Women's Health Physiotherapy and Rural Practice

Tory Toogood, MACP, WMPH Physiotherapist Dr Patricia Neumann, PhD, FACP

Specialist Women's Men's Pelvic Health Physiotherapist

(as awarded by the Australian College of Physiotherapists in 2010)

1

Learning objectives

- Scope of practice for WH physio
- Scope of practice for generalist physio, who and when to refer
- Clinical practice guidelines pertinent to WH physio
- · Screening tools available
- Mentoring support

What does WH physio do?

We cover

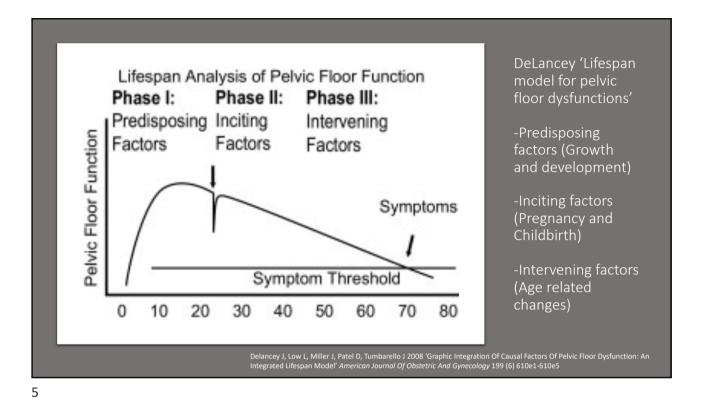
- continence bladder and bowel
- ante and post natal MSK care
- pelvic pain
- breast health
- post cancer support, exercise, including lymphoedema care
- exercise throughout the lifespan of women
- bone health
- sexual health

Men's health
Children's continence

3

Today's content

- Overview of Pelvic Floor Dysfunctions
 - Urinary incontinence
 - Pelvic organ prolapse
 - Faecal incontinence
 - Persistent pelvic pain
- · Primary care management
- Screening tools and clinical practice guidelines
- Not covered today
 - Pregnancy, other than guidelines
 - Men's or children's continence



Prevalence

- Females
 - Urinary incontinence 35%
 - Faecal incontinence 11% flatus
 - 4% faecal
 - Vaginal prolapse 9% symptoms
 - 10% surgery
 - · 22% with two problems
 - 9% with three
 - 46% of women have some major PF dysfunction*
 - 50% of women have some degree of POP **
 - *(MacLennan A, Taylor, A, Wilson D (200) The Prevalence of Pelvic Floor Disorders and Their Relationship to Gender, Age, Parity and Mode of Delivery. BJOG 107:1460-1470)
 - **(Thakar and Stanton (2002) Management of genital prolapse. British Medical Journal. 324(7348): 1258-1262)

More than...

- Diabetes (6.2%)
- Asthma (12.7%)
- Arthritis (21.2%)
- Osteoporosis (4.8%)
- In South Australia (Avery et al 2004. 'The impact of incontinence on health-related quality of life in a South Australian population sample' ANZJPH 28:173-179)

8

Risk factors for UI

- female gender, in particular pre and post natal women
- advanced age
- menopause
- obesity
- · recurrent urinary tract infections
- · reduced mobility
- · some medications
- Gynae surgery hysterectomy
- neurological diseases such as multiple sclerosis
- Familial tendencies especially paediatric nocturnal enuresis, EDS
- Various medical disorders including diabetes mellitus and insipidus, COPD
- · Dementia.
 - (AIHW Chronic diseases and associated risk factors in Australia, 2006)

UI

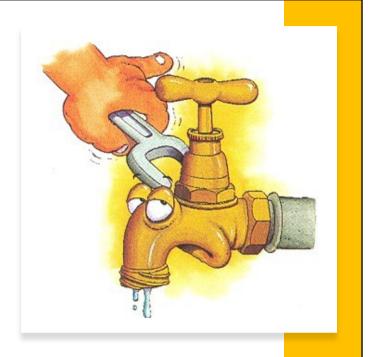
Urine can leak for many reasons

- it's a plumbing problem (water pressure or washer?)

