

GP Club: Musculoskeletal

DR JONATHAN KING SPORT & EXERCISE PHYSICIAN 2 March 2023

Cnr George & Minton St, East Gosford, NSW, 2250 02 4324 1849

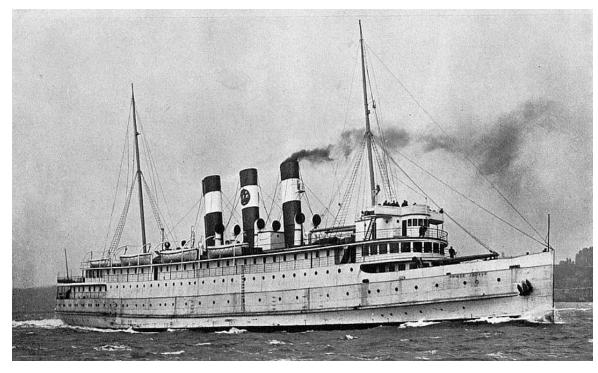
WE ACKNOWLEDGE THE TRADITIONAL OWNERS & CUSTODIANS OF THE LAND THAT WE LIVE & WORK ON AS THE FIRST PEOPLE OF THIS COUNTRY.



	GP CLUB: MUSCULOSKELETAL 2 March 2023			
TIME	ITEM	PRESENTER		
6:00 –6:30	Auditorium: Informal Networking & Dinner	ALL		
6:30 – 6:32	Auditorium: Welcome, Acknowledgement of Country, Slido, Introduction of Georgia	Sydney Cruikshank		
6:32-6:35	Auditorium: GP Welcome, Brief overview of session and introduction of presenter	Dr Georgia Page		
6:35 – 7:05	Auditorium: Main Presentation	Dr Jonathan King		
7:05 – 8.20	Introduction of Physio's	Dr Georgia Page		
	BREAKOUT ROOMS: Divide into groups to rotate through 3 skills stations (20 minutes each, 5 minute rotation)			
	Station 1: Shoulder Auditorium	Russell Tuckerman		
	Station 2: Lower Back Pain/SIJ/Hip Conference Room Station 2: Foot/Anklo	Andrew Nealon 🔵		
	Station 3: Foot/Ankle Seminar Room 2	Russell Wright (
8:20 – 8:30	Auditorium: Evaluation, Lucky Door Prizes & Session Close	Dr Georgia Page & Sydney Cruikshank		

HOW DID I GET HERE?

Grandfathers left Canton for South Africa 1910's.







How was I/my family affected by Apartheid?

