

Femoral Neck Stress Fracture

Insufficiency

Normal stress on abnormal bone

- · Osteoporotic women
- Post menopausal → Elderly
- Poorly localized in the hip and may be referred to the thigh or back
- Prolonged corticosteroid use,
 radiation, methotrexate,
 metabolic disorders
- (-) X ray
- May need surgical stabilization

<u>Fatigue</u>

Abnormal stress on normal bone

- Stress Reaction → Fracture
- Overuse
 - Runners, Military
- Female > Males
- Occur 2 weeks after initiation in activity
- FAT
- Stress fractures Compression side(inferior) > Tension side (superior) - high risk



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CASE REPORT

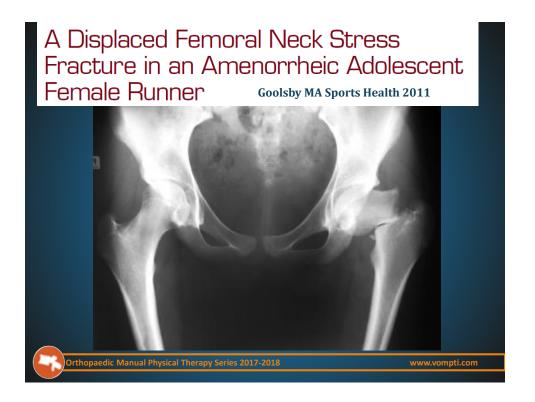
A 15-year-old female cross-country runner presented with a history of 4 weeks of progressively worsening left anterior hip and groin pain. Initially, her pain occurred only upon initiation of running. Over the next 3 weeks, the patient's pain intensified and was persistent throughout the run. In the week leading up to the acute injury, the patient's pain was constant and caused her to limp. On the day of a cross-country race, she was having significant pain but was encouraged by her coach to run through the pain. Upon sprinting 20 ft (6 m) from the finish of the race, she heard a loud crack and fell to the