It could be

- · Stress incontinence
- Urge incontinence
- Overflow

Requires full assessment and not simply treating the symptoms



11

Bladder Continence – Stress Urinary Incontinence (SUI)

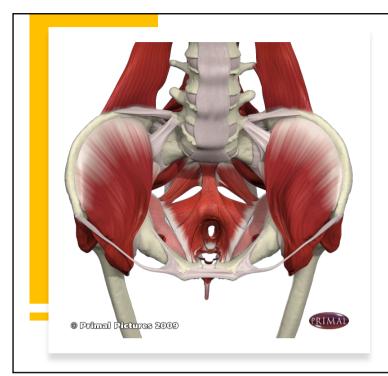
- "the complaint of any involuntary loss of urine on effort or physical exertion or on sneezing or coughing".
- happens during physical movement or activity, conditions that elevate the abdominal pressure (stress) on the bladder.
- not related to psychological stress.
- Haylen BT et al. An International Urogynecological Association (IUGA)/International Continence Society (ICS) Joint Report on the Terminology for Female Pelvic Floor Dysfunction. Neurourol Urodyn 2010; 29:4–20

SUI

- First line therapy for SUI is physio this is Level 1A evidence
- Management should be evidence based to be effective that it is assessed and treated by a trained women's health / pelvic health physio
- Leaking with exercise may not be due to "Stress incontinence"
- A loss of 5-10kg in body weight can improve stress incontinence by 70%, which could be a cure for many (Wing et al 2010)

13

Landmarks Acetabulum (Socket) Ischium Pubis



What cues for a PFMC?

"Close the back passage, close the vagina, close the front passage and draw up to just over your pubic bone"

The "feeling of stopping a wee", "of holding in wind"

In tall sitting on a firm chair

Hold for 10 seconds, then relax.

15

Knack

- "a learned voluntary pelvic floor muscle contraction to increase urethral closure pressure to counter a rise in intra-abdominal pressure (for example, with a cough)" (Miller 1998)
- taught to most as a risk management strategy (cough, lifting)
- around 30% of women do not correctly contract their PFM (Bo et al 1988, Bump et al 1991, Henderson et al 2013)
- teaching the Knack as a routine and encouraging further assessment from a WMPH PT if it isn't working is a pragmatic approach. (Bo ICS online lecture 2020)

Squeeze and lift the pelvic floor
 Small cough
 Breathe out (relax abdominal wall)
 Relax the pelvic floor

Bladder Continence – Urge Urinary

Incontinence

- ICS "The complaint of involuntary loss of urine associated with urgency."
- Urgency: A compelling need to urinate which is difficult to defer (pain, pressure, discomfort)
 - ICS Glossary

Urge Urinary Incontinence

- The feeling of being "busting" loss on the way to the toilet, often has a behavioural component "key in door", running water
 - "just in case" voiding, cold temperature
 - Worse with limited access to loo (toilet map app from CFA / AusGov)
 - can also be related to total fluid intake
 - can be related to atrophy post menopause
 - can be related to constipation, IBS irritated neighbours
 - can be related to stress / anxiety an upregulated nervous system
 - Can be a sign of MS, PD, CVA ref to Dr for further investigation

19

Basic advice for UUI

- · Stop and calm
- Don't rush
- Drink a moderate amount of fluids, avoiding bladder irritants coffee, caffeine, artificial sweetener, carbonated drinks
- Full assessment by WMPH PT will include red flags, bladder diary, medication list, bowels, contribution from mixed UI.
- It is far more complex than "just hold on", timed voiding, or restricting fluids

Pepsi max

Fluids

- 1.5 2L pd output covers normal range, habits.
- · Much more could be diabetes, could be habit
- Importantly for bowel health / constipation management more is not better.
- 24ml/kg/day is ideal (ICI International Consultation on Incontinence)
- >40ml/kg/day is polyuria, loss of electrolytes and water soluble vitamins

21

Mixed Urinary Incontinence

- Mixed Urinary Incontinence : "the complaint of involuntary leakage associated with urgency and also with physical exertion, effort sneezing or coughing" ICS
- About 30% of the women with incontinence have Mixed Urinary Incontinence (MUI), higher degree of than in SUI

Impact of UI in women

- can cause embarrassment, isolation, fear of leaving house
- · fear of an accident
- affect friendships and intimate relationships
- cause her to stop sport (and further health risks w that, loss of social inclusion)
- #2 reason for admission to a nursing home (after mobility issues)

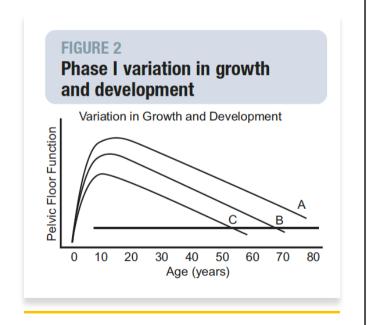
23

Importance of exercise and nutrition

DeLancey et al 2008

Peak strength - activity in adolescence, overall fitness, overall health, good habits

Delancey J, Low L, Miller J, Patel D, Tumbarello J 2008 'Graphic Integration Of Causal Factors Of Pelvic Floor Dysfunction: An Integrated Lifespan Model' *American Journal Of Obstetric And Gynecology* 199 (6) 610e1-610e5





25

Women in sport

- high numbers report UI
 - ? very high loads experienced
 - ? coordination difficulties
- Typical age ranges playing netball and tennis locally?
- Working on properties with lifting, jumping, repeated heavy work?
- Coughing and sneezing > most sports, stopping the sport is not usually an adequate management strategy.



