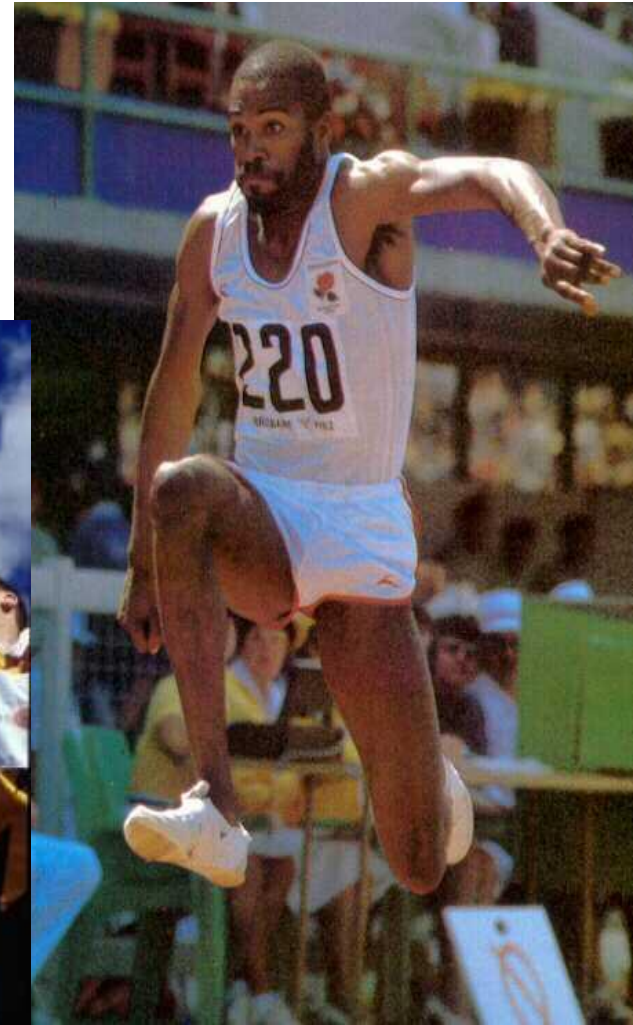


Clinical diagnosis of hip dysfunction

Trish Wisbey-Roth

Specialist Sport Physiotherapist (FACP),
Olympic Physio, Masters of Sport Physiotherapy
(AIS/UC)
Active Rehabilitation Consultant.



Case Study: Jane, presented April 2014

- Female 38 years old. Reported major problem areas as low back, pelvis anterior and posterior, right hip. No referred symptoms or pins and needles in legs.
- Occupation: Physiotherapy Practice Manager. Referred by Physiotherapist (owner of practice) after plateau of improvement and increasing symptoms over past 12 months. Pain Specialist recommended SIJ Prolotherapy after clear X Ray of hips.
- Constant pain VAS 6/10. Unable run for the past 12 months. Anti inflammatories, valium helps.

History

- Played moderate to high level sport as adolescent. Reported tendon issues in knees 14-17 years old, helped with patches.
- Has 3 children 11,6 and 2 years old.
- May 2012 when 3rd child 6 months old, commenced running 6-10kms, 3-4/7 days.
- 6-8 weeks later developed anterior/posterior right hip pain and low back/posterior pelvic pain.
- Had surgery August 2012 for 8cm linea alba diastasis to help back pain: symptoms worse post surgery.

History-2

- Increased pain with: stairs and hills; wakes with change of position at night. Can only sleep on left side. Anterior groin pain with cough/sneeze. Running and swim kicking increase pain significantly.
- No issues with sitting, driving.
- Clinical Pilates for 2-3 months with no change in symptoms.
- MRI showed L4/5 and L5/S1 disc degeneration without disc herniation, canal stenosis or nerve root compression. Early OA L4/5 facet. SIJ normal. X Rays hips normal.

