







Joint Committee on Intercollegiate Examinations

## Intercollegiate Specialty Examination in

## Urology

## Syllabus Blueprint 2023

The Royal College of Surgeons of Edinburgh Nicolson Street Edinburgh EH8 9DW Tel: 0131 662 9222 www.jcie.org.uk

Joint Committee on Intercollegiate Examinations V2.0 Date of last review: Jul 2023 Principles for Blueprinting Assessment to the Curriculum in Surgical Specialties

- Standard educational practice requires a curriculum to include an indication of how each aspect of the syllabus is to be assessed. This "blueprinting" process also shows how each aspect relates to Good Medical Practice.
- 2. Each specialty syllabus has been mapped to a range of assessments:
  - a. CEX
  - b. CBD
  - c. DOPS
  - d. PBA
  - e. MSF
  - f. Section 1 Intercollegiate Specialty Board (ISB) Examination written section
  - g. Section 2 Intercollegiate Specialty Board (ISB) Examination clinical and oral section
- 3. This does not imply that the indicated assessments must be used.
- 4. The indications are not exclusive, and it is possible that other types of assessment which have not been indicated may also be used to assess individual items.
- 5. In general:
  - a. Knowledge will be assessed by Section 1 and Section 2 ISB Examination and by CBD.
  - b. Clinical skills will be assessed by CEX and Section 2 ISB Examination.
  - c. The use of scenarios within Section 2 ISB Examination allows a wide range of clinical skills to be assessed.
  - d. Technical skills will be assessed by DOPS and PBA
  - e. Professional skills will be assessed by MSF
- 6. The blueprinting indicates which assessments may be used for each item at any stage through training.
- 7. The Good Medical Practice domains are:
  - 1. Knowledge, skills and performance
  - 2. Safety and quality
  - 3. Communication, partnership and teamwork
  - 4. Maintaining trust
- 8. All aspects of the curriculum are assessed using one or more of the described components of the assessment system. Some curriculum content can be assessed in more than one component but the emphasis will differ between assessments so that testing is not excessive in any one area. The key assessment is the Multiple Consultant Report (MCR) through which trainees are assessed on the high-level outcomes of the curriculum; the Capabilities in Practice (CiPs) and Generic Professional Capabilities (GPCs).

| High-level<br>outcomes | Assessment Framework  |                             |     |     |     |     |     |      |     |     |               |               |
|------------------------|---|-----------------------------|-----|-----|-----|-----|-----|------|-----|-----|---------------|---------------|
|                        | Capabilities in Practice                                    |                             |     |     |     |     |     |      |     |     |               |               |
|                        |   | CiP/GPC self-<br>assessment | MCR | MSF | CEX | CBD | PBA | DOPS | ΑοΑ | ОоТ | ISB Section 1 | ISB Section 2 |
|                        | 1. Manages an out-patient clinic                            | х                           | х   | х   | х   | х   |     |      |     |     |               | х             |
|                        | 2. Manages the unselected emergency take                    | х                           | х   | х   | х   | х   | х   | х    |     |     |               | x             |
|                        | 3. Manages ward rounds and the on-going care of in-patients | х                           | х   | х   | х   | х   |     |      |     |     |               | х             |
|                        | 4. Manging an operating list                                | x                           | х   | х   |     |     | x   | х    |     |     |               |               |
|                        | 5. Managing multi-disciplinary working                      | х                           | х   | Х   |     | x   |     |      |     |     |               |               |

| High-level |  |                             |     |     |     |     |     |      |     |     |               |               |
|------------|--|-----------------------------|-----|-----|-----|-----|-----|------|-----|-----|---------------|---------------|
| outcomes   | Generic Professional Capabilities                                |                             |     |     |     |     |     |      |     |     |               |               |
|            |  |                             |     |     |     |     |     |      |     |     |               |               |
|            |  | CiP/GPC self-<br>assessment | MCR | MSF | CEX | CBD | PBA | DOPS | AoA | ΟοΤ | ISB Section 1 | ISB Section 2 |
|            | Domain 1: Professional values and behaviours                     | ×                           | х   | х   | х   | х   | x   | х    | Х   | х   |               | х             |
|            | Domain 2: Professional Skills                                    | x                           | х   | х   | х   | х   | х   | х    |     | х   |               | х             |
|            | Domain 3: Professional knowledge                                 | x                           | х   | х   | х   | х   | х   | х    | х   | х   | х             | х             |
|            | Domain 4: Capabilitiesin health promotion and illness prevention | x                           | х   |     | х   | х   |     |      |     |     | х             |               |
|            | Domain 5: Capabilities in leadership and team working            | x                           | х   | х   |     | х   | х   | х    | х   | х   | х             |               |
|            | Domain 6: Capabilities in patient safety and quality improvement | x                           | х   |     |     | х   |     |      | х   |     | х             |               |
|            | Domain 7: Capabilities in safeguarding vulnerable groups         | х                           | х   |     | х   | х   | х   | х    |     |     | х             |               |
|            | Domain 8: Capabilities in education and training                 | x                           | х   |     |     |     |     |      |     | х   |               |               |
|            | Domain 9: Capabilities in research and scholarship               | x                           | х   |     |     |     |     |      |     |     |               |               |

| Syllabus |                  |  |                             |     |     |     |     |     |      |     |     |               |               |
|----------|------------------|--|-----------------------------|-----|-----|-----|-----|-----|------|-----|-----|---------------|---------------|
|          |                  |  | CiP/GPC self-<br>assessment | MCR | MSF | CEX | CBD | PBA | DOPS | ΑοΑ | ΟοΤ | ISB Section 1 | ISB Section 2 |
|          | Knowledge        |  | х                           | х   | х   | х   | х   | х   | х    | х   | х   | х             | х             |
|          | Clinical skills  | Clinical skills (general)              | х                           | х   | х   | х   | х   |     |      |     |     |               | х             |
|          |                  | Critical conditions (mandated CEX/CBD) | х                           | х   | х   | х   | х   |     |      |     |     |               | х             |
|          | Technical skills | Technical skills (general)             | х                           | х   |     |     |     | х   | х    |     |     |               |               |
|          |                  | Index procedures (mandated PBA/DOPS)   | х                           | х   |     |     |     | х   | х    |     |     |               |               |

| Basic science  | CEX      | CBD    | DOPS     | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|--|----------|--------|----------|-----|-----|---------------|---------------|-------|
| OBJECTIVE  |          |        |          |     |     |               |               |       |
| The trainee should understand the basic anatomy that urologists will encounter during the daily management of urological |          |        |          |     |     |               |               |       |
| patients, and basic embryology relevant to clinical practice   |          | Х      |          |     |     | Х             | Х             | 1     |
| To understand and apply physiological principles in the management of patient with urological problems                   |          | Х      |          |     |     | Х             | Х             | 1     |
| To understand normal physiological processes at different ages and understand the effects of disease and trauma on these |          | V      |          |     |     | N N           | ×.            |       |
| processes  |          | Х      |          |     |     | X             | X             | T     |
| To understand the pharmacological principles relevant to the genitourinary tract   |          | Х      |          |     |     | Х             | Х             | 1     |
| To understand pathological processes as applied to the organs of the urogenital system                                   |          |        |          |     |     |               |               |       |
| KNOWLEDGE  |          |        |          |     |     |               |               |       |
| Anatomy  |          |        |          |     |     |               |               |       |
| Macro anatomy and Micro anatomy of the urinary tract   |          | Х      |          |     |     | Х             | Х             | 1     |
| Vascular anatomy of the urinary tract  |          | Х      |          |     |     | Х             | Х             | 1     |
| Neurological supply including central connections  |          | Х      |          |     |     | х             | Х             | 1     |
| 3-dimensional relationship to other organs   |          | Х      |          |     |     | Х             | Х             | 1     |
| General knowledge of intra abdominal operative anatomy   |          | Х      |          |     |     | Х             | Х             | 1     |
| Embryological development in relation to disorders affecting the urinary tract   |          | Х      |          |     |     | Х             | Х             | 1     |
| Pathways of pain   |          | Х      |          |     |     | Х             | Х             | 1     |
| Physiology   |          |        |          |     |     |               |               |       |
| Mechanism of endocrine homeostasis   |          | Х      |          |     |     | Х             | Х             | 1     |
| Control of blood pressure  |          | Х      |          |     |     | Х             | Х             | 1     |
| Mechanism of urine production  |          | Х      |          |     |     | Х             | Х             | 1     |
| Mechanism of peristalsis initiation  |          | Х      |          |     |     | Х             | Х             | 1     |
| Mechanisms of neuromuscular transmission   |          | Х      |          |     |     | Х             | Х             | 1     |
| Anti-reflux mechanisms   |          | Х      |          |     |     | Х             | Х             | 1     |
| Neuro-physiological control of filling/voiding cycles  |          | Х      |          |     |     | X             | X             | 1     |
| Physiological properties of bladder musculature  |          | Х      |          |     |     | X             | X             | 1     |
| Physiological properties of bladder mucosa   |          | Х      |          |     |     | X             | X             | 1     |
| Bladder sensation  |          | Х      |          |     |     | X             | X             | 1     |
| Neurophysiology of sphincter mechanisms in male and female   |          | Х      |          |     |     | X             | X             | 1     |
| Physiology and molecular biology of prostate cell  |          | Х      |          |     |     | X             | X             | 1     |
| Physiology of prostate secretion   |          | Х      |          |     |     | X             | X             | 1     |
| Prostate specific antigen and related markers  |          | Х      |          |     |     | Х             | Х             | 1     |
| Physiology of erection and ejaculation   |          | Х      |          |     |     | Х             | Х             | 1     |
| Urological endocrinology   |          | Х      |          |     |     | Х             | Х             | 1     |
| Interpretation of semen analysis   |          | Х      |          |     |     | Х             | Х             | 1     |
| Mechanisms of spermatogenesis and mechanism of spermatic transport   |          | Х      |          |     |     | Х             | Х             | 1     |
| Function of accessory genital organs   |          | Х      |          |     |     | Х             | Х             | 1     |
| Effect of disease and drugs on normal genital function   |          | Х      |          |     |     | Х             | Х             | 1     |
| Physiology of pain   |          | Х      |          |     |     | Х             | Х             | 1     |
| Pharmacology   |          |        |          |     |     |               |               |       |
| Mechanisms of action of commonly used drugs in urology   |          | Х      |          |     |     | Х             | Х             | 1     |
| Nephro-pharmacology  |          | Х      |          |     |     | Х             | Х             | 1     |
| Cholinergic and Adrenergic mechanisms  |          | Х      |          |     |     | Х             | Х             | 1     |
| Non-adrenergic, non-cholinergic (NANC) mechanisms  |          | Х      |          |     |     | Х             | Х             | 1     |
| Pharmacology of coagulation  |          | Х      |          |     |     | Х             | Х             | 1     |
| Pharmacology of inflammation   |          | Х      |          |     |     | Х             | Х             | 1     |
| Pharmacology of neoplastic disease   |          | Х      |          |     |     | Х             | Х             | 1     |
| Common congenital disorders affecting the urinary tract (eg undescended testis and urinary tract reflux)                 |          | Х      |          |     |     | Х             | Х             | 1     |
| Changes related to congenital abnormalities  |          | Х      |          |     |     | Х             | Х             | 1     |
| Chronic inflammatory mechanisms and diseases   |          | Х      |          |     |     | Х             | Х             | 1     |
| Oncogenes, growth factors and angiogenesis   |          | Х      |          |     |     | Х             | Х             | 1     |
| Mechanisms of chemotherapy, immunotherapy and radiotherapy   |          | Х      |          |     |     | Х             | Х             | 1     |
| Abnormalities resulting from trauma  |          | Х      |          |     |     | Х             | Х             | 1     |
| Pathology  |          |        |          |     |     |               |               |       |
| Basic genetics of uropathological conditions   |          | Х      |          |     |     | Х             | Х             | 1     |
| Common congenital disorders affecting the urinary tract (eg undescended testis and urinary tract reflux)                 |          | Х      |          |     |     | Х             | Х             | 1     |
| Changes related to congenital abnormalities  |          | Х      |          |     |     | Х             | Х             | 1     |
| Basic principles of microbiology, resistance, cross infection relevant to the GU tract                                   |          | Х      |          |     |     | Х             | Х             | 1     |
| Antibiotics including mechanism of action  |          | Х      |          |     |     | Х             | Х             | 1     |
| Acute and chronic inflammatory response  |          | Х      |          |     |     | Х             | Х             | 1     |
| Chronic inflammatory mechanisms and diseases   |          | Х      |          |     |     | Х             | Х             | 1     |
| Role of genetic and environmental factors in urological cancer   |          | Х      |          |     |     | X             | Х             | 1     |
| Mechanisms of tumour initiation/growth   | <b> </b> | Х      |          |     |     | X             | X             | 1     |
| INM classification of common urological tumours  |          | Х      |          |     |     | X             | Х             | 1     |
| Uncogenes, growth factors and angiogenesis   | ļ        | Х      |          |     |     | X             | Х             | 1     |
| Mechanisms of chemotherapy, immunotherapy and radiotherapy   |          | Х      |          |     |     | X             | Х             | 1     |
| Familial prostate cancer and renal oncology  |          | Х      |          |     |     | X             | X             | 1     |
| Abnormalities resulting from trauma  |          | X      |          |     |     | X             | X             | 1     |
| Primary and secondary wound healing by anatomical site   | <b> </b> | Х      |          |     |     | X             | Х             |       |
|  |          |        |          |     |     |               |               |       |
| Anatomy  |          |        |          |     |     |               |               |       |
| Application of anatomical knowledge in clinical and operative setting  |          | Х      |          |     |     | X             | X             |       |
| Privsiology  |          | V      |          |     |     |               |               |       |
| To understand the indications and theory of urodynamic studies   |          | X      | <u> </u> |     |     |               | X             |       |
| Assessment of the normevelopmic retient  |          | X      | <u> </u> |     |     |               | Х             |       |
| Assessment of the enurie setient   |          | X      | <u> </u> |     |     |               |               |       |
| Assessment of the anunc patient  | X        | X      |          |     |     |               | X             |       |
| Assessment and management of the patient in renal failure  |          | X      |          |     |     |               | X             |       |
| Application of knowledge in clinical and energitive setting  |          | X      |          | v   |     |               | X             |       |
| Application of knowledge in clinical and operative setting   | X        | X      | X        | Х   |     |               | X             |       |
| Assessment and early management of the subfertile male   | X        | X      |          |     |     |               | X             |       |
| Assessment and early management of the subjective active   | X        | X      |          | v   |     |               | X             |       |
| Application of Knowledge in clinical and operative setting   | ^        | X<br>V | ^        | ٨   |     |               | X<br>         |       |
|  |          | ~ ~    |          |     |     | v             | ^<br>         | 1     |
| I Inderstanding of VN/ density and velocity  | -        | •      |          |     | 1   | · ^           | ۸ N           | 1 I I |

| Pharmacology  |     |     |      |     |     |               |   |     |
|---|-----|-----|------|-----|-----|---------------|---|-----|
| Appropriate use of commonly used drugs recognising common side effects, interactions and contra-indications           |     | Х   |      |     |     |               | Х                                       | 1   |
| Pathology   |     |     |      |     |     |               |   |     |
| Recognition of possible genetic component to specified condition  |     | Х   |      |     |     | Х             | Х                                       | 1   |
| Investigation and basic management of patients with congenital disorders of the GU tract                              | Х   | Х   |      |     |     |               | х                                       | 1   |
| Appropriate investigation and management of urinary tract infection   | Х   | Х   |      |     |     |               | х                                       | 1   |
| Understand and apply principles of infection control  |     | Х   |      |     |     | Х             | х                                       | 1   |
| Management of multi-resistant organisms   |     | Х   |      |     |     | Х             | Х                                       | 1   |
| Investigation and management of chronic inflammatory diseases affecting the urinary tract                             |     | Х   |      |     |     |               | Х                                       | 1   |
| Diagnosis, staging and early management of patients with urological malignancy  |     | Х   |      |     |     | Х             | Х                                       | 1   |
| Diagnosis and early management of patients with trauma ATLS   |     | Х   |      |     |     |               | Х                                       | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |   |     |
| Application of knowledge in operative setting   |     |     | х    | Х   |     |               | Х                                       | 1   |
| Urodynamic assessment   |     | Х   | Х    | Х   |     |               | Х                                       | 1   |
| Urodynamic assessment of the neuropathic bladder  |     | Х   | Х    | Х   |     |               | Х                                       | 1   |
|   |     |     |      |     |     |               |   |     |
| Clinical pharmacology   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2                           | GMP |
| OBJECTIVE   |     |     |      |     |     |               |   |     |
| To understand and apply pharmacological principles in the management of patients with urological disease              |     |     |      |     |     |               |   |     |
| KNOWLEDGE   |     |     |      |     |     |               |   |     |
| Clinical pharmacology of commonly used drugs including side-effects and complications of commonly used drugs for the  |     | х   |      |     |     | x             | x                                       |     |
| following conditions:   |     | ~   |      |     |     | ~             | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |     |
| Acute and chronic infection   |     | Х   |      |     |     | Х             | Х                                       |     |
| Lower urinary tract dysfunction   |     | Х   |      |     |     | Х             | х                                       |     |
| Erectile dysfunction  |     | Х   |      |     |     | Х             | х                                       |     |
| Urinary incontinence  |     | Х   |      |     |     | Х             | х                                       |     |
| Systemic chemotherapy for urological malignancy   |     | Х   |      |     |     | Х             | Х                                       |     |
| Intravesical chemotherapy for urological malignancy   |     | Х   |      |     |     | Х             | Х                                       |     |
| Anticoagulants  |     | Х   |      |     |     | Х             | Х                                       |     |
| Drugs used for pain relief including post-operative pain relief   |     | Х   |      |     |     | Х             | Х                                       |     |
| Immunosupressants   |     | Х   |      |     |     | Х             | Х                                       |     |
| DVT prophylaxis in Urological surgery   |     | Х   |      |     |     | Х             | Х                                       |     |
| Side effects upon the genitourinary tract of drugs used to treat common conditions (eg cardiovascular and respiratory |     | x   |      |     |     | ×             | ×                                       |     |
| disease)  |     | ~   |      |     |     | ~             | ~                                       |     |
| CLINICAL SKILLS   |     |     |      |     |     |               |   |     |
| Appropriate use of commonly used drugs recognising common side effects, interactions and contra-indications           |     | Х   |      |     |     | Х             | Х                                       |     |
| Systemic chemotherapy for urological malignancy   | Х   | Х   | Х    |     |     | Х             | Х                                       |     |
| Intravesical chemotherapy for urological malignancy   | Х   | Х   | Х    |     |     | Х             | Х                                       |     |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |   |     |
| N/A   |     |     |      |     |     |               |   |     |

