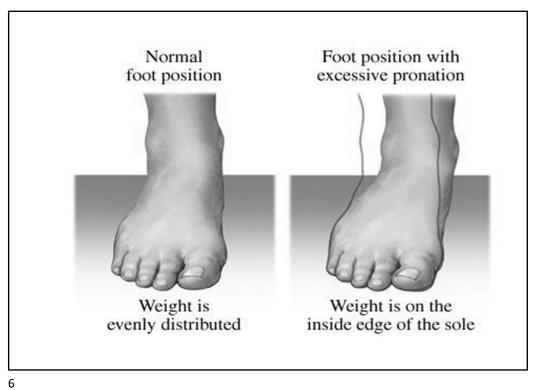
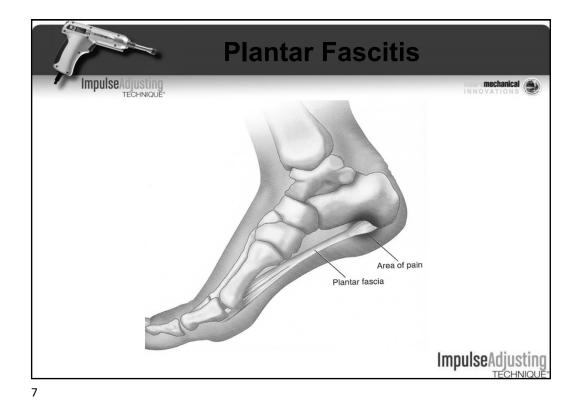
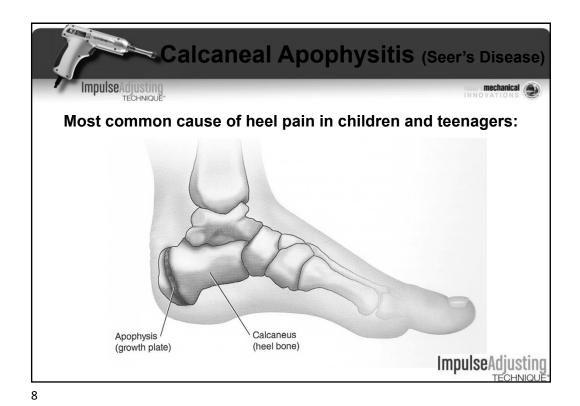


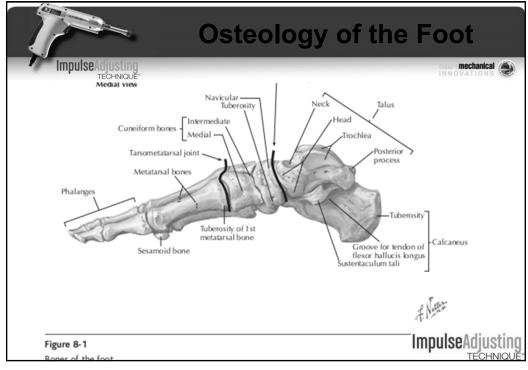


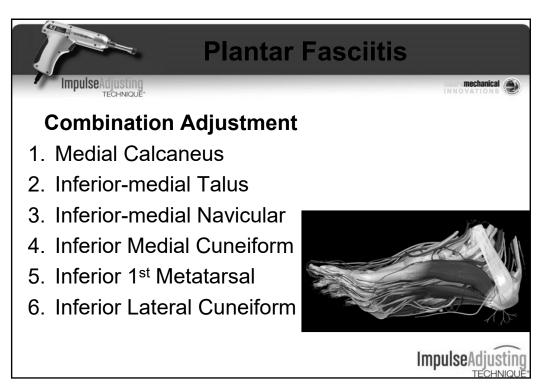
Initial Hypotheses Based on Historical	Findings		
Patient Reports	Initial Hypothesis		
Patient reports a traumatic incident resulting in either forced in- version or eversion	Possible ankle sprain ^{1,2} Possible fracture Possible peroneal nerve involvement (if mechanism of injury inversion) ³⁻⁵		
Patient reports trauma to ankle that included tibial rotation on a planted foot	Possible syndesmotic sprain ¹		
Patient notes tenderness of anterior shin and may exhibit exces- sive pronation. Symptoms may be exacerbated by repetitive weight-bearing activities	Possible medial tibial stress syndrome ⁶		
Patient reports traumatic event resulting in inability to plan- tarflex ankle	Possible Achilles tendon rupture		
Patient reports pain with stretch of calf muscles and during gait (toe push off)	Possible Achilles tendonitis ⁷ Possible Sever's disease ¹		
Patient reports pain at heel with first few steps out of bed after prolonged periods of walking	Possible plantar fasciitis		
Patient reports pain or paresthesias in plantar surface of foot	Possible tarsal tunnel syndrome ¹ Possible sciatica Possible lumbar radiculopathy		
Patient reports pain on plantar surface of foot between 3rd and 4th metatarsals. Might also state that pain is worse when walking with shoes compared with barefoot	Possible Morton's neuroma ⁷ Possible metatarsalgia		