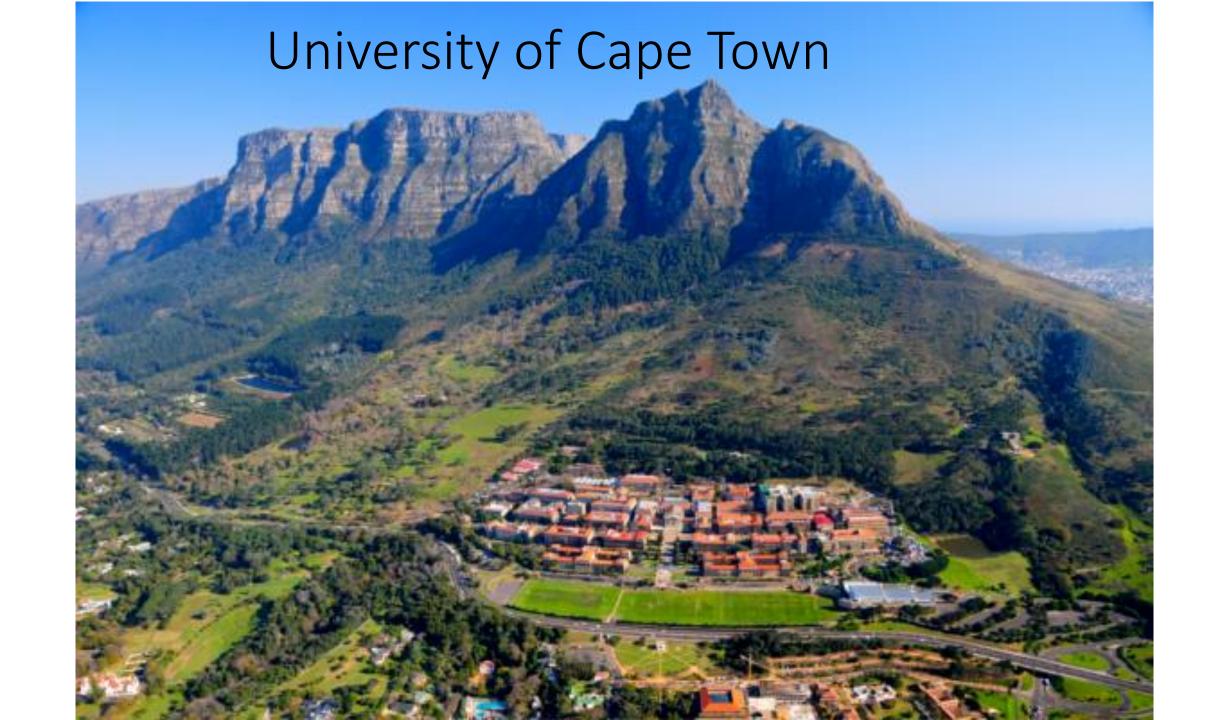
WHITE AREA

DIE AFDELINGSRAAD VAN DIE KAAP

BLANKE GEBIED

- Designated "non-white"
- Limitations of residency (group areas act), education, travel, socialising, employment opportunities, sporting, leisure, entertainment, dining, etc.
- Anti-apartheid sentiment was monitored.

- Family not forcibly removed!
- Not eligible for military service!
- Could move between "white" and "non-white" circles/ domains depending on location.
- Relatively privileged.



Khayelitsha and Crossroads





Livingstone and Groote Schuur Hospitals





COMMON HOSPITAL PRESENTATIONS

Adults

- Pneumonia
- TB
- Gastroenteritis
- Rheumatic Heart Disease
- Trauma: Stabbings, pneumothoraxes; abdomens
- Epilepsy

CHILDREN

- Infectious diseases:
 - Skin
 - Respiratory
 - Viral (e.g. Measles pneumonia)
 - Polio
 - Pertussis
- Malnutrition:
 - Marasmus
 - Kwashiorkor
- Rheumatic fever



Two Oceans Marathon: 56km



Comrades marathon 2019

Comrades Participation Trends

Year	Route	Entries	Starters	Starter %	Finishers	Finisher %	Male Finishers	Female Finishers	Male finisher %	Female Finisher %
2000	Up	24552	23961	97.6%	20016	83.5%	16716	3300	83.5%	16.5%
2001	Down	15361	14125	92.0%	11076	78.4%	9416	1660	85.0%	15.0%
2002	Up	12167	11395	93.7%	9029	79.2%	7844	1185	86.9%	13.1%
2003	Down	13303	12526	94.2%	11416	91.1%	9546	1870	83.6%	16.4%
2004	Up	12059	11364	94.2%	10126	89.1%	8562	1564	84.6%	15.4%
2005	Down	13899	13043	93.8%	11728	89.9%	9726	2002	82.9%	17.1%
2006	Up	12066	10857	90.0%	9848	90.7%	8239	1609	83.7%	16.3%
2007	Down	12006	11147	92.8%	10051	90.2%	8288	1763	82.5%	17.5%
2008	Up	11189	10330	92.3%	8626	83.5%	7214	1412	83.6%	16.4%
2009	Down	12952	11345	87.6%	10005	88.2%	8256	1749	82.5%	17.5%
2010	Down	23567	16482	69.9%	14338	87.0%	11210	3128	78.2%	21.8%
2011	Up	19591	12648	64.6%	11054	87.4%	8870	2184	80.2%	19.8%
2012	Down	19545	16613	85.0%	11887	71.6%	9553	2334	80.4%	19.6%
2013	Up	19907	18578	93.3%	10232	55.1%	8271	1961	80.8%	19.2%
2014	Down	20104	14693	73.1%	12037	81.9%	9597	2440	79.7%	20.3%
2015	Up	22402	16517	73.7%	12799	77.5%	10295	2504	80.4%	19.6%
2016	Down	21569	16807	77.9%	14433	85.9%	11474	2959	79.5%	20.5%
2017	Up	21494	17031	79.2%	13851	81.3%	11151	2700	80.5%	19.5%
2018	Down	21272	19047	89.5%	16482	86.5%	13110	3372	79.5%	20.5%
2019	Up	24594	19078	77.6%	16439	86.2%	13384	3055	81.4%	18.6%

