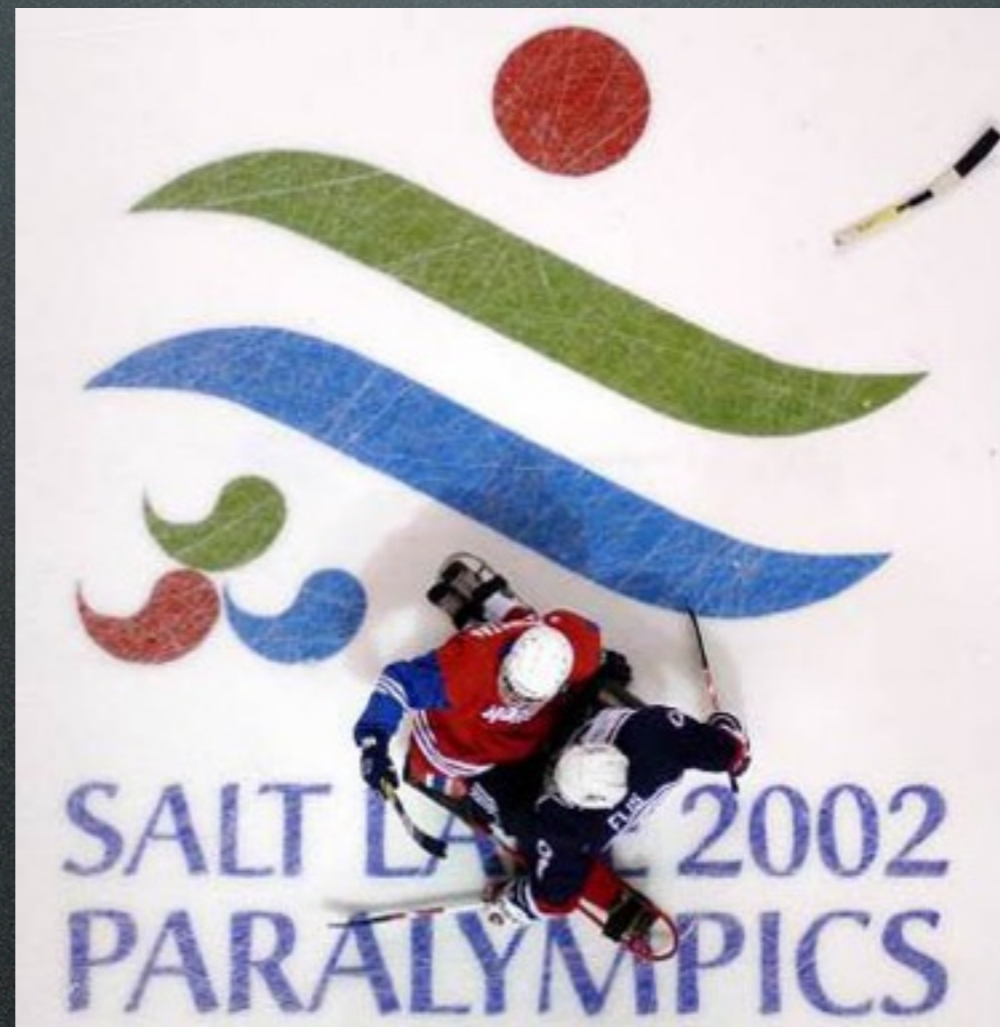


Injury Survey

From Salt Lake to Vancouver

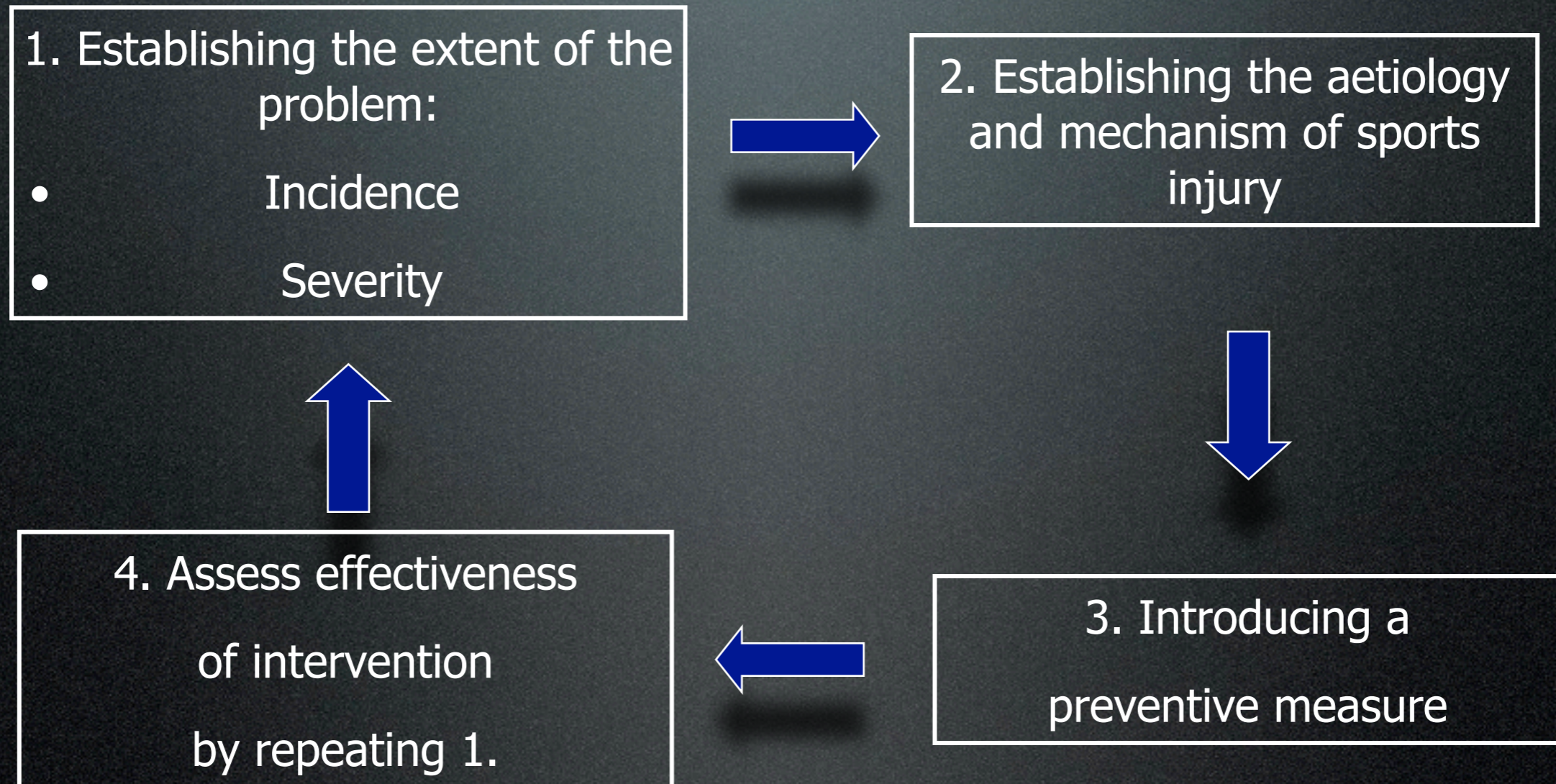


Dr Nick Webborn

2002 - 2010 Athletes

	2002	2006	2010
Athlete	416	474	505
Male	328	375	381
Female	88	99	124
Alpine	194	184	194
Nordic	134	131	141
Sledge Hockey	88	112	118
Curling	0	40	50

