

PHYSIOTHERAPY FORUM - ICS MADRID 2024

Managing persistent pelvic pain: what do I do? – materials for participants

CONCEPTS AND FRAMEWORKS TO GUIDE EVIDENCE-BASED PRACTICE

EBP:

Haynes RB, Devereaux PJ, Guyatt GH. Clinical expertise in the era of evidence-based medicine and patient choice. ACP J Club. 2002 Mar-Apr;136(2):A11-4.

Clinical decision-making:

Frawley, H. C., & Brennen, R. (2023). Gynaecological cancer and pelvic floor dysfunction, ch 13. In K. Bø, L. C. Berghmans, M. van Kampen, & S. Morkved (Eds.), Evidence based physical therapy for the pelvic floor: bridging science and clinical practice (3rd ed.). London: Elsevier.

Frawley, H. C., & Morin, M. (2023). Chronic pelvic floor pain, ch 9. In K. Bø, L. C. Berghmans, M. van Kampen, & S. Morkved (Eds.), Evidence based physical therapy for the pelvic floor: bridging science and clinical practice (3rd ed.). London: Elsevier.

Goal setting, decision aids:

SMARTA goals: <https://www.health.gov.au/sites/default/files/documents/2021/01/principles-for-goal-setting.pdf>

NSQHS: https://www.safetyandquality.gov.au/sites/default/files/2019-06/d19-11917_identifying_goals_of_care_tip_sheet_for_clinicians_-final_accessible_pdf_-_24_apr_2019.pdf

<https://decisionaid.ohri.ca/docs/das/OPDG.pdf>

<https://www.nhsaaa.net/wp-content/uploads/20190411painmanagementworkbook.pdf>

<https://www.england.nhs.uk/wp-content/uploads/2024/09/PRN00675-ii-making-decisions-to-help-you-live-well-with-chronic-primary-pain.pdf>

REFERENCES – MALE CASE

- Allaire, Catherine Yong, et al. SOGC Guideline No. 445: Management of Chronic Pelvic Pain. Journal of Obstetrics and Gynaecology Canada , Volume 46, Issue 1, 102283
- Anderson RU, Wise D, Sawyer T, Chan C. Integration of myofascial trigger point release and paradoxical relaxation training treatment of chronic pelvic pain in men. J Urol. 2005 Jul;174(1):155-60.
- Basson A, Olivier B, Ellis R, Coppieters M, Stewart A, Mudzi W. The Effectiveness of Neural Mobilization for Neuromusculoskeletal Conditions: A Systematic Review and Meta-analysis. J Orthop Sports Phys Ther. 2017 Sep;47(9):593-615.
- Bo K, Frawley HC, Haylen BT, Abramov Y, Almeida FG, Berghmans B, Bortolini M, Dumoulin C, Gomes M, McClurg D, Meijlink J, Shelly E, Trabuco E, Walker C, Wells A. An International Urogynecological Association (IUGA)/International Continence Society (ICS) joint report on the terminology for the conservative and nonpharmacological management of female pelvic floor dysfunction. Neurourol Urodyn. 2017 Feb;36(2):221-244.
- Clemens, J. Q., Mullins, C., Kusek, J. W., Kirkali, Z., Mayer, E. A., Rodríguez, L. V., ... & Landis, J. R. (2014). The MAPP Research Network: Design, Patient Characterization and Operations. BMC Urology, 14(1), 58. doi:10.1186/1471-2490-14-58.
- Cornel EB, van Haarst EP, Schaarsberg RW, Geels J. The effect of biofeedback physical therapy in men with Chronic Pelvic Pain Syndrome Type III. Eur Urol. 2005 May;47(5):607-11.
- Cuenca-Martínez F, La Touche R, Varangot-Reille C, Sardinoux M, Bahier J, Suso-Martí L, Fernández-Carnero J. Effects of Neural Mobilization on Pain Intensity, Disability, and Mechanosensitivity: An Umbrella Review With Meta-Meta-Analysis. Phys Ther. 2022 Jun 3;102(6):pzac040.
- Cyr, M.-P., Nahon, I., Worman, R., Cowley, D. and Hodges, P.W. (2024), Classification systems for chronic pelvic pain in males: a systematic review. BJU Int. <https://doi.org/10.1111/bju.16485>
- Davis SN, Morin M, Binik YM, Khalife S, Carrier S. Use of pelvic floor ultrasound to assess pelvic floor muscle function in Urological Chronic Pelvic Pain Syndrome in men. J Sex Med. 2011 Nov;8(11):3173-80.
- Duclos A.J. A.J. A. Current treatment options in the management of chronic prostatitis. Therapeutics and Clinical Risk Management 3(4):507-512Dove Medical Press 2007,1176-6336
- Ellis RF, Hing WA. Neural mobilization: a systematic review of randomized controlled trials with an analysis of therapeutic efficacy. J Man Manip Ther. 2008;16(1):8-22.
- Engeler,Daniel S., et al. The 2013 EAU Guidelines on Chronic Pelvic Pain: Is Management of Chronic Pelvic Pain a Habit, a Philosophy, or a Science? 10 Years of Development. European Urology Volume 64, Issue 3, September 2013, Pages 431-439
- FitzGerald MP, Payne CK, Lukacz ES, Yang CC, Peters KM, Chai TC, Nickel JC, Hanno PM, Kreder KJ, Burks DA, Mayer R, Kotarinos R, Fortman C, Allen TM, Fraser L, Mason-Cover M, Furey C, Odabachian L, Sanfield A, Chu J, Huestis K, Tata GE, Dugan N, Sheth H, Bewyer K, Anaeme A, Newton K, Featherstone W, Halle-Podell R, Cen L, Landis JR, Propert KJ, Foster HE Jr, Kusek JW, Nyberg LM; Interstitial Cystitis Collaborative Research Network. Randomized multicenter clinical