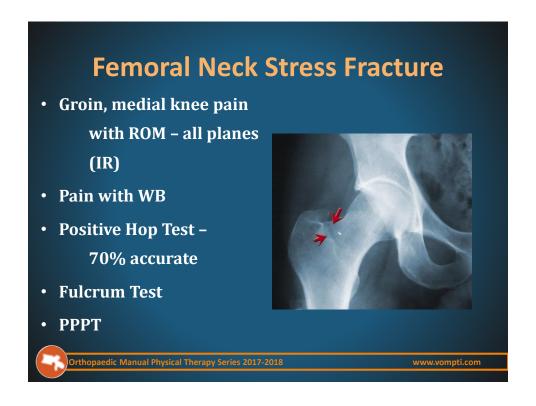
Goolsby MA Sports Health 2011

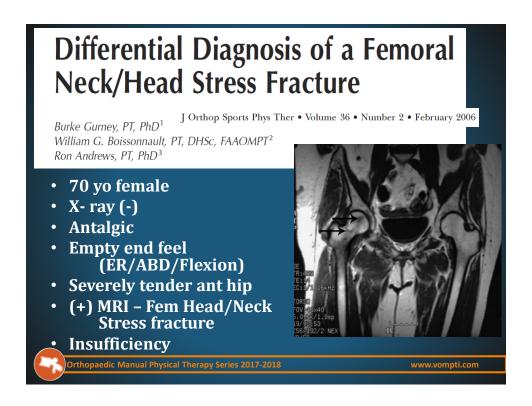


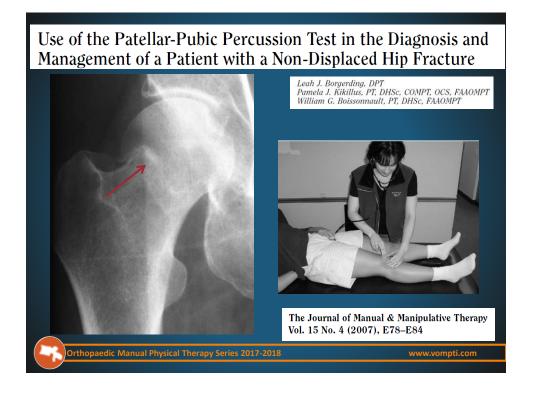
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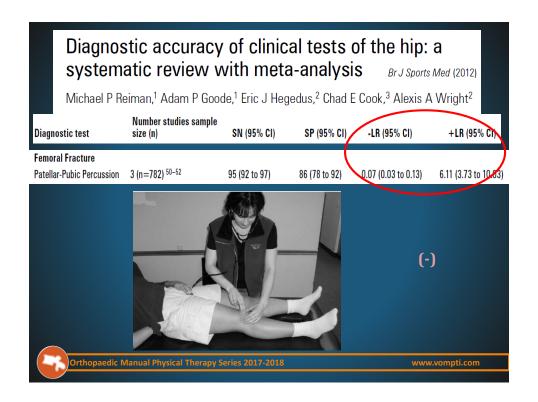
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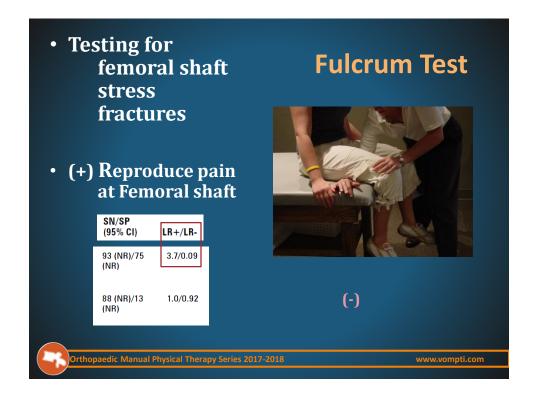