Sports Injury Prevention

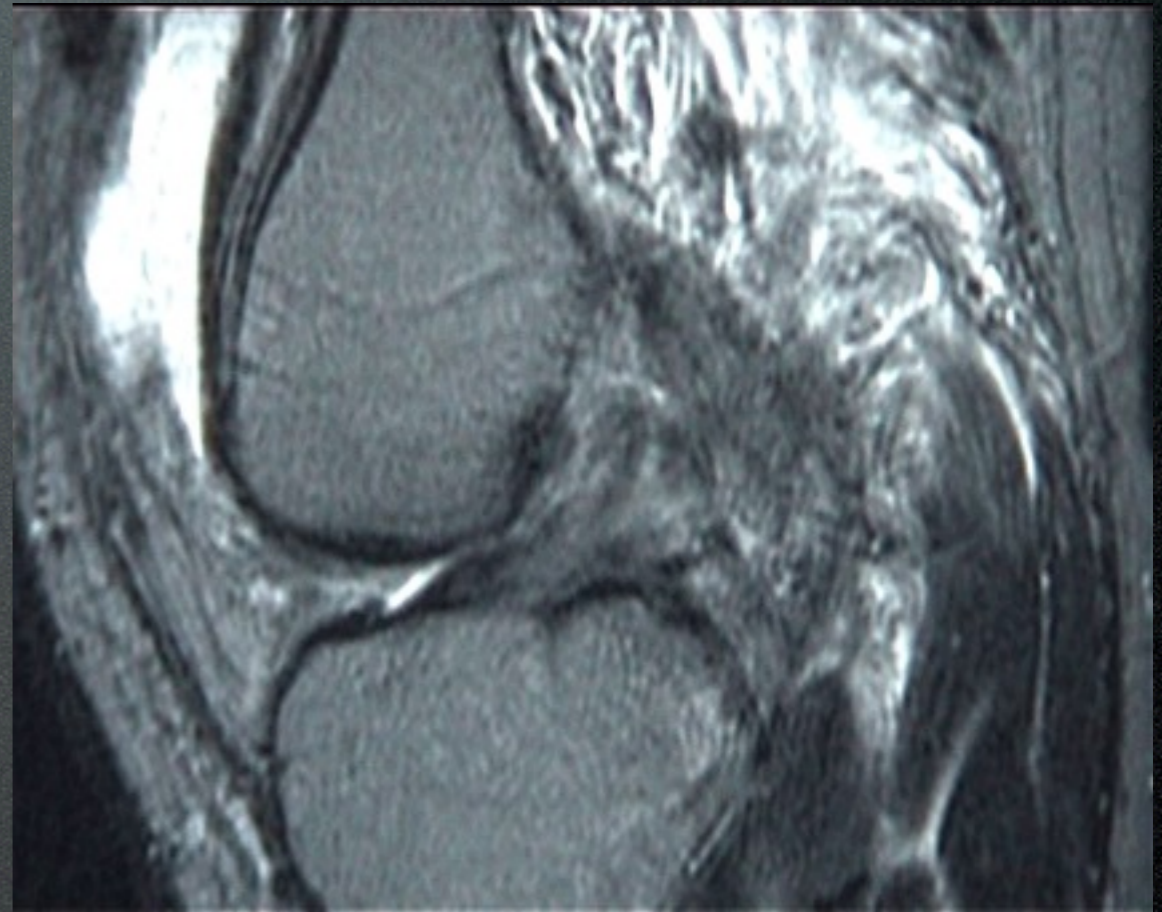


Injury Survey

- Commenced in 2002
- Approved by IPS Sports Science Committee, Ethical approval - Univ. of Brighton UK
- Aim to capture information on incidence, aetiology and mechanism of injury with a view to introducing preventive measures
- To look at the impact of equipment on injury

Injury Survey

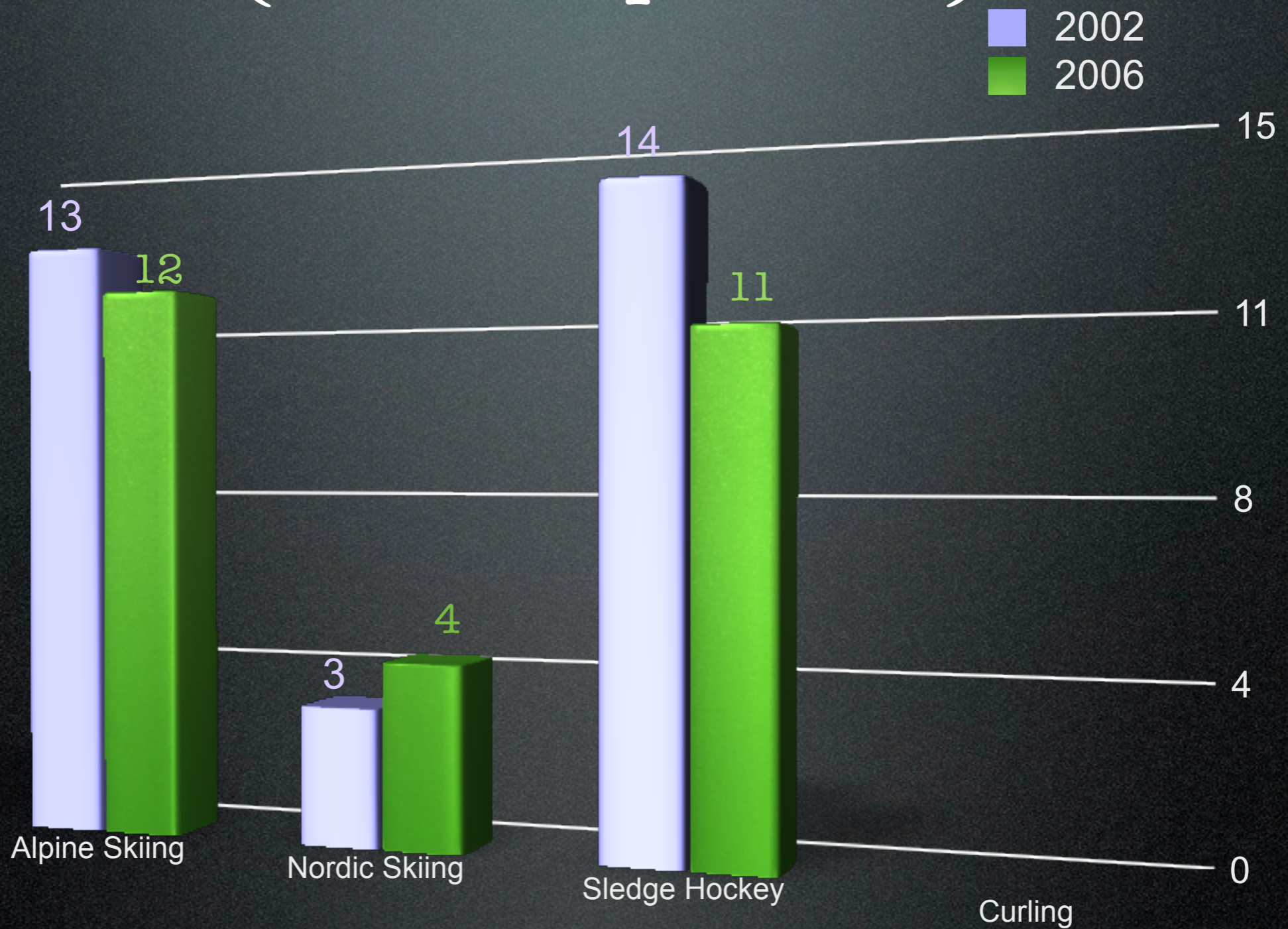
- Age, Gender, Country
- Sport, Position
- Classification
- Mechanisms of injury
- Diagnoses
- Imaging studies
- Equipment played a role in the injury
- Video analysis - NEW for 2010



