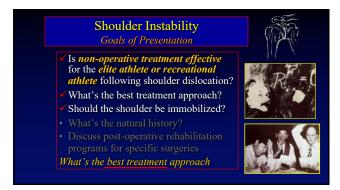




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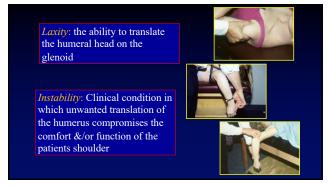
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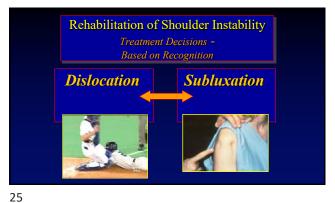




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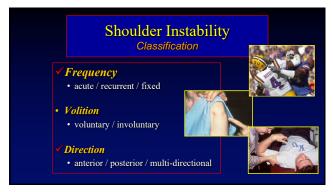


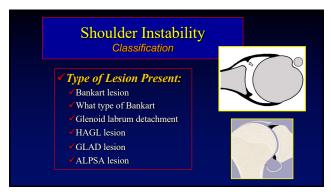










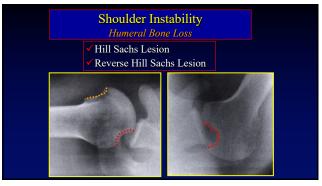


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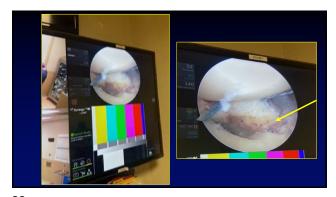


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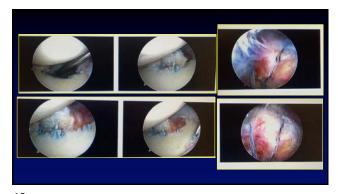








38 39





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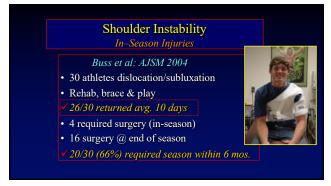
56 58



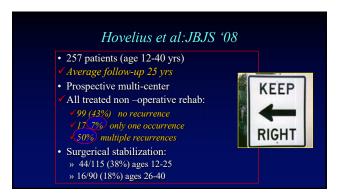


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67 68





69 70



Long-term, Prospective, Multicenter Study of Isolated Bankart Repair for a Patient Selection Method Based on the Instability Severity Index Score

Herd Transaus, **M. Park, Trata Lappin, **Ind. Awards levels, **Ind.
Journal Counts, **M. Oliver County, **M. Park A Arthressery Society, British County, **Ind. Presch Arthressery Society, British Patients International Annual Programment of Mennas University, Clinical Research Unit, Revens, Faces

Instability Severity Index Score

• Only significant predictive factor for recurrence was age <20

• 42% recurrence rate w arthroscopic Bankart

• ISIS – 10% if <= 2; 35% for 3 or 4





73 74





75 76



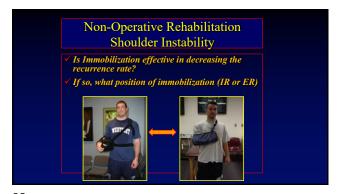


82 95





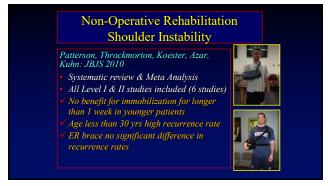
97



Itoi, Kido, Sato et al: JSES '03 40 patients initial anterior dislocation • Patient avg age 39 (range up to 84) • 20 immobilized in adduction & IR • 20 immobilized in slight abduction & ER Recurrence rate at 15.5 mos: 30% for add IR group 0% for abd ER group