| Common research methodology (dry science)   | CEX | CBD    | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|---|-----|--------|------|-----|-----|---------------|---------------|-------|
| OBJECTIVE   |     |        |      |     |     |               |               |       |
| To understand statistical mechanisms and be able to critically assess evidence in the literature                              |     |        |      |     |     |               |               |       |
| To understand the principles and practice of audit  |     |        |      |     |     |               |               |       |
| KNOWLEDGE   |     |        |      |     |     |               |               |       |
| Understanding of statistical significance, relative risk, odds ratio, weighted mean difference and confidence intervals       |     | Х      |      |     |     | х             | х             | 1     |
| Application of tests e.g. Parametric, Non-parametric, Multivariate and Chi-squared analysis                                   |     | Х      |      |     |     | х             | Х             | 1     |
| Principles of screening   |     | Х      |      |     |     | х             | х             | 1     |
| Principles of audit   |     | Х      |      |     |     | Х             | Х             | 1     |
| Hierarchy of evidence   |     | Х      |      |     |     | Х             | Х             | 1     |
| Principles (including theory and design), applications and limitations of randomised controlled trials, observational studies |     | v      |      |     |     | ×.            | ×.            |       |
| and retrospective series  |     | Х      |      |     |     | X             | X             | 1     |
| Methodology that underpin phase 1, 2, 3 and 4 trials  |     | Х      |      |     |     | х             | х             | 1,2,3 |
| Understanding of Good Clinical Practice including importance of ethics in research and research governance                    |     | Х      |      |     |     | Х             | Х             | 1,2,4 |
| Basics of meta-analysis, systematic review and narrative review   |     | Х      |      |     |     | Х             | Х             | 1     |
| Basics of qualitative research  |     | Х      |      |     |     | Х             | Х             | 1     |
| CLINICAL SKILLS   |     |        |      |     |     |               |               |       |
| Critical appraisal of scientific publications including quality assessment  |     | Х      |      |     | Х   | Х             | Х             | 1     |
| Ability to interpret the relevance of trial / study outcomes to the care of patients  |     | Х      |      |     | Х   | Х             | Х             | 1,2   |
| Application of research methodology to clinical setting   |     | Х      |      |     | Х   | Х             | Х             | 1     |
| Audit   |     | Х      |      |     | х   | Х             | Х             | 1,2,3 |
| Systematic review   |     | Х      |      |     | Х   | Х             | Х             | 1     |
| Observational study   |     | Х      |      |     | Х   | Х             | Х             | 1     |
| TECHNICAL SKILLS AND PROCEDURES   |     |        |      |     |     |               |               |       |
| N/A   |     |        |      |     |     |               |               |       |
|   |     |        |      |     |     |               |               |       |
| Stone Disease   | CEX | CBD    | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
| OBJECTIVE   |     |        |      |     |     |               |               |       |
| To assess a patient presenting with a urinary stone in kidney, ureter or bladder  |     |        |      |     |     |               |               |       |
| To treat a patient presenting with a urinary stone in kidney, ureter or bladder including onward referral when appropriate    |     |        |      |     |     |               |               |       |
| KNOWLEDGE   |     |        |      |     |     |               |               |       |
| Principles of management of stones in the urinary tract   |     | Х      |      |     |     | Х             | Х             | 1     |
| Mechanisms of stone formation   |     | Х      |      |     |     | х             | Х             | 1     |
| Natural history and pathophysiology   |     | Х      |      |     |     | Х             | Х             | 1     |
| Variable symptom complexes according to site  |     | Х      |      |     |     | Х             | Х             | 1     |
| Complications of stone formation  |     | Х      |      |     |     | Х             | Х             | 1     |
| Metabolic management of urinary stone disease   |     | Х      |      |     |     | Х             | Х             | 1     |
| Renal calculi   |     |        |      |     |     |               |               |       |
| Management of renal calculi   |     | Х      |      |     |     | Х             | Х             | 1     |
| Ureteric calculi  |     |        |      |     |     |               |               |       |
| Mechanisms of ureteric colic  |     | Х      |      |     |     | Х             | Х             | 1     |
| Renal adaptation to ureteric obstruction  |     | Х      |      |     |     | Х             | Х             | 1     |
| The role of IVU/USS and CT in diagnosis   |     |        | T    |     |     | V             | V             | 1     |
|   |     | Х      |      |     |     | X             | X             | -     |
| Management of ureteric calculi  |     | X<br>X |      |     |     | X             | X             | 1     |
| Management of ureteric calculi Bladder calculi  |     | X      |      |     |     | X<br>X        | X<br>X        | 1     |

| CLINICAL SKILLS   |   |   |   |   |   | Τ   |
|---|---|---|---|---|---|-----|
| Requirements for emergency therapy  |   | Х |   | Х | Х | 1   |
| Appropriate multidisciplinary assessment and management                             |   | Х |   | Х | Х | 1   |
| Investigation and management of patient with recurrent stone disease                |   | Х |   | Х | Х | 1   |
| Renal calculi   |   |   |   |   |   |     |
| Assessment of obstruction / sepsis  | Х | Х |   |   | Х | 1   |
| Appropriate management and treatment plans  |   | Х |   | Х | Х | 1,3 |
| Correct referral pathways   |   | Х |   | Х | Х | 1,3 |
| Medical management  |   | Х |   | Х | Х | 1   |
| Ureteric calculi  |   |   |   |   |   |     |
| Assessment of obstruction / sepsis  | Х | Х |   |   | Х | 1   |
| Appropriate management and treatment plans  |   | Х |   | Х | Х | 1   |
| Correct referral pathways   |   | Х |   | Х | Х | 1,3 |
| Medical management  |   | Х |   | Х | Х | 1   |
| Bladder calculi   |   |   |   |   |   |     |
| Assessment of obstruction / sepsis  | Х | Х |   |   | Х | 1   |
| Appropriate investigation and treatment plans                                       | х | Х |   | Х | Х | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |   |   |   |   |   |     |
| ESWL for renal stone  |   |   | Х |   |   | 1   |
| ESWL for ureteric stone   |   |   | Х |   |   | 1   |
| Rigid ureteroscopy and therapeutic management lower 1/3 ureteric calculi            |   |   | Х |   |   | 1   |
| Rigid ureteroscopy and therapeutic management middle and upper 1/3 ureteric calculi |   |   | Х |   |   | 1   |
| Cystoscopy and insertion JJ stent   |   |   | Х |   |   | 1   |
| Endoscopic fragmentation of bladder calculi   |   |   | Х |   |   | 1   |
| Open removal bladder calculi  |   |   | Х |   |   | 1   |

| Urinary tract obstruction  | CEX | CBD    | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2                           | GMP        |
|--|-----|--------|------|-----|-----|---------------|---|------------|
| OBJECTIVE  |     |        |      |     |     |               |   |            |
| To assess and treat a patient presenting with lower urinary tract symptoms and dysfunction                 |     |        |      |     |     |               |   |            |
| To assess and treat a patient who has urinary tract obstruction including onward referral when appropriate |     |        |      |     |     |               |   |            |
| To assess and treat a patient with urinary retention   |     |        |      |     |     |               |   |            |
| KNOWLEDGE  |     |        |      |     |     |               |   |            |
| Upper tract obstruction  |     |        |      |     |     |               |   |            |
| Anatomy, causes and pathophysiology of upper urinary tract obstruction                                     |     | Х      |      |     |     | х             | х                                       | 1          |
| Aetiology, pathophysiology and management of ureteric stricture  |     | х      |      |     |     | х             | х                                       | 1          |
| Lower tract obstruction  |     |        |      |     |     |               |   | 1          |
| Anatomy, physiology, epidemiology and pathophysiology of lower urinary tract dysfunction in men and women  |     | х      |      |     |     | х             | х                                       | 1          |
| Investigative tools  |     | X      |      |     |     | x             | x                                       | 1          |
| Available treatment options for male and female LUTS   |     | X      |      |     |     | x             | X                                       | 1          |
| Causes and pathophysiology of urinary retention in men and women   |     | X      |      |     |     | x             | X                                       | 1          |
| Mechanisms of acute/chronic retention  |     | X      |      |     |     | x             | X                                       | 1          |
| Actiology, nathonbysiology and management of urethral stricture  |     | X      |      |     |     | x             | X                                       | 1          |
| Actiology, pathophysiology and management of bladder neck stenosis   |     | X      |      |     |     | x             | x                                       | 1          |
| Male LITS and BPH  |     | ~      |      |     |     | ~             | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | <u> </u>   |
| Enidemiology of BPH  |     | x      |      |     |     | x             | x                                       | 1          |
| Natural history and complications of BPH   |     | X      |      |     |     | x             | x                                       | 1          |
| Mechanisms of fluid balance  |     | Ŷ      |      |     |     | x             | × ×                                     | 1          |
| Urodynamic basis for symptoms  |     | × ×    |      |     |     | ×             | X                                       | 1          |
| Non-urological causes of similar symptom complex   |     | × ×    |      |     |     | ×             | X                                       | 1          |
|  |     | × ×    |      |     |     | ×             | X                                       | 1          |
| Detailed medical and surgical therapy for RPH  |     | ^<br>V |      |     |     | ×             | ×                                       |            |
|  |     | ^      |      |     |     | ^             | ^                                       | + <u> </u> |
|  |     |        |      |     |     |               |   | +          |
| Appropriate assessment of unilateral and hilateral renal obstruction                                       |     | v      |      |     |     |               | v                                       | 1          |
| Appropriate assessment of unilateral and bilateral renal obstruction                                       | V   | X      |      |     |     | V             | X                                       |            |
| Recognition and early management of sepsis   | ×   | X      |      |     |     | X             | ×                                       |            |
| Appropriate management of upper urinary tract obstruction  |     | X      |      |     |     | X             |   | 1          |
| Interpretation of IVU and diuresis renography  |     | X      |      |     |     | X             |   | 1          |
| Management of post obstructive diversis  |     | X      |      |     |     |               | X                                       | 1          |
| Assessment of renal function and fluid loading   |     | X      |      |     |     |               | X                                       | 1          |
| Assessment of fluid balance and renal function   |     | X      |      |     |     |               | X                                       | 1          |
| Lower tract obstruction  |     |        |      |     |     |               |   | <u> </u>   |
| Interpretation of urinary flow rates   | X   | X      |      |     |     | X             | X                                       | 1          |
| Appropriate clinical assessment and investigation of men and women with LUIS                               | X   | X      |      |     |     |               | X                                       | 1          |
| Formulation of differential diagnosis for men and women with LUIS  |     | X      |      |     |     | X             | X                                       | 1          |
| Formulation of therapeutic plan for men and women with LUIS  |     | X      |      |     |     | X             | X                                       | 1          |
| Management of urethral stricture including onward referral as appropriate                                  |     | Х      |      |     |     | X             | X                                       | 1          |
| Management of bladder neck stenosis including onward referral as appropriate                               |     | Х      |      |     |     | X             | X                                       | 1          |
| Male LUTS and BPH  |     |        |      |     |     |               |   | <u> </u>   |
| Appropriate assessment, investigation and management including   |     | X      |      |     |     |               | X                                       | 1          |
| Interpretation of fluid charts   |     | Х      |      |     |     |               | X                                       | 1          |
| Interpretation of biochemistry (eg PSA)  |     | Х      |      |     |     | X             | Х                                       | 1          |
| Interpretation of urodynamic investigations (eg flow rate, residual urine)                                 |     | Х      |      |     |     | X             | Х                                       | 1          |
| Formulation of appropriate differential diagnosis  |     | Х      |      |     |     |               | Х                                       | 1          |
| Formulation of appropriate plan of management  |     | Х      |      |     |     |               | Х                                       | 1          |
| Medical therapy of BPH / LUTS  |     | Х      |      |     |     | Х             | Х                                       | 1          |
| TECHNICAL SKILLS AND PROCEDURES  |     |        |      |     |     |               |   | <u> </u>   |
| Cystoscopy and retrograde ureterogram  |     |        |      | Х   |     |               |   | 1          |
| Cystoscopy and insertion JJ stent  |     |        |      | Х   |     |               |   | 1          |
| Urodynamic testing   |     |        | Х    |     |     |               |   | 1          |
| TURP   |     |        |      | Х   |     |               |   | 1          |
| Bladder neck incision  |     |        |      | Х   |     |               |   | 1          |
| Percutaneous insertion of suprapubic catheter  |     |        | Х    |     |     |               |   | 1          |
| Urethrography  |     |        |      | Х   |     |               |   | 1          |
| Optical urethrotomy  |     |        |      | Х   |     |               |   | 1          |

| Urinary Tract Infections  | CEX | CBD    | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|---|-----|--------|------|-----|-----|---------------|---------------|-------|
| OBJECTIVE   |     |        |      |     |     |               |               |       |
| To understand the pathogenesis, natural history and complications of urinary tract infection            |     |        |      |     |     |               |               |       |
| To be able to assess and manage patients presenting with genital infections                             |     |        |      |     |     |               |               |       |
| KNOWLEDGE   |     |        |      |     |     |               |               |       |
| Basic Mechanisms  |     |        |      |     |     |               |               |       |
| Biological mechanisms of upper and lower urinary tract infection – virulence                            |     | Х      |      |     |     | Х             | х             | 1     |
| Host defence  |     | X      |      | -   |     | X             | X             | 1     |
| Antibiotics - Mechanisms of action  |     | X      |      |     |     | X             | x             | 1     |
| Pvelonephritis  |     | ~      |      |     |     | ~             | ~             | 1     |
| Predisposing causes   |     | Х      |      |     |     | х             | Х             | 1     |
| Clinical presentation and management  | Х   | Х      |      |     |     | Х             | Х             | 1     |
| Renal and peri-renal abscess  |     |        |      |     |     |               |               |       |
| Pathogenesis predisposing causes  |     | X      |      |     |     | X             | X             | 1     |
| Clinical presentation and management<br>Conite uniners tuborculosis                                     | X   | X      |      |     |     | X             | X             | 1     |
| Pathogenesis, natural history and complications   |     | х      |      |     |     | x             | x             | 1     |
| Clinical presentation and management  | Х   | Х      |      |     |     | Х             | х             | 1     |
| Prostatitis   |     |        |      |     |     |               |               |       |
| Classification, pathogenesis, natural history and complications   |     | Х      |      |     |     | Х             | х             | 1     |
| Diagnosis and management  | Х   | X      |      |     |     | X             | X             | 1     |
| Role of segmented culture   |     | X      |      |     |     | X             | X             | 1     |
| Pathogenesis, natural history and complications   |     | х      |      |     |     | X             | x             | 1     |
| Clinical presentation and differential diagnosis  | Х   | Х      |      |     |     | Х             | X             | 1     |
| Treatment   |     | Х      |      |     |     | X             | Х             | 1     |
| Scrotal abscess   |     |        |      |     |     |               |               |       |
| Classification  |     | X      |      |     |     | X             | X             | 1     |
| Diagnosis and management  |     | X<br>X |      |     |     | X             | X             | 1     |
| Fournier's gangrene   |     | ~      |      |     |     | ~             | ~             |       |
| Pathophysiology and clinical features of Fournier's gangrene  |     | Х      |      |     |     | Х             | х             | 1     |
| Sexually transmitted diseases including Chlamydia trachomatis, Gonococcal and non-Gonococcal urethritis |     |        |      |     |     |               |               |       |
| Pathogenesis, natural history and complications   |     | Х      |      |     |     | X             | X             | 1     |
| Clinical presentation, differential diagnosis and management  | Х   | X      |      |     |     | X             | X             | 1     |
| Pathogenesis, natural history and complications   |     | x      |      |     |     | x             | x             | 1     |
| Clinical presentation   | Х   | X      |      |     |     | X             | X             | 1     |
| NIH criteria for diagnosis  |     | Х      |      |     |     | Х             | х             | 1     |
| Management options  | Х   | Х      |      |     |     |               | х             | 1     |
| Retroperitoneal fibrosis  |     |        |      |     |     |               |               |       |
| Pathogenesis, natural history and complications   | v   | X      |      |     |     | X             | X             | 1     |
| Clinical presentation and management  | ^   | ^      |      |     |     | ^             | ^             | 1     |
| General   |     |        |      |     |     |               |               | 1     |
| Identification of significant infection and asymptomatic bacteriuria                                    |     | Х      |      |     |     | Х             | Х             | 1     |
| Correct antibiotic selection  |     | Х      |      |     |     |               | х             | 1     |
| Management of specific patient groups e.g adult females, children                                       |     | X      |      |     |     | X             | X             | 1     |
| Collection of appropriate samples and interpretation of results   |     | X      |      |     |     | X             | X             | 1     |
| Rapid and appropriate assessment of patient   |     | х      |      |     |     |               | x             | 1     |
| Correct interpretation of tests   |     | X      |      |     |     | X             | x             | 1     |
| Appropriate diagnostic and microbiological requests   |     | Х      |      |     |     | Х             | Х             | 1     |
| Indications for nephrostomy   |     | Х      |      |     |     | Х             | х             | 1     |
| Renal and peri-renal abscess  | V   | N N    |      |     |     |               |               | 1     |
| Rapid and appropriate assessment  | Х   | X      |      |     |     |               | X             | 1     |
| Appropriate diagnostic and microbiological requests   |     | X      |      |     |     | X             | x             | 1     |
| Appropriate treatment   |     | X      |      |     |     |               | X             | 1     |
| Genitourinary tuberculosis  |     |        |      |     |     |               |               |       |
| Rapid and appropriate assessment  | Х   | X      |      |     |     |               | X             | 1     |
| Correct Interpretation of tests   |     | X      |      |     |     | X             | X             | 1     |
| Prostatitis   |     | ^      |      |     |     | ^             | ^             |       |
| Appropriate assessment  | Х   | Х      |      |     |     |               | х             | 1     |
| Correct interpretation of tests   |     | Х      |      |     |     | Х             | Х             | 1     |
| Appropriate diagnostic and microbiological requests   |     | Х      |      |     |     |               | Х             | 1     |
| Medical management  | Х   | Х      |      |     |     |               | X             | 1     |
| Appropriate assessment of patient   | x   | x      |      |     |     |               | x             | 1     |
| Correct interpretation of tests   | ~   | X      |      |     |     |               | x             | 1     |
| Appropriate diagnostic and microbiological requests   |     | X      |      |     |     | X             | X             | 1     |
| Medical management of patient   | Х   | Х      |      |     |     |               | Х             | 1     |
| Scrotal abscess   |     |        |      |     |     |               |               |       |
| Appropriate assessment of patient   | Х   | X      |      |     |     | v             | X             | 1     |
| Appropriate diagnostic and microbiological requests   |     | X<br>X |      |     |     | X             | X<br>X        | 1     |
| Medical management of patient   | Х   | X      |      |     |     |               | X             | 1     |
| Fournier's gangrene   |     |        |      |     |     |               |               | 1     |
| Appropriate management of Fournier's gangrene   |     | Х      |      |     |     |               | Х             | 1     |
| Liaison with other teams as appropriate e.g. plastic and colorectal surgeons                            |     | Х      |      |     |     |               | Х             | 1,2,3 |
| Sexually transmitted diseases including Chlamydia trachomatis, Gonococcal and non-Gonococcal urethritis | V   | ~      |      |     |     |               | v             | 1     |
| Correct interpretation of tests   | ۸   | X      |      |     |     |               | X             | 1     |
| Appropriate diagnostic and microbiological requests   |     | X      |      |     |     |               | X             | 1     |
| Liaison with other teams as appropriate e.g Gynaecology, GUM  |     | Х      |      |     |     |               | х             | 1,2,3 |