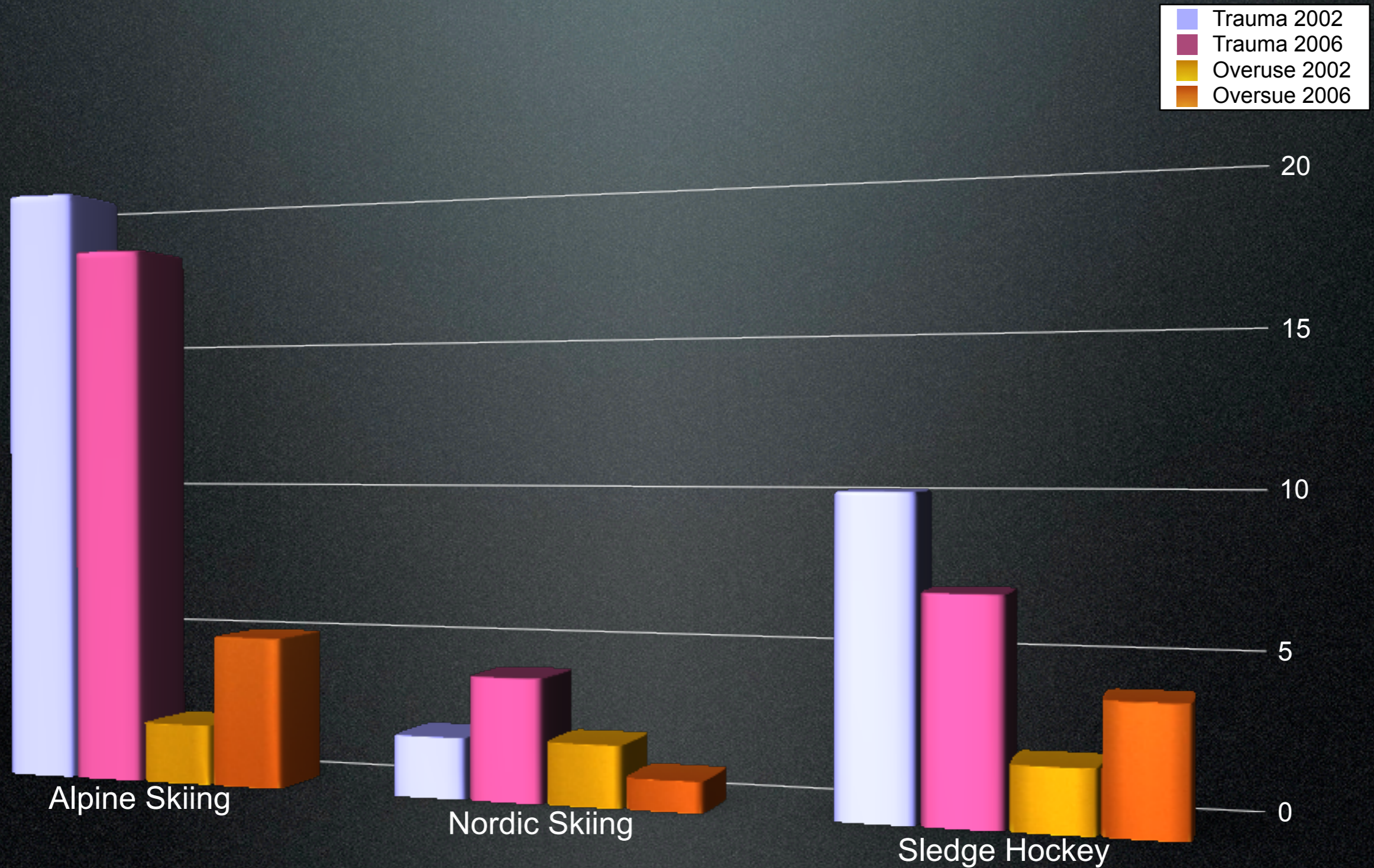
What have we learned
so far?

Injury Rate by Sport

(% of competitors)