Body Chart on Initial Examination

Allergies:
 Past Medical History:
 Medications:
 Neurofen pr.
 Voltin helps.
 Family/Social:
 11, 6 r
 Pippo 2 years old
 Pippo wife of sports
 Exclusion in class
 14-17 years old.
 Antisense patches.
 Antisense name.
 History of Tuberculosis

VAS 0 10
 HISTORY Unable to carry kids on C side

Hip Objective assessment

<u>LUMBAR/SIJ</u>		L	R			L	R			L	R
Standing FFT			re	ASLR	✓	re	Piriformis	✓			re
Stork (stance)	re		re	ASLR + core	✓	undamaged	Gemelli	✓			re
FABER	✓			ASLR + comp	✓	undamaged	TFL	✓			Glute Max
Gaenslen	✓			Sacrotub lig.	✓	re	Obt Ext	re			re
P4	✓			LDSIJ	re	re	Hamstrings	re			Med
SIJ glide AP	✓			Iliolumbar lig	re	✓	QL	re			tension
SIJ glide long	✓			Coccygeus	re	re	Psoas	re			

<u>HIP</u>		L	R			L	R			L	R
Flexion	✓		90°	Flex/IR	30°	50°	Pectineus	✓			70°
Extension	✓		0°	Flex/ER	✓	35°	Add Mag	re			90°
Abduction	3/4 re		✓	Ext/IR	20°	30°	Add Long	re			70°
Adduction	✓		✓	Ext/ER	15°	5°	Ant hip capsule	✓			70°
Quadrant	✓		✓	HS length	90%	90%	Iliacus	✓			70°
							Hip flexor tendon	✓			70°

PELVIC ASSESSMENT

✓ the ext ↑
 ✓ support out effect ↓ from 9/10
 ✓ 5/10 past treatment
 ✓ 4/10 c student

Tension Tests:

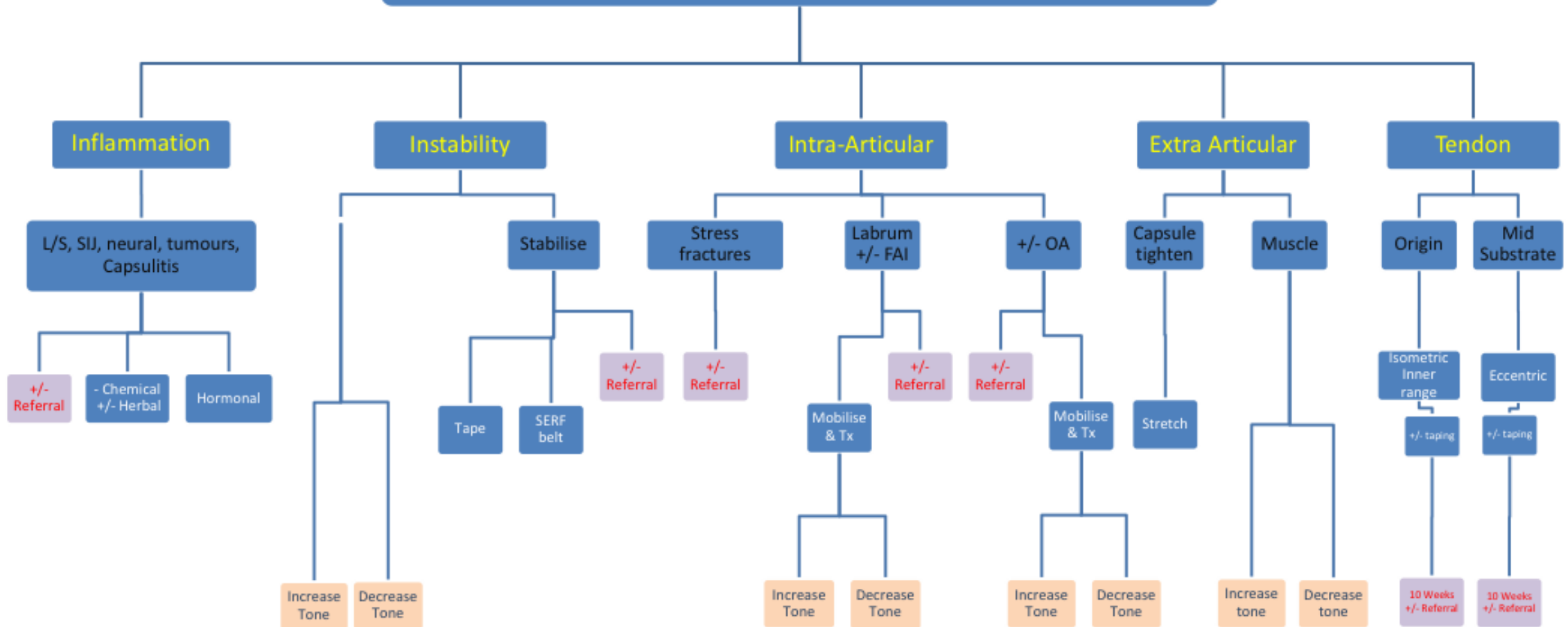
⑤



Hip

Hip Differential Diagnostic Flow Chart

(c) Trish Wisbey-Roth



Initial treatment and Correspondence.