trial of myofascial physical therapy in women with interstitial cystitis/painful bladder syndrome and pelvic floor tenderness. *J Urol.* 2012 Jun;187(6):2113-8.

Frawley H, Shelly B, Morin M, Bernard S, Bø K, Digesu GA, Dickinson T, Goonewardene S, McClurg D, Rahnama'i MS, Schizas A, Slieker-Ten Hove M, Takahashi S, Voelkl Guevara J. An International Continence Society (ICS) report on the terminology for pelvic floor muscle assessment. *Neurourol Urodyn.* 2021 Jun;40(5):1217-1260.

Giubilei G, Mondaini N, Minervini A, Saieva C, Lapini A, Serni S, Bartoletti R, Carini M. Physical activity of men with chronic prostatitis/chronic pelvic pain syndrome not satisfied with conventional treatments--could it represent a valid option? The physical activity and male pelvic pain trial: a double-blind, randomized study. *J Urol.* 2007 Jan;177(1):159-65.

Guzmán-Pavón MJ, Cavero-Redondo I, Martínez-Vizcaíno V, Fernández-Rodríguez R, Reina-Gutierrez S, Álvarez-Bueno C. Effect of Physical Exercise Programs on Myofascial Trigger Points-Related Dysfunctions: A Systematic Review and Meta-analysis. *Pain Med.* 2020 Nov 1;21(11):2986-2996.

Huang X, Qin Z, Cui H, Chen J, Liu T, Zhu Y, Yuan S. Psychological factors and pain catastrophizing in men with chronic prostatitis/chronic pelvic pain syndrome (CP/CPPS): a meta-analysis. *Transl Androl Urol.* 2020 Apr;9(2):485-493. doi: 10.21037/tau.2020.01.25. PMID: 32420154; PMCID: PMC7214995.

IASP 2024 Global Year Fact Sheet: Sex and Gender Disparities in Pain

Kinney M, Seider J, Beaty AF, Coughlin K, Dyal M, Clewley D. The impact of therapeutic alliance in physical therapy for chronic musculoskeletal pain: A systematic review of the literature. *Physiother Theory Pract.* 2020 Aug;36(8):886-898. doi: 10.1080/09593985.2018.1516015. Epub 2018 Sep 28. PMID: 30265840.