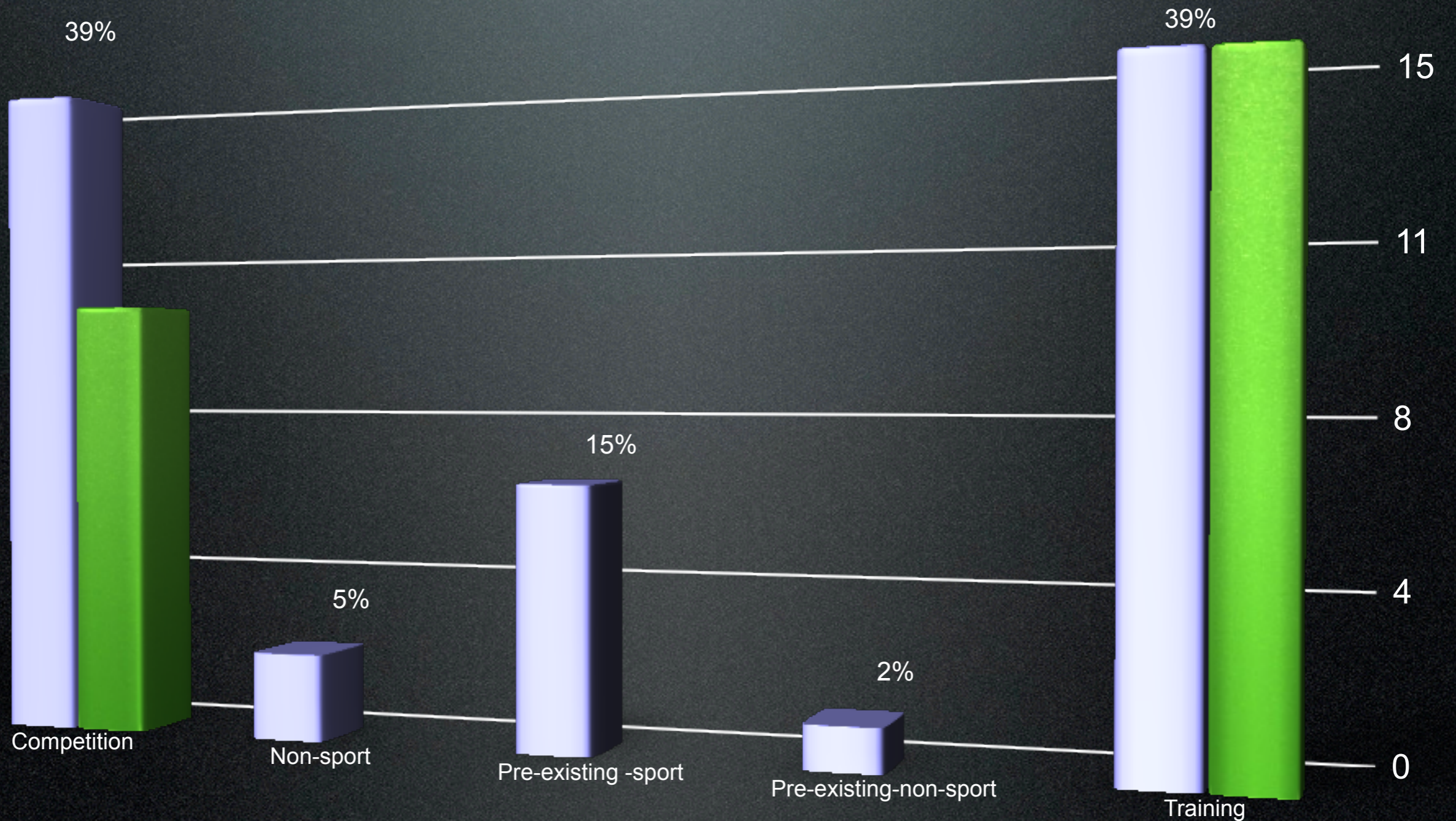
Acute Traumatic v Overuse Injuries by Sport



