athletic trainers' association position statement: Management of sport concussion. *Journal of Athletic Training*, 49 (2), 245-265.

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