Morris ZS, Wooding S, Grant J. The answer is 17 years, what is the question: understanding time lags in translational research. *J R Soc Med* 2011;104:510–20. 10.1258/jrsm.2011.110180

Naliboff, B. D., Stephens, A. J., Afari, N., Lai, H., & Krieger, J. N. (2018). Widespread psychosocial distress in UCPPS: Influence of pain, catastrophizing, and emotions. *Journal of Psychosomatic Research*, 111, 41-47. doi:10.1016/j.jpsychores.2018.06.002.

Nielsen, M. M., & Graven-Nielsen, T. (2010), Manual pressure stimulation reduces pain sensitivity in referred pain areas induced by muscle trigger points. *Journal of Pain*, 11(7), 784-790.

Osborne NR, Davis KD. Sex and gender differences in pain. *Int Rev Neurobiol.* 2022;164:277-307. doi: 10.1016/bs.irn.2022.06.013. Epub 2022 Jul 30. PMID: 36038207.

Polackwich AS, Li J, Shoskes DA. Patients with Pelvic Floor Muscle Spasm Have a Superior Response to Pelvic Floor Physical Therapy at Specialized Centers. *J Urol.* 2015 Oct;194(4):1002-6.

Quintner JL, Cohen ML. Referred pain of peripheral nerve origin: an alternative to the "myofascial pain" construct. *Clin J Pain.* 1994; 10:243-51.

Quintner JL, Bove GM, Cohen ML. A critical evaluation of the trigger point phenomenon. *Rheumatology (Oxford).* 2015;54(3):392-399.

Ramirez-Maestre, C et al. The Role of Sex/Gender in the Experience of Pain: Resilience, Fear, and Acceptance as Central Variables in the Adjustment of Men and Women With Chronic Pain. *The Journal of Pain Volume 15, Issue 6*, June 2014, Pages 608-618.

Schacter, D. L. (1999). The seven sins of memory: Insights from psychology and cognitive neuroscience. *American Psychologist*, 54(3), 182–203. <https://doi.org/10.1037/0003-066X.54.3.182>

Shacklock MO. Neurodynamics. *Physiotherapy*. 1995;81:9–16.

Starzec-Proserpio M, Frawley H, Bø K, Morin M. Effectiveness of non-pharmacological conservative therapies for chronic pelvic pain in women: a systematic review and meta-analysis. *American Journal of Obstetrics & Gynecology*. 2024 Aug 12:S0002-9378(24)00827-5 doi:10.1016/j.ajog.2024.08.006

van Reijn-Baggen DA, Han-Geurts IJM, Voorham-van der Zalm PJ, Pelger RCM, Hagenaars-van Miert CHAC, Laan ETM. Pelvic Floor Physical Therapy for Pelvic Floor Hypertonicity: A Systematic Review of Treatment Efficacy. *Sex Med Rev*. 2022 Apr;10(2):209-230. doi: 10.1016/j.sxmr.2021.03.002. Epub 2021 Jun 12. PMID: 34127429.

Windgassen SS, Sutherland S, Finn MTM, Bonnet KR, Schlundt DG, Reynolds WS, Dmochowski RR, McKernan LC. Gender differences in the experience of interstitial cystitis/bladder pain syndrome. *Front Pain Res (Lausanne)*. 2022 Aug 11;3:954967. doi: 10.3389/fpain.2022.954967. PMID: 36034752; PMCID: PMC9404297.

Worman, Rachel S. et al. Evidence for increased tone or overactivity of pelvic floor muscles in pelvic health conditions: a systematic review. *American Journal of Obstetrics & Gynecology*, Volume 228, Issue 6, 657 - 674.

Wygant JN, McGuire LJ, Bush NM, Burnett TL, Green IC, Breitkopf DM. What makes a chronic pelvic pain patient satisfied? *J Psychosom Obstet Gynaecol*. 2019 Sep;40(3):239-242. doi: 10.1080/0167482X.2018.1476486. Epub 2018 May 31. PMID: 29848157.

Yahia LH & Rakatomanna (2022) Biomechanics of Living tissues: viscoelasticity, tissue modelling and remodelling. In *Biomechanics of Soft Tissue Principles and Practices* pp167-192

Zhang R, Chomistek AK, Dimitrakoff JD, Giovannucci EL, Willett WC, Rosner BA, Wu K. Physical activity and chronic prostatitis/chronic pelvic pain syndrome. *Med Sci Sports Exerc*. 2015 Apr;47(4):757-64.