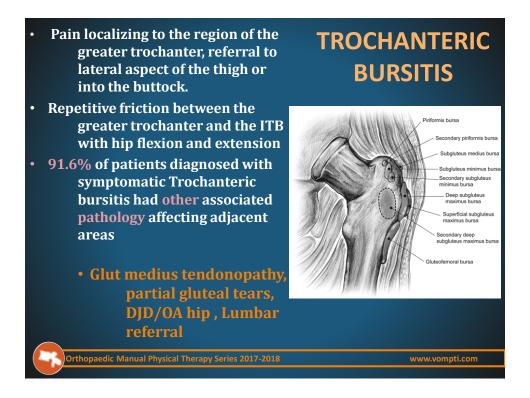


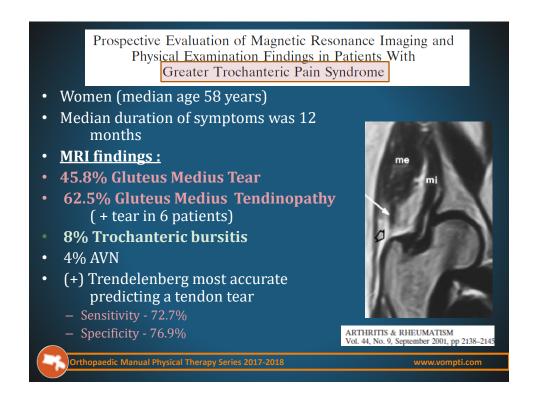








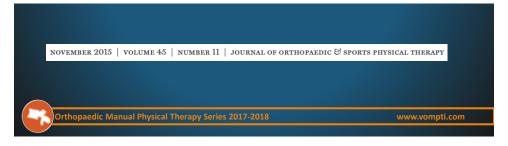


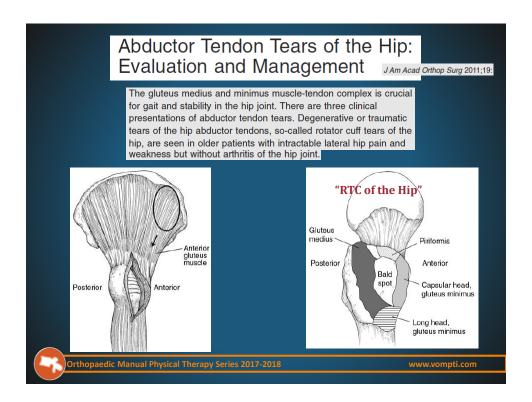


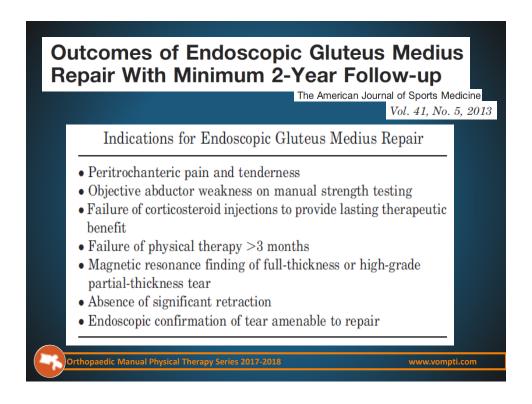
CLINICAL COMMENTARY

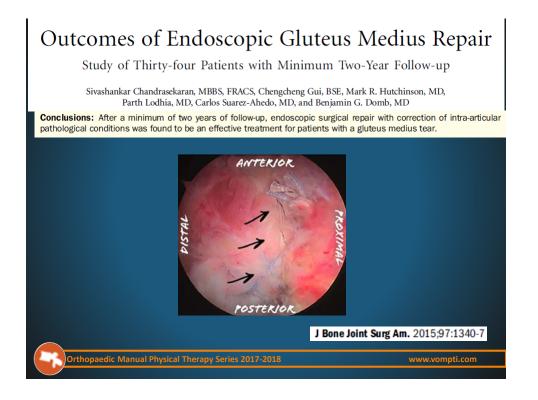
ALISON GRIMALDI, PhD1.2 • ANGELA FEARON, PhD3-5

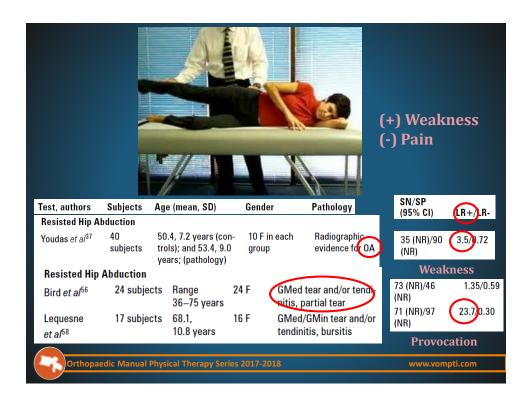
Gluteal Tendinopathy: Integrating Pathomechanics and Clinical Features in Its Management

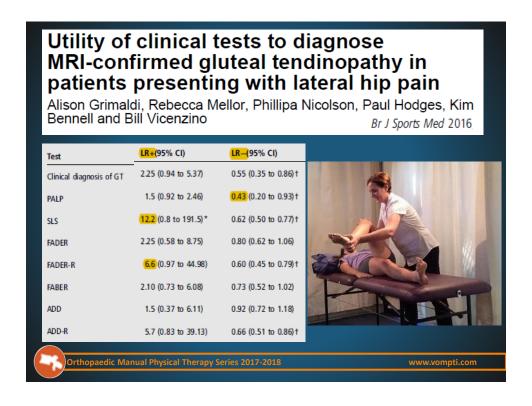












Utility of clinical tests to diagnose MRI-confirmed gluteal tendinopathy in patients presenting with lateral hip pain

Alison Grimaldi, Rebecca Mellor, Phillipa Nicolson, Paul Hodges, Kim Bennell and Bill Vicenzino

**Br J Sports Med 2016

Test	Test Clinical Diagnosis*		Palpation		FADER-R#		SLS^	
	+ve	-ve	+ve	-ve	+ve	-ve	+ve	-ve
Pre-test probability	50%	50%	50%	50%	50%	50%	50%	50%
	V	. ↓	↓	↓	V	V	V	
Likelihood Ratio +/-	2.25	0.55	1.5	0.43	6.6	0.6	12.2	0.62
	V	V	↓	\downarrow	V	\	↓	
Post-test probability~	69%	35%	60%	30%	87%	38%	92%	38%
	\	V	↓	V	V	V	V	V
Interpretation and implications of the LR	The clinical diagnosis test is slightly better at ruling out the condition (15%) than it is at ruling it in (19%).		A negative palpation test would indicate that there is a low probability of GT on MRI (by 20%), whereas a positive palpation test does not improve the likelihood of		A positive FADER-R improves confidence by approximately 40% that the lateral hip pain is present with MRI identified GT. A negative test is not so useful at ruling out GT		A positive test conclusively establishes that GT will be present on MRI (~doubles probability), whereas a negative test will not be as useful in negating its presence (only lowers it by	
			GT being present on MRI.		being present on MRI (12% reduction).			
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Femoral Acetabular Impingement (FAI) Abnormal contact stress and joint damage around the hip Prolonged sitting, leaning forward, getting in and out of a vehicle, or performing a pivoting motion in sports Bony deformity of the femoral head or the head/neck junction, acetabulum FAI may initiate osteoarthritis of

the hip

Radiographs demonstrate pincer-type FAI, cam lesions, and osteophytes on the

anterior femoral neck