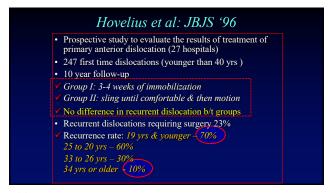
98 99

	Methods of Immobilization Following Shoulder Dislocation				
Author Yr	N=	Position	Duration	F/U	
• Hovelius '83	257	IR	(1,3, mixed Rx)	2 yrs	
• Hovelius '87	256	IR	(1,3. mixed Rx)	5 yrs	
• Hovelius '96	247	IR	(1.3.mixed Rx)	10 yr	
• Hovelius '08	229	IR	(1,3,mixed Rx)	25 yr	
• Robinson '06	252	IR	4 weeks	4-9 yr	
• Itoi '03	40	ERvIR	3 weeks	15 mo	
• Itoi '07	198	ERvIR	3 weeks	2 yr	
• Finestone '09	51	ERvIR	4 weeks	2.8 yr	
• Livaag '11	188	ERvIR	4 weeks	2 yr	



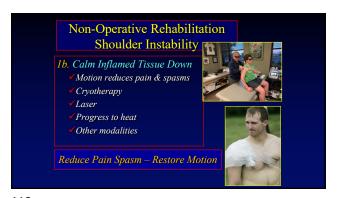
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127

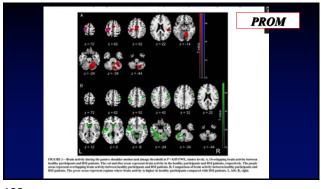




129 130



Shitara et al: Med Sci Sports Ex '22
Neuroplascity Caused by Shoulder Injury
MRI Brain Scan – during shoulder PROM & Voluntary Muscle Contraction
Subjects: RSI n=13, Healthy n=12
Difference in Brain Activity b/t grps
Abnormal motor control & activation in RSI group





133 134





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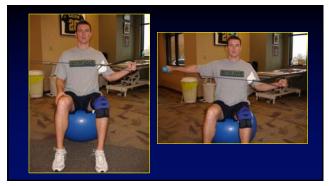








164 165





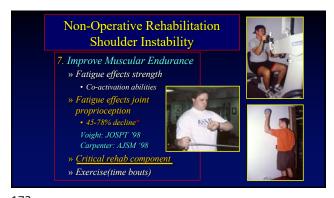
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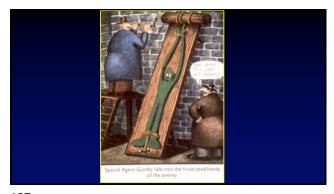






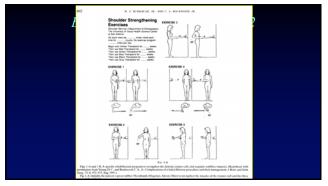


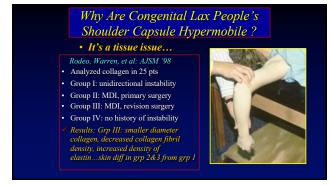
185 186



Burkhead, Rockwood: JBJS '92
140 shoulders (in 115 patients) diagnosed with instability
All treated with "specific set of strengthening exercises"
16% (12/76) traumatic injured shoulder patients
80% (53/66) atraumatic patients
exhibited a good to excellent result
Identification of the etiology of the instability key
We believe that it is important that the orthopaedist instruct the patient and direct the rehabilitation program. hence, we call this an orthotherapy rehabilitation program.

187 190





191 193





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200 201

Blasier et al: Orthop Res '94

Proprioception testing subjects with excessive laxity
Subjects with generalized laxity were significantly sensitive in proprioception
Detection of ER more sensitive than IR
End range better than mid

Proprioception & The GH Joint

Blasier et al: Orthop Res '94

Proprioception testing subjects with excessive laxity

Subjects with generalized laxity were significantly sensitive in proprioception

Detection of ER more sensitive than IR

End range better than mid

Carpenter, Blasier, Pellizzon: AJSM '98

20 subjects with no shoulder abnormalities

Effects of fatigue on shoulder proprioception

Decreased proprioception following muscular fatigue

202 203

Rehab Congenital Unstable Shoulder
Subacute Phase

PNF D2 patterns with RS
Limited ROM
Limited ROM isotonics'
Axial compression w/ movement
Scapular control drills
Promote increased tone
Neuromuscular control drills
Endurance training
Core stabilization
drills

Rehab Congenital Unstable Shoulder
Advanced Phase

• Rotator cuff strengthening

» Tubing ER/IR

» Sidelying ER

» Tubing ER w/ manual

» Prone row into ER

• Neuromuscular control drills

• Endurance exercises

• Core stabilization drills

• Progress activity level





206 207