Injury Survey

Injury Onset by Activity

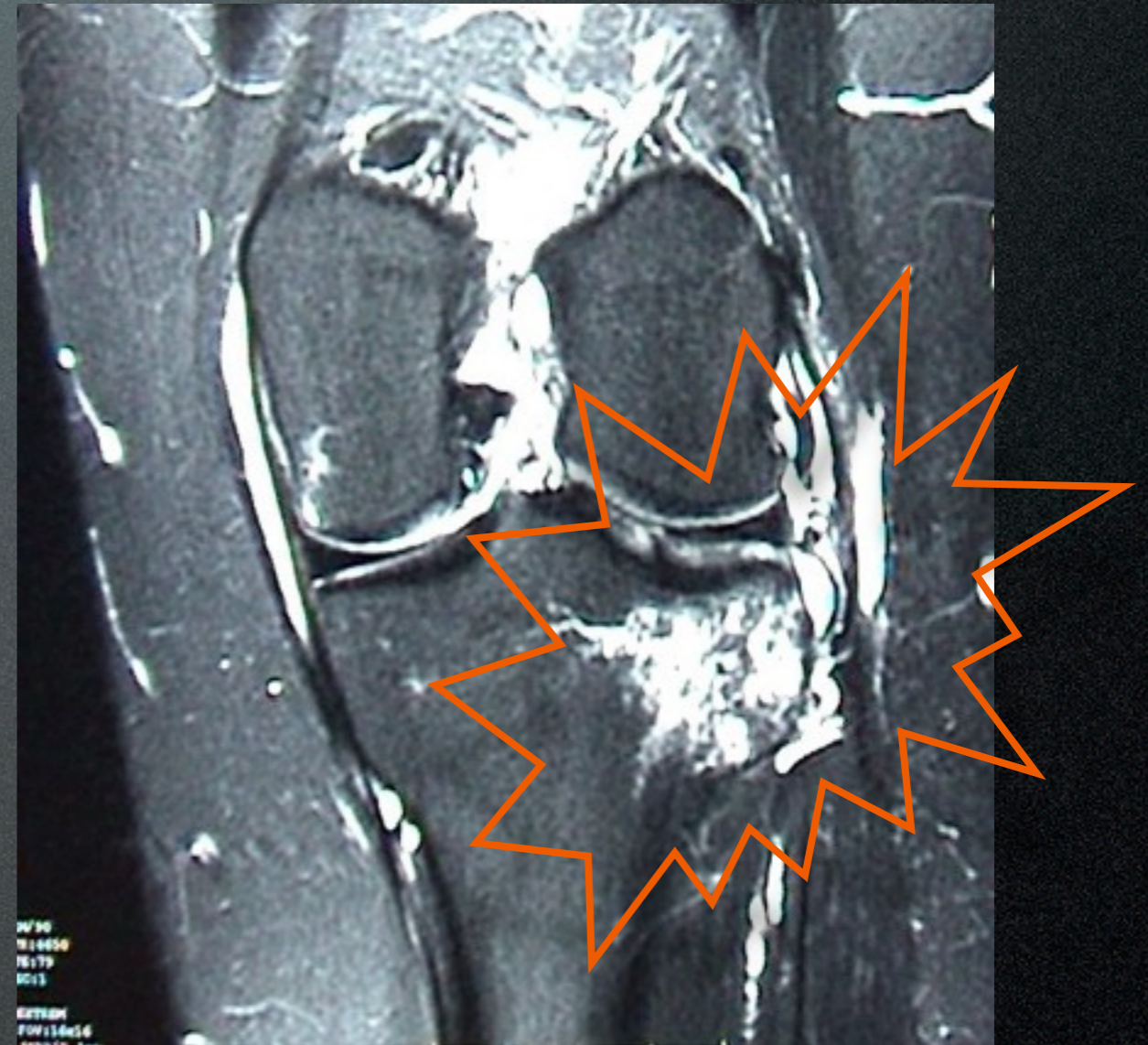
2002
2006



Alpine



Injury Survey



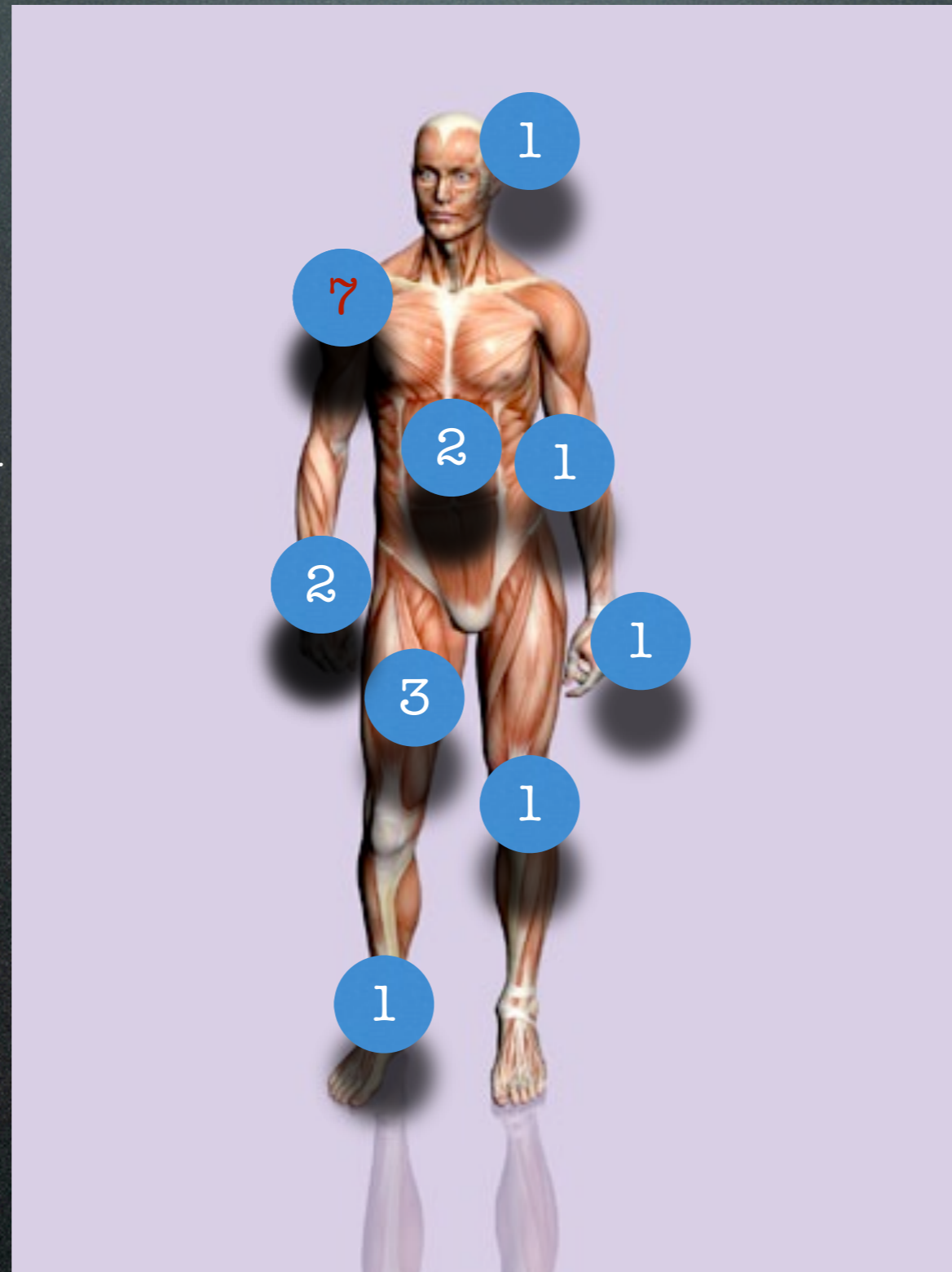
2006 - Acute Alpine Injuries by Body Part

Sitaskiers

Shoulder

Abdomen

Wrist



Injury Survey



Injury Survey