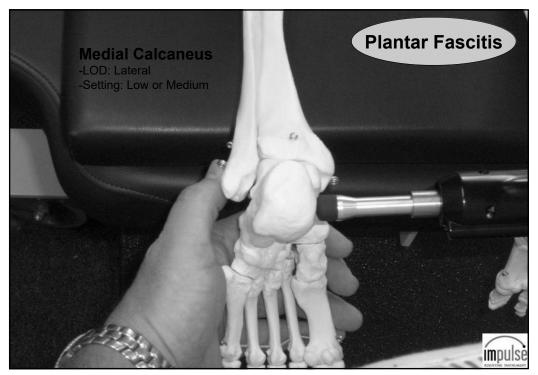


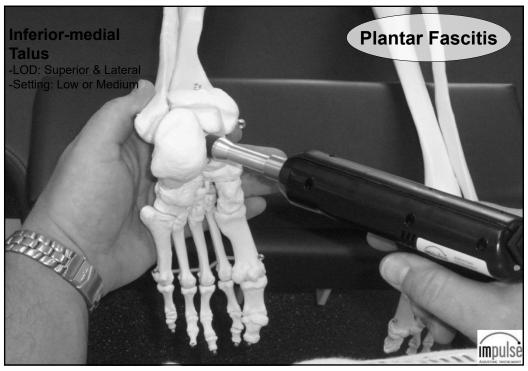


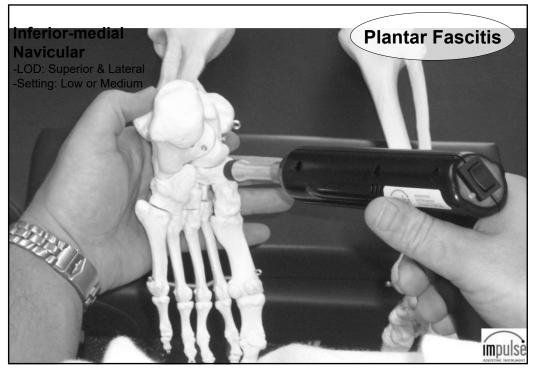


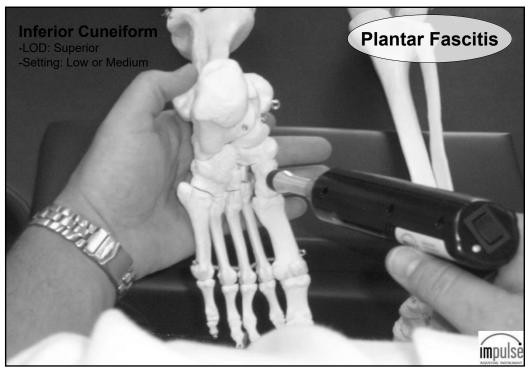


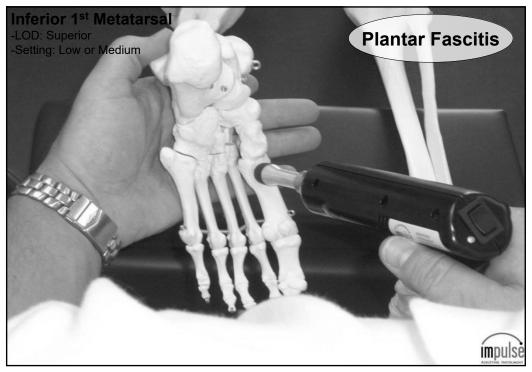


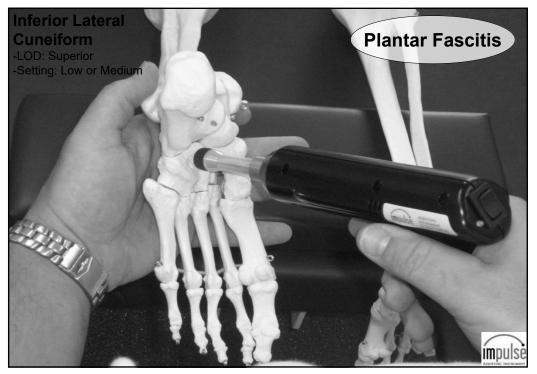


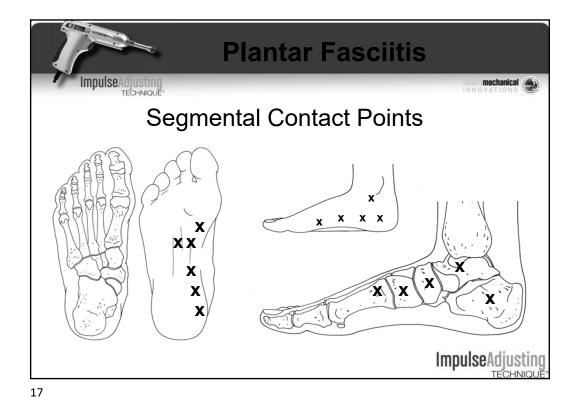


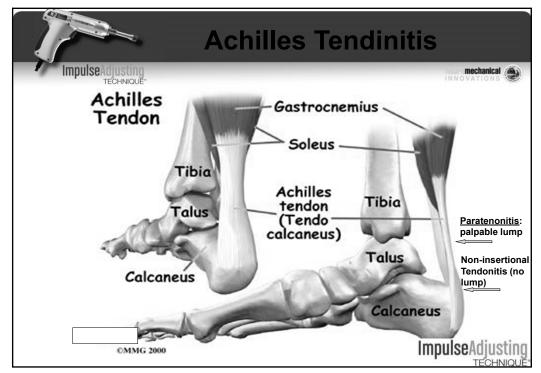


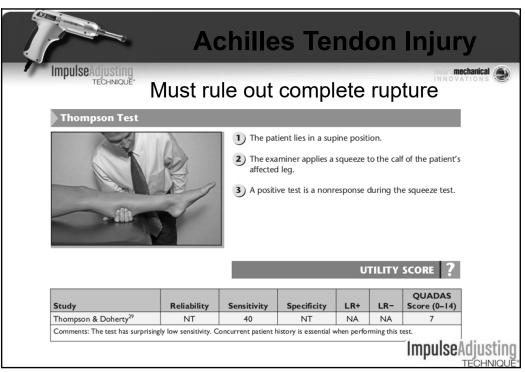


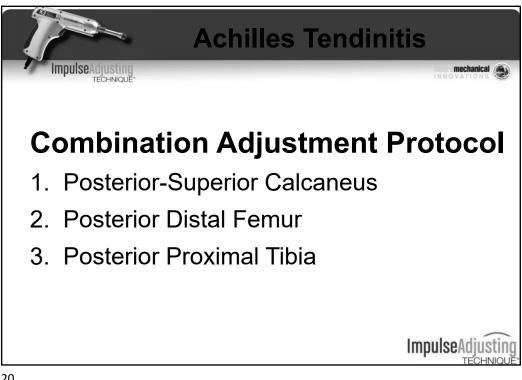


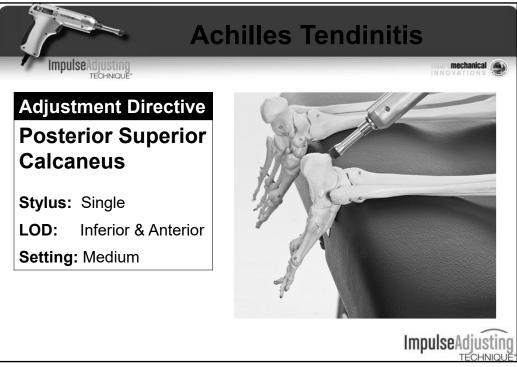














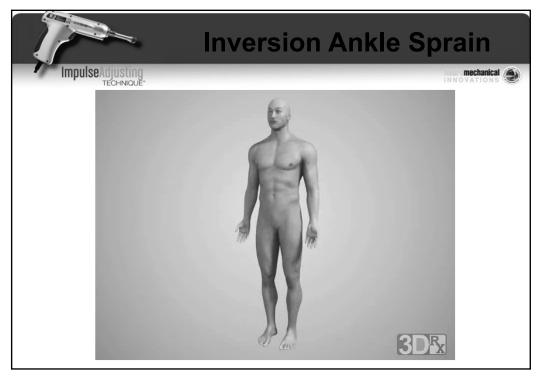


"Continued sports activity using a pain-monitoring model during rehabilitation in patients with achilles tendinopathy," Silbernagel et al, *American Journal of Sports Medicine*, 2007:35

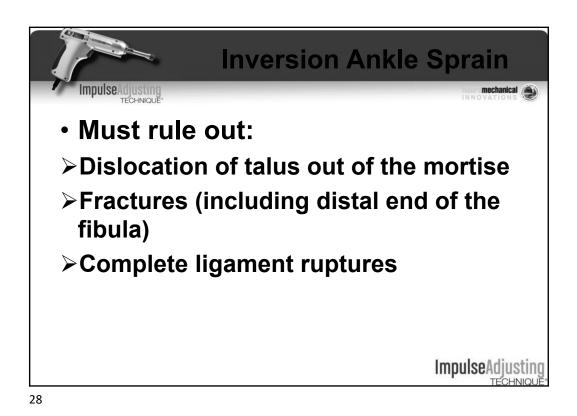
- Rehab for both conditions involves "heavy-load eccentric" exercises
- Have been shown repeatedly to be highly effective.
- Cortisone injections have been shown to be ineffective, dangerous, and weaken the tendon making rupture more likely.