| Interstitial cystitis and chronic pelvic pain syndrome |   |   |   |   |   |   | 1 |
|--|---|---|---|---|---|---|---|
| Assessment of patient                                  | Х | Х |   |   |   | х | 1 |
| Correct interpretation of tests                        |   | Х |   |   | Х | Х | 1 |
| Medical management of patient                          |   | Х |   |   |   | Х | 1 |
| Retroperitoneal fibrosis                               |   |   |   |   |   |   |   |
| Assessment of patient                                  | Х | Х |   |   |   | Х | 1 |
| Correct interpretation of tests                        |   | Х |   |   | Х | Х | 1 |
| Medical management of patient                          |   | Х |   |   |   | Х | 1 |
| TECHNICAL SKILLS AND PROCEDURES                        |   |   |   |   |   |   |   |
| Rigid and flexible cystoscopy                          |   |   | Х | Х |   |   | 1 |
| Cystoscopy and retrograde ureterogram                  |   |   |   | Х |   |   | 1 |
| Cystoscopy and JJ stent insertion                      |   |   |   | Х |   |   | 1 |
| Surgical management of scrotal abscess                 |   |   |   | Х |   |   | 1 |
| Surgical management of Fournier's gangrene             |   |   |   | Х |   |   | 1 |
| Retroperitoneal fibrosis                               |   |   |   |   |   |   | 1 |
| Cystoscopy and retrograde ureterogram                  |   |   |   | Х |   |   | 1 |
| Cystoscopy and JJ stent insertion                      |   |   |   | Х |   |   | 1 |
| Interstitial cystitis and chronic pelvic pain syndrome |   |   |   |   |   |   | 1 |
| Cystoscopy and biopsy                                  |   |   | Х |   |   |   | 1 |

| University constitution  | CEV | CDD | DODC | 004 | NACE. |               |               | CAAD     |
|--|-----|-----|------|-----|-------|---------------|---------------|----------|
|  | CEX | CRD | DOPS | РВА | IVISE | ISB Section 1 | ISB Section 2 | GIVIP    |
|  |     |     |      |     |       |               |               |          |
| To assess and manage a patient presenting with symptoms of urinary incontinence including onward referral when |     | х   |      |     |       |               | х             | 1        |
| appropriate  |     |     |      |     |       |               |               | <u> </u> |
| To assess and manage patients with neuropathic bladder dysfunction including onward referral when appropriate  |     | Х   |      |     |       |               | X             | 1        |
| KNOWLEDGE  |     |     |      |     |       |               |               | 1        |
| Aetiology, epidemiology, pathophysiology and classification incontinence in men and women                      |     | Х   |      |     |       | Х             | Х             | 1        |
| Clinical presentation and differential diagnosis of urinary incontinence                                       | Х   | Х   |      |     |       |               | Х             | 1        |
| Management of urinary incontinence   |     | Х   |      |     |       | Х             | Х             | 1        |
| Aetiology, epidemiology, pathophysiology and classification of neuropathic bladder                             |     | Х   |      |     |       | Х             | Х             | 1        |
| Clinical presentation and differential diagnosis of urinary incontinence                                       | Х   | Х   |      |     |       |               | Х             | 1        |
| Management of neuropathic incontinence   |     | Х   |      |     |       | Х             | Х             | 1        |
| Basic anatomy physiology, pathophysiology, pharmacology of neuropathic bladder                                 |     | Х   |      |     |       | Х             | Х             | 1        |
| Causes of neuropathic bladder  |     | Х   |      |     |       | Х             | Х             | 1        |
| Types of neuropathic bladder presentation  |     | Х   |      |     |       | Х             | Х             | 1        |
| Clinical presentation and differential diagnosis   | Х   | Х   |      |     |       |               | Х             | 1        |
| CLINICAL SKILLS  |     |     |      |     |       |               |               | 1        |
| Urinary incontinence   |     |     |      |     |       |               |               | 1        |
| Appropriate history and examination  | х   | Х   |      |     |       |               | Х             | 1        |
| Investigation including Interpretation of frequency volume chart   |     | Х   |      |     |       | Х             | Х             | 1        |
| Appropriate liaison with multidisciplinary team  |     | Х   |      |     |       |               | Х             | 1,2,3    |
| Appropriate referral for sub-specialist management and surgery   |     | Х   |      |     |       |               | Х             | 1        |
| Formulation of a realistic treatment plan  |     | Х   |      |     |       |               | Х             | 1        |
| Medical management of urinary incontinence   |     | Х   |      |     |       | Х             | Х             | 1        |
| Neuropathic bladder  |     |     |      |     |       |               |               |          |
| Appropriate history and examination  | Х   | Х   |      |     |       |               | Х             | 1        |
| Appropriate investigation  |     | Х   |      |     |       | Х             | Х             | 1        |
| Interpretation of frequency volume chart   |     | Х   |      |     |       |               | Х             | 1        |
| Appropriate liaison with multidisciplinary team (eg neurology and continence)                                  |     | Х   |      |     |       |               | Х             | 1        |
| Appropriate referral for sub-specialist management and surgery   |     | Х   |      |     |       |               | Х             | 1        |
| Formulation of a realistic treatment plan  |     | Х   |      |     |       |               | Х             | 1        |
| Medical management   |     | Х   |      |     |       |               | Х             | 1        |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |       |               |               | 1        |
| Urodynamic studies   |     |     | Х    |     |       |               |               | 1        |
| Cystoscopy and injection of Botulinum Toxin  |     |     |      | Х   |       |               |               | 1        |
| Cystoscopy and injection of urethral bulking agent   |     |     |      | Х   |       |               |               | 1        |
| Surgical insertion of mid-urethral tape  |     |     |      | Х   |       |               |               | 1        |
| Cystoscopy and insertion of suprapubic catheter  |     |     | Х    |     |       |               |               | 1        |

| OBJECTIVE  |        |   |  |   |   |   |            |
|--|--------|---|--|---|---|---|------------|
| To assess and manage patient with suspected urological cancer  | Х      | Х |  |   |   | Х | 1          |
| To manage patients with a proven urological cancer including onward referral where necessary                           | Х      | Х |  |   |   | Х | 1          |
| To treat the patient with empathy  | Х      | Х |  |   |   | Х | 1          |
| KNOWLEDGE  |        |   |  |   |   |   |            |
| Aetiology, epidemiology and pathophysiology  |        |   |  |   |   |   |            |
| Epidemiology of urological cancer  |        | Х |  |   | Х | Х | 1          |
| Role of genetic and environmental and factors in pathogenesis  |        | Х |  |   | Х | Х | 1          |
| Basic understanding of molecular biology of urological cancer  |        | Х |  |   | Х | Х | 1          |
| Knowledge of Oncogenes, growth factors and angiogenesis factors in relation to tumours                                 |        | Х |  |   | Х | Х | 1          |
| Clinical features  |        |   |  |   |   |   | 1          |
| Symptom complexes arising from urological malignancies kidney, ureter, bladder, prostate, testis and penis             |        | Х |  |   | Х | Х | 1          |
| Current standards for the investigation of common urological cancers   |        | Х |  |   | Х | Х | 1          |
| TNM classification of common urological tumours  |        | Х |  |   | Х | Х | 1          |
| Treatment  |        |   |  |   |   |   | 1          |
| Current standards of treatment for common urological Cancers   |        | Х |  |   | Х | Х | 1          |
| Principles of neo-adjuvant versus adjuvant therapy   |        | Х |  |   | Х | Х | 1          |
| Principles and application of radiotherapy   |        | Х |  |   | Х | Х | 1          |
| Terminal care  |        | Х |  |   |   | Х | 1          |
| Screening  |        |   |  |   |   |   |            |
| Principles of screening  |        | Х |  |   | Х | Х | 1          |
| PSA and other markers as screening tools   |        | Х |  |   | Х | Х | 1          |
| Application of urine cytology to screening   |        | Х |  |   | Х | Х | 1          |
| Controversies in screening for urological cancers  |        |   |  |   |   |   | 1          |
|  |        |   |  |   |   |   |            |
|  |        |   |  |   |   |   |            |
| High level empathetic and communication skills   | Х      |   |  | х |   |   | 1,2,3      |
| High level empathetic and communication skills<br>Rapid and appropriate assessment of patient with possible malignancy | X<br>X | X |  | Х | X | X | 1,2,3<br>1 |

| Correct interpretation of tests                                | Х |   |   | Х | Х | 1   |
|--|---|---|---|---|---|-----|
| Appropriate liaison with multidisciplinary team                | Х |   |   |   | Х | 1   |
| Appropriate management of urological malignancies              | Х |   |   | Х | Х | 1   |
| Appropriate referral for sub-specialist management and surgery | Х |   |   |   | Х | 1   |
| Care of the dying patient                                      | Х |   |   |   | Х | 1,3 |
| TECHNICAL SKILLS AND PROCEDURES                                |   |   |   |   |   |     |
| Cystoscopy and biopsy  |   | Х |   |   |   | 1   |
| Cystoscopy and diathermy bladder lesion                        |   |   | Х |   |   | 1   |
| TURBT  |   |   | Х |   |   | 1   |
| TURP   |   |   | Х |   |   | 1   |
| Cystoscopy and JJ stent insertion                              |   |   | Х |   |   | 1   |
| Ureteroscopy   |   |   | Х |   |   | 1   |
| Cystoscopy and retrograde pyelogram                            |   |   | Х |   |   | 1   |
| Inguinal Orchidectomy  |   |   | Х |   |   | 1   |
| ileal conduit  |   |   | Х |   |   | 1   |
| Nephrectomy (open/ Lap)  |   |   | Х |   |   | 1   |
| Radical Prostatectomy  |   |   | Х |   |   | 1   |
| Radical Cystectomy   |   |   | Х |   |   | 1   |

| Andrology  | CEX | CBD    | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP               |
|--|-----|--------|------|-----|-----|---------------|---------------|-------------------|
| OBJECTIVE  |     |        |      |     |     |               |               |                   |
| To assess and manage a man with male factor infertility including onward referral as necessary                             | х   |        |      |     |     |               |               | 1,3               |
| To assess and manage a man with erectile dysfunction including onward referral as necessary                                | Х   |        |      |     |     |               |               | 1,3               |
| To assess and manage a man with varicocele, ejaculatory disorders, penile deformity, penile fracture or prolonged erection |     |        |      |     |     |               |               |                   |
| including onward referral as necessary   | X   |        |      |     |     |               |               | 1,3               |
| To assess and counsel a man requesting a vasectomy   | x   |        |      |     |     |               |               | 1.3               |
| KNOWLEDGE  |     |        |      |     |     |               |               |                   |
| Anatomy, embryology and physiology of male reproductive system   |     | Х      |      |     |     | х             | Х             | 1                 |
| Causes, assessment and management of male factor infertility   |     | Х      |      |     |     | х             | х             | 1                 |
| Modern methods of assisted fertilisation   |     | X      |      |     |     | X             | X             |                   |
| Anatomy, physiology and pharmacology of erectile mechanism   |     | X      |      |     |     | X             | X             |                   |
| Effects of concurrent nathology on erectile mechanism  |     | X      |      |     |     | x             | X             | $\frac{-}{1}$     |
| Standards of assessment and investigation of erectile dysfunction  |     | X      |      |     |     | x             | x             |                   |
| Therapeutic options including the pharmacological basis of modern therapy  |     | X      |      |     |     | x             | x             |                   |
| Penile deformity – anatomy, physiology and management  |     | X      |      |     |     | x             | x             |                   |
| Prolonged erection – Causes, nathonhysiology and management  |     | X      |      |     |     | x             | X             |                   |
| Popile fracture - assessment and management  | v   | ^<br>V |      |     |     | ×             | ×             |                   |
| Contracention - Methods, results and complications of different methods of contracention                                   | ^   | ^<br>V |      |     |     | ^<br>v        | ^<br>V        | $+$ $\frac{1}{1}$ |
| Einsulatory disorders anatomy physiology and management  |     |        |      |     |     | ×             | ^<br>V        |                   |
| Ejaculatory disorders – anatomy, physiology and management   |     |        |      |     |     | A V           | A X           |                   |
| Vancocele – anatomy, physiology and management   |     |        |      |     |     | X             | X             |                   |
| Eurrent standard of treatment for penile cancer  |     | X      |      |     |     | X             | X             |                   |
| Embryology and physiology of male reproductive system  |     | X      |      |     |     | X             | X             |                   |
|  |     |        |      |     |     |               |               | +                 |
| Male infertility   |     |        |      |     |     |               |               | -                 |
| Appropriate investigation and treatment plan   |     | X      |      |     |     |               | X             | 1                 |
| Liaison with multidisciplinary team and referral for sub-specialist management   |     |        |      |     |     |               | X             | 1,2,3             |
| Basic management of the subfertile male  |     | Х      |      |     |     |               | Х             | 1                 |
| Appropriate liaison with multidisciplinary team and referral for sub-specialist management and / or surgery                |     |        |      |     |     |               | Х             | 1,2,3             |
| Appropriate investigation and treatment plan and onward referral where appropriate for Ejaculatory disorders               |     | Х      |      |     |     |               | Х             | 1                 |
| Erectile dysfunction   |     |        |      |     |     |               |               |                   |
| High level and empathetic communication skills   | Х   |        |      |     | Х   |               | Х             | 1,2,3             |
| Appropriate investigation and treatment plan   |     | Х      |      |     |     |               | Х             | 1                 |
| Medical management of erectile dysfunction   |     | Х      |      |     |     |               | Х             | 1                 |
| Liaison with multidisciplinary team and referral for sub-specialist management   |     |        |      |     |     |               | Х             | 1,2,3             |
| Andrology  |     |        |      |     |     |               |               | 1                 |
| Appropriate investigation and treatment plan and onward referral where appropriate for the following:                      | Х   | Х      |      |     |     |               | Х             | 1                 |
| Penile deformity   |     | Х      |      |     |     |               | Х             | 1                 |
| Prolonged erection   |     | Х      |      |     |     |               | Х             | 1                 |
| Ejaculatory disorders  |     |        |      |     |     |               | Х             | 1                 |
| Varicocele   | Х   |        |      |     |     |               | Х             | 1                 |
| Penile fracture Appropriate referral for sub-specialist management and surgery   |     | Х      |      |     |     |               | Х             | 1                 |
| Contraception - Assess and counsel a man requesting contraceptive advice   | х   |        |      |     |     |               | Х             | 1,2,3             |
| TECHNICAL SKILLS AND PROCEDURES  |     |        |      |     |     |               |               |                   |
| Adult Circumcision   |     |        |      | Х   |     |               |               | 1                 |
| Hydrocele repair   |     |        |      | Х   |     |               |               | 1                 |
| Epididymal cyst excision   |     |        |      | Х   |     |               |               | 1                 |
| Nesbit's procedure   |     |        |      | Х   |     |               |               | 1                 |
| Operative management of penile cancer  |     |        |      | Х   |     |               |               | 1                 |
| Operative management of priapism   | ſ   |        |      | Х   | ſ   |               |               | 1                 |
| Operative management of penile fracture  |     |        | l    | Х   |     |               |               | 1                 |
| Vasectomy  |     |        | Ì    | Х   |     |               |               | 1                 |
| Operative management of varicocele   |     |        | Ī    | Х   |     |               |               | 1                 |
|  | •   |        | •    | •   | •   | -             |               |                   |

| Paediatric Urology  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To assess and manage a child with a congenital disorder of the urogenital tract including onward referral as necessary      | Х   | Х   |      |     |     |               | Х             | 1   |
| To assess and manage a child with a enuresis, congenital neuropathic bladder or with intersex, including onward referral as | v   | v   |      |     |     |               | v             | 1   |
| necessary   | X   | X   |      |     |     |               | X             | T   |
| To assess and manage a child with an inguinoscrotal abnormality including onward referral as necessary                      | Х   | Х   |      |     |     |               | Х             | 1   |
| To assess and manage a child with urinary infection, including onward referral as necessary                                 | Х   | Х   |      |     |     |               | Х             | 1   |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Embryology and anatomy of common congenital abnormalities, e.g undescended testis, duplex systems, reflux and               |     | v   |      |     |     | v             | v             | 1   |
| hydronephrosis  |     | ^   |      |     |     | ^             | ~             | 1   |
| Principles of functional assessment of the genitourinary tract  |     | Х   |      |     |     | Х             | Х             | 1   |
| Basic embryology, anatomy of abnormality and natural history of intersex, spina bifida and posterior urethral valves        |     | Х   |      |     |     | Х             | Х             | 1   |
| Concise knowledge of inguino-scrotal anatomy  |     | Х   |      |     |     | Х             | Х             | 1   |
| Bacteriology of UTI in childhood  |     | Х   |      |     |     | Х             | Х             | 1   |
| Natural history and normal patterns of continence   |     | Х   |      |     |     | Х             | Х             | 1   |

| CLINICAL SKILLS   |   |   |   |   |   |   |       |
|---|---|---|---|---|---|---|-------|
| Common congenital urological disorders e.g undescended testis, duplex systems reflux and hydronephrosis |   |   |   |   |   |   |       |
| Appreciation of prognostic possibilities  |   | Х |   |   | Х | Х | 1     |
| Appropriate investigation plans   |   | Х |   |   |   | Х | 1     |
| Formulation of realistic treatment plan   |   | Х |   |   |   | Х | 1     |
| Appropriate referral for sub-specialist management and / or surgery                                     |   | Х |   |   |   | Х | 1     |
| Family orientated communication skills  | Х | Х |   | Х |   | Х | 1,2,3 |
| Spina bifida, intersex and posterior urethral valves  |   |   |   |   |   |   |       |
| Appreciation of prognostic possibilities  |   | Х |   |   |   | Х | 1     |
| Formulation of realistic treatment plan   |   | Х |   |   |   | Х | 1     |
| Appropriate referral for sub-specialist management and / or surgery                                     |   | Х |   |   |   | Х | 1,2,3 |
| Inguinoscotal abnormalities (eg undescended testes, hydrocele, testicular torsion) and phimosis         |   |   |   |   |   |   |       |
| Appropriate tests to elicit differential diagnosis  |   | Х |   |   | Х | Х | 1     |
| Formulate appropriate treatment plan  |   | Х |   |   | Х | Х | 1     |
| Management of condition, including knowledge of indications, results and complications of surgery       |   | Х |   |   |   | Х | 1     |
| Urinary tract infection   |   |   |   |   |   |   |       |
| Practical management of UTI   |   | Х |   |   |   | Х | 1     |
| Appropriate investigation plans   |   | Х |   |   |   | Х | 1     |
| Formulation of realistic treatment plan   |   | Х |   |   |   | Х | 1     |
| Appropriate referral for sub-specialist management and / or surgery                                     |   | Х |   |   |   | Х | 1,2,3 |
| Enuresis  |   |   |   |   |   |   |       |
| Practical management  |   | Х |   |   |   | Х | 1     |
| Formulation of realistic treatment plan   |   | Х |   |   |   | Х | 1     |
| Appropriate referral for sub-specialist management and / or surgery                                     |   | Х |   |   |   | Х | 1     |
| TECHNICAL SKILLS AND PROCEDURES   |   |   |   |   |   |   |       |
| Circumcision  |   |   | Х |   |   |   | 1     |
| Hydrocele   |   |   | Х |   |   |   | 1     |
| Orchidopexy   |   |   | Х |   |   |   | 1     |
| Surgical exploration for torsions of testis, with fixation  |   |   | Х |   |   |   | 1     |