REFERENCES – FEMALE CASE

Questionnaires used in female case:

Questionnaire	Evaluated construct	Reference	Access
The Pelvic Pain Screening Questionnaire (3PSQ)	Psychological factors	<p><i>Thompson J, Hart S, Anderson T, Ruland A, Melville C, D'Arcy M, et al. Evaluating the content validity of the 3PSQ in People with Persistent Pelvic Pain: A mixed-method cross-sectional study. Australian & New Zealand Continence Journal. 2023;29(2).</i></p> <p><i>Testing the convergent validity of the Pelvic Pain Psychological Screening Questionnaire (3PSQ): An observational, cross-sectional study</i></p> <p><i>Dwyer S, Yassin N, Barwood A, Yammouni L, Thompson J, Chalmers J. Australian & New Zealand Continence Journal. 2023;29(2).</i></p>	<p>Questionnaire can be requested from jthompson@pelviehealth.physio</p> <p>It is also available here: https://www.wmhp.com.au/sites/default/files/3PSQ.pdf</p>
The Pelvic Pain Impact Questionnaire (PPIQ)	Life impact of pelvic pain	<i>Chalmers KJ, Catley MJ, Evans SF, Moseley GL. Clinical assessment of the impact of pelvic pain on women. Pain. 2017 Mar;158(3):498-504.</i>	https://cdn-links.lww.com/permalink/pain/a/pain_2016_12_02_chalmers_pain-d-14-15298_sdc2.pdf
Numeric rating scale	Pain intensity (NB: VAS and NRS are different)	<i>Hawker GA, Mian S, Kendzerska T, French M. Measures of adult pain: Visual Analog Scale for Pain (VAS Pain), Numeric Rating Scale for Pain (NRS Pain), McGill Pain Questionnaire (MPQ), Short-Form McGill Pain Questionnaire (SF-MPQ), Chronic Pain Grade Scale (CPGS), Short Form-36 Bodily Pain Scale (SF-36 BPS), and Measure of Intermittent and Constant Osteoarthritis Pain (ICOAP). Arthritis Care Res (Hoboken). 2011 Nov;63 Suppl 11:S240-52.</i>	https://acrjournals.onlinelibrary.wiley.com/doi/pdf/10.1002/acr.20543

Screening and Assessment measures used in the case:

Aibel K, Choi S, Moldwin R. Pelvic mapping to explore patterns of chronic pelvic pain. *Neurourol Urodyn*. 2023;42(4):837-44.

Aibel K, Moldwin R. Validation of the 'Pelvic Pain Map': a new self-assessment tool for chronic pelvic pain localisation. *BJU Int*. 2023;131(6):763-9.

Chalmers KJ, Catley MJ, Evans SF, Moseley GL. Clinical assessment of the impact of pelvic pain on women. *Pain*. 2017;158(3):498-504.

Clemens JQ, Locke K Jr, Landis JR, Kreder K, Rodriguez LV, Yang CC, Tu FF, Harte SE, Schrepf A, Farrar JT, Sutcliffe S, Naliboff BD, Williams DA, Afari N, Spitznagle T, Taple BJ, Lai HH; Multidisciplinary Approach to the Study of Chronic Pelvic Pain (MAPP) Research Network. Validation of a simple body map to measure widespread pain in urologic chronic pelvic pain syndrome: A MAPP Research Network study. *Neurourol Urodyn*. 2024 Mar;43(3):727-737.

Additional useful screening and assessment references:

Adams GR, Gandhi W, Harrison R, van Reekum CM, Wood-Anderson D, Gilron I, Salomons TV. Do "central sensitization" questionnaires reflect measures of nociceptive sensitization or psychological constructs? A systematic review and meta-analyses. *Pain*. 2023 Jun 1;164(6):1222-1239.

As-Sanie S, Harris RE, Harte SE, Tu FF, Neshewat G, Clauw DJ. Increased pressure pain sensitivity in women with chronic pelvic pain. *Obstet Gynecol*. 2013 Nov;122(5):1047-1055.