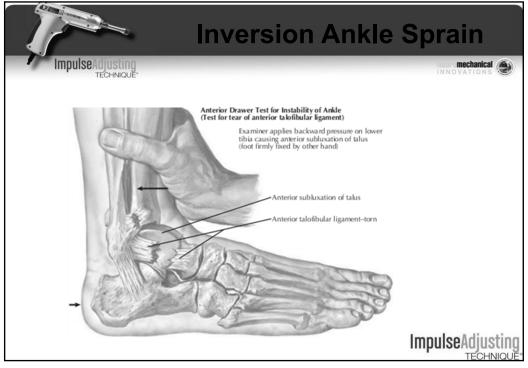


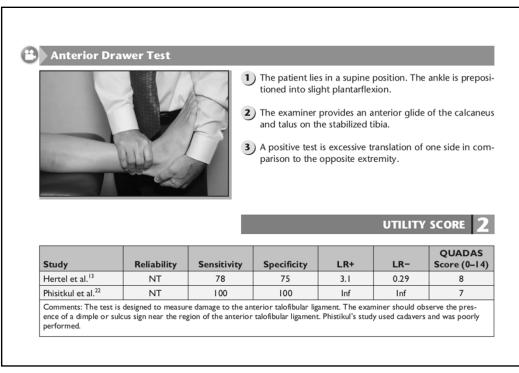


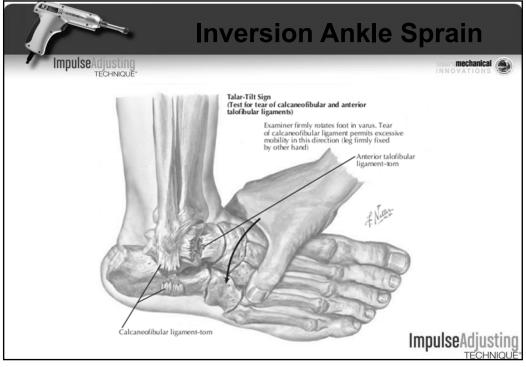


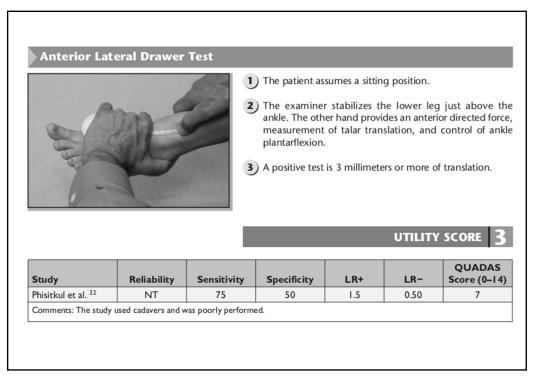


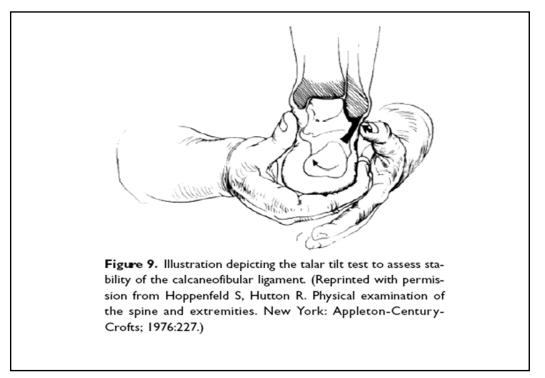




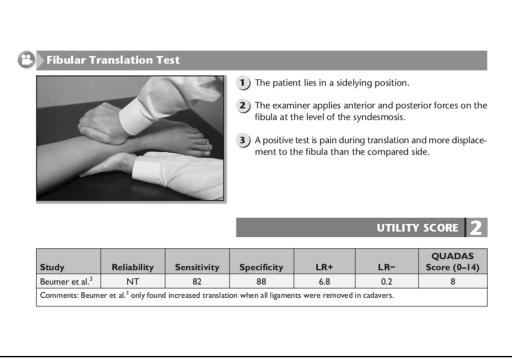


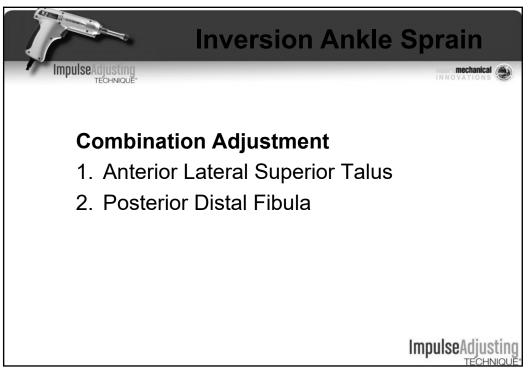




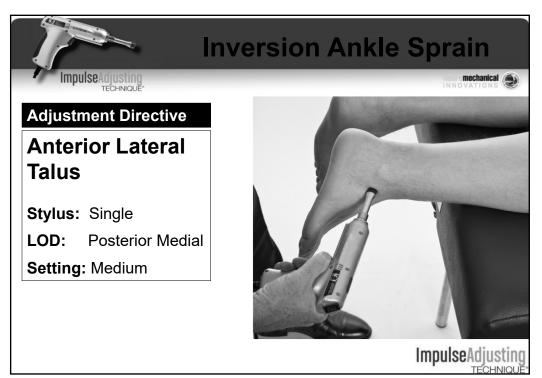


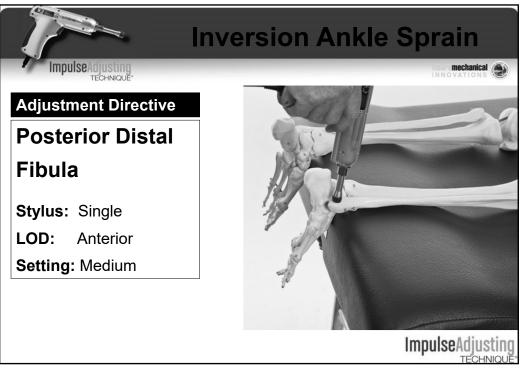
Medial Ta	alar Tilt Stre	ess Test	 The exar malleoli. The exar calcaneus 	niner grasps th niner applies e test is excessiv	a quick media ve laxity when c	e patient at the al thrust to the compared to the
					UTILITY	SCORE 2
Study	Reliability	Sensitivity	Specificity	LR+	LR-	QUADAS Score (0–14)
Hertel et al. ¹³	NT	67	75	2.7	0.44	8
Comments: Expec	t positive findings a	fter inversion sprai	ns.			