| Renal function and Nephrology   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|---|-----|-----|------|-----|-----|---------------|---------------|-------|
| OBJECTIVE   |     |     |      |     |     |               |               |       |
| To have a good working knowledge of the assessment of renal function and the urological conditions that predispose to the     |     |     |      |     |     |               | × ×           |       |
| development of renal failure.   |     | Х   |      |     |     |               | X             | 1     |
| To understand the pathogenesis, natural history and complications of urological conditions that can lead to renal dysfunction |     | v   |      |     |     |               | v             | 1     |
| and how urological intervention may prevent or delay the onset of renal failure   |     | X   |      |     |     |               | X             | 1     |
| To understand the different methods of renal replacement including renal transplantation                                      |     | Х   |      |     |     |               | Х             | 1     |
| KNOWLEDGE   |     |     |      |     |     |               |               |       |
| Physiology of renal function  |     | Х   |      |     |     | Х             | Х             | 1     |
| GFR estimation techniques   |     | Х   |      |     |     | Х             | Х             | 1     |
| Tubular function and dysfunction  |     | Х   |      |     |     | Х             | Х             | 1     |
| Basic pathology of acute and chronic renal failure  |     | Х   |      |     |     | Х             | Х             | 1     |
| Principles of dialysis, renal preservation  |     | Х   |      |     |     | Х             | Х             | 1     |
| Control of blood pressure   |     | Х   |      |     |     | Х             | Х             | 1     |
| Aetiology, diagnosis and early management of Acute tubular necrosis   |     | Х   |      |     |     | Х             | Х             | 1     |
| Aetiology, diagnosis and early management of pre-renal failure  |     | Х   |      |     |     | Х             | Х             | 1     |
| Mechanisms of obstructive uropathy  |     | Х   |      |     |     | Х             | Х             | 1     |
| Causes and pathophysiology of bilateral and unilateral obstruction  |     | Х   |      |     |     | Х             | Х             | 1     |
| Mechanisms of chronic retention and its relationship to obstructive uropathy  |     | Х   |      |     |     | Х             | Х             | 1     |
| Principles of haemodialysis and peritoneal dialysis   |     | Х   |      |     |     | Х             | Х             | 1     |
| Indwelling cannulae for haemodialysis   |     | Х   |      |     |     | Х             | Х             | 1     |
| Continuous ambulatory peritoneal dialysis (CAPD)  |     | Х   |      |     |     | Х             | Х             | 1     |
| Recipient selection and indications for transplantation   |     | Х   |      |     |     | Х             | Х             | 1     |
| Tissue typing and cross matching for transplantation  |     | Х   |      |     |     | Х             | Х             | 1     |
| Relative indications for haemodialysis or transplantation   |     | Х   |      |     |     | Х             | Х             | 1     |
| Immunosuppression for transplantation   |     | Х   |      |     |     | Х             | Х             | 1     |
| Complications of renal transplantation  |     | Х   |      |     |     | Х             | Х             | 1     |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |       |
| Practical methods of GFR assessment   |     | Х   |      |     |     |               | Х             | 1     |
| Assessment of patients with the following:  |     |     |      |     |     |               |               |       |
| Tubular disorders   |     | Х   |      |     |     |               | Х             | 1     |
| Anuria  |     | Х   |      |     |     |               | Х             | 1     |
| Renal failure   |     | Х   |      |     |     |               | Х             | 1     |
| Obstructed uropathy   |     | Х   |      |     |     |               | Х             | 1     |
| Liaison with other specialties (nephrology, transplantation)  |     | Х   |      |     |     |               | Х             | 1,2,3 |
| Management of fluid/acid base balance   |     | Х   |      |     |     |               | Х             | 1     |
| Assessment of fluid balance, renal function and fluid loading   | Х   | Х   |      |     |     |               | Х             | 1     |
| Management of post obstructive diuresis   |     | Х   |      |     |     |               | Х             | 1     |
| Ambulatory dialysis techniques  |     | Х   |      |     |     |               | Х             | 1     |
| Evaluation of potential recipients for renal transplantation and timing of dialysis   |     | Х   |      |     |     |               | Х             | 1     |
| Urinary tract workup of potential recipients prior to transplantation   |     | Х   |      |     |     |               | X             | 1     |
| Appropriate liaison with other specialties  |     | Х   |      |     |     |               | х             | 1,2,3 |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |       |
| Percutaneous supra-pubic catheterisation  |     |     | Х    |     |     |               |               | 1     |

| Emergency Urology  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To assess and manage patients who present acutely with urological problems, including onward referral when necessary |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Ureteric colic   |     |     |      |     |     |               |               |     |
| Pathophysiology of nephrolithiasis   |     | Х   |      |     |     | Х             | Х             | 1   |
| Renal adaptation to ureteric obstruction   |     | Х   |      |     |     | Х             | Х             | 1   |
| Presentation and clinical course of urinary tract calculi  |     | Х   |      |     |     |               | Х             | 1   |
| The role of IVU/USS and CT in diagnosis  |     | Х   |      |     |     | Х             | Х             | 1   |
| Management options   |     | Х   |      |     |     |               | Х             | 1   |
| Complications of urinary tract calculi including urosepsis   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of pain relief  |     | Х   |      |     |     | Х             | Х             | 1   |
| Endoscopic management of ureteric calculi  |     | Х   |      |     |     | X             | X             | 1   |

| Urinary tract infection and pyelonephritis   |          |        |        |   |          |                |
|--|----------|--------|--------|---|----------|----------------|
| Causes and nathonhysiology of urinary tract infections including the complications                                     |          | х      |        | x | x        | 1              |
| Presentation of urinary tract infection  |          | x      |        | × | x        | 1              |
| Renal function during infection  |          | x      |        | × | x        | 1              |
| Antibiotics and their relevant pharmacology  |          | X      |        | × | X        | 1              |
| Indications for further investigation of urinary tract infection   |          | X      |        | X | X        | 1              |
| Irinary rotantian in man and woman   |          | ~      |        | Λ | Λ        | -              |
| Causes, enidemiology and nathonbysiology of acute and chronic urinary retention  |          | v      |        | Y | Y        | 1              |
| Causes, epidemiology and pathophysiology of acute and chronic drinary recention  |          | ^<br>V |        | × | ×        | 1              |
| Disk fastars and timing of treatment   |          | ^<br>V |        | X | ~ ~      | 1              |
| Risk factors and timing of treatment   |          | X      |        | X | X        | 1              |
| reatment options for acute and chronic urinary retention   |          | X      |        | X | X        | 1              |
| Haematuria   |          |        |        |   |          |                |
| Causes and pathophysiology of haematuria   |          | X      |        | X | X        | 1              |
| Causes and pathophysiology of disorders of coagulation   |          | X      |        | X | X        | 1              |
| Tests for disorders of coagulation   |          | X      |        | X | X        | 1              |
| Testicular pain  |          |        |        |   |          |                |
| Anatomy of the Scrotum and Testicle  |          | Х      |        | Х | Х        | 1              |
| Pathophysiology of testicular torsion  |          | Х      |        | Х | Х        | 1              |
| Pathophysiology of epididymo-orchitis  |          | Х      |        | Х | Х        | 1              |
| Pathophysiology of scrotal abscess   |          | Х      |        | Х | Х        | 1              |
| Clinical features and differential diagnosis   |          | Х      |        | Х | Х        | 1              |
| Appropriate management   |          | Х      |        |   | Х        | 2              |
| Other emergencies  |          |        |        |   |          |                |
| Causes pathophysiology, clinical features and management of Fournier's Gangrene  |          | Х      |        | x | X        | 1              |
| Pathophysiology and clinical features of Fournier's Gangrene   |          | Х      |        | X | X        | 1              |
| Causes, pathophysiology, clinical features and management of phimosis  |          | Х      |        | X | X        | 1              |
| Causes, pathophysiology, clinical features and management of paraphimosis  |          | Х      |        | Х | Х        | 1              |
| Causes, pathophysiology, clinical features and management of priapism  |          | Х      |        | Х | Х        | 1              |
| Causes, pathophysiology, clinical features and management of penile fracture   |          | Х      |        | Х | Х        | 1              |
| CLINICAL SKILLS  |          |        |        |   |          |                |
| Ureteric colic   |          |        |        |   |          |                |
| Emergency assessment and treatment of uncomplicated urinary tract calculi including analgesia                          | x        | x      |        | x | x        | 1              |
| Appropriate definitive management of uncomplicated urinary tract calculi   |          | x      |        | × | x        | 1              |
| Assessment and management of obstruction and sensic  | v        | × ×    |        | × | ×        | 1              |
| Assessment and management of obstruction and sepsis  |          | ^<br>V |        | X | ×        | 1              |
| Uninemented infection and multiplementeritie   | ^        | ^      |        | ^ | ^        | 1              |
| Dispressional menorement of uning the sting of the sting   |          | V      |        | X | X        | 1              |
| Diagnosis and management of urinary tract infection  | X        | X      |        | X | X        | 1              |
| Assessment and management of obstruction and sepsis  |          | X      |        |   | X        | 1              |
| Appropriate relief as indicated  |          | X      |        |   | X        | 1              |
| Appropriate action to relieve renal function   |          | X      |        |   | X        | 1              |
| Urinary retention in men and women   |          |        |        |   |          |                |
| Assessment, investigation and formulation of a management plan for acute and chronic urinary retention                 | X        | Х      |        |   | Х        | 1              |
| Assessment of fluid balance and renal function   | Х        | Х      |        |   | Х        | 1              |
| Medical management of urinary retention  | Х        | Х      |        |   | Х        | 1              |
| Management of post obstructive diuresis  | Х        | Х      |        | Х | Х        | 1              |
| Haematuria   |          |        |        |   |          |                |
| Assessment, investigation and management of patient with haematuria  | Х        | Х      |        | Х | Х        | 1              |
| Testicular pain  |          |        |        |   |          |                |
| Assessment, investigation and management of acute scrotal pain   | Х        | Х      |        |   | Х        | 1              |
| Assessment, investigation and management of epididymo-orchitis   | Х        | Х      |        |   | Х        | 1              |
| Assessment, investigation and management of scrotal abscess  | Х        | Х      |        |   | Х        | 1              |
| Other emergencies  |          |        |        |   |          |                |
| Assessment, investigation and management of Fournier's gangrene including liaison with other teams as appropriate e.g. | v        | v      |        |   |          | 4              |
| plastic and colorectal surgeons  |          | Χ      |        |   | Χ        |                |
| Appropriate management of Fournier's gangrene  |          | Х      |        |   | Х        | 1              |
| Assessment, investigation and management of Phimosis   | Х        | Х      |        |   | Х        | 1              |
| Assessment, investigation and management of Paraphimosis   | х        | Х      |        |   | Х        | 1              |
| Assessment, investigation and management of Priapism including onward referral where necessarv                         | х        | Х      |        |   | Х        | 1              |
| Assessment, investigation and management of Penile fracture including onward referral                                  | х        | х      |        |   | Х        | 1.2.3          |
| TECHNICAL SKILLS AND PROCEDURES  |          |        |        |   |          | , ,-           |
| Rigid ureteroscopy and therapeutic management lower 1/3 ureteric calculi   |          |        | Х      |   |          | 1              |
| Rigid ureteroscopy and therapeutic management middle and upper 1/3 ureteric calculi                                    |          |        | X      |   |          | 1              |
| Cystoscopy and insertion II stent  |          |        | X      |   |          | 1              |
| Percutaneous suprapubic catheterisations   |          |        | x      |   | <u> </u> | 1              |
| TIIRP  |          |        | x      |   |          | 1 <sup>1</sup> |
| Bladder neck incision  |          |        | v      |   |          | 1              |
|  |          |        | ^<br>V |   | <u> </u> | 1              |
| Cystoscopy and biadder washout   |          |        | X      |   | <u> </u> |                |
| IUNDI<br>Surgical evaluation for torsions of tostic with fination  |          |        | X      |   | <u> </u> |                |
| Surgical exploration for torsions of testis, with fixation   |          |        | X      |   |          |                |
| Surgical management of scrotal abscess   | <b> </b> |        | Х      |   |          | 1              |
| Surgical management of Fournier's gangrene   |          |        | Х      |   |          | 1              |
| Reduction of paraphimosis  |          |        | Х      |   |          | 1              |
| Dorsal slit circumcision   | <u> </u> |        | Х      |   |          | 1              |
| Operative management of priapism   |          |        | Х      |   |          | 1              |
| Operative management of penile fracture  |          |        | х      |   | _        | 1              |

| Trauma to the Urinary Tract  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To assess and manage patients who present with genitourinary trauma, including onward referral when necessary        |     |     |      |     |     |               |               |     |
| To assess and manage patients who present acutely with urological problems, including onward referral when necessary |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Differences In children  |     | Х   |      |     |     |               | Х             | 1   |
| Causes, pathophysiology classification and management of renal trauma  |     | Х   |      |     |     | Х             | Х             | 1   |
| Causes, pathophysiology classification and management of ureteric trauma   |     | Х   |      |     |     | Х             | Х             | 1   |
| Causes, pathophysiology classification and management of bladder trauma  |     | Х   |      |     |     | Х             | Х             | 1   |
| Causes, pathophysiology classification and management of urethral trauma   |     | Х   |      |     |     | Х             | Х             | 1   |
| Causes, pathophysiology classification and management of genital trauma  |     | Х   |      |     |     | Х             | Х             | 1   |
| Causes, pathophysiology classification and management of testicular trauma   |     | Х   |      |     |     | X             | X             | 1   |

| CLINICAL SKILLS   |     |        |          |     |     |               |               |       |
|---|-----|--------|----------|-----|-----|---------------|---------------|-------|
| Resuscitation, ATLS   | Х   |        | 1        |     | 1   |               | х             | 1     |
| Appropriate liaison with other relevant specialists in multiple trauma cases  |     | Х      | 1        |     |     |               | Х             | 1,2,3 |
| Assessment and management of renal trauma   | Х   | Х      |          |     |     |               | Х             | 1     |
| Assessment and management of renal trauma including onward referral where appropriate   | Х   | Х      |          |     |     |               | Х             | 1     |
| Assessment and management of ureteric trauma including appropriate onward referral  | Х   | Х      |          |     |     |               | Х             | 1     |
| Assessment and management of bladder trauma including appropriate onward referral   |     | Х      |          |     |     |               | Х             | 1     |
| Assessment and management of urethral trauma including appropriate onward referral  | Х   | Х      |          |     |     |               | Х             | 1     |
| Assessment and management of testicular trauma  | Х   | Х      |          |     |     |               | Х             | 1     |
| Assessment and management of genital trauma including appropriate onward referral   | Х   | Х      |          |     |     |               | Х             | 1,2,3 |
| TECHNICAL SKILLS AND PROCEDURES   |     |        |          |     |     |               |               |       |
| Cystoscopy and insertion JJ stent   |     |        |          | Х   |     |               |               | 1     |
| Percutaneous suprapubic catheterisation   |     |        |          | Х   |     |               |               | 1     |
| Testicular repair   |     |        |          | Х   |     |               |               | 1     |
| Orchidectomy  |     |        |          | Х   |     |               |               | 1     |
| Circumcision  |     |        |          | Х   |     |               |               | 1     |
|   |     |        | -        |     | -   |               |               |       |
| Urological Radiology  | CEX | CBD    | DOPS     | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
| OBJECTIVE   |     |        |          |     |     |               |               |       |
| To understand the different radiological techniques used in the investigation of urological disease, including practical          |     |        |          |     |     |               |               |       |
| techniques, indications and safety issues   |     |        |          |     |     |               |               |       |
| To gain hands on experience in diagnostic and interventional radiology  |     |        |          |     |     |               |               |       |
| To develop technical skills in standard radiological techniques relevant to urology   |     |        |          |     |     |               |               |       |
| KNOWLEDGE   |     |        |          |     |     |               |               |       |
| Principles of ionising radiation  |     | Х      |          |     |     | X             | Х             | 1     |
| Patient and physician protection  |     | Х      |          |     |     | Х             | Х             | 1     |
| Investigation related radiation dose  |     | Х      |          |     |     | X             | Х             | 1     |
| Appreciation of aberrant anatomy  |     | Х      |          |     |     | X             | Х             | 1     |
| Appropriate use of radiological investigations  |     | Х      |          |     |     | X             | X             | 1     |
| Principles of isotope and isotope imaging   |     | Х      |          |     |     | Х             | Х             | 1     |
| Application of isotopes to functional assessment  |     | Х      |          |     |     | Х             | Х             | 1     |
| Techniques of interventional radiology  |     | Х      |          |     |     | Х             | Х             | 1     |
| Indications, limitations and complications of interventional radiology  |     | Х      |          |     |     | Х             | Х             | 1     |
| IVP: Basic theory, practical techniques (including contrast agents), indications, interpretation and limitations, safety issues   |     | х      |          |     |     | х             | х             | 1     |
| and contraindications   |     |        |          |     |     |               |               |       |
| Ultrasound (including Doppler): Basic theory principles, practical techniques (including contrast agents), indications,           |     | х      |          |     |     | х             | х             | 1     |
| interpretation and limitations, safety issues and contraindications   |     |        |          |     |     |               |               |       |
| CT scanning: Basic theory principles, practical techniques (including contrast agents), indications, interpretation and           |     | х      |          |     |     | х             | х             | 1     |
| limitations, safety issues and contraindications  |     |        |          |     |     |               |               |       |
| MR scanning: Basic theory, practical techniques (including contrast agents), indications, interpretation and limitations, safety  |     | х      |          |     |     | х             | х             | 1     |
| issues and contraindications  |     |        |          |     |     |               |               |       |
| PET scanning: Basic theory, practical techniques (including contrast agents), indications, interpretation and limitations, safety |     | х      |          |     |     | х             | х             | 1     |
| issues and contraindications  |     |        |          |     |     |               |               |       |
| Renography: Basic theory, practical techniques (including contrast agents), indications, interpretation and limitations, safety   |     | х      |          |     |     | х             | х             | 1     |
|   |     |        |          |     |     |               |               |       |
| CLINICAL SKIELS   |     | v      |          |     |     | v             | v             | 1     |
| Indications for use of ionising radiation in urological investigation   | V   | X      |          |     |     | X             | X             | 1     |
| Application in clinical situation   | ^   |        |          |     |     | ×             | ×             | 1     |
| Persuscitation skills following complications   | v   | ^<br>V |          |     |     | ^             | ×             | 1     |
| Selection of appropriate isotonic investigations  | ~   | X      |          |     |     | x             | x             | 1     |
| Interpretation of renograms   |     | X      |          |     |     | X             | ×             | 1     |
| IVP: Theraneutic application interpretation and limitations   |     | X      |          |     |     | x             | x             | 1     |
| Ultrasound (including Doppler): Therapeutic application interpretation and limitations  |     | X      |          |     |     | X             | X             | 1     |
| CT scanning: Theraneutic application, interpretation and limitations  |     | X      |          |     |     | X             | X             | 1     |
| MR scanning: Therapeutic application, interpretation and limitations  |     | X      |          |     |     | X             | X             | 1     |
| PET scanning: Therapeutic application, interpretation and limitations   |     | X      |          |     |     | X             | X             | 1     |
| Renography: Therapeutic application, interpretation and limitations   | Х   | Х      |          |     |     | Х             | х             | 1     |
| TECHNICAL SKILLS AND PROCEDURES   |     |        |          |     |     |               |               |       |
| CTUrogram   |     | Х      |          |     |     |               | х             | 1     |
| Cystogram   |     | Х      |          |     |     |               | х             | 1     |
| Urethrogram   |     | х      |          |     |     |               | х             | 1     |
| Retrograde Pyelogram  |     | Х      | İ —      | Х   |     |               | х             | 1     |
| Renal ultrasound  |     | х      |          |     |     |               | х             | 1     |
| Bladder ultrasound  |     | х      | İ        |     |     |               | х             | 1     |
| Scrotal ultrasound  |     | х      | <u> </u> |     |     |               | х             | 1     |
| Transrectal ultrasound (TRUS) including biopsy  |     | х      | 1        |     | 1   |               | х             | 1     |
| Ultrasound guided percutaneous puncture of kidney   |     | х      | 1        |     | 1   |               | х             | 1     |
| Ultrasound guided percutaneous puncture of bladder  |     | Х      |          |     |     |               | Х             | 1     |
| Abdominal ultrasound  |     | Х      |          |     |     |               | X             | 1     |
| Testicular ultrasound   |     | Х      |          |     |     |               | Х             | 1     |

