

Start	End	Topic	Speakers
15:30	15:35	Introduction	Alison Hainsworth Giulio Santoro
15:35	15:45	Symptoms and pathophysiology of posterior pelvic floor dysfunction	Alison Hainsworth
15:45	15:55	Anorectal Physiology - Indications and Information Gleaned	Giulio Santoro
15:55	16:05	Integrated Total Pelvic Floor Ultrasound - Indications and Information Gleaned	Giulio Santoro
16:05	16:15	Defaecation Barium Proctography - Indications and Information Gleaned	Ola Stankiewicz
16:15	16:25	Defaecation MRI - Indications and Information Gleaned	Ola Stankiewicz
16:25	16:35	How Does Each Modality Compare to One Another and to Symptoms?	Alison Hainsworth
16:35	16:50	How Results can Influence Conservative Treatment	Emma Breslin
16:50	17:00	When to Involve a Colorectal Surgeon	Alison Hainsworth

### **Aims of Workshop**

The aim is to understand the causes of posterior compartment pelvic floor dysfunction and to appreciate the different investigations available for assessment.

The objectives are -

- To know the symptoms and pathophysiology of posterior pelvic floor dysfunction.
- To know the indications for the following investigations – anorectal physiology, integrated total pelvic floor ultrasound, defaecation barium proctography, defaecation MRI.
- To appreciate of the possible findings on each of these investigations.
- To understand how each investigation compares to one another and compares to symptoms.
- To understand how findings can influence conservative and surgical management.

### **Educational Objectives**

This will be a series of lectures.

There are an armamentarium of investigations available to the pelvic floor specialist to investigate posterior pelvic floor dysfunction. These include anorectal physiology, integrated total pelvic floor ultrasound, Barium defaecation proctography and defaecation MRI. They are performed to try to understand the causes of the patients symptoms and to guide treatment. However, no one tool is perfect, findings from each of these investigations do not always agree with one another and different units may tend to perform different investigations. There also debate as to how findings on imaging relate to symptoms.

The aim for this workshop is to review of these investigations and begin to understand when each of them may be useful and how each one may influence treatment. This is a useful exercise for the entire multidisciplinary team as patients with anterior and middle pelvic floor pathology often have concomitant posterior pelvic floor pathology. It is useful to understand when and how to further investigate. Moreover, given the issues outlined above, the need for patient centred care and an efficient and streamlined pathway with optimal use of resources, a review of the modalities and their clinical utility is pertinent.

### **Learning Objectives**

To understand the causes of pelvic floor bowel dysfunction

### **Target Audience**

Bowel Dysfunction

### **Advanced/Basic**

Intermediate

### **Suggested Learning before Workshop Attendance**

Imaging modalities for the detection of posterior pelvic floor disorders in women with obstructed defaecation syndrome.

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Santoro GA, Wieczorek AP, Dietz HP, Mellgren A, Sultan AH, Shobeiri SA, Stankiewicz A, Bartram C. *Ultrasound Obstet Gynecol.* 2011 Apr;37(4):381-96. doi: 10.1002/uog.8816. PMID: 20814874

A review of functional pelvic floor imaging modalities and their effectiveness. Ahmad AN, Hainsworth A, Williams AB, Schizas AM. *Clin Imaging.* 2015 Jul-Aug;39(4):559-65. doi: 10.1016/j.clinimag.2015.02.013. Epub 2015 Mar 4. PMID: 25770903 Review.

Total pelvic floor ultrasound for pelvic floor defaecatory dysfunction: a pictorial review. Hainsworth AJ, Solanki D, Schizas AM, Williams AB. *Br J Radiol.* 2015;88(1055):20150494. doi: 10.1259/bjr.20150494. Epub 2015 Sep 21. PMID: 26388109

Accuracy of integrated total pelvic floor ultrasound compared to defaecatory MRI in females with pelvic floor defaecatory dysfunction. Hainsworth AJ, Pilkington SA, Grierson C, Rutherford E, Schizas AM, Nugent KP, Williams AB. *Br J Radiol.* 2016 Dec;89(1068):20160522. doi: 10.1259/bjr.20160522. Epub 2016 Oct 12. PMID: 27730818

Integrated total pelvic floor ultrasound in pelvic floor defaecatory dysfunction. Hainsworth AJ, Solanki D, Hamad A, Morris SJ, Schizas AM, Williams AB. *Colorectal Dis.* 2017 Jan;19(1):O54-O65. doi: 10.1111/codi.13568. PMID: 27886434

Comparative study of magnetic resonance defaecography and evacuation proctography in the evaluation of obstructed defaecation. Zafar A, Seretis C, Feretis M, Karandikar S, Williams SC, Goldstein M, Chapman M. *Colorectal Dis.* 2017 Jun;19(6):O204-O209. doi: 10.1111/codi.13657. PMID: 28304122

Consensus Definitions and Interpretation Templates for Magnetic Resonance Imaging of Defecatory Pelvic Floor Disorders: Proceedings of the Consensus Meeting of the Pelvic Floor Disorders Consortium of the American Society of Colon and Rectal Surgeons, the Society of Abdominal Radiology, the International Continence Society, the American Urogynecologic Society, the International Urogynecological Association, and the Society of Gynecologic Surgeons. Gurland BH, Khatri G, Ram R, Hull TL, Kocjancic E, Quiroz LH, Sayed RFE, Jambhekar KR, Chernyak V, Paspulati RM, Sheth VR, Steiner AM, Kamath A, Shobeiri SA, Weinstein MM, Bordeianou L; Members of the Expert Workgroup on Magnetic Resonance Imaging of Pelvic Floor Disorders. *AJR Am J Roentgenol.* 2021 Oct;217(4):800-812. doi: 10.2214/AJR.21.26488. Epub 2021 Sep 10. PMID: 34505543

Consensus Definitions and Interpretation Templates for Fluoroscopic Imaging of Defecatory Pelvic Floor Disorders : Proceedings of the Consensus Meeting of the Pelvic Floor Consortium of the American Society of Colon and Rectal Surgeons, the Society of Abdominal Radiology, the International Continence Society, the American Urogynecologic Society, the International Urogynecological Association, and the Society of Gynecologic Surgeons. Paquette I, Rosman D, Sayed RE, Hull T, Kocjancic E, Quiroz L, Palmer S, Shobeiri A, Weinstein M, Khatri G, Bordeianou L; Members of the Expert Workgroup on Fluoroscopic Imaging of Pelvic Floor Disorders. *Tech Coloproctol.* 2021 Jan;25(1):3-17. doi: 10.1007/s10151-020-02376-6. Epub 2021 Jan 4. PMID: 33394215

Is there any association between symptoms and findings on imaging in pelvic floor defaecatory dysfunction? A prospective study. Hainsworth AJ, Solanki D, Morris SJ, Igbedioh C, Schizas AMP, Williams AB. *Colorectal Dis.* 2021 Jan;23(1):237-245. doi: 10.1111/codi.15396. Epub 2020 Nov 5. PMID: 33090672

Ramage L, Georgiou P, Qiu S, McLean P, Khan N, Kontnouvounisios C, et al. Can we correlate pelvic floor dysfunction severity on MR defecography with patient-reported symptom severity? *Updat Surg.* 2018;70(4):467-76.