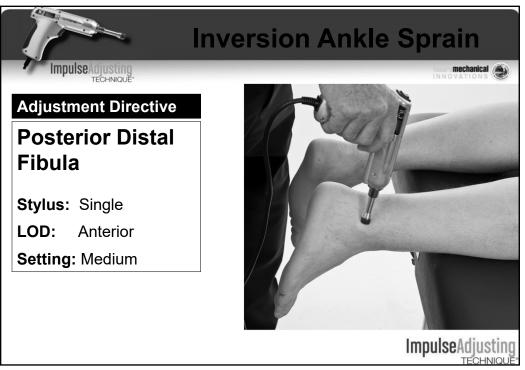


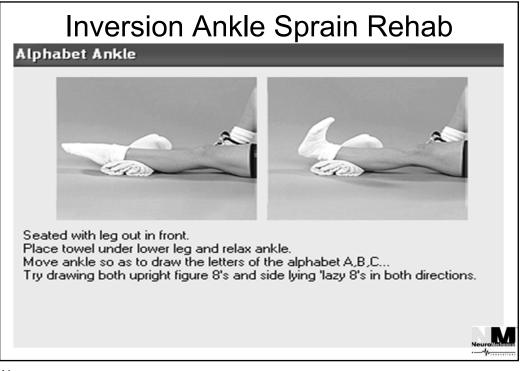


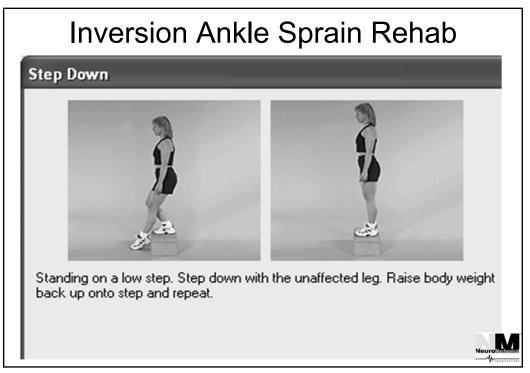


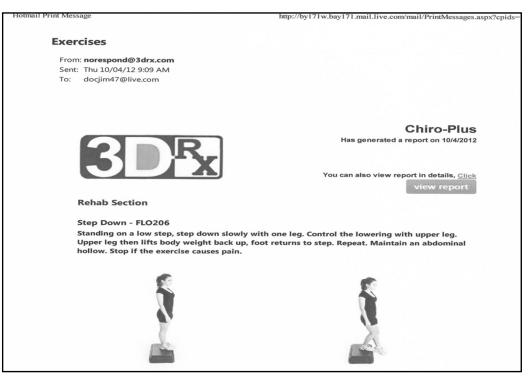


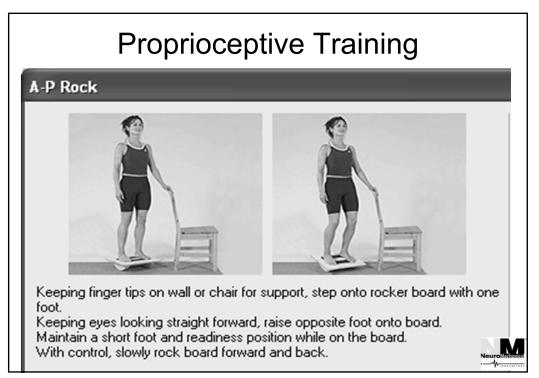


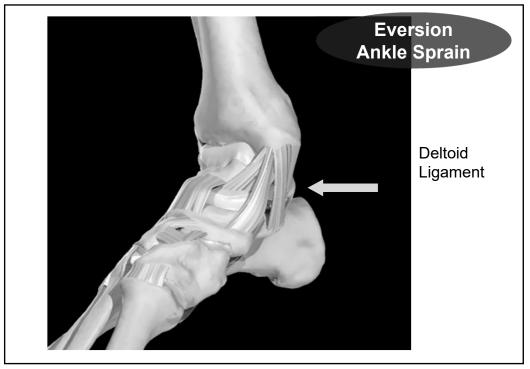


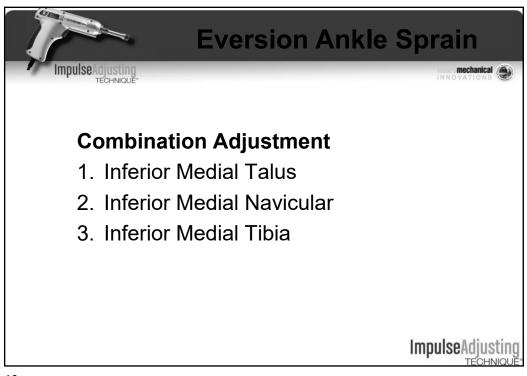


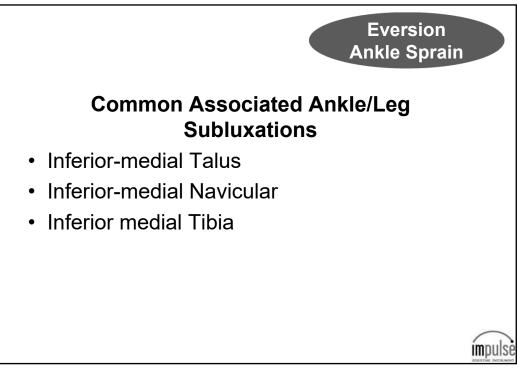




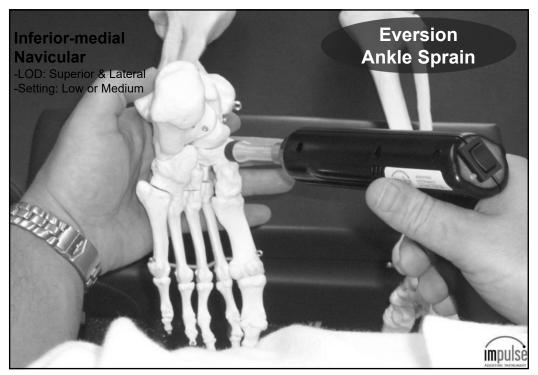


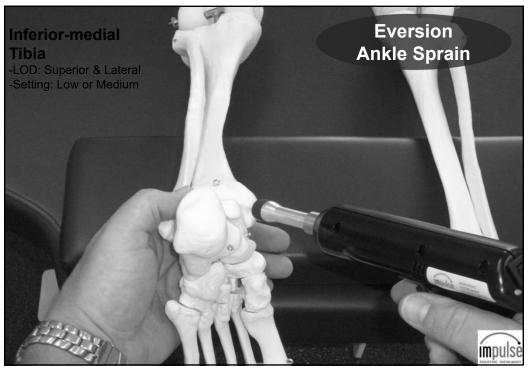




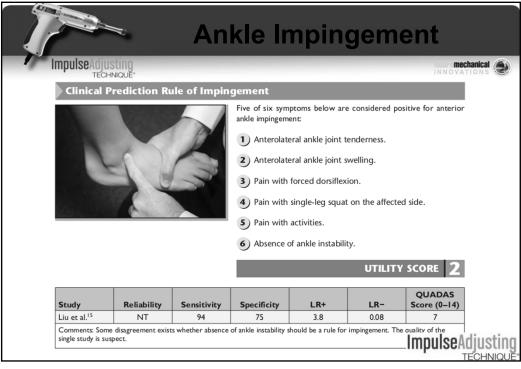


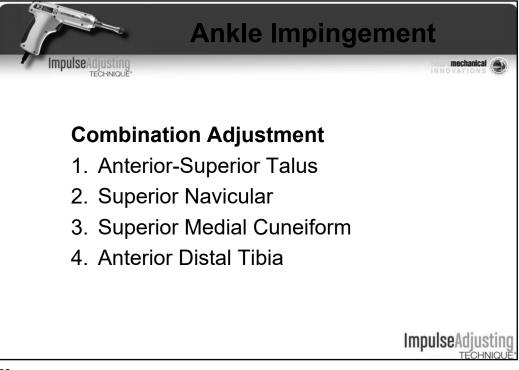




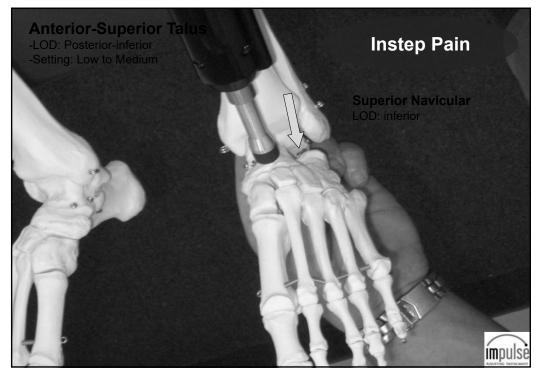


Forced Do	arcue*	Fest	 The examin places his or talus near t The examin A positive t 	or her thumb o he lateral gutt her applies a fo	he distal aspe on the anterola er. Pressure is prceful dorsifle ction of pain a forced dorsifle	xion movement.
Study	Reliability	Sensitivity	Specificity	LR+	LR-	QUADAS Score (0–14)
Study Alonso et al. ¹	Reliability 0.36 kappa	Sensitivity NT	Specificity NT	LR+ NA	LR- NA	