TOPICS

- SHOULDER
- Lower back/ SIJ/ hip
- Foot/ Ankle

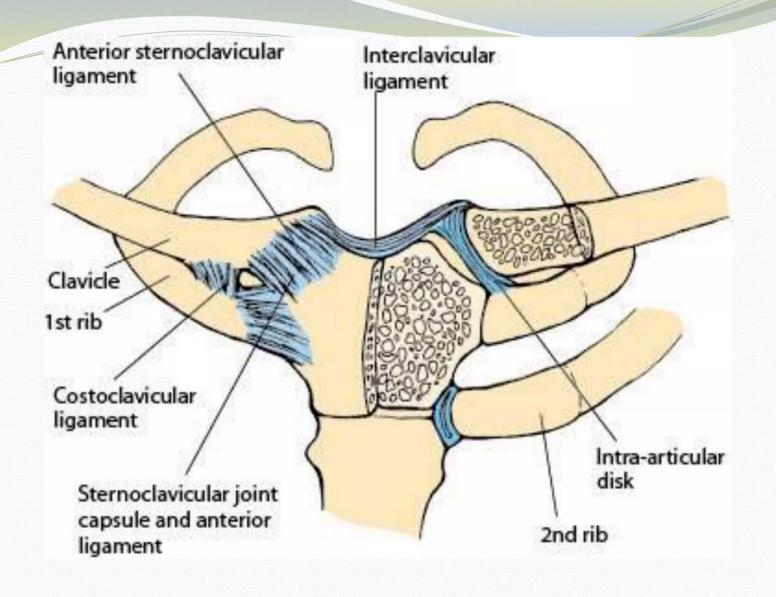




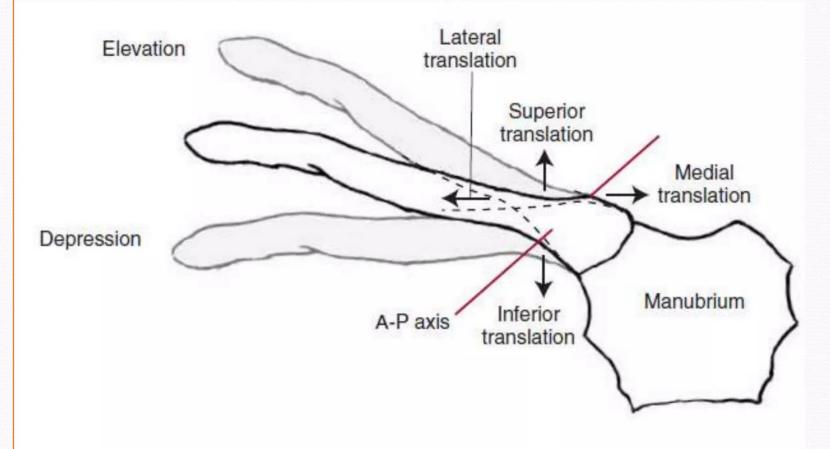
The shoulder

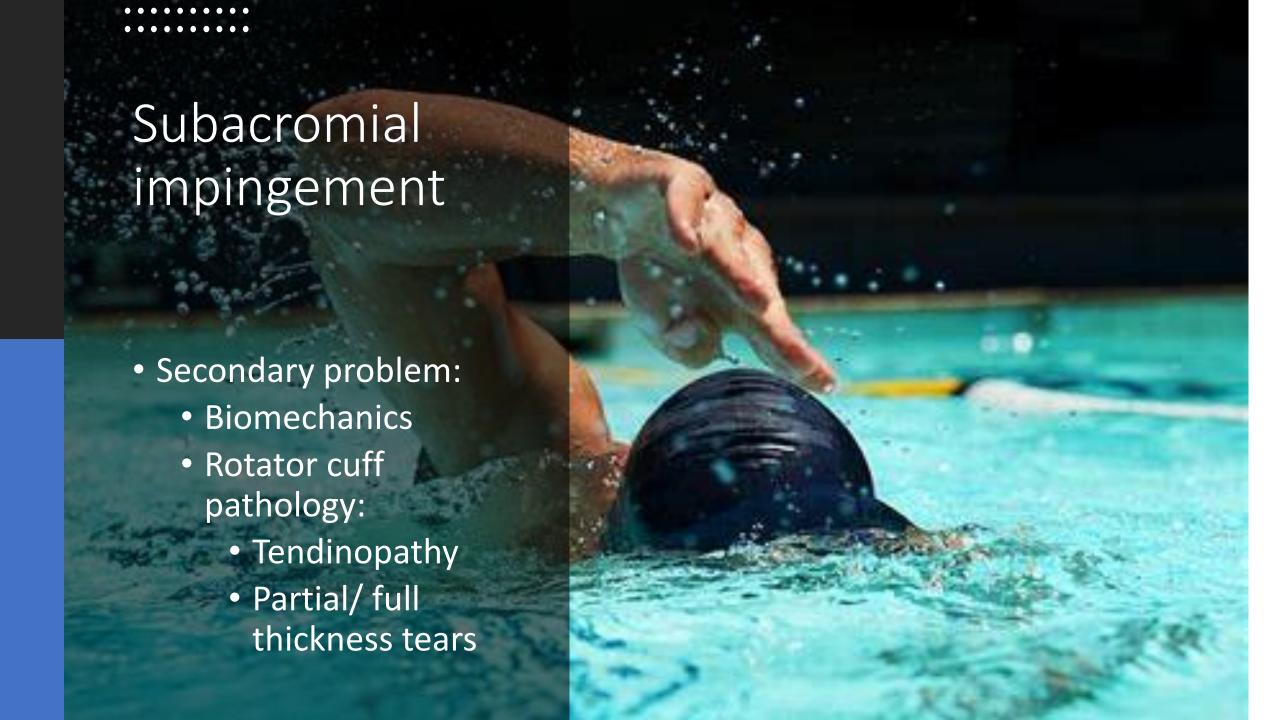


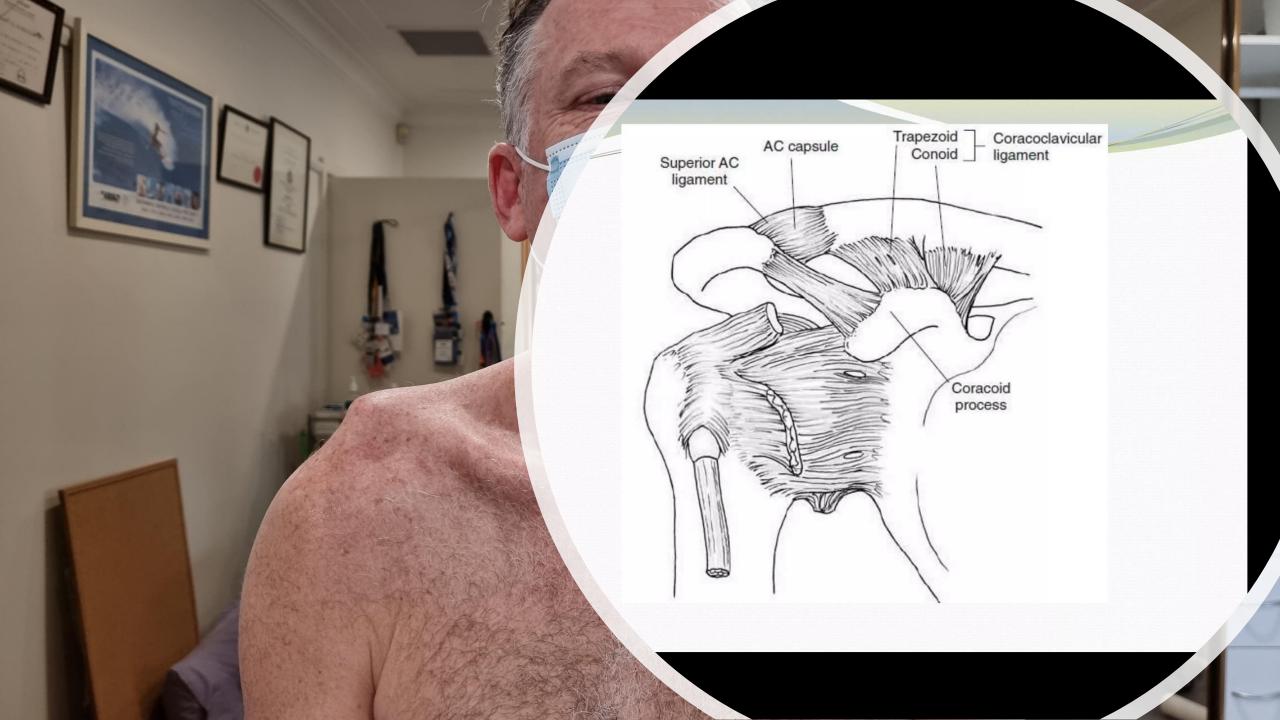




Elevation/depression of clavicle

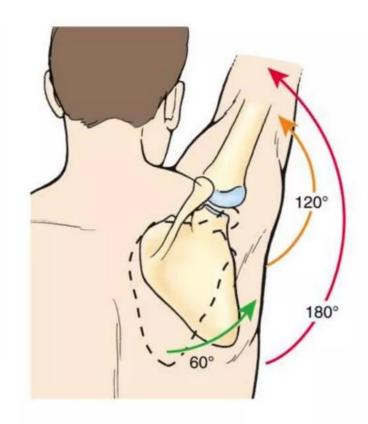




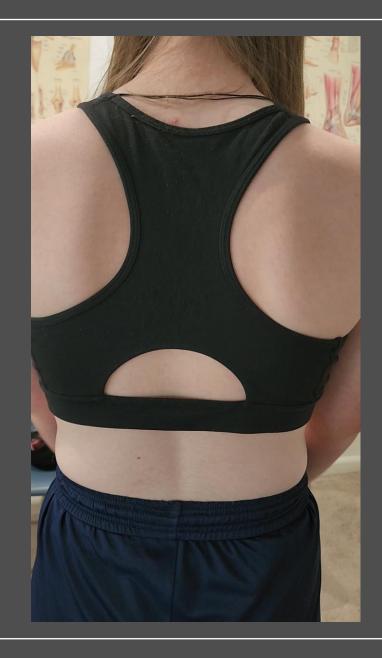


Scapulothoracic Articulation

- Elevation of the arm involves motion at both the glenohumeral and scapulothoracic articulations.
- The average ratio of glenohumeral to scapulothoracic motion is 2:1
- Elevation of the arm also induces complex rotatory motion of the scapula, with anterior rotation during the first 90° followed by posterior rotation with a total arc of approximately 15°









Musculoskeletal Shoulder problems

ATRAUMATIC

- Age based:
 - Young: Laxity, secondary impingement
 - Middle aged: Rotator cuff tendinopathy, partial tears, subacromial impingement
 - Older: Cuff tendinopathy, cuff tears, OA

TRAUMATIC

MECHANISM OF INJURY

- Fall:
 - AC joint, SC joint
 - Fracture : clavicle, humerus
 - Rotator cuff tear
 - Biceps rupture
 - Dislocation GHJ, ACJ, SCJ
- Outstretched arm
 - Dislocation GHJ
 - Brachial plexus injury
 - Pectoralis rupture
- Labral tear