Injury Survey



Injury Survey

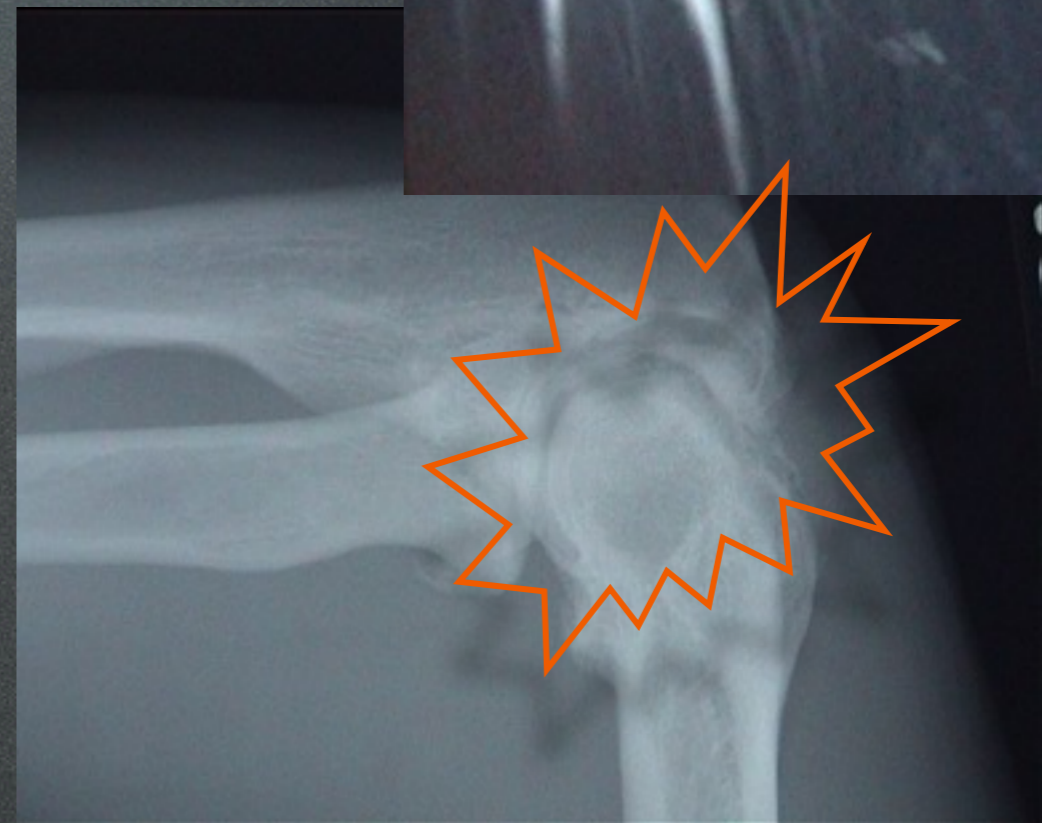
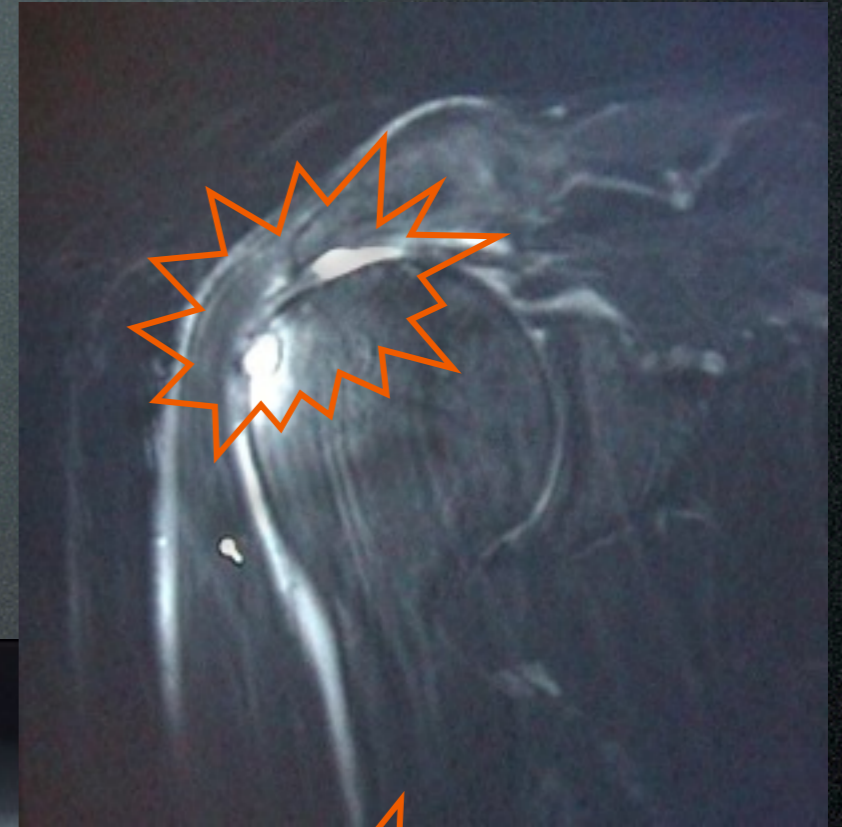
- Injury prevention:
 - Avoiding abduction/ ext rotation of shoulder - technique/ falling
 - Sprung outrigger?
 - Failure mechanism?
 - Snowboard type glove c. wrist support?