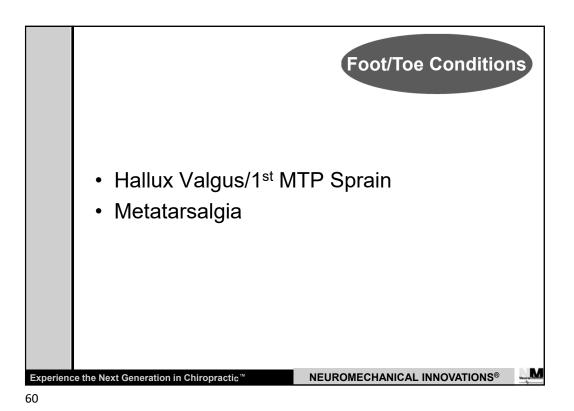


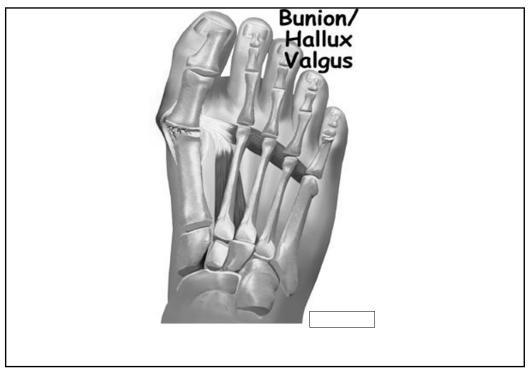




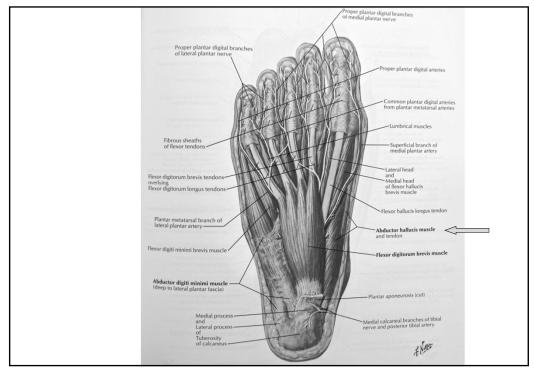






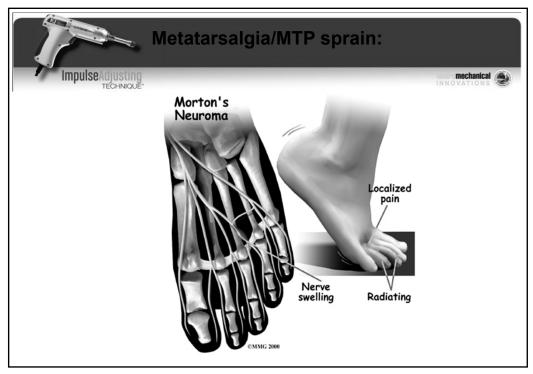


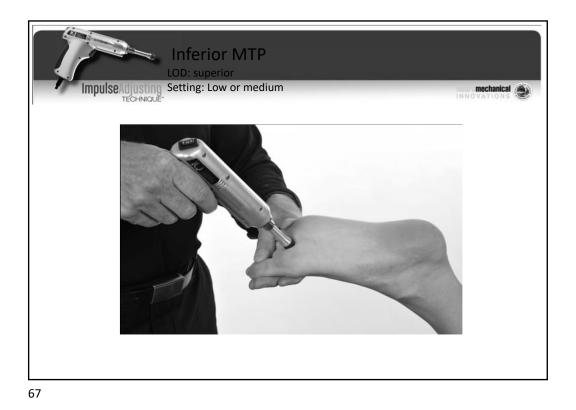








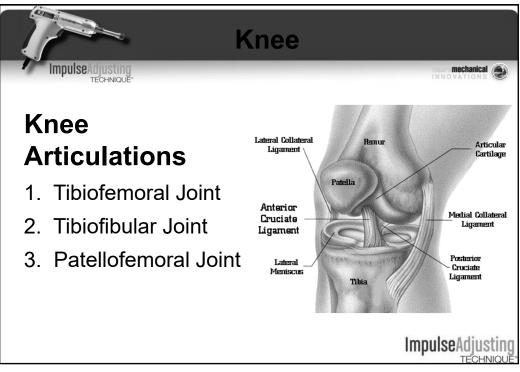


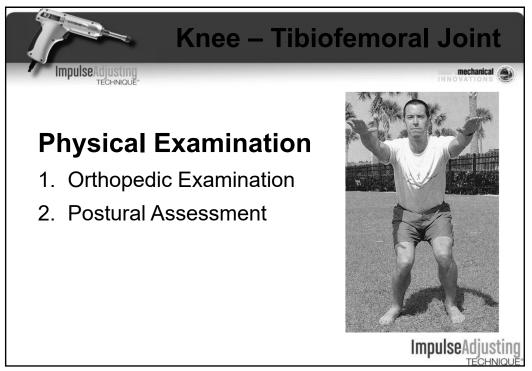


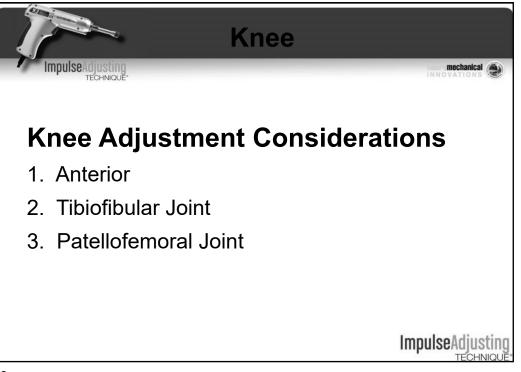
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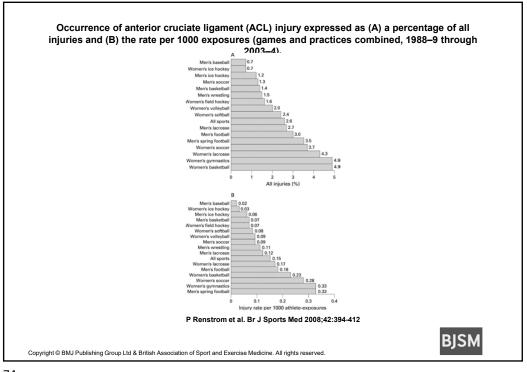