27

Deloitte findings, 2011 In 2010, 4.6m people or 21% of the community population have urinary or faecal incontinence, or both. In nursing homes, 70.9% more than half of people with UI are aged 50 years and above. 80% of those with UI are women. >50% of women in the community with UI are <50 years old 1.7m women. Projected rise to 5.6m in 2030 (UI) and 1.8m with faecal incontinence (6.2m with any incontinence). NH residents with incontinence is expected to rise to over 250,000.

2010 Costs

- Total cost \$42.9 billion (\$9014 pp w UI)
 - · Health care
 - · Lost productivity employees and carers
 - formal care and aids \$1.96 billion.
 - Deadweight losses
- The monetary value of the burden of disease in 2010 is \$23.8 billion. If this is added to the financial costs, the overall cost of incontinence is \$66.7 billion in 2010, or approximately \$14,014 per person with incontinence.

29

Faecal Incontinence and Constipation

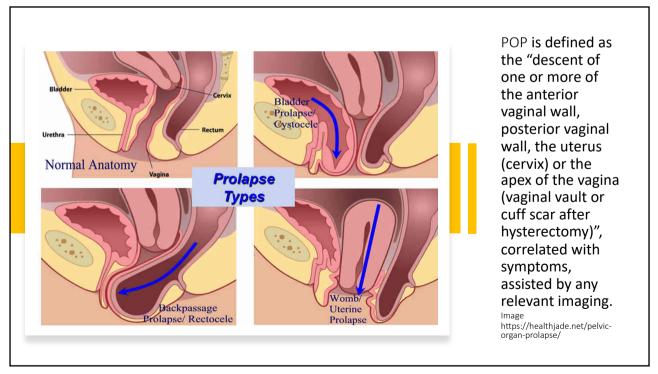
- FI involuntary loss of faeces
- AI (anal incontinence) involuntary loss of faeces or flatus.
- FI/AI may be due to disordered gut function or sphincter weakness
- Straining to empty
 - a sign of constipation, rectocele, overactive pelvic floor, rectal prolapse, intussusception, bowel cancer, obstructed defaecation – there are lots of reasons – ref to GP for further investigation, but then know that WMPH physio can help
- Management by WMPH PT diet, fibre, lifestyle, education, up or down training of PFM

Bowel health

- Constipation and diarrhoea signs that the gut isn't working optimally - many causes
- Can be a sign of bowel cancer referral needed
- Post natal FI -3/4th degree tears
 - Covered more in the pregnancy / childbirth / post natal talk
 - Sphincter damage in childbirth
 - Multi disciplinary team support



31



Pelvic Organ Prolapse

- ref to GP to exclude pathology
- Conservative management: PFMT, managing loads, length of time on feet, pessaries (with gynae / GP support and additional training)
- According to the ACQSHC and APA, POP management is within WHPT scope of practice and doesn't need specific training, only 'interest'.
- Risks and benefits to pessaries thorough assessment, looking at her life, her goals, her roles and what is the best solution for her, which may include surgery – work with gynae team.

33

Chronic Pelvic Pain Syndrome

- Not visible
- · Embarrassing to discuss sexual pain
- · Not validated by a bandage or splint
- Relevance
 - Present with various pains not just pelvic/vaginal
 - Sensitisation
 - FM, CFS, LBP* (>90%) ask re CPPS
 - 15-25% women
 - *Dufour et al 2018







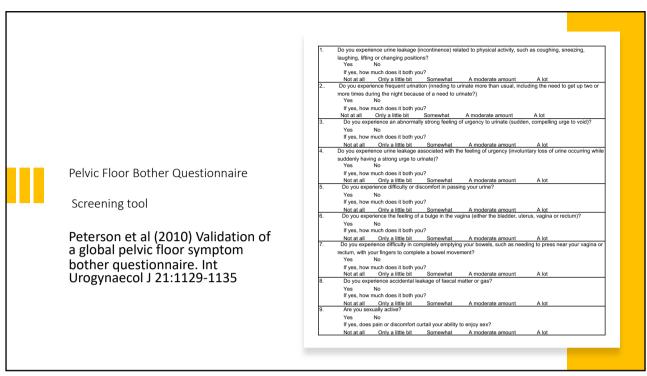


Chronic Pelvic Pain Syndrome

- Review with a GP / gynae as pain is not normal
- Common in endometriosis, even in teens excessive pain with period, pain with using a tampon, intercourse
- Complex area pelvicpain.org.au
- Can be associated with trauma
- Combination of pain education, utilising Explain Pain principles, questionnaires, and a full psychosocial approach. Graded exposure and activity, a lot of sexual counselling and often support with a psychologist, with an expectation of full return of function