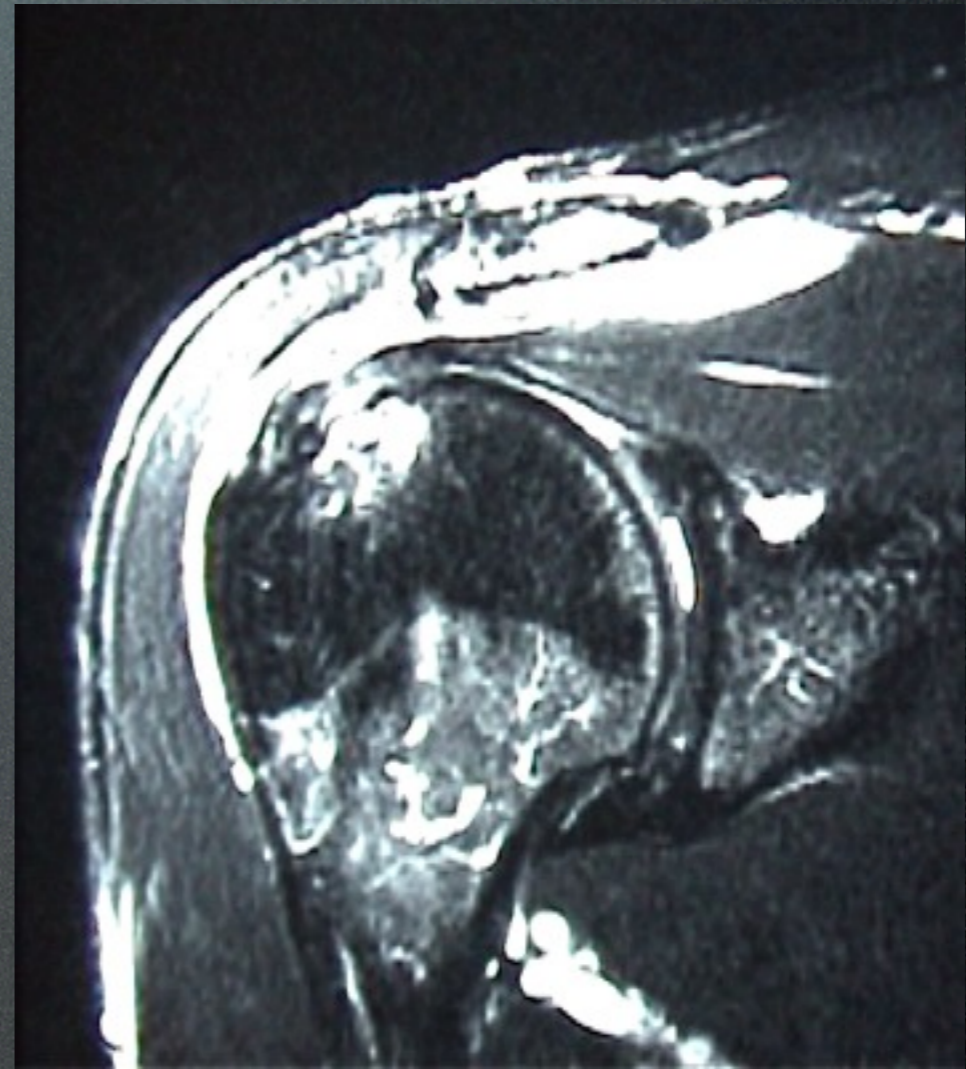
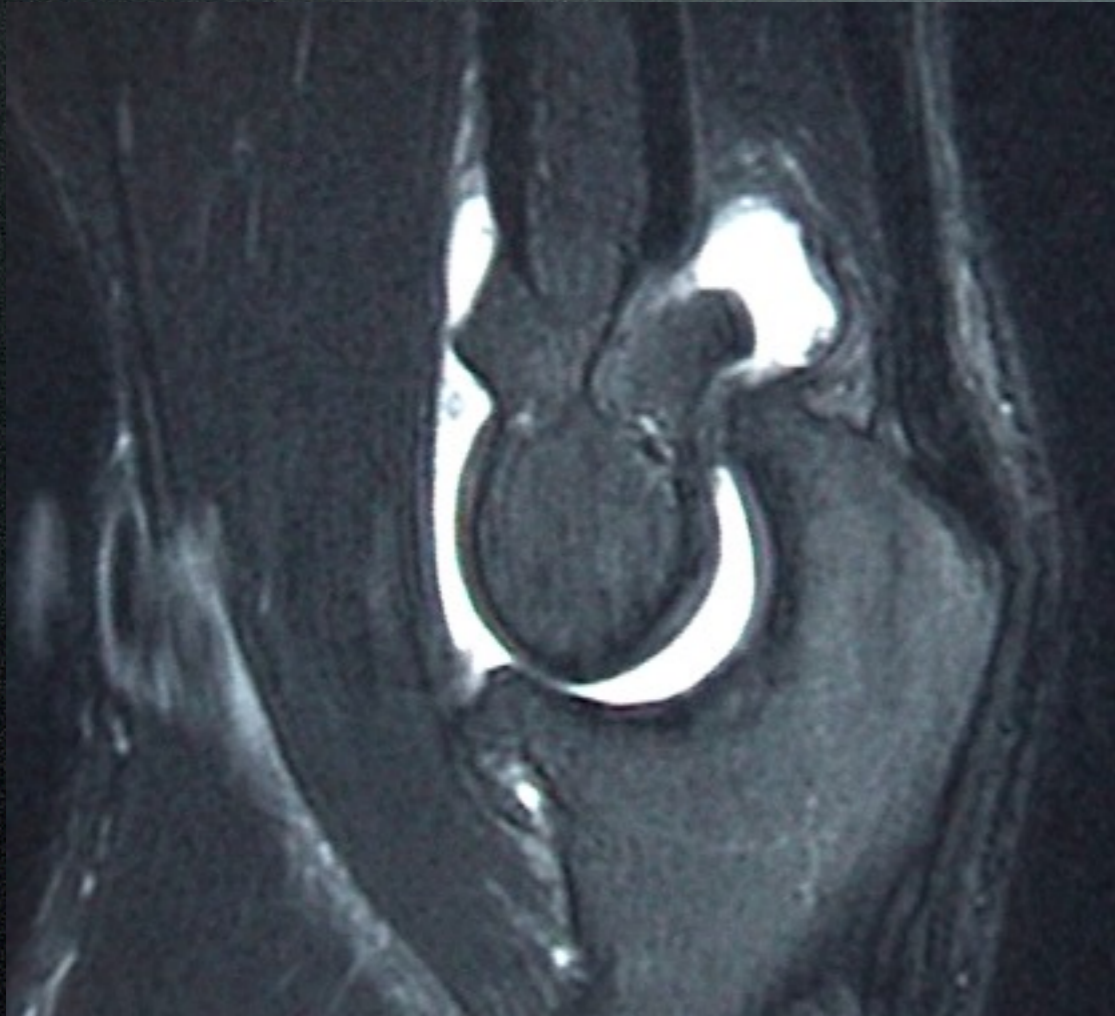
Nordic