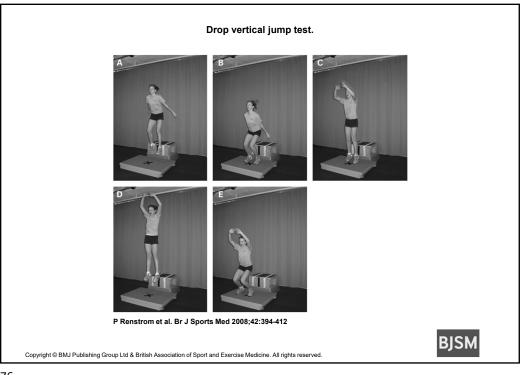


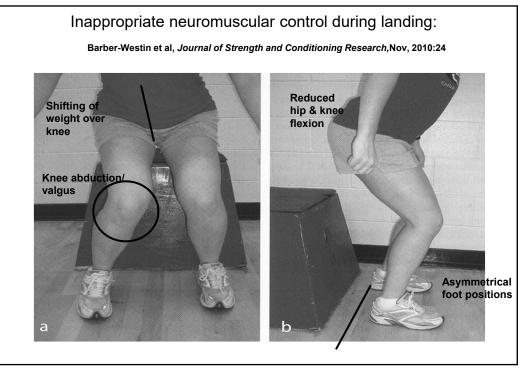


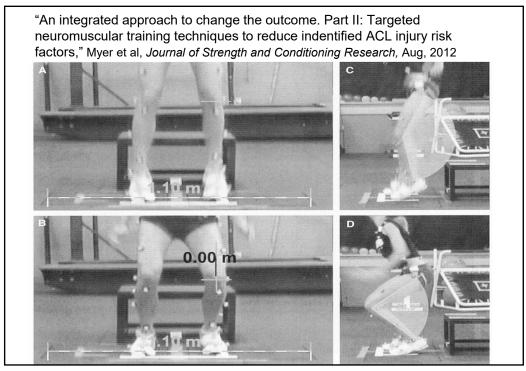


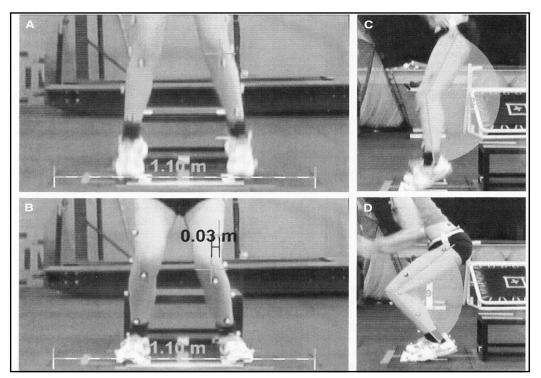


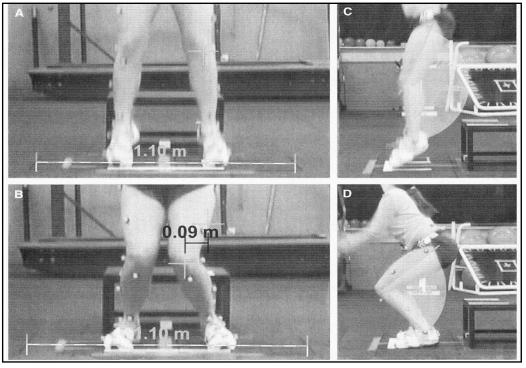


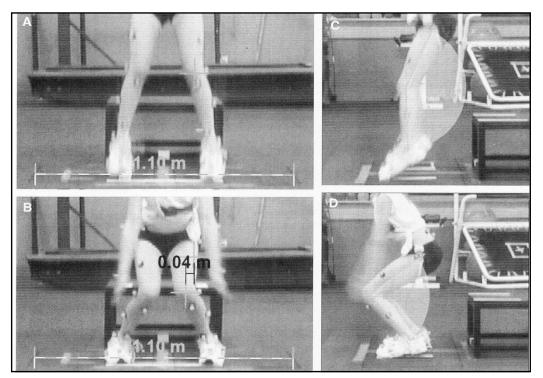


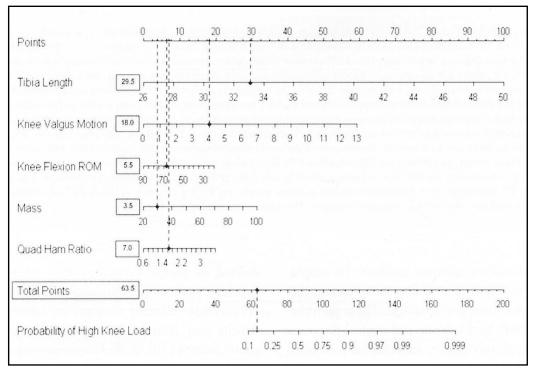


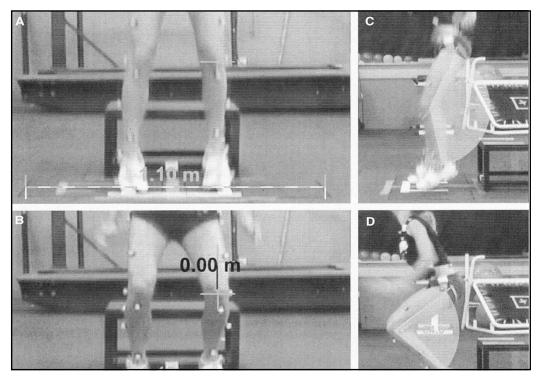


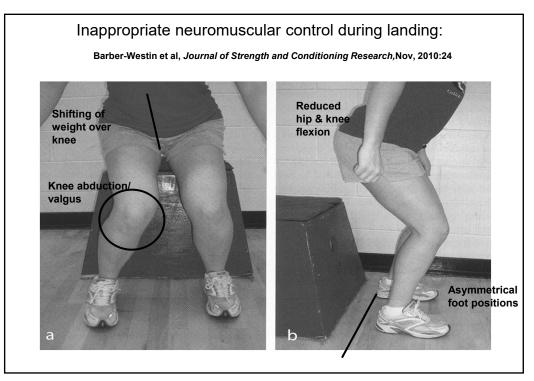


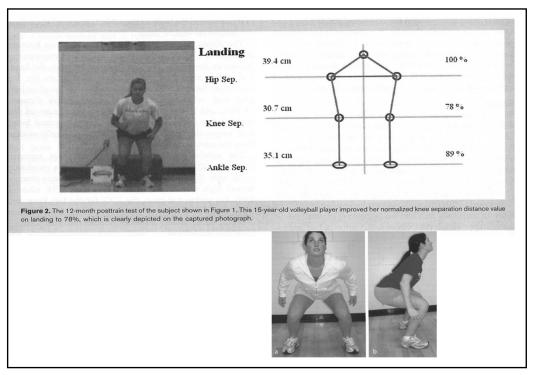


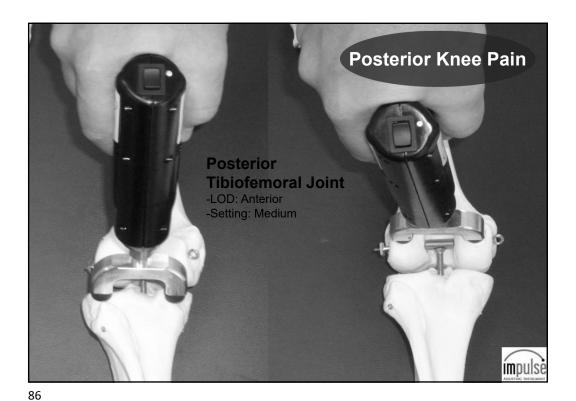




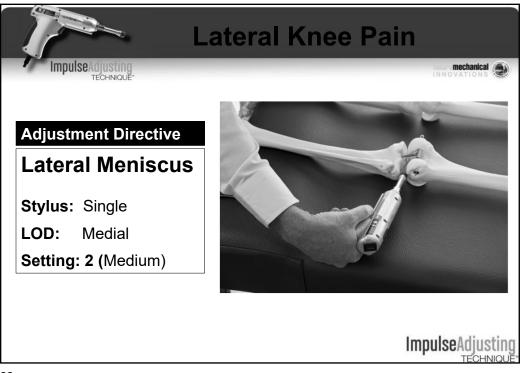


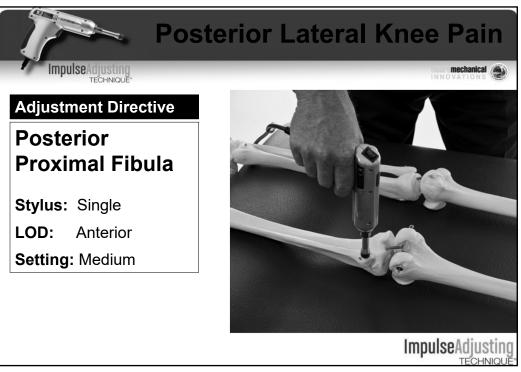


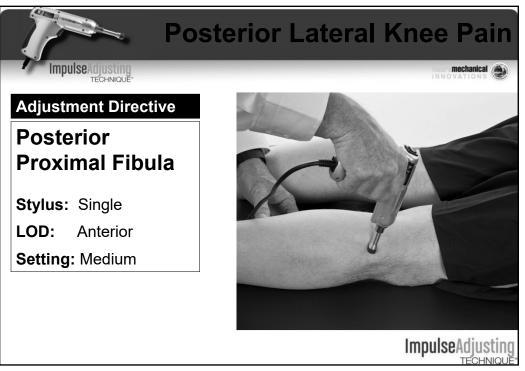


