

Unit 92: **Assisting with Standard Urodynamic Studies**

Level:	4
Unit type:	Optional (Urodynamics and Urology)
Credit value:	10
Guided learning hours:	80

Unit summary

In this unit, you will gain the knowledge, understanding and skills needed to assist and support the healthcare science practitioner/clinical scientist in performing quality-assured, safe, standard urodynamic studies in adults. You will be expected to build your patient-centred professional practice and practise safely in the workplace.

Unit assessment requirements

There are no specific assessment requirements for this unit. Please refer to the assessment strategy in *Annexe B*.

Additional information

It is suggested that learners will have completed the following units:

- **Level 2 Unit 26: Anatomy and Physiology: Urogenital System**
- **Level 2 Unit 93: Performing a Urine Flow Test**
- **Level 4 Unit 11: Scientific Basis of Healthcare Science (1): Clinical Science**
- **Level 4 Unit 90: The Urinary System**

or have appropriate experience before completing this unit.

All procedures must be undertaken in accordance with the Standard Operating Procedure (SOP).

AC1.1 could include:

- ambulatory urodynamics
- filling cystometry
- flowmetry
- frequency-volume chart/bladder diary
- residual urine assessment by ultrasound
- sphincter electromyogram (EMG)
- urethral pressure profile (UPP)
- urinalysis

- voiding cystometry
- video urodynamics.
- AC.1.4 includes personal responsibilities for decisions.

AC2.1 includes:

- legal requirements for informed consent
- limits of consent
- own role in the consent process
- importance of documenting informed consent.

AC2.4 could include the following indications:

- abnormal renal function thought to be secondary to lower urinary tract dysfunction
- assessment of pain
- enuresis
- feelings of incomplete emptying
- hesitancy
- nocturia
- increased daytime frequency
- intermittency
- pre/post-surgical evaluation
- retention
- slow stream
- straining
- terminal dribble
- urgency
- urinary incontinence (stress, urge or mixed)

and contraindications:

- recent lower urinary tract surgery
- active urine infection
- poor patient tolerance
- treatment with anticholinergics.

AC2.5 includes:

- the procedure to be followed in the event of identifying an issue of quality assurance.

AC 2.6 includes the following equipment safety measures:

- equipment should be regularly safety tested and regularly maintained in accordance with the manufacturer's recommendations
- an externally damaged equipment should be withdrawn from individual use
- calibration checks should be undertaken at the beginning of every month

- faults should be documented on the relevant sheet
- single-use consumables should be replaced every test.

AC2.7 includes the following infection control measures:

- check if individual is particularly at risk, e.g. implant, immune-compromised; investigation may be contraindicated, or require prophylactic antibiotics
- wash hands prior to setting up, before the test and once the test has finished
- use plastic apron and non-latex gloves for protection when undertaking test
- all sterile equipment should be opened using aseptic technique onto a sterile surface
- all single-use consumables should be disposed of after use
- should a catheter fall out during the test, it should be disposed of and a new one used
- all non-disposable equipment should be cleaned in accordance with departmental procedures.

AC3.1 includes:

- setting up the computer
- setting up the trolley
- setting up the pressure measurement system, including transducers.

AC3.4 includes:

- introducing self by name and explaining role
- appropriate use of non-verbal communication
- providing information in a timely manner in appropriate language
- listening to the individual and addressing questions or seeking advice from senior colleagues
- communication during and after the test
- communicating in a way that:
 - respects the dignity, rights, privacy and confidentiality of the individual/carer
 - considers and addresses potential cultural differences (undressing etc.), determines when it may be necessary to invite a family member to be present.

AC3.5 should include:

- an explanation of how learners would respond to any special individual requirements, discussing with senior staff and carers.

Learning outcomes and assessment criteria

To pass this unit, learners need to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements that the learner is expected to meet **in own area of work and in accordance with Standard Operating Procedures (SOPs)** to achieve the learning outcomes and the unit.

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
1	Understand the services provided by urodynamic science services and own role in relation to these services	1.1	Describe the range of procedures undertaken by urodynamic science services			
		1.2	Explain the common reasons for referring patients to urodynamic science services			
		1.3	Evaluate safeguarding procedures and the process for reporting safeguarding issues			
		1.4	Discuss the limits of your practice and when to seek advice or refer to another professional			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
2	Understand the principles and practice of standard urodynamic studies	2.1	Explain the principles, guidance and law for gaining informed consent, including the limits of consent			
		2.2	Evaluate the Standard Operating Procedure for standard urodynamic studies in own area of practice			
		2.3	Explain the measurement principles underpinning the measurement of pressure and flow as part of urodynamic studies			
		2.4	Explain the indications and contraindications for standard urodynamic studies			
		2.5	Evaluate the requirements for quality-assured standard urodynamic studies			
		2.6	Explain the equipment safety standards applicable to the equipment used			
		2.7	Evaluate the infection control procedures required for standard urodynamic studies			
		2.8	Explain the factors influencing the choice of equipment for the investigation			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
3	Be able to assist during standard urodynamic studies	3.1	Prepare the equipment in accordance with the requirements of the test			
		3.2	Assist in preparing the environment for standard urodynamic studies			
		3.3	Assist in preparing the patient, treating the patient with respect and compassion			
		3.4	Support the patient during each phase of the study as required, communicating effectively			
		3.5	Explain the potential special needs of patients referred for investigation and the relevant action required			
		3.6	Record information as required			
4	Be able to assist following completion of the study	4.1	Evaluate the protocols for cleaning and decontaminating equipment			
		4.2	Decontaminate equipment, leaving it in a suitable condition for reuse			
		4.3	Clean the room, leaving it in a suitable condition for reuse			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
5	Be able to perform required calibration procedures	5.1	Explain the calibration procedures required for each item of equipment used			
		5.2	Carry out calibration procedures for equipment used in standard urodynamic studies			
		5.3	Document calibration procedures			
		5.4	Report all errors in calibration according to local procedures			

Learner name: _____

Date: _____

Learner signature: _____

Date: _____

Assessor signature: _____

Date: _____

Internal verifier signature: _____

Date: _____

(if sampled)