- Release of obturator externus anterior and posterior.
- Taught self relaxation of deep hip muscle spasm.
- Taught postural cues in standing of hips back over heels and lumbar flexion. Proprioceptive taping of hips from Greater trochanter posterior.
- Muscle retraining with detailed handout :Pelvic Floor/TA; Iliacus; Quad fem; Ext rots + glut med G1-11.
- Detailed Letter to Treating Physio , GP, Pain Specialist.
- Letters requesting further blood tests, trial of medication and SPEC CT, +/- hip tendon Ultrasound.
- Post Rx: Hip int rotn /flex and ext rotn in extension 35 degrees. hip extension 20 degrees, active effort 4/10.

Treatment goals and Management plan.

Area	Treatment plan	
Clinical signs right glut max, medius tendinopathy	Postural re-education into spinal and hip flexion, Muscle re education Iliacus QF, Isometric high load, inner range for glut med, max and hip external rotators. proprioceptive taping. Possible women's health assessment.	
Right Hip anterior dynamic control issues	Releases obturator externus, lateral hip traction. Self relaxation of muscle spasm. Hips back over heel postural exercises. Retrain muscular slings: Posterior oblique, anterior oblique and lateral slings for conc/ecc control.	
Upper lumbar/thoracic stiffness into flexion/rotation	Mobilisation of stiff upper lumbar/ thoracic/ ribs particularly into flexion and rotation.	
Mid/low lumbar excessive mobility	Stabilisation exercises. Retrain pelvic floor, TA. Retrain thoracic rotation combined with hip function.	
Right sided neural tension and ankle/ calf issues	Spinal flexion exercises and neural unloading techniques around posterior hip region. Gentle active neural mobility exercises. T/C and foot mobilisations, eccentric calf exercises as tolerated.	
Further tests	Glucose, cholesterol, SPEC CT scans, Gluteal tendon US.	

References

- **Can local muscles augment stability in the hip? A narrative literature review.** T.H. Retchford, K.M. Crossley, A. Grimaldi et al *J Musculoskelet Neuronal Interact* 2013; 13(1):1-12.
- **Anterior hip joint force increases with hip extension, decreased gluteal force, or decreased iliopsoas force.** Cara L. Lewisa Shirley et al. *Journal of Biomechanics* 40 (2007) 3725–3731
- **Gluteus minimus: an intramuscular EMG investigation of anterior and posterior segments during gait.** Adam I. Semciw, T Pizzari et al (under review).
- **The gluteal triangle :a clinical patho-anatomical approach to the diagnosis of gluteal pain in athletes.** A Franklyn-Miller, E Falvey and P McCrory *Br. J. Sports Med.* 2009;43;460-466.
- **The greater trochanter triangle; a pathoanatomic approach to the diagnosis of chronic, proximal, lateral, lower pain in athletes.** E C Falvey, A Franklyn-Miller and P R McCrory *Br. J. Sports Med.* 2009;43;146-152.
- **The groin triangle: a patho-anatomical approach to the diagnosis of chronic groin pain in athletes** A Franklyn-Miller and P R McCrory *Br. J. Sports Med.* 2009;43; 213-220.

References

- **Is tendon pathology a continuum? A pathology model to explain the clinical presentation of load-induced tendinopathy.** J L Cook CR Purdam. *Br J of Sports med* 2009; 43; 409-416.
- **Biomechanical analysis of the single-leg decline squat** J Zwerver, S W Bredeweg, A L Hof. *Br J Sports Med* 2007;41:264–268
- **The active straight leg raising test (ASLR) in pregnant women: Differences in muscle activity and force between patients and healthy subjects.** Goot, M., Dreyfuss, et al (2004). *Manual Therapy Acad Orthop Surg* 255265, 12, 68-74.
- **Evidence - based diagnosis and treatment of the painful sacroiliac joint.** Laslett, M. (2008). *The Journal of Manual & Manipulative Therapy*, 16(3), 142-152.

BOUNCE[®] b.a.c.k EDUCATION



[TWITTER.COM/TRISHWISBEYROTH](https://twitter.com/TRISHWISBEYROTH)



[LINKDIN.COM/IN/TRISHWISBEYROTH](https://www.linkedin.com/in/TRISHWISBEYROTH)



[FACEBOOK.COM/BOUNCEBACKEXERCISES](https://www.facebook.com/BOUNCEBACKEXERCISES)

www.Bounceback.physio

<http://www.bounceback.physio/apa>

For access to presentation notes etc.