Injury Survey



Nordic – Overuse Injuries



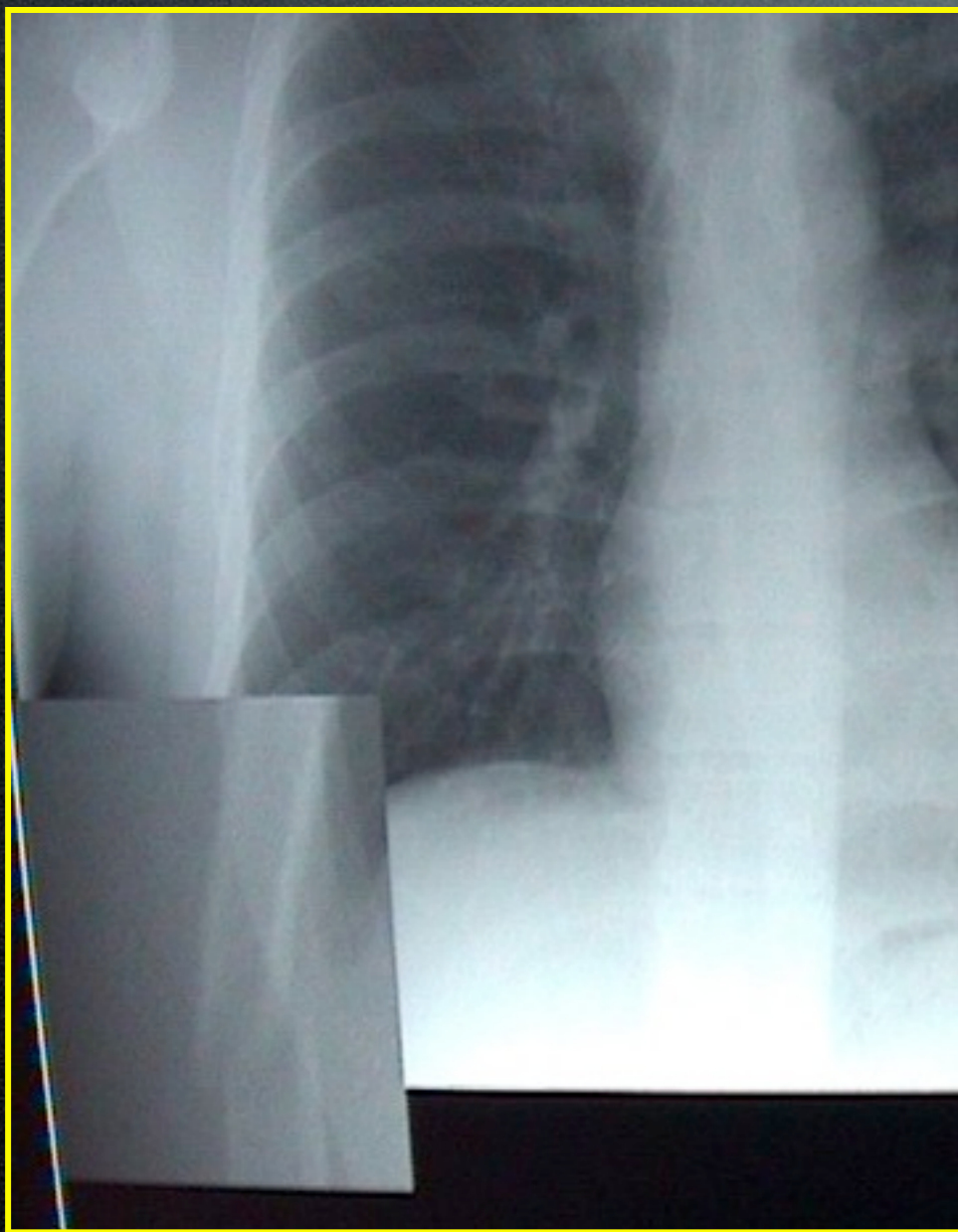
Wheelchair Curling



Ice Sledge Hockey



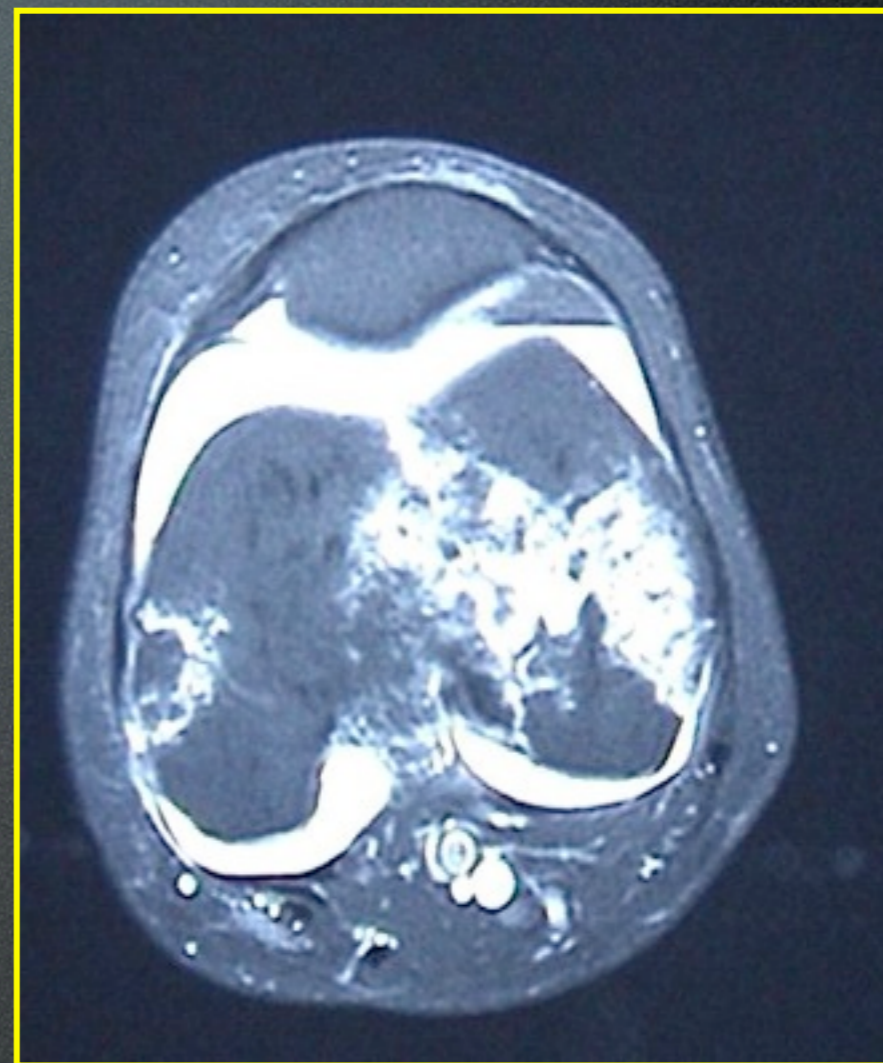
Injury Survey



Injury Survey



Injury Survey

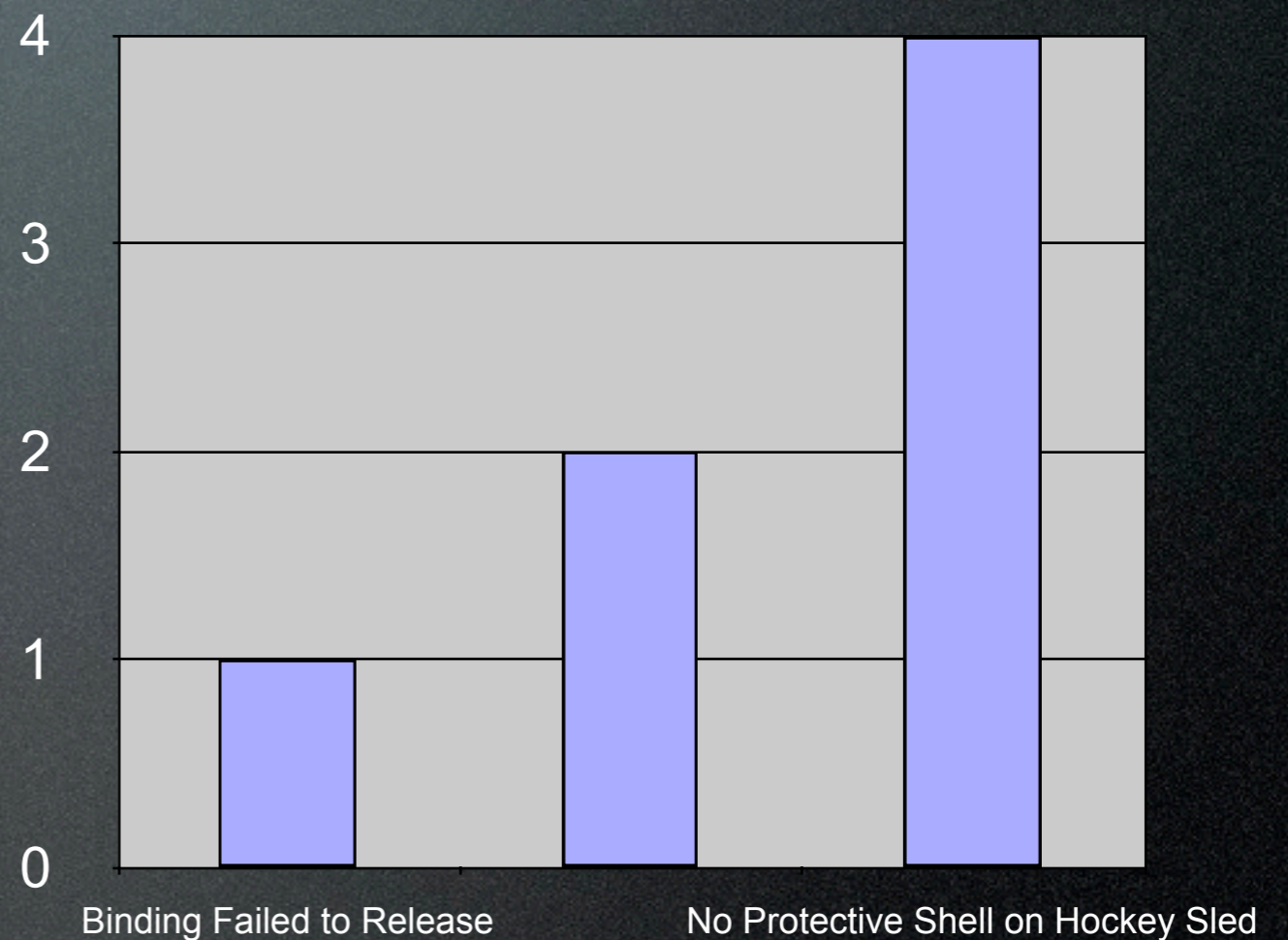


Injury Survey 2002



- 42% (5/12) of sled hockey injuries preventable
- Osteoporotic legs vulnerable

Equipment Related Injuries



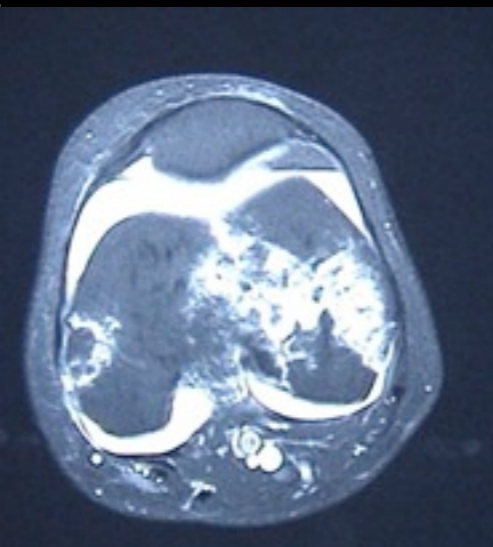
Sport Rule Changes Post-2002

- Sledge height
- Protective wear
feet/legs
- No lower-limb
fractures in
Torino -
Vancouver??



Sports Injury Prevention Example

Acute Injury



IPC Injury Survey

- We can make a difference! - Sports technical committees listen to sound evidence
- Contribution of data from NPCs is invaluable
- Publication of data 2002-2010 post Games

IPC Injury Survey

- Need longitudinal data for risk analysis - injuries / hrs competition or training
- Better Electronic Medical Records systems
- Equipment safety analysis
- Understanding of the long term consequences of sport participation

Thank you for your support

IPC Sports Injury Surveillance Team

For further information:

nickwebborn@sportswise.org.uk