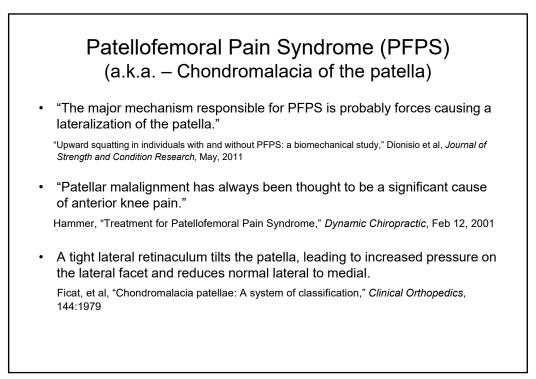


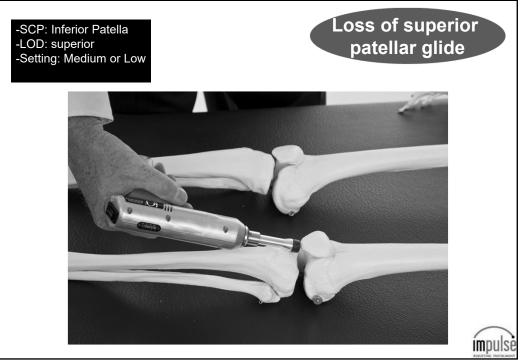


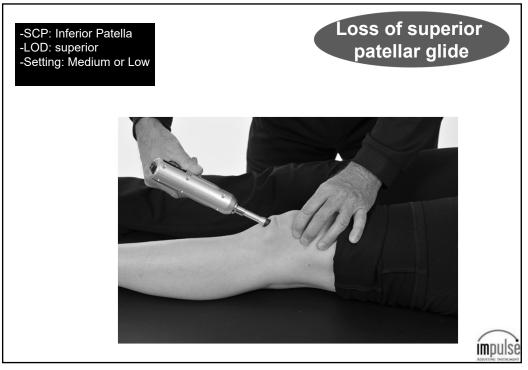


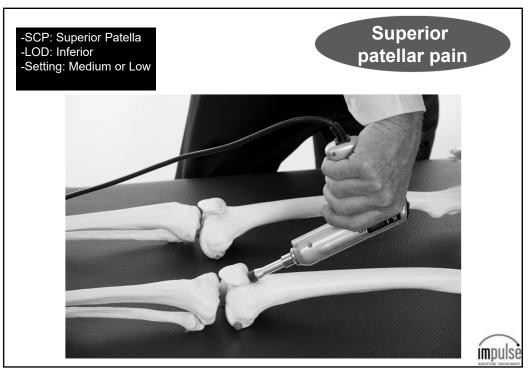


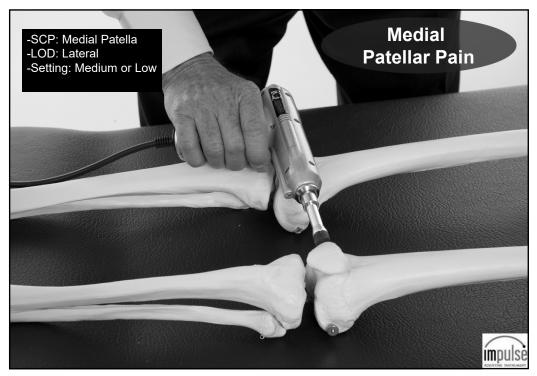


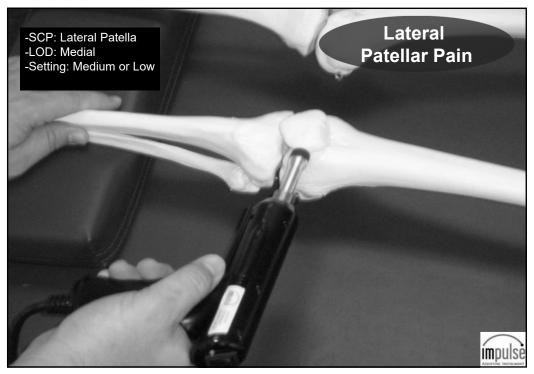


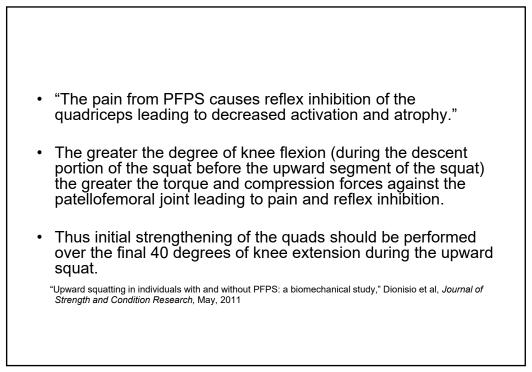


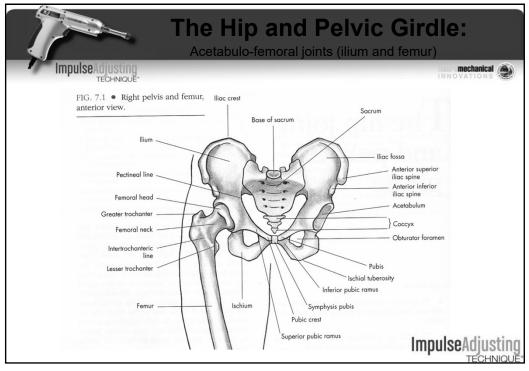












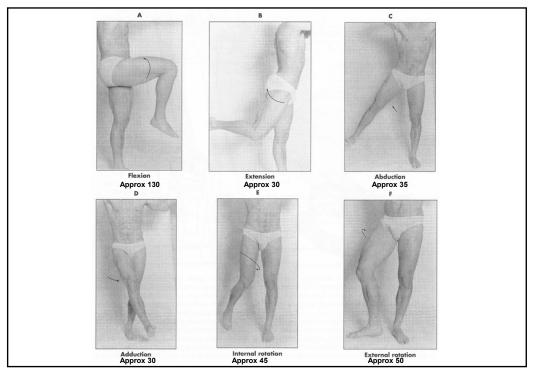
"Comparison of manual therapy and exercise therapy in OA of the hip," Hoeksma et al, *Arthritis and Rheumatism,* 2004:51

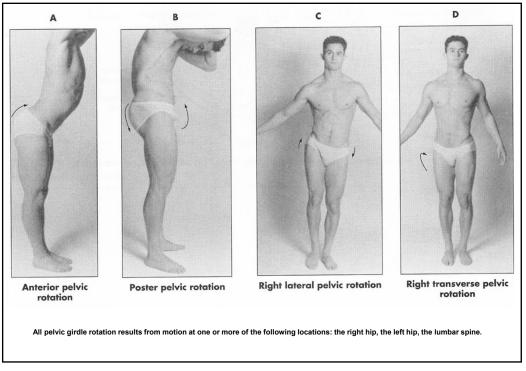
• Manual therapy was shown to be superior to exercise.