Common shoulder presentations

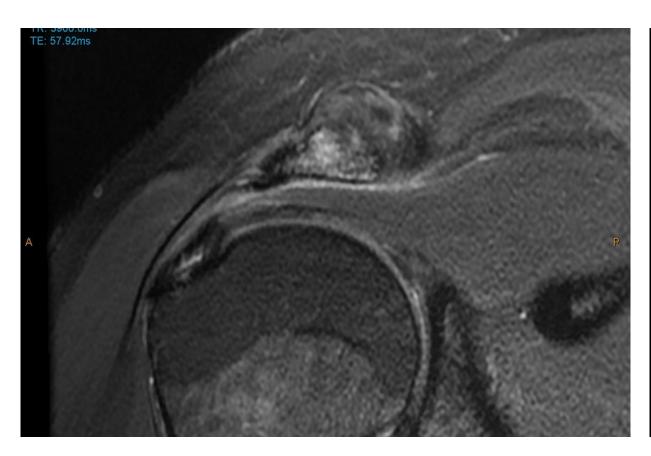
Overuse

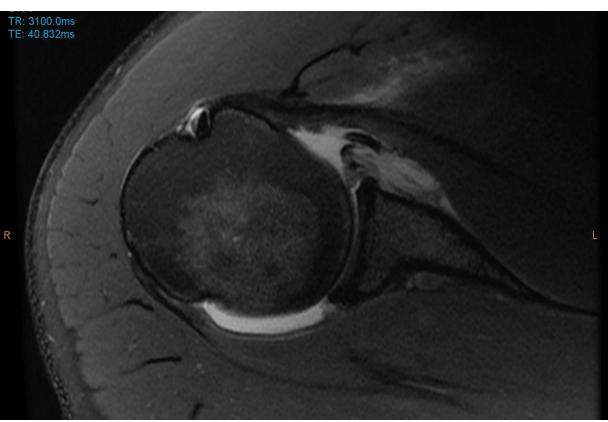
- Instability
- Impingement
- Cuff tendinopathy
- Labral tear/SLAP

Chronic

- Osteolysis distal clavicle
- GHJ osteoarthritis
- ACJ osteoarthritis

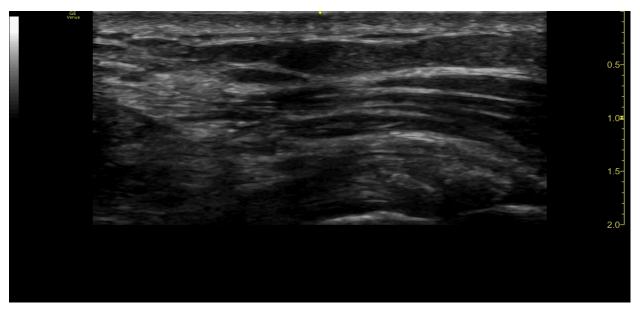
Cuff tear/ Anterior dislocation





Calcific tendinopathy Supraspinatus





(Common) hip presentations

- Dysplasia Groin/hip 12%
- Labral tear
- FAI
- Gluteal tendinopathy
- (Trochanteric bursitis)
- Osteoarthritis

Not to miss

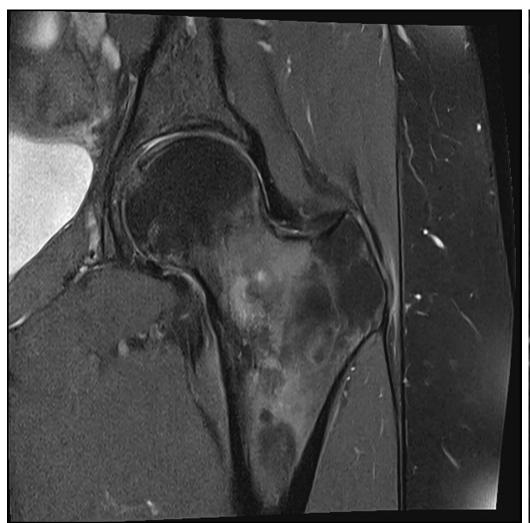
- Stress/ pathological fracture
- Infection
- Neoplasmigh 23%