Duffy J, Hirsch M, Vercoe M, Abbott J, Barker C, Collura B, et al. A core outcome set for future endometriosis research: an international consensus development study. *BJOG*. 2020;127(8):967-74.

Grundström H, Gerdle B, Alehagen S, Berterö C, Arendt-Nielsen L, Kjølhede P. Reduced pain thresholds and signs of sensitization in women with persistent pelvic pain and suspected endometriosis. *Acta Obstet Gynecol Scand*. 2019 Mar;98(3):327-336.

Gerlinger C, Schumacher U, Faustmann T, Colligs A, Schmitz H, Seitz C. Defining a minimal clinically important difference for endometriosis-associated pelvic pain measured on a visual analog scale: analyses of two placebo-controlled, randomized trials. *Health Qual Life Outcomes*. 2010;8:138.

Ghai V, Subramanian V, Jan H, Pergialiotis V, Thakar R, Doumouchtsis SK. A systematic review on reported outcomes and outcome measures in female idiopathic chronic pelvic pain for the development of a core outcome set. *BJOG*. 2020.

Jones G, Kennedy S, Barnard A, Wong J, Jenkinson C. Development of an endometriosis quality-of-life instrument: The Endometriosis Health Profile-30. *Obstet Gynecol*. 2001 Aug;98(2):258-64. doi: 10.1016/s0029-7844(01)01433-8.

Mitchell AM, Lensen S, Kamper SJ, Frawley H, Cheng C, Healey M, et al. The most impactful endometriosis symptom: An international, cross-sectional, two-round survey study. *Acta Obstet Gynecol Scand*. 2024;103(9):1736-44.

Moradi M, Parker M, Sneddon A, Lopez V, Ellwood D. The Endometriosis Impact Questionnaire (EIQ): a tool to measure the long-term impact of endometriosis on different aspects of women's lives. *BMC Womens Health*. 2019;19(1):64.

Puchar A, Panel P, Oppenheimer A, Du Cheyron J, Fritel X, Fauconnier A. The ENDOPAIN 4D Questionnaire: A New Validated Tool for Assessing Pain in Endometriosis. *J Clin Med*. 2021;10(15).

Ruscheweyh R, Verneuer B, Dany K, Marziniak M, Wolowski A, Çolak-Ekici R, Schulte TL, Bullmann V, Grewe S, Gralow I, Evers S, Knecht S. Validation of the pain sensitivity questionnaire in chronic pain patients. *Pain*. 2012 Jun;153(6):1210-1218. doi: 10.1016/j.pain.2012.02.025

Treede RD, Rief W, Barke A, Aziz Q, Bennett MI, Benoliel R, et al. Chronic pain as a symptom or a disease: the IASP Classification of Chronic Pain for the International Classification of Diseases (ICD-11). *Pain*. 2019;160(1):19-27.

Treatment references:

Anderson H, ... Frawley H. Effectiveness of conservative treatments for endometriosis-associated pain: a systematic review and meta-analysis. A Systematic Review PROSPERO 2023
https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42022325199

Bruch JD, Khazen M, Mahmic-Kaknjo M, Légaré F, Ellen ME. The effects of shared decision making on health outcomes, health care quality, cost, and consultation time: An umbrella review. *Patient Educ Couns*. 2024 Dec;129:108408. doi: 10.1016/j.pec.2024.108408

Frawley H, Petersen K. Physiotherapy for endometriosis. In: Horne A, Whitaker L, eds. The Continuous Textbook of Women's Medicine. Glob. libr. women's med.; 2022. Chapter Physiotherapy for Endometriosis. <https://www.glowm.com/article/heading/vol-3--endometriosis--physiotherapy-for-endometriosis/id/418263#.Y-y7x3ZBy70>

Haynes RB, Devereaux PJ, Guyatt GH. Clinical expertise in the era of evidence-based medicine and patient choice. *ACP J Club*. 2002 Mar-Apr;136(2):A11-4.

Ho EK, Chen L, Simic M, Ashton-James CE, Comachio J, Wang DXM, Hayden JA, Ferreira ML, Ferreira PH. Psychological interventions for chronic, non-specific low back pain: systematic review with network meta-analysis. *BMJ*. 2022 Mar 30;376:e067718.