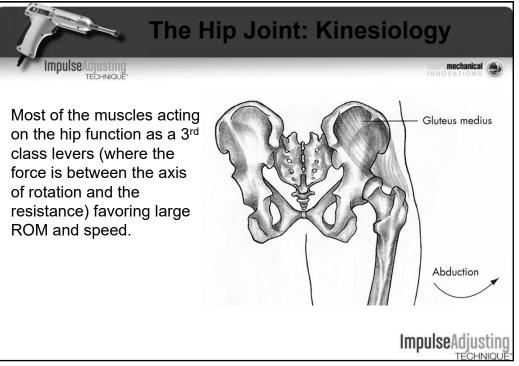
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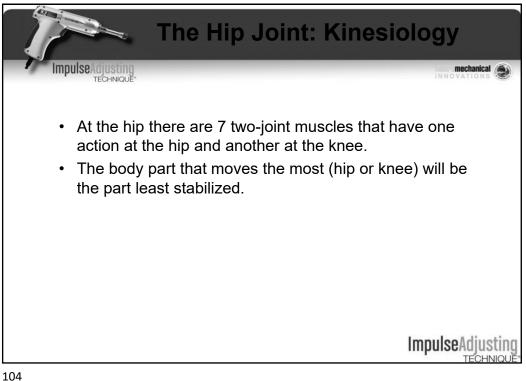
"Effect of therapeutic exercise for hip OA pain," Hernandez-Molina et al, *Arthritis and Rheumatism*, 2008:59

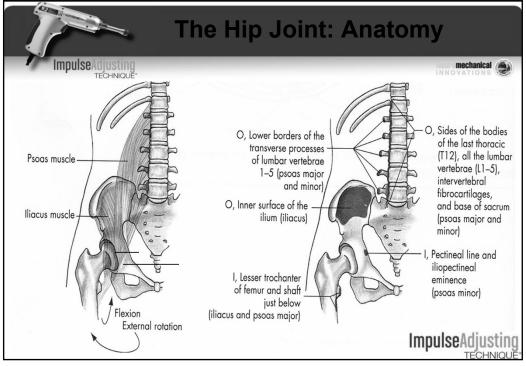
• Therapeutic exercise, especially with an element of strengthening, is an efficacious treatment for hip OA.

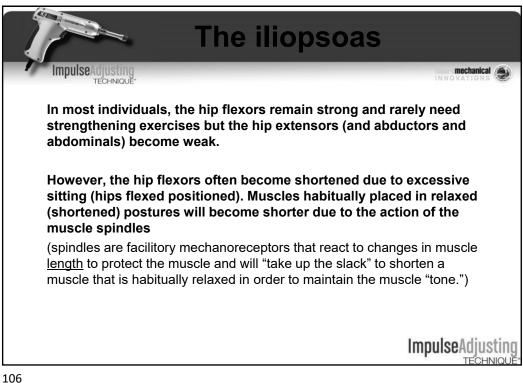


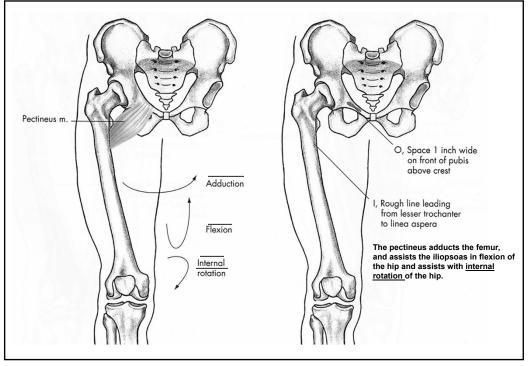


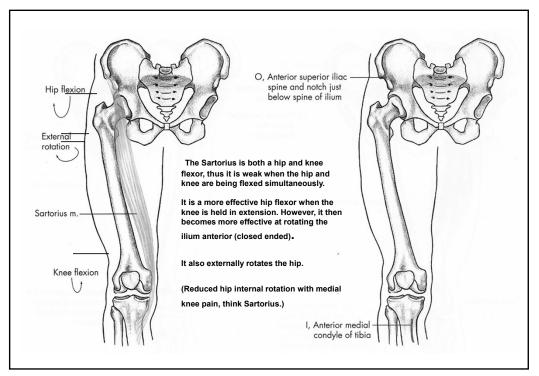


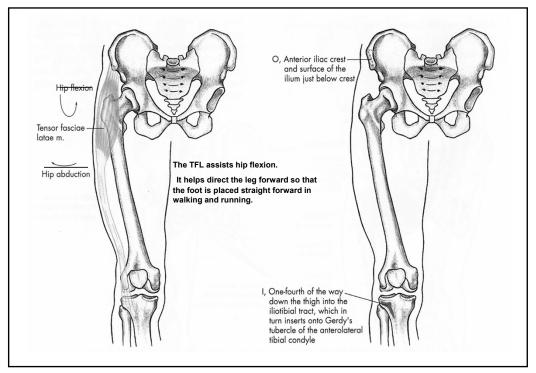


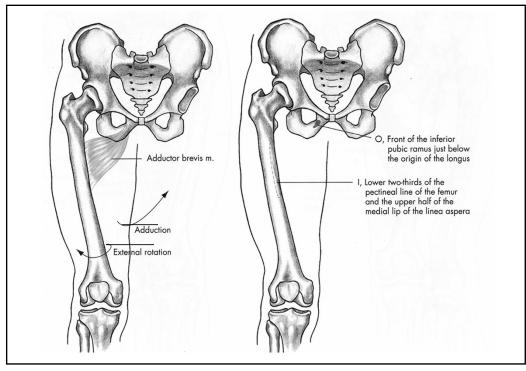


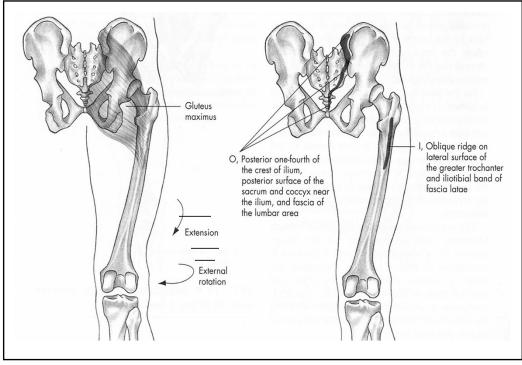


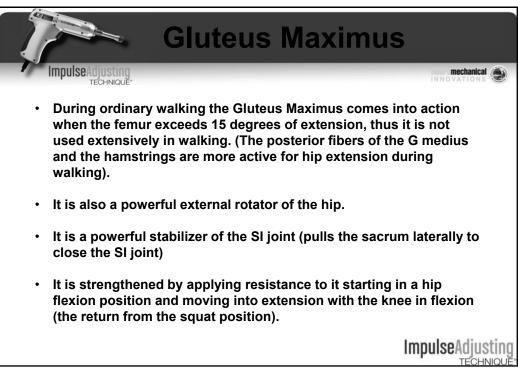












Like 321	Share Se	nd Tweet 8	g+1 4	Share 15 tum	blr Email 🔽 Share
Research I	Review: Alte	red Lumbopel	vic Hip Muse	ele Recruitment in	n Individuals with
Sacroiliac .	Joint Pain				
				By Stefanie DiCa	arrado DPT, PT, NASM CPT & O
			Edited by	Brent Brookbush DPT, PT,	MS, PES, CES, CSCS, ACSM H
0		Gilleard, W., Hodges, I 1593-1600 - ARTICLE		faltered lumbopelvic musc	cle recruitment in the presence of
sacronnac joint p					
sacronnac Joint p					
sacromac joint p					

Results	 SIJP (symptomatic side vs CON): IO, LM, GMax onset
	significantly delayed in comparison to CON;
	IO and LM, delay greater than 20ms after initiation of
	movement (not anticipatory). BF onset occurred
	significantly earlier on symptomatic side than in CON with
	increased activity before and after intitiation of movement
Normal feedforw	 SIJP (asymptomatic side vs CON): IO and LM significantly delayed bu onset was within 20ms; no significant differences in onset of other muscles compared with controls SIJP (symptomatic vs asymptomatic side): Significant delays in IO, LM and GMax onset on symptomatic side but no differences in BF, GMed, TFL, and AL. CON: IO and LM onset prior to initiation of movement; BF, GMed, TFL AL, GMax onset after initiation of movement with no significant differences between R & L sides; first to fire were IO and LM followed by AL; BF decreased in activity as compared to quiet standing.
Conclusions	The presence of SUP may alter recruitment strategies of the lumbopelvic hi
	stabilizers on both the symptomatic and asymptomatic sides. With continued
	pain and altered strategies, an individual can develop poor motor control of
	these muscles leading to further dysfunction, pain, and injury.