37

How can you start the conversation..? • If you don't ask, they won't tell • Is UI or POP a driver of non-compliance with your exercise program? • Screening tools help



39

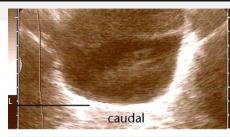
PelvicFloorFirst.org.au

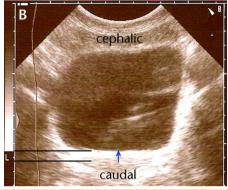
Use a Pelvic Floor First screening tool to identify at-risk clients



Considerations

- · Strong vs weak
- PFMT so much more than kegels
- · Need for PFM assessment
 - Signs of weakness SUI, dragging, heaviness
 - Signs of overactivity pain, slow flow urine, feeling of incomplete empty, dragging, heaviness
- Could you be making her worse? Does she then feel that physio made her worse?
- Interpretation of Real Time Transabdominal ultrasound.





42

Useful Resources

- Continence Foundation of Australia www.continence.org.au
- PelvicFloorFirst.org.au
- QENDO, Pelvic Pain Foundation
- ACOG Physical Activity in Pregnancy 2020
- Canadian Physical Activity in Pregnancy 2019 Mottola et al
- Pelvic Girdle Pain in Pregnancy European guidelines 2008 Vleeming et al
- RANZCOG Exercise in Pregnancy 2020
- Return to Running Postnatal Guidelines Brockman, Donnelly and Goom 2019

APA Career Pathway for WMPH - still being written

- Level 1 (Foundation) mostly online content
 - Choice of pathways WH Through the Life Stages, Pelvic Health Physio
- Level 2 (Intermediate)
- Level 3 (Highly developed) = Current Titled Physio Masters or Experiential pathway
- Level 4 (Expert) = Specialisation, 2 yr training program, Fellow of the Australian College of Physiotherapists

44

University options in Women's Health

- Curtin Uni, Perth -Graduate Certificate and Master's degree
 - Masters of Clinical Physiotherapy in C+WH
- Melbourne Uni Graduate Certificate in Physiotherapy and Master's Degree
 - Pelvic Floor Physiotherapy
 - Exercise and Women's Health
- UniSA Professional Certificate
 - Conservative Management of POP



Big messages

- Incontinence and Pelvic Floor Dysfunction is common but under-reported & under treated
- Goal keep people exercising and being physically active PFD is a barrier
- Opportunity and duty of care to screen and identify problems PFF, Peterson
- Managing PFD is complex, is not just about strengthening the PFM, requires a specifically trained practitioner as only around half of women will do a PFMC correctly. Half won't.
- Collaborate with Pelvic Floor Physio -there is great scope for all PTs and WMPH PTs to work together to optimise outcomes
- Knack worth teaching, and if not helping, refer to WMPH PT for further assessment and management; co treating is often utilised
- Pregnancy and Post natal is the other significant field we work in next time.

46

Conclusion

- As a primary care practitioner in a rural or remote community, you have such an important role in connecting with women.
- Screen for PFD with back pain, in older age, before pilates class or Cross Fit intake
 - Refer for expert help (GP, WMPH physio)
- You can create a safe space for her, empowering her by listening and sending her towards the help she needs.
- Your community needs you to advocate for them. Help is available.