| Modular Curriculum for urinary tract stone disease: Basic Science  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the management of patients with urinary tract stone disease                              |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Anatomy  |     |     |      |     |     |               |               |     |
| To understand the detailed anatomy that will be encountered during the management of patients with urinary tract stone |     | v   |      |     |     | v             | v             | 1   |
| disease  |     | ^   |      |     |     | ^             | ~             | 1   |
| Embryology, macro and micro anatomy with specific reference to vascular anatomy and neurological anatomy, and its      |     | v   |      |     |     | v             | v             | 1   |
| anomalies  |     | ^   |      |     |     | ^             | ^             | 1   |
| Physiology   |     |     |      |     |     |               |               |     |
| Mechanism of urine production  |     | Х   |      |     |     | Х             | Х             | 1   |
| Mechanism of peristalsis initiation  |     | Х   |      |     |     | Х             | Х             | 1   |
| Mechanisms of neuromuscular transmission   |     | Х   |      |     |     | Х             | Х             | 1   |
| Anti-reflux mechanisms   |     | Х   |      |     |     | Х             | Х             | 1   |
| Principles of isotope and isotope imaging  |     | Х   |      |     |     | х             | х             | 1   |

| Pharmacology  |   |   |  |   |   |   | 1 |
|---|---|---|--|---|---|---|---|
| Pharmacology of commonly used drugs in the medical management of ureteric colic                             |   | Х |  |   | Х | Х | 1 |
| Pharmacology of commonly used drugs in metabolic stone disease  |   | Х |  |   | х | Х | 1 |
| Pharmacology of pain prevention and relief  |   | Х |  |   | х | Х | 1 |
| Use of local anaesthetic and regional techniques  |   | Х |  |   | Х | Х | 1 |
| Pharmacology of commonly used drugs for sepsis of the urinary tract   |   | Х |  |   | Х | Х | 1 |
| Indications, contraindications and side effects   |   | Х |  |   | Х | Х | 1 |
| Pathology   |   |   |  |   |   |   |   |
| Pathophysiology or upper urinary tract obstruction  |   | Х |  |   | Х | Х | 1 |
| Pathophysiology of urolithiasis   |   | Х |  |   | Х | Х | 1 |
| Microbiology of sepsis of the urinary tract   |   | Х |  |   | Х | Х | 1 |
| CLINICAL SKILLS   |   |   |  |   |   |   |   |
| Selection of appropriate isotopic investigations  |   | Х |  |   | Х | Х | 1 |
| Interpretation of renograms   |   | Х |  |   | х | Х | 1 |
| Assessment of the normovolaemic patient   | Х | Х |  |   | Х | Х | 1 |
| Assessment of the anuric patient  | Х | Х |  |   | Х | Х | 1 |
| Assessment and management of the patient in renal failure   | Х | Х |  |   | х | Х | 1 |
| Appropriate use of commonly used drugs recognising common side effects, interactions and contra-indications |   | Х |  |   | Х | Х | 1 |
| Appropriate use of imaging and other investigations   |   | Х |  |   | Х | Х | 1 |
| Appropriate management choices and operative skills   |   | Х |  |   |   | Х | 1 |
| Prevention, diagnosis and management of urinary sepsis  |   | Х |  |   | Х | Х | 1 |
| Appropriate investigation and management of urinary tract infection   |   | Х |  |   | х | Х | 1 |
| Recognition of risks and early diagnosis of sepsis  |   | Х |  |   |   | Х | 1 |
| TECHNICAL SKILLS AND PROCEDURES   |   |   |  |   |   |   |   |
| Access to the kidney and the retroperitoneum including percutaneous access                                  |   |   |  | Х |   |   | 1 |
| Instrumentation of the ureter   |   |   |  | Х |   |   | 1 |

| Modular Curriculum for urinary tract stone disease: Renal calculi  | CEX      | CBD   | DOPS | PBA      | MSF | ISB Section 1  | ISB Section 2   | GMP   |
|--|----------|---|------|----------|-----|--|---|---|
| OBJECTIVE  |          |   |      |          |     |  |   |   |
| To develop advanced skills in the management of patients with urinary tract stone disease  |          |   |      |          |     |  |   |   |
| KNOWLEDGE  |          |   |      |          |     |  |   |   |
| Assessment and investigation patients with renal calculi   | Х        | Х   |      |          |     |  | х   | 1   |
| Indications for different treatment modalities   |          | Х   |      |          |     | х  | х   | 1   |
| Mechanisms of extracorporeal lithotripsy   |          | Х   |      |          |     | х  | х   | 1   |
| Mechanisms of intracorporal lithotripsy  |          | Х   |      |          |     | х  | х   | 1   |
| Complications of treatment including lithotripsy   |          | Х   |      |          |     | х  | х   | 1   |
| Results of stone treatment in different locations  |          | X   |      |          |     | x  | x   | 1   |
| Outcomes of treatment  |          | X   |      |          |     | x  | x   | 1   |
| Understanding of normal post-operative progress  |          | X   |      |          |     | ~  | x   | 1   |
| Post treatment care  |          | X   |      |          |     |  | x   | 1   |
| Imaging and access techniques for percutaneous access including supra-costal access  |          | X   |      |          |     | x  | x   | 1   |
| Operative management of renal calculi including choice of approach according to size, position etc.  |          | ×   |      |          |     | ~  | X   | 1   |
|  |          | Λ   |      |          |     |  | Χ   | 1   |
| Association of national vith renal calculi   | v        | v   |      |          |     |  | v   | 1   |
| Assessment and investigation of patients with renar calcul   | ^        | ^<br>   |      |          |     |  | × ×   | 1   |
| Able to take informed concent and eviden precedures and euteemes to nationts   |          | ×   |      | V        |     |  | X   | 1   |
| Able to take informed consent and explain procedures and outcomes to patients  |          | X   |      | X        |     |  | X   | 1   |
| Team working with theatre staff  |          |   |      |          | X   |  | X   | 1,2,3   |
| Post-op assessment and communication   |          | X   |      | Х        |     |  | X   | 1   |
| Prioritisation of further investigation  |          | X   |      |          |     |  | X   | 1   |
| Post-operative assessment  |          | Х   |      |          |     |  | X   | 1   |
| Able to vary access dependent on stone location  |          | Х   |      |          |     |  | Х   | 1   |
| Appropriate intervention to deal with changing parameters  |          | Х   |      |          |     |  | Х   | 1   |
| Appropriate use of intracorporal fragmentation devices including laser, EHL, lithoclast  |          | Х   |      |          |     | Х  | Х   | 1   |
| Advanced skills enabling safe treatment of complex renal calculi   |          | Х   |      |          |     |  | Х   | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |          |   |      |          |     |  |   |   |
| ESWL   |          |   |      | Х        |     |  |   | 1   |
| Percutaneous nephrolithotomy including intracorporal lithotripsy   |          |   |      | Х        |     |  |   | 1   |
| Flexible ureteroscopy including intracorporal lithotripsy  |          |   |      | Х        |     |  |   | 1   |
|  |          |   |      |          |     |  |   |   |
| Rigid ureteroscopy including intracorporal lithotripsy   |          |   |      | Х        |     |  |   | 1   |
| Rigid ureteroscopy including intracorporal lithotripsy   |          |   |      | Х        |     | -  |   | 1   |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi   | CEX      | CBD   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP  |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE   | CEX      | CBD   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP  |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease   | CEX      | CBD   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP  |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE   | CEX      | CBD   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP  |
| Rigid ureteroscopy including intracorporal lithotripsy         Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi  | CEX      | CBD   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1   |
| Rigid ureteroscopy including intracorporal lithotripsy         Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities   | CEX<br>X | CBD<br>X<br>X   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1   |
| Rigid ureteroscopy including intracorporal lithotripsy         Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy  | CEX      | CBD<br>X<br>X<br>X<br>X   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1  |
| Rigid ureteroscopy including intracorporal lithotripsy         Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy  | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1   |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy  | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1   |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations  | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment  | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress   | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                               |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents  | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X PBA    | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care   | X        | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X PBA    | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments   | CEX      | CBD           X   | DOPS | X PBA    | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments         Operative management of ureteric calculi including choice of approach depending upon stone position, size etc   | CEX<br>X | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X PBA    | MSF | ISB Section 1           X  | ISB Section 2           X   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Rigid ureteroscopy including intracorporal lithotripsy         Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments         Operative management of ureteric calculi including choice of approach depending upon stone position, size etc         CLINICAL SKILLS  | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X PBA    | MSF | ISB Section 1  | ISB Section 2           X   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments         Operative management of ureteric calculi including choice of approach depending upon stone position, size etc         CLINICAL SKILLS         MDT management of stones and ability to formulate management plan including issues of complications  | CEX<br>X | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X PBA    | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments         Operative management of ureteric calculi including choice of approach depending upon stone position, size etc         CLINICAL SKILLS         MDT management of stones and ability to formulate management plan including issues of complications         Ability to perform extracorporeal lithotripsy   | CEX<br>X | CBD           X   | DOPS | X PBA    | MSF | ISB Section 1           X  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments         Operative management of ureteric calculi including choice of approach depending upon stone position, size etc         CLINICAL SKILLS         MDT management of stones and ability to formulate management plan including issues of complications         Ability to perform extracorporeal lithotripsy   | CEX      | CBD           X   | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments         Operative management of stones and ability to formulate management plan including issues of complications         Ability to perform extracorporeal lithotripsy  | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment of ureteric calculi including choice of approach depending upon stone position, size etc         CLINICAL SKILLS         MDT management of stones and ability to formulate management plan including issues of complications         Ability to perform extracorporeal lithotripsy         Able to take informed consent and explain procedures and outcomes to patients         Ther one assessment and communication   | CEX<br>X | CBD           X   | DOPS | X<br>PBA | MSF | ISB Section 1           X  | ISB Section 2           X   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi           OBJECTIVE           To develop advanced skills in the management of patients with urinary tract stone disease           KNOWLEDGE           Assessment and investigations of patients with ureteric calculi           Indications for different treatment modalities           Mechanisms of extracorporeal lithotripsy           Mechanisms of intracorporal lithotripsy           Complications of treatment including lithotripsy           Results of stone treatment in different locations           Outcomes of treatment           Understanding of normal post-operative progress           The role of stents           Post treatment of uretric calculi including choice of approach depending upon stone position, size etc           CLINICAL SKILLS           MDT management of stones and ability to formulate management plan including issues of complications           Ability to perform extracorporeal lithotripsy           Able to take informed consent and explain procedures and outcomes to patients           Team working with theatre staff           Post-op assessment and communication   | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X<br>PBA | MSF | ISB Section 1           X           <  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments         Operative management of stones and ability to formulate management plan including issues of complications         Ability to perform extracorporeal lithotripsy         Able to take informed consent and explain procedures and outcomes to patients         Team working with theatre staff         Post-operastive assessment         Post-operastive assessment   | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2           X           < | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                               |
| Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with uretric calculi         Indications for different treatment modalities         Mechanisms of extracorporeal lithotripsy         Mechanisms of intracorporal lithotripsy         Complications of treatment including lithotripsy         Results of stone treatment in different locations         Outcomes of treatment         Understanding of normal post-operative progress         The role of stents         Post treatment care         Aware of range and appropriate use of different instruments         Operative management of stones and ability to formulate management plan including issues of complications         Ability to perform extracorporeal lithotripsy         Able to take informed consent and explain procedures and outcomes to patients         Team working with theatre staff         Post-operative assessment and communication         Prioritisation of further investigation and interventions  | CEX<br>X | CBD           X | DOPS | X<br>PBA | MSF | ISB Section 1         X <t< td=""><td>ISB Section 2           X           &lt;</td><td>1<br/>GMP<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td></t<> | ISB Section 2           X           < | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                               |
| Migid ureteroscopy including intracorporal lithotripsy         Modular Curriculum for urinary tract stone disease: Ureteric calculi         OBJECTIVE         To develop advanced skills in the management of patients with urinary tract stone disease         KNOWLEDGE         Assessment and investigations of patients with ureteric calculi         Indications for different treatment modalities         Mechanisms of extracorporal lithotripsy         Mechanisms of treatment including lithotripsy         Complications of treatment in different locations         Outcomes of treatment in different locations         Outcomes of treatment and post-operative progress         The role of stents         Post treatment of ureteric calculi including choice of approach depending upon stone position, size etc         CLINICAL SKILLS         MDT management of stones and ability to formulate management plan including issues of complications         Ability to perform extracorporeal lithotripsy         Able to take informed consent and explain procedures and outcomes to patients         Team working with theatre staff         Post-op assessment         Post-op assessment         Appropriate use of interventions         Appropriate use of interventions   | CEX      | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                               |
| Rigid ureteroscopy including intracorporal lithotripsy           Modular Curriculum for urinary tract stone disease: Ureteric calculi           OBJECTIVE           To develop advanced skills in the management of patients with urinary tract stone disease           KNOWLEDGE           Assessment and investigations of patients with ureteric calculi           Indications for different treatment modalities           Mechanisms of extracorporeal lithotripsy           Mechanisms of intracorporal lithotripsy           Complications of treatment including lithotripsy           Results of stone treatment in different locations           Outcomes of treatment in different locations           Outcomes of treatment in different instruments           Operative management of ureteric calculi including choice of approach depending upon stone position, size etc           CLINICAL SKILLS           MDT management of stones and ability to formulate management plan including issues of complications           Ability to perform extracorporeal lithotripsy           Able to take informed consent and explain procedures and outcomes to patients           Team working with theatre staff           Post-operative assessment           Appropriateness of investigation and interventions           Appropriateness of investigation and interventions           Appropriateness of investigation and interventinons | CEX<br>X | CBD<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | DOPS | X<br>PBA | MSF | ISB Section 1  | ISB Section 2           X   | 1<br>GMP<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                               |

| Rigid ureteroscopy including intracorporal lithotripsy    |  |   |
|---|--|---|
|   |  | 1 |
| Exible ureteroscopy including intracorporal lithotripsy X |  | 1 |

| Modular Curriculum for urinary tract stone disease: Bladder calculi                       | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               | 1   |
| To develop advanced skills in the management of patients with urinary tract stone disease |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Assessment and investigations of patients with bladder calculi                            | Х   | Х   |      |     |     |               | Х             | 1   |
| Indications for different treatment modalities  |     | Х   |      |     |     |               | Х             | 1   |
| Mechanisms of intracorporal lithotripsy   |     | Х   |      |     |     | Х             | Х             | 1   |
| Complications of treatment  |     | Х   |      |     |     |               | х             | 1   |
| Results of treatment  |     | Х   |      |     |     |               | Х             | 1   |
| Outcomes of treatment   |     | Х   |      |     |     |               | Х             | 1   |
| Understanding of normal post-operative progress   |     | Х   |      |     |     |               | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Use of endourological techniques to deal with complex bladder calculi                     |     | Х   |      |     |     |               | х             | 1   |
| Lower urinary tract endoscopic techniques e.g. cystolitholapaxy                           |     | Х   |      |     |     |               | х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Endoscopic litholopaxy  |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Benign Disease of the Upper Urinary Tract: Basic Science  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               | 1   |
| To develop advanced skills in the management of upper urinary tract obstruction, the surgery of renal failure and other       |     |     |      |     |     |               |               |     |
| benign conditions of the upper urinary tract  |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| To understand the detailed anatomy that will be encountered during the management of patients undergoing laparoscopy          |     | v   |      |     |     | v             | v             | 1   |
| for renal disease   |     | ^   |      |     |     | ^             | ^             | 1   |
| Embryology, macro and micro anatomy with specific reference to vascular anatomy and neurological anatomy, and its             |     | v   |      |     |     | v             | v             | 1   |
| anomalies   |     | ^   |      |     |     | ^             | ~             | 1   |
| Mechanism of urine production   |     | Х   |      |     |     | Х             | Х             | 1   |
| Mechanism of peristalsis initiation   |     | Х   |      |     |     | Х             | Х             | 1   |
| Mechanisms of neuro-muscular transmission   |     | Х   |      |     |     | Х             | Х             | 1   |
| Principles of isotopes and isotope imaging  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of pain prevention and relief  |     | Х   |      |     |     | Х             | Х             | 1   |
| Use of local anaesthetic and regional techniques  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of commonly used drugs for sepsis of the urinary tract including indications, contraindications and side effects |     | Х   |      |     |     | Х             | Х             | 1   |
| Aetiology, investigation and treatment of acute and chronic urinary tract obstruction including PUJ stenosis and ureteric     |     | ~   |      |     |     | v             | v             | 1   |
| strictures  |     | ^   |      |     |     | ^             | ~             | 1   |
| Pathophysiology or upper urinary tract obstruction  |     | Х   |      |     |     | Х             | Х             | 1   |
| Microbiology of sepsis of the urinary tract   |     | Х   |      |     |     | Х             | Х             | 1   |
| Acute and chronic inflammatory response   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Selection of appropriate isotopic investigations  |     | Х   |      |     |     | Х             | Х             | 1   |
| Assessment and management of the patient in renal failure   |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate use of commonly used drugs recognising common side effects, interactions and contra-indications                   |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate use of imaging and other investigations   |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate management choices and operative skills   |     | Х   |      |     |     |               | Х             | 1   |
| Prevention, diagnosis and management of urinary sepsis  |     | Х   |      |     |     |               | Х             | 1   |
| Appropriate investigation and management of urinary tract infection   |     | Х   |      |     |     | Х             | Х             | 1   |
| Recognition of risks and early diagnosis of sepsis  |     | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Access to the kidney and the retroperitoneum including percutaneous access  |     |     |      | Х   |     |               |               |     |
| Instrumentation of the ureter   |     |     |      | Х   |     |               |               |     |