Fang QY, Campbell N, Mooney SS, Holdsworth-Carson SJ, Tyson K. Evidence for the role of multidisciplinary team care in people with pelvic pain and endometriosis: A systematic review. *Aust N Z J Obstet Gynaecol*. 2024 Jun;64(3):181-192. doi: 10.1111/ajo.13755.

Finan PH, Goodin BR, Smith MT. The association of sleep and pain: an update and a path forward. *J Pain*. 2013 Dec;14(12):1539-52. doi: 10.1016/j.jpain.2013.08.007

Institute of Medicine (US) Committee on Advancing Pain Research, Care, and Education. Relieving Pain in America: A Blueprint for Transforming Prevention, Care, Education, and Research. Washington (DC): National Academies Press (US); 2011.

Kadah S, ... Frawley H. Pelvic floor muscle exercises and mindfulness for women with endometriosis-associated pelvic pain: a pilot and feasibility study

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?id=384728>

Maixner W, Fillingim RB, Williams DA, Smith SB, Slade GD. Overlapping Chronic Pain Conditions: Implications for Diagnosis and Classification. *J Pain*. 2016 Sep;17(9 Suppl):T93-T107.

Mardon AK, Leake HB, Hayles C, Henry ML, Neumann PB, Moseley GL, Chalmers KJ. The Efficacy of Self-Management Strategies for Females with Endometriosis: a Systematic Review. *Reprod Sci*. 2023 Feb;30(2):390-407. doi: 10.1007/s43032-022-00952-9.

Mardon AK, Leake HB, Szeto K, Moseley GL, Chalmers KJ. Recommendations for patient education in the management of persistent pelvic pain: a systematic review of clinical practice guidelines. *Pain*. 2024 Jun 1;165(6):1207-1216. doi: 10.1097/j.pain.0000000000003137

McNamara HC, Frawley HC, Donoghue JF, Readman E, Healey M, Ellett L, Reddington C, Hicks LJ, Harlow K, Rogers PAW, Cheng C. Peripheral, Central, and Cross Sensitization in Endometriosis-Associated Pain and Comorbid Pain Syndromes. *Front Reprod Health.* 2021 Sep 1;3:729642.

Nicholas MK. The biopsychosocial model of pain 40 years on: time for a reappraisal? *Pain.* 2022 Nov 1;163(Suppl 1):S3-S14.

Núñez-Cortés R, Salazar-Méndez J, Calatayud J, Malfliet A, Lluch E, Mendez-Rebolledo G, Guzmán-Muñoz E, López-Bueno R, Suso-Martí L. The optimal dose of pain neuroscience education added to an exercise programme for patients with chronic spinal pain: a systematic review and dose-response meta-analysis. *Pain.* 2024 Jun 1;165(6):1196-1206.

Rebedew D. Five mobile apps for mindfulness. *Family Practice Management.* 2018;25(3):21-24.
<https://insighttimer.com/kirstendoessel/guided-meditations/an-approach-for-pelvic-pain>

Shay LA, Lafata JE. Where is the evidence? A systematic review of shared decision making and patient outcomes. *Med Decis Making.* 2015 Jan;35(1):114-31. doi: 10.1177/0272989X14551638.

Shiraz, R.... Frawley, H. Is multidisciplinary management of female chronic pelvic pain superior to single discipline intervention? A Systematic Review PROSPERO 2023

https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42023420920

Simonelli G, Mantua J, Gad M, St Pierre M, Moore L, Yarnell AM, Quartana PJ, Braun A, Balkin TJ, Brager AJ, Capaldi VF. Sleep extension reduces pain sensitivity. *Sleep Med.* 2019 Feb;54:172-176. doi: 10.1016/j.sleep.2018.10.023

Subbiah V. The next generation of evidence-based medicine. *Nat Med.* 2023 Jan;29(1):49-58. doi: 10.1038/s41591-022-02160-z.

Tomás-Rodríguez MI, Asensio-García MDR, García RN, Delicado-Miralles M, Sánchez SH, Segura-Heras JV. Short- and medium-term effects of a single session of pain neuroscience education on pain and psychological factors in patients with chronic low back pain. A single-blind randomized clinical trial. *Eur J Pain.* 2024 Jul 17.