Ankle 14%

Foot 5%

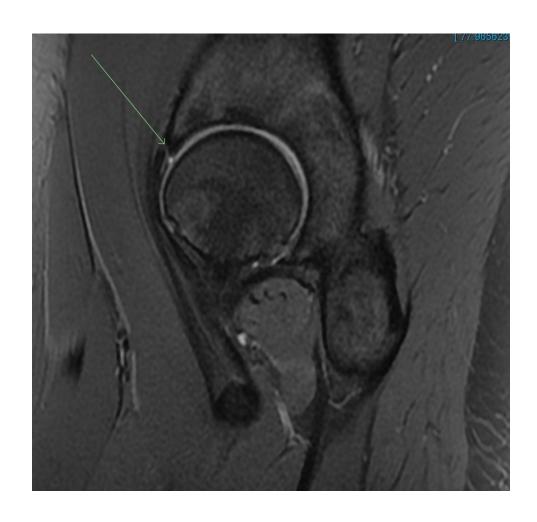
40y runner, 6 months L hip pain, training for Kilimanjaro.

Thyroid Ca, Seronegative arthritis, osteopaenia





Labral tear

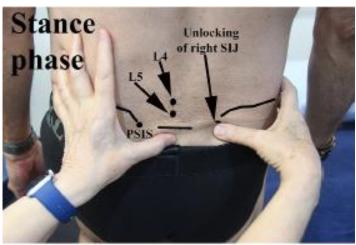


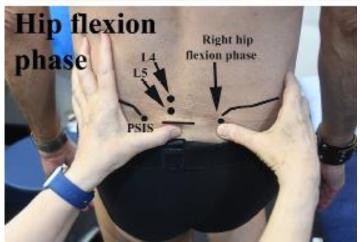


SIJ INSTABILITY, Laslett (2005), Hungerford, Saunders

- SIJ distraction*
- Thigh thrust*
- SIJ compression
- Gaenslen's
- Sacral thrust

- Active SLR
- Stork test









Diagnoses to exclude/ to not miss in Ankle and Foot.

Rearfoot

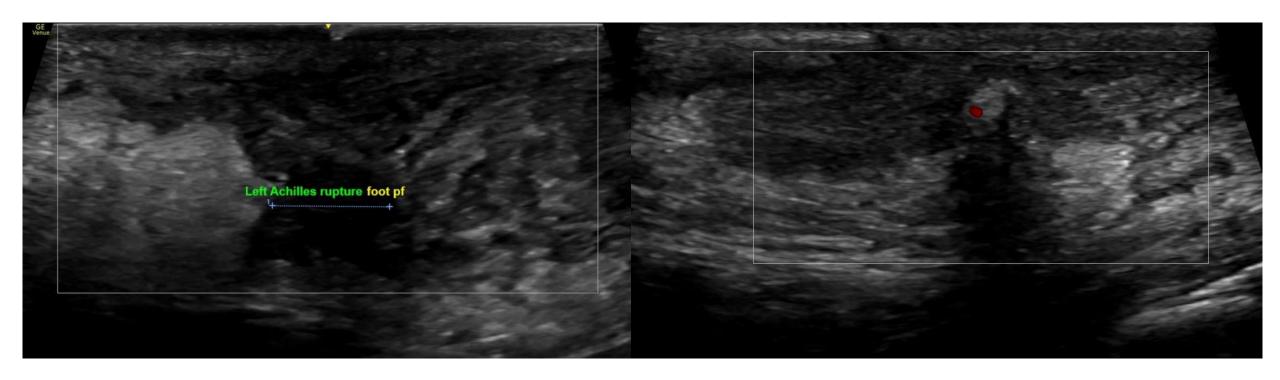
- Achilles tendon rupture: Clinical diagnosis
- Retrocalcaneal bursitis
- Posterior impingement
- Proximal vs insertional Achilles tendinopathy
- Plantar fasciitis vs heel fat pad insufficiency