| Modular curriculum in Benign Disease of the Upper Urinary Tract: Upper tract obstruction                                | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               | 1   |
| To develop advanced skills in the management of upper urinary tract obstruction, the surgery of renal failure and other |     |     |      |     |     |               |               |     |
| benign conditions of the upper urinary tract  |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Causes and pathophysiology of upper urinary tract obstruction   |     | Х   |      |     |     | Х             | Х             | 1   |
| Clinical features of upper urinary tract obstruction  |     | Х   |      |     |     | Х             | х             | 1   |
| Endoscopic management of upper urinary tract obstruction  |     | Х   |      |     |     | Х             | х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate assessment including investigation and formulation of management plan                                       | Х   | Х   |      |     |     |               | Х             | 1   |
| Formulate a differential diagnosis  |     | Х   |      |     |     |               | Х             | 1   |
| Management of associated urosepsis  |     | Х   |      |     |     | Х             | х             | 1   |
| Management of post obstructive diuresis   |     | Х   |      |     |     | Х             | Х             | 1   |
| Ability to choose appropriate surgical approach for the treatment of upper urinary tract obstruction                    |     | Х   |      |     |     |               | х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Cystoscopy and insertion JJ stent   |     |     |      | 1   |     |               |               | 1   |
| Rigid diagnostic ureteroscopy   |     |     |      | 1   |     |               |               | 1   |
| Flexible diagnostic ureteroscopy  |     |     |      | 1   |     |               |               | 1   |

| Modular curriculum in Benign Disease of the Upper Urinary Tract: Pelviureteric Junction Obstruction                     | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               | 1   |
| To develop advanced skills in the management of upper urinary tract obstruction, the surgery of renal failure and other |     |     |      |     |     |               |               |     |
| benign conditions of the upper urinary tract  |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Aetiology, pathophysiology and Clinical features  |     | Х   |      |     |     | Х             | Х             | 1   |
| Investigation   |     | Х   |      |     |     | Х             | Х             | 1   |
| Formulation of appropriate management of patient with PUJ obstruction   |     | Х   |      |     |     |               | Х             | 1   |

| Indications, operative steps and complications of the different approaches to the treatment of PUJ obstruction, including: | х |   |   | х | 1 |
|--|---|---|---|---|---|
| Percutaneous approaches  | Х |   | Х | Х | 1 |
| Ureteroscopic approaches   | Х |   | Х | Х | 1 |
| Laparoscopic approaches  | Х |   | Х | Х | 1 |
| Open surgical approaches   | Х |   | Х | Х | 1 |
| Practical expertise in the surgical management of PUJ obstruction  | Х |   |   | Х | 1 |
| CLINICAL SKILLS  |   |   |   |   |   |
| Appropriate management of patient with PUJ obstruction   | Х |   |   | Х | 1 |
| Interpretation of clinical findings and results of investigations  | Х |   |   | Х | 1 |
| Ability to organise appropriate management plan  | Х |   |   | Х | 1 |
| Ability to explain procedures and outcomes to patients and relatives and obtain informed consent                           | Х | Х |   | Х | 1 |
| Knowledge and appropriate use of treatment options   | Х |   |   | Х | 1 |
| Ability to choose appropriate surgical approach for the treatment of PUJ obstruction                                       | Х |   |   | Х | 1 |
| TECHNICAL SKILLS AND PROCEDURES  |   |   |   |   |   |
| Ureteroscopic treatment of PUJ obstruction   |   | Х |   |   | 1 |
| Percutaneous treatment of PUJ obstruction  |   | Х |   |   | 1 |
| Laparoscopic pyeloplasty   |   | Х |   |   | 1 |
| Laparoscopic nephrectomy   |   | Х |   |   | 1 |
| Open pyeloplasty   |   | Х |   |   | 1 |

| Modular curriculum in Benign Disease of the Upper Urinary Tract: Ureteric strictures  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|---|-----|-----|------|-----|-----|---------------|---------------|-------|
| OBJECTIVE   |     |     |      |     |     |               |               | 1     |
| To develop advanced skills in the management of upper urinary tract obstruction, the surgery of renal failure and other       |     |     |      |     |     |               |               |       |
| benign conditions of the upper urinary tract  |     |     |      |     |     |               |               |       |
| KNOWLEDGE   |     |     |      |     |     |               |               |       |
| Aetiology, pathophysiology and Clinical features  |     | Х   |      |     |     | Х             | Х             | 1     |
| Investigation   |     | Х   |      |     |     | Х             | Х             | 1     |
| Formulation of appropriate management of patient with ureteric stricture  |     | Х   |      |     |     |               | Х             | 1     |
| Indications, operative steps and complications of the different approaches to the treatment of ureteric strictures including: |     | Х   |      |     |     |               | Х             | 1     |
| Ureteroscopic approaches  |     | Х   |      |     |     |               | Х             | 1     |
| Laparoscopic approaches   |     | Х   |      |     |     |               | Х             | 1     |
| Practical expertise in the surgical management of ureteric strictures   |     | Х   |      |     |     |               | Х             | 1     |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |       |
| Appropriate management of patient with ureteric stricture   |     | Х   |      |     |     |               | Х             | 1     |
| Interpretation of clinical findings and results of investigations   |     | Х   |      |     |     |               | Х             | 1     |
| Ability to organise appropriate management plan   |     | Х   |      |     |     |               | Х             | 1     |
| Ability to explain procedures and outcomes to patients and obtain informed consent  |     | Х   |      | Х   |     |               | Х             | 1     |
| Knowledge of treatment options  |     | Х   |      |     |     | Х             | Х             | 1     |
| Team working with other specialties e.g. radiologists, reconstructive surgeon   |     | Х   |      |     |     |               | Х             | 1,2,3 |
| Ability to choose appropriate surgical approach for the treatment of ureteric strictures                                      |     | Х   |      |     |     |               | Х             | 1     |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |       |
| Cystoscopy and insertion JJ stent   |     |     |      | Х   |     |               |               | 1     |
| Ureteroscopic treatment   |     |     |      | Х   |     |               |               | 1     |
| Extra-anatomical stent insertion  |     |     |      | Х   |     |               |               | 1     |
| Open surgical procedures for correction of ureteric stricture   |     |     |      | Х   |     |               |               | 1     |

| Modular curriculum in Benign Disease of the Upper Urinary Tract: Renal Failure  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|---|-----|-----|------|-----|-----|---------------|---------------|-------|
| OBJECTIVE   |     |     |      |     |     |               |               | 1     |
| To develop advanced skills in the management of upper urinary tract obstruction, the surgery of renal failure and other |     |     |      |     |     |               |               |       |
| benign conditions of the upper urinary tract  |     |     |      |     |     |               |               |       |
| KNOWLEDGE   |     |     |      |     |     |               |               |       |
| Knowledge of available management pathways and role of nephrologists  |     | Х   |      |     |     | Х             | Х             | 1     |
| Principles of dialysis  |     | Х   |      |     |     | Х             | Х             | 1     |
| Indications for transplantation   |     | Х   |      |     |     | Х             | Х             | 1     |
| Indications, operative steps and complications of surgery in the treatment of end stage renal failure                   |     | Х   |      |     |     |               | Х             | 1     |
| Practical expertise in the surgery in the treatment of end stage renal failure  |     | Х   |      |     |     |               | Х             | 1     |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |       |
| Appropriate assessment and investigation of renal failure patients  | Х   | Х   |      |     |     |               | Х             | 1     |
| Practical management of fluid/electrolyte/acid base balance   |     | Х   |      |     |     |               | Х             | 1     |
| Temporary dialysis techniques   |     | Х   |      |     |     | Х             | Х             | 1     |
| Team working with other specialties e.g. radiologists, renal physicians, transplant surgeons                            |     | Х   |      |     |     |               | Х             | 1,2,3 |
| Ability to choose appropriate surgical approach for the treatment of end stage renal failure                            |     | Х   |      |     |     |               | Х             | 1     |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |       |
| Laparoscopic nephrectomy  |     |     |      | Х   |     |               |               | 1     |
| Open (simple) nephrectomy   |     |     |      | Х   |     |               |               | 1     |
| Open donor nephrectomy  |     |     |      | Х   |     |               |               | 1     |
| Laparoscopic donor nephrectomy  |     |     |      | Х   |     |               |               | 1     |

| Modular curriculum in Prostate Cancer: Basic Science                                   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of men with prostate cancer |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Anatomy  |     |     |      |     |     |               |               |     |
| Embryology and anatomy of the prostate and bladder and male genital sphincters         |     | Х   |      |     |     | Х             | Х             | 1   |
| Lymphatic drainage of the pelvic organs  |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology   |     |     |      |     |     |               |               |     |
| Physiology of the prostate   |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology of micturition  |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology of erection   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology   |     |     |      |     |     |               |               |     |
| Pharmacology of pain prevention and relief   |     | Х   |      |     |     | Х             | Х             | 1   |
| Use of local anaesthetic and regional techniques                                       |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of endocrine drugs used in the treatment of prostate cancer               |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of cytotoxic drugs used in the treatment of prostate cancer               |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of other agents used in the treatment of men with prostate cancer         |     | Х   |      |     |     | X             | X             | 1   |

| Pathology  |   |  |   |   |   |
|--|---|--|---|---|---|
| Relevance of congenital anomalies to subsequent malignant pre-disposition  | Х |  | Х | Х | 1 |
| Role of genetics in prostate cancer  | Х |  | Х | Х | 1 |
| Role of oncogenes and growth factors in the pathogenesis of prostate cancer  | Х |  | Х | Х | 1 |
| Role of environmental factors in malignancies  | Х |  | Х | Х | 1 |
| Current theories of tumour initiation and growth   | Х |  | Х | Х | 1 |
| Thorough understanding of current and previous systems for the staging and grading of prostate cancer                      | Х |  | Х | Х | 1 |
| Understanding of the theoretical basis and techniques of radiotherapy for prostate cancer                                  | Х |  | Х | Х | 1 |
| Understanding of the theoretical basis and techniques of radiological and nuclear medicine imaging                         | Х |  | Х | Х | 1 |
| CLINICAL SKILLS  |   |  |   |   |   |
| Appropriate use of pharmacological agents in men with prostate cancer either for peri-operative, therapeutic or palliative | v |  |   | v | 1 |
| reasons  | ^ |  |   | ^ | 1 |
| Application of the indications, contraindications and side effects   | Х |  |   | Х | 1 |
| Appropriate use of stage, grade and molecular markers in the management of an individual with prostate cancer              | Х |  |   | Х | 1 |
| Appropriate use or radiotherapy in the treatment of men with prostate cancer   | Х |  |   | Х | 1 |
| Appropriate imaging of men with prostate cancer  | Х |  |   | Х | 1 |
| TECHNICAL SKILLS AND PROCEDURES  |   |  |   |   |   |
| N/A  |   |  |   |   |   |

| Modular curriculum in Prostate Cancer: Locally confined prostate cancer (T1a-T2c)                                   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
|---|-----|-----|------|-----|-----|---------------|---------------|---------|
| OBJECTIVE   |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of men with prostate cancer                              |     |     |      |     |     |               |               |         |
| KNOWLEDGE   |     |     |      |     |     |               |               |         |
| Rationale for, indications, complications of different therapies for locally confined prostate cancer including:    |     | Х   |      |     |     | X             | X             | 1       |
| Radical surgery   |     | Х   |      |     |     | X             | X             | 1       |
| Radical radiotherapy  |     | Х   |      |     |     | X             | X             | 1       |
| Radical brachytherapy   |     | Х   |      |     |     | X             | X             | 1       |
| Adjuvant and neo-adjuvant hormones  |     | Х   |      |     |     | X             | X             | 1       |
| Active surveillance   |     | Х   |      |     |     | X             | X             | 1       |
| The rationale, role and limitations of new technology (eg cryotherapy and high intensity focussed ultrasound)       |     | Х   |      |     |     | X             | X             | 1       |
| Understanding of the biology of prostate cancer   |     | Х   |      |     |     | X             | X             | 1       |
| Understanding of the relevance of co-morbidity in the choice of therapy   |     | Х   |      |     |     | X             | X             | 1       |
| Entry into the relevant clinical trial  |     | Х   |      |     |     | X             | X             | 1,2,4   |
| Practical treatment of locally confined prostate cancer   |     | Х   |      |     |     | X             | X             | 1       |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |         |
| Assessment of patients with locally confined prostate cancer  | X   | Х   |      |     |     |               | x             | 1       |
| Indications for relevant radiological and pathological investigations.  |     | Х   |      |     |     | X             | X             | 1       |
| Formulation of management policy after discussion at an MDT meeting   |     | Х   |      |     |     |               | X             | 1,3     |
| Obtaining informed consent for the relevant procedure offering patient the options of discussion of other therapies | Х   | Х   |      | Х   |     |               | X             | 1,2,3,4 |
| Co-ordinating the role of non-medical professionals in patient management   |     | Х   |      |     |     |               | X             | 1,2,3,4 |
| Formulation of a relevant follow up plan including location of follow-up  |     | Х   |      |     |     |               | X             | 1,2     |
| Ability to choose appropriate therapeutic approach for the treatment of prostate cancer                             |     | Х   |      |     |     |               | X             | 1       |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |         |
| Radical Prostatectomy (retro-pubic, perineal, laparoscopic procedure or robotic)                                    |     |     |      | Х   |     |               |               | 1       |
| Brachytherapy   |     |     |      | Х   |     |               |               | 1       |

| Modular curriculum in Prostate Cancer: Locally advanced (T3-T4) No Mo   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
|---|-----|-----|------|-----|-----|---------------|---------------|---------|
| OBJECTIVE   |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of men with prostate cancer                              |     |     |      |     |     |               |               |         |
| KNOWLEDGE   |     |     |      |     |     |               |               |         |
| Rationale for, indications, complications of different therapies for locally advanced prostate cancer including:    |     | Х   |      |     |     | Х             | х             | 1       |
| Radical surgery   |     | Х   |      |     |     | Х             | х             | 1       |
| Radiotherapy  |     | Х   |      |     |     | Х             | Х             | 1       |
| Brachytherapy   |     | Х   |      |     |     | Х             | Х             | 1       |
| Hormone treatment   |     | Х   |      |     |     | Х             | Х             | 1       |
| Active surveillance   |     | Х   |      |     |     | Х             | Х             | 1       |
| Understanding of the extent and relevance of co-morbidity in the choice of therapy                                  |     | Х   |      |     |     | Х             | Х             | 1,2     |
| Entry into the relevant clinical trial  |     | Х   |      |     |     | Х             | Х             | 1,3     |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |         |
| Appropriate assessment of patients with locally advanced prostate cancer  | Х   | Х   |      |     |     |               | Х             | 1       |
| Indication of the relevant radiological and pathological investigations   |     | Х   |      |     |     | Х             | Х             | 1       |
| Formulation of a best fit management policy following discussion at an MDT meeting                                  |     | Х   |      |     |     |               | Х             | 1,3     |
| Obtaining informed consent for the relevant procedure offering patient the options of discussion of other therapies | Х   | Х   |      | Х   |     |               | Х             | 1,3,4   |
| Appropriate liaison with other specialties (radiation oncology, medical oncology etc)                               |     | Х   |      |     |     |               | Х             | 1,3,4   |
| Co-ordinating the role of non-medical professionals in the management of treatment                                  |     | Х   |      |     |     |               | Х             | 1,3,4   |
| Formulation of a relevant follow up plan  |     | Х   |      |     |     |               | Х             | 1       |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |         |
| N/A   |     |     |      |     |     |               |               |         |
|   |     |     |      | -   | -   |               |               |         |
| Modular curriculum in Prostate Cancer: Metastatic disease (Any T, and N, M1)  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
| OBJECTIVE   |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of men with prostate cancer                              |     |     |      |     |     |               |               |         |
| KNOWLEDGE   |     |     |      |     |     |               |               |         |
| Rationale for, indications, complications of different therapies for metastatic prostate cancer including:          |     | Х   |      |     |     | Х             | Х             | 1       |
| Hormone therapy   |     | Х   |      |     |     | Х             | х             | 1       |
| Radiotherapy  |     | Х   |      |     |     | Х             | х             | 1       |
| Chemotherapy  |     | Х   |      |     |     | Х             | х             | 1       |
| Novel therapy   |     | Х   |      |     |     | Х             | х             | 1       |
| Entry into the relevant clinical trials   |     | Х   |      |     |     | х             | х             | 1,2,3,4 |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |         |
| Assessment of patients with metastatic prostate cancer  | Х   |     |      |     |     |               | х             | 1       |
| Formulations of best fit treatment plan following an MDT meeting  |     | Х   |      |     |     |               | Х             | 1,2,3,4 |
| Indication of likely response, duration of that response and survival in the individual patient                     |     | Х   |      |     |     |               | Х             | 1       |
| Management of patient with metastatic prostate cancer   |     | Х   |      |     |     | Х             | Х             | 1,2,3,4 |
| Liaison with other specialties (eg radiotherapy, medical oncology)  |     | Х   |      |     |     |               | х             | 1,3,4   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |         |
| N/A   |     |     |      |     |     |               |               |         |

| Modular curriculum in Prostate Cancer: Hormone refractory disease  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
|--|-----|-----|------|-----|-----|---------------|---------------|---------|
| OBJECTIVE  |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of men with prostate cancer                         |     |     |      |     |     |               |               |         |
| KNOWLEDGE  |     |     |      |     |     |               |               |         |
| Rationale for, indications, complications of different therapies for hormone escape prostate cancer including: |     | Х   |      |     |     | Х             | Х             | 1       |
| Hormone therapy  |     | Х   |      |     |     | Х             | Х             | 1       |
| Radiotherapy   |     | Х   |      |     |     | Х             | Х             | 1       |
| Chemotherapy   |     | Х   |      |     |     | Х             | Х             | 1       |
| Novel therapy  |     | Х   |      |     |     | Х             | Х             | 1       |
| Entry into the relevant clinical trials  |     | Х   |      |     |     | Х             | Х             | 1,2,3,4 |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |         |
| Assessment of patients with hormone escape prostate cancer   | Х   |     |      |     |     |               | Х             | 1       |
| Formulations of best fit treatment plan following an MDT meeting   |     | Х   |      |     |     |               | Х             | 1,3     |
| Indication of likely response, duration of that response and survival in the individual patient                |     | Х   |      |     |     |               | Х             | 1       |
| Management of patient with hormone escape prostate cancer  |     | Х   |      |     |     | Х             | Х             | 1       |
| Liaison with other specialties (eg radiotherapy, palliative care)  |     | Х   |      |     |     |               | Х             | 1,3     |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |         |
| N/A  |     |     |      |     |     |               |               |         |

