W1: Hands-On Basic Urodynamics - An Interactive Workshop

Workshop Chair: Andrew Gammie, United Kingdom
17 September 2025 09:00 - 12:30

Start	End	Topic	Speakers
09:00	09:05	Welcome	Andrew Gammie
09:05	09:10	Introduction to Urodynamics	Hashim Hashim
09:10	09:30	Physics for the Urodynamicist	Andrew Gammie
09:30	10:30	Practical Session 1	Andrew Gammie Arturo Garcia-Mora Shiby Priju
10:30	11:00	Break	None
11:55	12:00	Questions	Hashim Hashim Andrew Gammie Laura Thomas Arturo Garcia-Mora Shiby Priju

Description

After an initial introduction, explaining the aims of the workshop and content of each part of the workshop, there is a short presentation on the basic physical principles underlying urodynamics. This first half hour sets the scene for those completely new to the topic, and gives the background principles of measurement to allow a good foundation for all levels of experience. Delegates will then be divided into two groups (20 in each group). The workshop will be located in a room large enough to accommodate two stations, as the two sections of the workshop will run simultaneously. Alternatively, two adjacent rooms could be used - this format has worked very well. The maximum group size (20 delegates) has been chosen to ensure that all members of the group can have their needs met by the tutors stationed at each. Due to overlap noted in earlier years, where four stations were used, we now present in two stations so more detailed discussion is possible. The stations will address the following: setting up equipment, running a test, troubleshooting, interpreting traces. Delegates will change their station after one hour at each station. At the end of the workshop there will be a chance to address any general questions. The exact content of each station will depend on the needs of the delegates, and teaching aids will be provided as well as the expertise of the speakers. All of the speakers have many years experience in urodynamics and are used to teaching practical urodynamics. The speakers represent both clinical and scientific disciplines.

The stations (small group work) in detail:

Setting up equipment and running a test: this will provide access to urodynamic equipment, domes and manometer tubing to practice initial setting up and checking calibration. The use of different systems (i.e. water-filled, air charged, microtip) will be discussed. Delegates will be talked through running a test, and test adaptations that could help address 'the urodynamic question' will be discussed.

Troubleshooting and interpreting traces: Use of recorded tests with teaching about how to recognise common artefacts. Advice on how to deal with individual artefacts will be given to ensure a quality urodynamic recording. Recorded tests, which show a variety of diagnoses, will be used to discuss pitfalls in interpretation. Delegates will be asked to look at traces of filling and voiding cystometry and interpret them.

All the speakers have been involved in similar "hands on" courses, which run successfully in the United Kingdom and at previous ICS and EAU meetings. They feel that it is appropriate to offer a similar course to delegates who do not have access to one in their own countries. The small group format has been shown to work well in addressing individual needs. Access to teaching aids and equipment will simulate the clinical scenario as much as possible within the constraints of the conference setting. No particular manufacturer will be advocated, although one machine will be used as a demonstrator. This will be offset by the use of a brand-independent training simulator device as well.

Aims of Workshop

This workshop aims to provide a practical course offering an interactive 'hands on' environment for practitioners to improve their skills in urodynamics. The use of recorded tests, access to equipment and small groups means that individual problems can be addressed. At the end of the workshop delegates should feel more confident in their practice.

Educational Objectives

The workshop will be located in a room large enough to accommodate two stations, as the two sections of the workshop will run simultaneously. The maximum group size (20 delegates in each) has been chosen to ensure that all members of the group can have their needs met by the tutors stationed at each. At the end of the workshop there will be a chance to address any general questions. Delegates will thus be exposed to the elements of urodynamic testing from start to finish, and will have the chance to question how to apply it to their own clinical practice. Access to teaching aids and equipment will simulate the clinical scenario

as much as possible. Our experience and previous evaluations have indicated that this format is successful in giving participants new confidence in knowledge and skills they can apply in their own centre.

Learning Objectives

1. Learn how to set up urodynamic equipment
2. Learn how to run a test and troubleshoot according to good practice guidelines
3. Learn basic principles of how to interpret urodynamic traces

Target Audience

Urology, Urogynaecology and Female & Functional Urology

Advanced/Basic

Basic

Suggested Learning before Workshop Attendance

ICS Good Urodynamic Practices; ICS Fundamentals series; ICS urodynamics e-Learning modules