Midfoot

- Tibialis posterior tendinopathy/ dysfunction
- Peroneal tendinopathy
- Base 5th MT fracture
- Navicular stress fracture

Achilles tendon rupture is a clinical diagnosis:

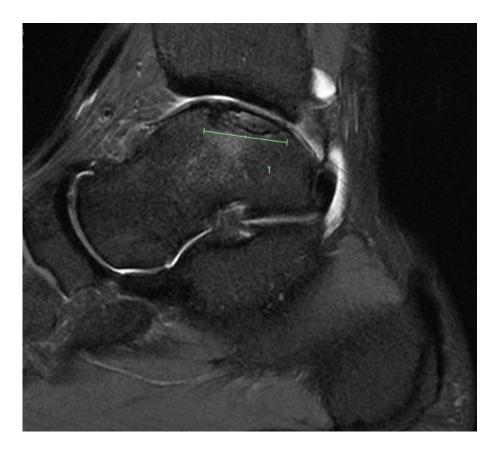
Simmonds/Thompson test; palpation.



Osteochondral defect: talus







Tibialis posterior tendon dysfunction

- Progressive flat foot in middle aged.
- Medial midfoot pain
- Difficulty single leg heel raise
- "Too many toes" sign
- Orthotics
- Tib post strengthening
- FDL tendon transfer/ calc osteotomy...





GNW 100 mile trail race







	GP CLUB: MUSCULOSKELETAL 2 March 2023		
TIME	ITEM	PRESENTER	
6:00 -6:30	Auditorium: Informal Networking & Dinner	ALL	
6:30 – 6:32	Auditorium: Welcome, Acknowledgement of Country, Slido, Introduction of Georgia	Sydney Cruikshank	
6:32-6:35	Auditorium: GP Welcome, Brief overview of session and introduction of presenter	Dr Georgia Page	
6:35 – 7:05	Auditorium: Main Presentation	Dr Jonathan King	
7:05 – 8.20	Introduction of Physio's	Dr Georgia Page	
	BREAKOUT ROOMS: Divide into groups to rotate through 3 skills stations (20 minutes each, 5 minute rotation)		
	Station 1: Shoulder Auditorium	Russell Tuckerman	
	Station 2: Lower Back Pain/SIJ/Hip Conference Room Station 3: Foot/Ankle	Andrew Nealon	
	Seminar Room 2	Russell Wright (
8:20 – 8:30	Auditorium: Evaluation, Lucky Door Prizes & Session Close	Dr Georgia Page & Sydney Cruikshank	

GP Club -Musculoskeletal

CENTRAL COAST: 2 MARCH 2023







Vertical Integration for Central Coast GPs, Registrars, JMOs & Medical Students

LEARN & CONNECT

LUCKY DOOR PRIZE AT EVERY SESSION!

You are invited to join colleagues for online learning in a supportive environment facilitated by experienced GP educators. Designed to be informative and collaborative, there is an opportunity to learn, mentor and build new relationships. There is no cost to participate or obligation to attend every session. Please put the dates in your calendar now.

Vertical Integration Online Teaching & Learning Sessions are held from 7.30 am - 8.30 am via MS Teams.

DATE SPEAKER / SESSION

15th March 2023 Dr Gordon Lau: Mental Health eResources Update

29th March 2023 Dr Dimity Pond: "How to Approach the Patient with Memory Impairment"

26th April 2023 Dr Michelle Reiss: Diabetes Reversal

Vertical Integration will also be held on the following dates, topics are to be confirmed:

10th May, 24th May, 7th June, 21st June 2023

RSVP: Please click here to register

ENQUIRES: jpearson@thephn.com.au or 0428 168 258

Our Vertical Integration Program includes a face to face GP CLUB which will be held

On 2nd March 2023. Please click here to register.

Dr Jonathan King will be covering Musculoskeletal Medicine.



THEPHN.COM.AU