| Modular curriculum in bladder cancer: Basic Science  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of men with bladder cancer                                      |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Anatomy  |     |     |      |     |     |               |               |     |
| Embryology and anatomy of the urinary tract  |     | Х   |      |     |     | Х             | Х             | 1   |
| Lymphatic drainage of the pelvic organs  |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology   |     |     |      |     |     |               |               |     |
| Physiology of micturition and continence   |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology of erection   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology   |     |     |      |     |     |               |               |     |
| Pharmacology of pain prevention and relief   |     | Х   |      |     |     | Х             | Х             | 1   |
| Use of local anaesthetic and regional techniques   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of agents used for intravesical chemotherapy in men with bladder cancer                                       |     | Х   |      |     |     | Х             | Х             | 1   |
| Immunology of agents used for intravesical therapy in bladder cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of cytotoxic drugs used in the treatment of bladder and other urothelial cancers                              |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathology  |     |     |      |     |     |               |               |     |
| Pathology of the differing types of bladder cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| Relevance of congenital anomalies to subsequent malignant pre-disposition  |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of genetics, oncogenes and growth factors in bladder cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of environmental factors in bladder cancer  |     | Х   |      |     |     | Х             | Х             | 1   |
| Current theories of tumour initiation and growth   |     | Х   |      |     |     | Х             | Х             | 1   |
| Thorough understanding of current and previous systems for the staging and grading of bladder cancer                       |     | Х   |      |     |     | Х             | Х             | 1   |
| The immunology of bladder cancer and bladder cancer therapy  |     | Х   |      |     |     | Х             | Х             | 1   |
| Understanding of the theoretical basis and techniques of radiotherapy for bladder cancer                                   |     | Х   |      |     |     | Х             | Х             | 1   |
| Understanding of the theoretical basis and techniques of radiological and nuclear medicine imaging                         |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Appropriate use of pharmacological and biological agents in men with bladder cancer either for peri-operative, therapeutic |     | х   |      |     |     | x             | x             | 1   |
| or palliative reasons  |     | ~   |      |     |     | ~             | ~             |     |
| Application of the indications, contraindications and side effects   |     | Х   |      |     |     |               | Х             | 1   |
| Appropriate use of stage, grade and molecular markers in the management of an individual with bladder cancer               |     | Х   |      |     |     |               | Х             | 1   |
| Appropriate use or radiotherapy in the treatment of men with bladder cancer  |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate imaging of men with bladder cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |

| Modular curriculum in Bladder Cancer: Superficial bladder cancer (pTis and pTa-1 G1-G3)                                 | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
|---|-----|-----|------|-----|-----|---------------|---------------|---------|
| OBJECTIVE   |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of men with bladder cancer                                   |     |     |      |     |     |               |               |         |
| KNOWLEDGE   |     |     |      |     |     |               |               |         |
| Rationale for, indications, results, and complications of different therapies for superficial bladder cancer including: |     | Х   |      |     |     | Х             | Х             | 1       |
| Endoscopic therapy  |     | Х   |      |     |     | Х             | Х             | 1       |
| Intravesical chemotherapy   |     | Х   |      |     |     | Х             | Х             | 1       |
| Intravesical BCG  |     | Х   |      |     |     | Х             | Х             | 1       |
| Radical surgery   |     | Х   |      |     |     | Х             | Х             | 1       |
| The rationale, role and limitations of new technology in the diagnosis and therapy of superficial bladder cancer        |     | Х   |      |     |     | Х             | Х             | 1       |
| Understanding of the biology of bladder cancer  |     | Х   |      |     |     | Х             | Х             | 1       |
| Understanding of the extent and relevance of co-morbidity in the choice of therapy                                      |     | Х   |      |     |     | Х             | Х             | 1       |
| Entry into the relevant clinical trial  |     | Х   |      |     |     |               | Х             | 1       |
| Practical treatment of superficial bladder cancer   |     | Х   |      |     |     | Х             | Х             | 1       |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |         |
| Appropriate assessment of patients with superficial bladder cancer  | Х   |     |      |     |     |               | Х             | 1       |
| Indication of the relevant radiological and pathological investigations.  |     | Х   |      |     |     | Х             | Х             | 1       |
| Formulation of a best fit management policy following discussion at an MDT meeting                                      |     | Х   |      |     |     |               | Х             | 1,3     |
| Obtaining informed consent for the relevant therapy following discussion of alternative therapies                       | Х   | Х   |      | Х   |     |               | Х             | 1,2,3,4 |
| Co-ordinating the role of non-medical professionals in the management of treatment                                      |     | Х   |      |     |     |               | Х             | 1,3,4   |
| Formulation of a relevant follow up plan  |     | Х   |      |     |     |               | х             | 1       |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |         |
| Cystoscopy, biopsy and diathermy  |     |     |      |     |     |               |               |         |
| TURBT   |     |     |      |     |     |               |               |         |

| Modular curriculum in Bladder Cancer: Muscle invasive bladder cancer (pT2-4)          | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of men with bladder cancer |     |     |      |     |     |               |               |     |

| KNOWLEDGE  |     |     |      |     |     |               |               |          |
|--|-----|-----|------|-----|-----|---------------|---------------|----------|
| Rationale for, indications, results and complications of different therapies for muscle invasive bladder cancer including: |     | Х   |      |     |     | х             |               | 1        |
| Endoscopic therapy   |     | Х   |      |     |     | х             |               | 1        |
| Radical surgery  |     | Х   |      |     |     | х             |               | 1        |
| Radical radiotherapy   |     | Х   |      |     |     | х             |               | 1        |
| Palliative radiotherapy  |     | Х   |      |     |     | х             |               | 1        |
| Systemic chemotherapy  |     | Х   |      |     |     | х             |               | 1        |
| Rationale, indications, results and complications of reconstructive surgery following cystectomy                           |     | Х   |      |     |     | х             |               | 1        |
| The rationale, role and limitations of new technology in the diagnosis and therapy of muscle invasive bladder cancer       |     | Х   |      |     |     | х             |               | 1        |
| Understanding of the biology of bladder cancer   |     | Х   |      |     |     | Х             |               | 1        |
| Understanding of the relevance of co-morbidity in the choice of therapy  |     | Х   |      |     |     | х             |               | 1        |
| Entry into the relevant clinical trial   |     | Х   |      |     |     |               | х             | 1,2,3,4  |
| Practical surgery of muscle invasive bladder cancer including indications, techniques, results, consequences and           |     | v   |      |     |     | Y             | Y             |          |
| complications  |     | Х   |      |     |     | X             | X             | T        |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |          |
| Assessment of patients with muscle invasive bladder cancer   | Х   |     |      |     |     |               | Х             | 1        |
| Indications for radiological and pathological investigations   |     | Х   |      |     |     | Х             |               | 1        |
| Formulation of management after discussion at an MDT meeting   |     | Х   |      |     |     |               | Х             | 1,3      |
| Obtaining informed consent following discussion of alternative therapies   | Х   | Х   |      |     |     |               | Х             | 1,3,4    |
| Obtaining informed consent for the relevant urinary diversion following cystectomy   | Х   | Х   |      |     |     |               | Х             | 1,3,4    |
| Liaison with reconstructive surgeon, where appropriate   | Х   | Х   |      |     |     |               | Х             | 1,2,3,4  |
| Co-ordinating the role of non-medical professionals in the management of treatment   | Х   | Х   |      |     |     |               | Х             | 1,2,3,4  |
| Formulation of a relevant follow up plan   |     | Х   |      |     |     |               | Х             | 1        |
| Ability to choose appropriate therapeutic approach for the treatment of bladder cancer                                     |     | Х   |      |     |     | х             | х             | 1        |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |          |
| TURBT  |     |     |      | Х   |     |               |               | 1        |
| Radical cystectomy, cystoprostatectomy, cystourethrectomy etc  |     |     |      | Х   |     |               |               | 1        |
| Urethrectomy   |     |     |      | Х   |     |               |               | 1        |
| Ileal conduit diversion  |     |     |      | Х   |     |               |               | 1        |
| Orthotopic bladder reconstruction  |     |     |      | Х   |     |               |               | 1        |
| Construction of a continent urinary diversion  |     |     |      | Х   |     |               |               | 1        |
|  |     |     |      |     | 1   | •             |               |          |
| Modular curriculum in Prostate Cancer: Metastatic bladder cancer   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP      |
| OBJECTIVE  |     |     |      |     |     |               |               |          |
| To develop advanced skills in the assessment and treatment of men with bladder cancer                                      |     |     |      |     |     |               |               | L        |
| KNOWLEDGE  |     |     |      |     |     |               |               | L        |
| Rationale for, indications, complications of different therapies for metastatic bladder cancer including:                  | _   | Х   |      |     |     |               | Х             | 1        |
| Palliative surgery   | _   | Х   |      |     |     |               | Х             | 1        |
| Radiotherapy   |     | Х   |      |     |     |               | Х             | 1        |
| Chemotherapy   |     | Х   |      |     |     |               | Х             | 1        |
| Novel therapy  |     | Х   |      |     |     |               | Х             | 1        |
| Entry into the relevant clinical trials  |     | Х   |      |     |     |               | X             | 1,2,3,4  |
|  |     |     |      |     |     |               |               |          |
| Assessment of patients with metastatic bladder cancer  | X   |     |      |     |     |               | Х             | 1        |
| Formulations of best fit treatment plan following an MDT meeting   |     | X   |      |     |     |               | X             | 1        |
| Indication of likely response, duration of that response and survival in the individual patient                            |     | X   |      |     |     |               | X             | 1        |
| Ivianagement of patient with metastatic bladder cancer   |     | X   |      |     |     | X             | X             | 1        |
| Liaison with other specialties (eg radiotherapy, medical oncology)   |     | Х   |      |     |     |               | Х             | 1,3      |
|  |     |     |      |     |     |               |               | <u> </u> |
| N/A  |     |     |      |     |     |               |               |          |

| Modular curriculum in Renal Cancer: Basic Science  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of men with renal cancer                                    |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of upper tract urothelial cancer                            |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Anatomy  |     |     |      |     |     |               |               | 1   |
| Embryology and anatomy of the urinary tract  |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology   |     |     |      |     |     |               |               |     |
| Physiology of urine production erection  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology   |     |     |      |     |     |               |               |     |
| Pharmacology of pain prevention and relief   |     | Х   |      |     |     | Х             | Х             | 1   |
| Use of local anaesthetic and regional techniques   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of agents used for systemic therapy in men with renal cancer  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of immunological agents used for therapy in renal cancer  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of biological agents used in the treatment of renal   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathology  |     |     |      |     |     |               |               |     |
| Pathology of the differing types of renal cancer and other benign and malignant tumours affecting the kidney           |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of genetics in renal cancer and upper tract TCC   |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of oncogenes and growth factors in renal cancer and upper tract TCC   |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of environmental factors in renal cancer and upper tract TCC  |     | Х   |      |     |     | Х             | Х             | 1   |
| Current theories of tumour initiation and growth   |     | Х   |      |     |     | Х             | Х             | 1   |
| Thorough understanding of current and previous systems for the staging and grading of renal cancer and upper tract TCC |     | Х   |      |     |     | Х             | Х             | 1   |
| Immune response and its relevance to the therapy of renal cancer and upper tract TCC                                   |     | Х   |      |     |     | Х             | Х             | 1   |
| Understanding of the theoretical basis and techniques of radiological and nuclear medicine imaging                     |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Appropriate use of pharmacological, immunological and biological agents in men with renal cancer                       |     | Х   |      |     |     | Х             | Х             | 1   |
| Application of the indications, contraindications and side effects   |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate use of stage, grade and molecular markers in the management of an individual with renal cancer             |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate imaging of men with bladder cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |

| Modular curriculum in Renal Cancer: Localised Renal cancer                                  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of men with renal cancer         |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of upper tract urothelial cancer |     |     |      |     |     |               |               |     |

| KNOWLEDGE  |   |   |   |   |   |         |
|--|---|---|---|---|---|---------|
| Rationale for, indications, results, and complications of different therapies for localised renal cancer |   | Х |   | Х | Х | 1       |
| Radical surgery  |   | Х |   | Х | Х | 1       |
| Nephron sparing surgery  |   | Х |   | Х | Х | 1       |
| Minimally invasive therapies   |   | Х |   | Х | Х | 1       |
| The rationale, role and limitations of new technology in the diagnosis and therapy of renal cancer       |   | Х |   | Х | Х | 1       |
| Understanding of the biology of renal cancer   |   | Х |   | Х | Х | 1       |
| Understanding of the extent and relevance of co-morbidity in the choice of therapy                       |   | Х |   | Х | Х | 1       |
| Entry into the relevant clinical trial   |   | Х |   |   | Х | 1,2,3,4 |
| Practical treatment of localised renal cancer  |   | Х |   | Х | Х | 1       |
| CLINICAL SKILLS  |   |   |   |   |   |         |
| Appropriate assessment of patients with renal cancer   | Х | Х |   |   | Х | 1       |
| Indication of the relevant radiological and pathological investigations.                                 |   | Х |   | Х |   | 1       |
| Formulation of a best fit management policy following discussion at an MDT meeting                       |   | Х |   |   | Х | 1       |
| Obtaining informed consent for the relevant therapy following discussion of alternative therapies        | Х | Х | Х |   | Х | 1,2,3,4 |
| Co-ordinating the role of non-medical professionals in the management of treatment                       |   | Х |   |   | Х | 1,2,3,4 |
| Formulation of a relevant follow up plan   |   | Х |   |   | Х | 1       |
| Ability to choose appropriate therapeutic approach for the treatment of renal cancer                     |   | Х |   | Х | Х | 1       |
| TECHNICAL SKILLS AND PROCEDURES  |   |   |   |   |   |         |
| Radical nephrectomy  |   |   | Х |   |   |         |
| Partial nephrectomy  |   |   | Х |   |   |         |
| Laparoscopic nephrectomy   |   |   | Х |   |   |         |
| Laparoscopic partial nephrectomy   |   |   | Х |   |   |         |

| Modular curriculum in Renal Cancer: Metastatic renal cancer   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
|---|-----|-----|------|-----|-----|---------------|---------------|---------|
| OBJECTIVE   |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of men with renal cancer                     |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of upper tract urothelial cancer             |     |     |      |     |     |               |               |         |
| KNOWLEDGE   |     |     |      |     |     |               |               |         |
| Rationale for, indications, complications of different therapies for metastatic renal cancer including: |     | Х   |      |     |     | Х             | Х             | 1       |
| Surgery   |     | Х   |      |     |     | Х             | Х             | 1       |
| Biological therapy  |     | Х   |      |     |     | Х             | Х             | 1       |
| Immunotherapy   |     | Х   |      |     |     | Х             | Х             | 1       |
| Hormone therapy   |     | Х   |      |     |     | Х             | Х             | 1       |
| Novel therapy   |     | Х   |      |     |     | Х             | Х             | 1       |
| Entry into the relevant clinical trials   |     | Х   |      |     |     |               | Х             | 1       |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |         |
| Assessment of patients with metastatic renal cancer   | Х   |     |      |     |     |               | Х             | 1       |
| Formulations of best fit treatment plan following an MDT meeting  |     | Х   |      |     |     |               | Х             | 1,3     |
| Indication of likely response, duration of that response and survival in the individual patient         |     | Х   |      |     |     |               | Х             | 1       |
| Management of patient with metastatic renal cancer  |     | Х   |      |     |     | Х             | Х             | 1       |
| Liaison with other specialties (eg radiotherapy, medical oncology)                                      |     | Х   |      |     |     |               | Х             | 1,2,3,4 |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |         |
| N/A   |     |     |      |     |     |               |               |         |

| Modular curriculum in Renal Cancer: Upper Tract TCC   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|---|-----|-----|------|-----|-----|---------------|---------------|-------|
| OBJECTIVE   |     |     |      |     |     |               |               |       |
| To develop advanced skills in the assessment and treatment of men with renal cancer                   |     |     |      |     |     |               |               |       |
| To develop advanced skills in the assessment and treatment of upper tract urothelial cancer           |     |     |      |     |     |               |               |       |
| KNOWLEDGE   |     |     |      |     |     |               |               |       |
| Rationale for, indications, results, and complications of different therapies for upper tract TCC     |     | Х   |      |     |     | Х             | Х             | 1     |
| Radical surgery   |     | Х   |      |     |     | Х             | Х             | 1     |
| Endoscopic therapy  |     | Х   |      |     |     | Х             | Х             | 1     |
| The rationale, role and limitations of new technology in the diagnosis and therapy of upper tract TCC |     | Х   |      |     |     | Х             | Х             | 1     |
| Understanding of the biology of upper tract TCC   |     | Х   |      |     |     | Х             | Х             | 1     |
| Understanding of the extent and relevance of co-morbidity in the choice of therapy                    |     | Х   |      |     |     | Х             | Х             | 1     |
| Entry into the relevant clinical trial  |     | Х   |      |     |     |               | Х             | 1,3,4 |
| Practical treatment of upper tract TCC  |     | Х   |      |     |     | х             | Х             | 1     |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |       |
| Assessment of patients with Upper tract TCC   | Х   |     |      |     |     |               | Х             | 1     |
| Indications for radiological and pathological investigations  |     | Х   |      |     |     | х             |               | 1     |
| Formulation of a best fit management policy following discussion at an MDT meeting                    |     | Х   |      |     |     |               | Х             | 1     |
| Obtaining informed consent for the relevant therapy following discussion of alternative therapies     | Х   |     |      | Х   |     |               | Х             | 1,3   |
| Liaison with reconstructive surgeon, where appropriate  |     | Х   |      |     |     |               | Х             | 1,3   |
| Formulation of a relevant follow up plan  |     | Х   |      |     |     |               | Х             | 1     |
| Ability to choose appropriate therapeutic approach for the treatment of upper tract TCC               |     | Х   |      |     |     | Х             | Х             | 1     |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |       |
| Radical nephroureterectomy  |     |     |      | Х   |     |               |               | 1     |
| Segmental ureterectomy and reconstruction   |     |     |      | Х   |     |               |               | 1     |
| Laparoscopic nephroureterectomy   |     |     |      | Х   |     |               |               | 1     |
| Rigid Ureteroscopy and endoscopic therapy to TCC  |     |     |      | Х   |     |               |               | 1     |

| Modular Curriculum in Penile Cancer: Basic Science   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of men with penile cancer               |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Embryology and anatomy of the male genitalia including Lymphatic drainage                          |     | Х   |      |     |     | Х             | Х             | 1   |
| Anatomy of the femoral triangle and upper thigh  |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology of erection   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of pain prevention and relief   |     | Х   |      |     |     | Х             | Х             | 1   |
| Use of local anaesthetic and regional techniques   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of agents used for chemotherapy in men with penile cancer                             |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathology of the differing types of penile cancer and pre-malignant conditions                     |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of genetics, oncogenes and growth factors in penile cancer                                    |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of environmental factors in penile cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| Thorough understanding of current and previous systems for the staging and grading of penile       |     | Х   |      |     |     | Х             | Х             | 1   |
| Understanding of the theoretical basis and techniques of radiological and nuclear medicine imaging |     | Х   |      |     |     | Х             | Х             | 1   |
| Understanding of the theoretical basis and techniques of radiotherapy for bladder cancer           |     | Х   |      |     |     | х             | х             | 1   |