References

- AIHW Chronic diseases and associated risk factors in Australia, 2006
- Avery et al 2004. 'The impact of incontinence on health-related quality of life in a South Australian population sample' ANZJPH 28:173-179
- Birsner and Gyamfi-Bannerman 2020 ACOG Committee on Obstretric Practice Opinion Physical Activity and Exercise during Pregnancy and Post Partum Number 804
- Delancey J, Low L, Miller J, Patel D, Tumbarello J 2008 'Graphic Integration Of Causal Factors Of Pelvic Floor Dysfunction: An Integrated Lifespan Model American Journal Of Obstetric And Gynecology 199 (6) 610e1-610e5
- Deloitte Access Economics 2011. The Economic Impact of Incontinence in Australia, Continence Foundation of Australia
- Dufour S, Vandyken B, Forget M, Vandyken C. 2018, 'Association between lumbopelvic pain and pelvic floor dysfunction in women: A cross sectional study' Musculoskeletal Science and Practice 34: 47-53
- Eliasson K, Larsson T, Mattsson E. 2002, 'Prevalence Of Stress Incontinence In Nulliparous Elite Trampolinists' Scand J Med Sci Sports: 12: 106–110
- Goom et al 2019 "Returning to running postnatal –guidelines for medical, health and fitness professionals managing this
 population" [https://mailchi.mp/38feb9423b2d/returning-to-running-postnatal-guideline]
- Gyhagen et al 2015 'Clustering of pelvic floor disorders 20 years after one vaginal or one cesarean birth" IUJ
- Haylen et al (2010) An IUGA / ICS joint report on the terminology for female PFD. Int Urogynaecol J 21:5-26
- Henderson et al 2013. Can women correctly contract their pelvic floor muscles without formal instruction? Female Pelvic Med Reconstr Surg. 19(1): 8–12

48

References

- Jiang et al (2004) Exercise and urinary incontinence in women. Obstet Gynecol 75:848-85
- Jurgensen, S, Borghi-Sila, A, Bastos, A, Correia, G, Periera-Baldon, V, Cabiddu, R, Catail, A & Driusso, P. 2017. Relationship Between Aerobic Capacity And Pelvic Floor Muscles Function: A Cross-Sectional Study. Brazilian Journal Of Medical And Biological Research, 50
- Kruger J, Dietz HP, Murphy B (2007) 'Pelvic Floor Function In Elite Nulliparous Athletes'. Ultrasound In Obstetrics & Gynecology: 30: 81-85
- Kudish, BJ, Iglesia, CB, Sokol, RJ, Cochrane, B, Richter, HE, Larson, J, Hendrix, SL & Howard, BV, (2009) 'Effect Of Weight Change On Natural History Of Pelvic Organ Prolapse', Obstetrics And Gynecology, Vol. 113, No. 1, Pp. 81-8
- MacLennan A, Taylor, A, Wilson D (200) The Prevalence of Pelvic Floor Disorders and Their Relationship to Gender, Age, Parity and Mode of Delivery. BJOG 107:1460-1470
- MILLER, J. M., ASHTON-MILLER, J. A. & DELANCEY, J. O. 1998. A Pelvic Muscle Precontraction Can Reduce Cough-Related Urine Loss In Selected Women With Mild SUI. Journal Of The American Geriatrics Society, 46, 870-874.
- Mottola et al 2019, 2019 Canadian guideline for physical activity throughout pregnancy. BJSM 52 1339-1346
- Mounsey, A, Raleigh, M & Wilson, A (2015) 'Management Of Constipation In Older Adults' American Family Physician 15:92(6):500-4.
- Nygaard, IE & Shaw, JM 2016, 'Physical Activity And The Pelvic Floor', American Journal Of Obstetrics & Gynecology, Vol. 214, No. 2, Pp. 164-171

References

- NYGAARD, I., GIRTS, T., FULTZ, N. H., KINCHEN, K., POHL, G. & STERNFELD, B. 2005. Is Urinary Incontinence A Barrier To Exercise In Women? Obstetrics & Gynecology, 106, 307-314. PelvicFloorFirst.org.au
- PelvicPain.org.au
- Peterson et al (2010) Validation of a global pelvic floor symptom bother questionnaire. Int Urogynaecol J 21:1129-1135
- Rortveit et I 2010 'Urinary incontinence, fecal incontinence and pelvic organ prolapse in a population-based, racially diverse cohort. Prevalence and risk factors' Female Pelvic Med Reconstr Surg. 16(5): 278–283
- Thakar and Stanton (2002) Management of genital prolapse. British Medical Journal. 324(7348): 1258-1262
- Thyssen et al (2002) Urinary incontinence in elite female athletes and dancers. Int Urogynecol J Pelvic Floor Dysfunct. 13:15-7
- Vleeming, A., et al (2008), European guidelines for the diagnosis and treatment of pelvic girdle pain. Eur Spine J 17(6): p. 794-819.
- D Vrijens, B Berghmans, F Nieman, J Van Os, G Van Koeveringe, C Leue 2017 'Prevalence Of Anxiety And Depressive Symptoms And Their Association With Pelvic Floor Dysfunctions—A Cross Sectional Cohort Study At A Pelvic Care Centre'. Neurourology And Urodynamics. 2017;36:1816–1823
- RANZCOG 2020 C-Obs 62 Exercise during Pregnancy