| CLINICAL SKILLS   |   |  |   |   |   |
|---|---|--|---|---|---|
| Appropriate use of pharmacological, immunological and biological agents in men with penile cancer           | Х |  | Х | Х | 1 |
| Application of the indications, contraindications and side effects  | Х |  | Х | Х | 1 |
| Appropriate use of stage, grade and molecular markers in the management of an individual with penile cancer | Х |  | Х | Х | 1 |
| Appropriate imaging of men with penile cancer   | Х |  | Х | Х | 1 |
| Appropriate use or radiotherapy in the treatment of men with penile cancer                                  | Х |  | Х | Х | 1 |
| TECHNICAL SKILLS AND PROCEDURES   |   |  |   |   |   |
| N/A   |   |  |   |   |   |

| Modular Curriculum in Penile Cancer: Management of the primary cancer   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|---|-----|-----|------|-----|-----|---------------|---------------|-------|
| OBJECTIVE   |     |     |      |     |     |               |               |       |
| To develop advanced skills in the assessment and treatment of men with penile cancer                              |     |     |      |     |     |               |               |       |
| KNOWLEDGE   |     |     |      |     |     |               |               |       |
| Rationale for, indications, results, and complications of surgery and radiotherapy the treatment of penile cancer |     | Х   |      |     |     | Х             | Х             | 1     |
| The rationale, role and limitations of new technology in the diagnosis and therapy of penile cancer               |     | Х   |      |     |     | Х             | Х             | 1     |
| Understanding of the biology of penile cancer   |     | Х   |      |     |     | Х             | Х             | 1     |
| Understanding of the extent and relevance of co-morbidity in the choice of therapy                                |     | Х   |      |     |     | Х             | Х             | 1     |
| Entry into the relevant clinical trial  |     | Х   |      |     |     |               | Х             | 1     |
| Practical surgery of the primary tumour in penile cancer  |     | Х   |      |     |     | Х             | Х             | 1     |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |       |
| Appropriate assessment of patients with penile cancer including radiological assessment                           | Х   |     |      |     |     |               | Х             | 1     |
| Formulation of a best fit management policy following discussion at an MDT meeting                                |     | Х   |      |     |     |               | Х             | 1,2,3 |
| Obtaining informed consent for the relevant therapy   | Х   |     |      | Х   |     |               | Х             | 1,3,4 |
| Liaison with other specialties (eg plastic surgery, radiotherapy etc)   |     | Х   |      |     |     |               | Х             | 1,3,4 |
| Formulation of a relevant follow up plan  |     | Х   |      |     |     |               | Х             | 1     |
| Ability to choose appropriate therapeutic approach for the treatment of penile cancer                             |     | Х   |      |     |     | Х             | Х             | 1     |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |       |
| Circumcision and penile biopsy  |     |     |      | Х   |     |               |               | 1     |
| Partial penectomy   |     |     |      | Х   |     |               |               | 1     |
| Glansectomy and skin grafting   |     |     |      | Х   |     |               |               | 1     |
| Total penectomy   |     |     |      | Х   |     |               |               | 1     |

| Modular Curriculum in Penile Cancer: Management of the lymph nodes  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
|---|-----|-----|------|-----|-----|---------------|---------------|---------|
| OBJECTIVE   |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of men with penile cancer  |     |     |      |     |     |               |               |         |
| KNOWLEDGE   |     |     |      |     |     |               |               |         |
| Rationale for, indications, results, and complications of surgery, chemotherapy and radiotherapy the treatment of lymphatic |     | v   |      |     |     | v             | v             | 1       |
| involvement   |     | ~   |      |     |     | ~             | ~             | T       |
| Understanding of the biology of penile cancer   |     | Х   |      |     |     | Х             | Х             | 1       |
| Understanding of the extent and relevance of co-morbidity in the choice of therapy  |     | Х   |      |     |     | Х             | Х             | 1       |
| Entry into the relevant clinical trial  |     | Х   |      |     |     |               | Х             | 1       |
| Practical aspects of surgery for lymphatic involvement  |     | Х   |      |     |     | Х             | Х             | 1       |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |         |
| Assessment of patients with possible lymphatic involvement including radiological assessment                                | Х   |     |      |     |     |               | Х             | 1       |
| Formulation of treatment policy following discussion at an MDT meeting  |     | Х   |      |     |     |               | Х             | 1       |
| Obtaining informed consent for the relevant therapy   | Х   |     |      | Х   |     |               | Х             | 1,3     |
| Co-ordinating the role of non-medical professionals in the management   |     | Х   |      |     |     |               | Х             | 1,2,3,4 |
| Formulation of a follow up plan   |     | Х   |      |     |     |               | Х             | 1       |
| Ability to choose appropriate therapeutic approach for the treatment of penile cancer                                       |     | Х   |      |     |     | Х             | Х             | 1       |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |         |
| Block dissection inguinal lymph nodes   |     |     |      | Х   |     |               |               | 1       |
| Block dissection external iliac lymph nodes   |     |     |      | Х   |     |               |               | 1       |
| Laparoscopic pelvic node dissection   |     |     |      | Х   |     |               |               | 1       |

| Modular Curriculum in Penile Cancer: Metastatic penile cancer  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of men with penile cancer                     |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Rationale for, indications, complications of different therapies for metastatic penile cancer including: |     | Х   |      |     |     | Х             | Х             | 1   |
| Novel therapy  |     | Х   |      |     |     | Х             | Х             | 1   |
| Entry into the relevant clinical trials  |     | Х   |      |     |     |               | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Assessment and treatment of patients with metastatic penile cancer                                       | Х   |     |      |     |     |               | Х             | 1   |
| Formulations of best fit treatment plan following an MDT meeting   |     | Х   |      |     |     |               | Х             | 1,3 |
| Liaison with other specialties (eg radiotherapy, medical oncology)                                       |     | Х   |      |     |     |               | Х             | 1,3 |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |

| Modular curriculum in Testicular Cancer: Basic Science Anatomy  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of men with testis cancer                        |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Embryology and anatomy of male genitalia including Lymphatic drainage                                       |     | Х   |      |     |     | Х             | Х             | 1   |
| Anatomy of the retroperitoneum  |     | Х   |      |     |     | Х             | Х             | 1   |
| Reproductive physiology   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of pain prevention and relief  |     | Х   |      |     |     | Х             | Х             | 1   |
| Use of local anaesthetic  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of cytotoxic agents used in men with testis cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathology of the differing types of testis cancer and pre-malignant conditions                              |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of genetics, oncogenes and growth factors in testis cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| Role of environmental factors in testis cancer  |     | Х   |      |     |     | Х             | Х             | 1   |
| Understanding of past and current systems for the staging and grading of testis cancer                      |     | Х   |      |     |     | Х             | Х             | 1   |
| Understanding of the theoretical basis and techniques of radiological and nuclear medicine imaging          |     | Х   |      |     |     | Х             | Х             | 1   |
| Understanding of the theoretical basis and techniques of radiotherapy for bladder cancer                    |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate use of pharmacological agents in men with testis cancer   |     | Х   |      |     |     | Х             | Х             | 1   |
| Application of the indications, contraindications and side effects  |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate use of stage, grade and molecular markers in the management of an individual with testis cancer |     | Х   |      |     |     | Х             | Х             | 1   |

| Appropriate imaging of men with testis cancer                              | Х |  | Х | Х | 1 |
|--|---|--|---|---|---|
| Appropriate use or radiotherapy in the treatment of men with testis cancer | Х |  | Х | Х | 1 |
| TECHNICAL SKILLS AND PROCEDURES  |   |  |   |   |   |
| N/A  |   |  |   |   |   |

| Modular curriculum in Testicular Cancer: Management of the primary cancer                           | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
|---|-----|-----|------|-----|-----|---------------|---------------|---------|
| OBJECTIVE   |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of men with testis cancer                |     |     |      |     |     |               |               |         |
| KNOWLEDGE   |     |     |      |     |     |               |               |         |
| Rationale for, indications, results, and complications of surgery in the treatment of testis cancer |     | Х   |      |     |     | Х             | Х             | 1       |
| Understanding of the biology of testis cancer   |     | Х   |      |     |     | Х             | Х             | 1       |
| Entry into the relevant clinical trial  |     | Х   |      |     |     | Х             | Х             | 1       |
| Practical surgery of the primary tumour in testis cancer  |     | Х   |      |     |     | Х             | Х             | 1       |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |         |
| Appropriate assessment of patients with testis cancer including radiological assessment             | Х   |     |      |     |     |               | Х             | 1       |
| Show appropriate regard to future fertility prospects   | Х   |     |      |     |     | Х             | Х             | 1,2,3,4 |
| Liaison with other specialties (eg medical oncology, radiotherapy etc)                              |     | Х   |      |     |     |               | Х             | 1,3     |
| Formulation of a relevant follow up plan  |     | Х   |      |     |     |               | Х             | 1       |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |         |
| Radical orchidectomy  |     |     |      | Х   |     |               |               | 1       |
| Insertion of testicular prosthesis  |     |     |      | Х   |     |               |               | 1       |

| Modular curriculum in Testicular Cancer: Metastatic testis cancer  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP   |
|--|-----|-----|------|-----|-----|---------------|---------------|-------|
| OBJECTIVE  |     |     |      |     |     |               |               |       |
| To develop advanced skills in the assessment and treatment of men with testis cancer                                 |     |     |      |     |     |               |               |       |
| KNOWLEDGE  |     |     |      |     |     |               |               |       |
| Rationale for, indications, results, and complications of surgery, chemotherapy and radiotherapy in the treatment of |     | v   |      |     |     | Y.            | X             |       |
| metastatic testis cancer   |     | X   |      |     |     | ×             | X             | L T   |
| Understanding of the biology of testis cancer  |     | Х   |      |     |     | х             |               | 1     |
| Understanding of the extent and relevance of co-morbidity in the choice of therapy                                   |     | Х   |      |     |     | х             |               | 1     |
| Entry into the relevant clinical trial   |     | Х   |      |     |     |               | Х             | 1     |
| Practical aspects of surgery for metastatic disease  |     | Х   |      |     |     | х             | Х             | 1     |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |       |
| Appropriate assessment of patients with possible metastatic testis cancer including assessment                       | Х   |     |      |     |     |               | Х             | 1     |
| Formulation of a best fit management policy following discussion at an MDT meeting                                   |     | Х   |      |     |     |               | Х             | 1,3   |
| Obtaining informed consent for the relevant therapy  | Х   |     |      | Х   |     |               | Х             | 1,2,3 |
| Liaison with other specialties (eg medical oncology, vascular surgery)   |     | Х   |      |     |     |               | Х             | 1,2,3 |
| Formulation of a relevant follow up plan   |     | Х   |      |     |     |               | Х             | 1     |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |       |
| Retroperitoneal lymph node dissection  |     |     |      |     |     |               |               |       |

| Modular curriculum in Female Urology: Basic Science Anatomy  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction                         |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Anatomy  |     |     |      |     |     |               |               |     |
| Detailed knowledge of abdomino-pelvic anatomy especially bony pelvis, all pelvic viscera, pelvic floor, pelvic side wall and the |     | v   |      |     |     | v             | v             | 1   |
| endopelvic fasciae   |     | ^   |      |     |     | ^             | ~             | 1   |
| Embryology of the genitourinary tract including development of the cloaca, intestinal tract and omentum                          |     | Х   |      |     |     | Х             | Х             | 1   |
| Neuroanatomy as it relates to normal and abnormal bladder, urethral and pelvic floor function                                    |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology   |     |     |      |     |     |               |               |     |
| Physiology and neurophysiology of the bladder including the basis of micturition and continence                                  |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology of bladder musculature  |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology of bladder mucosa   |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiological basis of bladder sensation   |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology of female reproduction  |     | Х   |      |     |     | х             | Х             | 1   |
| Understanding of normal female hormonal function   |     | Х   |      |     |     | Х             | Х             | 1   |
| Normal female sexuality including genital function and orgasm  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology   |     |     |      |     |     |               |               |     |
| Pharmacology of the urogenital organs including cholinergic, adrenergic and other neurotransmitter systems                       |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology of drugs used in the management of lower urinary tract dysfunction side-effects and complications                   |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of the relevant supporting scientific literature   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacological agents treating other systems and their side-effects on urogenital tract including side-effects and              |     | x   |      |     |     | x             | x             | 1   |
| complications of commonly used drugs   |     | ^   |      |     |     | ^             | ~             | -   |
| The use of hormone replacement therapy in postmenopausal women and hormone manipulation in pre-menopausal women                  |     | Х   |      |     |     | х             | х             | 1   |
| Pharmacological agents treating ano-rectal dysfunction including the pharmacological methods of treating constipation and        |     | x   |      |     |     | x             | x             | 1   |
| altering bowel activity  |     | ~   |      |     |     | ~             | ~             | -   |
| Pathology  |     |     |      |     |     |               |               |     |
| Pathophysiology of urinary incontinence in women   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathophysiology of pelvic organ prolapse in women  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathology of ageing in women   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathophysiology of interstitial cystitis and other causes of painful bladder syndrome  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathophysiology of urinary infection in women  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Integrate issues of reproductive and sexual issues into the holistic management of women with lower urinary tract                |     | х   |      |     |     | x             |               | 1   |
| dysfunction  |     | ~   |      |     |     | ~             |               | -   |
| Appropriate use of commonly used drugs recognising common side effects, interactions and contra-indications                      |     | Х   |      |     |     | Х             |               | 1   |
| Appropriate assessment of women with lower urinary tract dysfunction   | Х   |     |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| Undertake urodynamic studies to investigate lower urinary tract dysfunction  |     |     | Х    |     |     |               |               | 1   |

| Modular curriculum in Female Urology: Management of continence problems in the elderly and the cognitively impaired | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP     |
|---|-----|-----|------|-----|-----|---------------|---------------|---------|
| OBJECTIVE   |     |     |      |     |     |               |               |         |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction            |     |     |      |     |     |               |               |         |
| KNOWLEDGE   |     |     |      |     |     |               |               |         |
| Specific needs of the elderly and cognitively impaired  |     | Х   |      |     |     | Х             | Х             | 1,2,3,4 |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |         |
| Demonstrate an appreciation of the specific issues posed by old age on management                                   |     | Х   |      |     |     | Х             | x             | 1,2,3,4 |

| TECHNICAL SKILLS AND PROCEDURES |  |  |  |  |
|---------------------------------|--|--|--|--|
| N/A                             |  |  |  |  |

| Modular curriculum in Female Urology: Urinary frequency/urgency syndrome and urinary urge incontinence   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| An understanding of the investigation, diagnosis and management  |     | Х   |      |     |     | Х             | Х             | 1   |
| Clinical assessment techniques according to ICS standards  |     | Х   |      |     |     | Х             | Х             | 1   |
| The role of urodynamic, imaging, endoscopic and other investigative techniques                           |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of conservative management techniques  |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of surgical management techniques including indications, results and complications             |     | Х   |      |     |     | Х             | Х             | 1   |
| Surgical interventions for urge urinary incontinence   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Counsel patients for a range of therapeutic options  | Х   |     |      |     |     |               | Х             | 1   |
| Plan investigation and treatment   |     | Х   |      |     |     | Х             | Х             | 1   |
| Conservative management  |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate liaison with the multidisciplinary team  |     | Х   |      |     |     |               | Х             | 1   |
| Ability to determine appropriate management of patient with resistant overactive bladder                 |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| Cystoscopy and injection Botulinum toxin   |     |     |      | Х   |     |               |               | 1   |
| Augmentation and substitution cystoplasty  |     |     |      | Х   |     |               |               | 1   |
| Sacral neuromodulation   |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Female Urology: Bladder and pelvic pain syndromes (including "interstitial cystitis") | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction    |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Understand the various types of pain syndrome and underlying possible aetiologies and current terminology   |     | Х   |      |     |     | Х             | Х             | 1   |
| An understanding of the investigation, diagnosis and management   |     | Х   |      |     |     | Х             | Х             | 1   |
| Clinical assessment techniques according to ICS standards   |     | Х   |      |     |     | Х             | Х             | 1   |
| The role of urodynamics, imaging, endoscopy and other investigations  |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of conservative management techniques   |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of surgical management techniques including indications, results and complications                |     | Х   |      |     |     | Х             | Х             | 1   |
| Practical intervention for painful bladder syndrome   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Counsel patients for a range of therapeutic options   | Х   |     |      |     |     |               | Х             | 1   |
| Plan investigation and treatment  |     | Х   |      |     |     | Х             | Х             | 1   |
| Conservative management   |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate liaison with the multidisciplinary team   |     | Х   |      |     |     |               | Х             | 1   |
| Ability to determine appropriate management of patient with resistant painful bladder syndrome              |     | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Cystoscopic assessment painful bladder  |     |     |      | Х   |     |               |               | 1   |
| Augmentation and substitution cystoplasty   |     |     |      | Х   |     |               |               | 1   |
| Simple cystectomy   |     |     |      | Х   |     |               |               | 1   |
| Ileal conduit diversion   |     |     |      | Х   |     |               |               | 1   |
| Continent Urinary Diversion   |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Female Urology: Stress urinary incontinence and mixed urinary incontinence         | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| An understanding of the investigation, diagnosis and management  |     | Х   |      |     |     | Х             | Х             | 1   |
| Clinical assessment techniques according to ICS standards  |     | Х   |      |     |     | Х             | Х             | 1   |
| The role of urodynamic, imaging, endoscopic and other investigative techniques                           |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of conservative management techniques  |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of surgical management techniques including indications, results and complications             |     | Х   |      |     |     | Х             | Х             | 1   |
| Surgical interventions for stress urinary incontinence   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Counsel patients for a range of therapeutic options  | Х   |     |      |     | Х   |               | Х             | 1,3 |
| Plan investigation and treatment   |     | Х   |      |     |     | Х             | Х             | 1   |
| Conservative management  |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate liaison with the multidisciplinary team  |     | Х   |      |     |     | Х             | Х             | 1,3 |
| Ability to determine appropriate surgical management of patient with stress urinary incontinence         |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| Midurethral tapes  |     |     |      | Х   |     |               |               | 1   |
| Injection of bulking agents into bladder neck  |     |     |      | Х   |     |               |               | 1   |
| Colposuspension  |     |     |      | Х   |     |               |               | 1   |
| Pubourethral slings  |     |     |      | Х   |     |               |               | 1   |
| Artificial urinary sphincter   |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Female Urology: Female Urinary retention   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Knowledge of the underlying causes and mechanisms  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Be able and initiate appropriate investigation and management  |     | Х   |      |     |     | Х             | Х             | 1   |
| Liaison with other specialties as appropriate  |     | Х   |      |     |     |               | Х             | 1,3 |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |

| Modular curriculum in Female Urology: Genito-urinary prolapse (primary and recurrent)                    | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction |     |     |      |     |     |               |               |     |

| KNOWLEDGE   |   |   |   |   |   |   |     |
|---|---|---|---|---|---|---|-----|
| Understanding of cause, pathophysiology and classification of pelvic organ prolapse   |   | Х |   |   | Х | Х | 1   |
| Understanding of female sexual function and dysfunction   |   | Х |   |   | Х | Х | 1   |
| Understanding of indications, techniques, results and complications of surgical and non-surgical therapies for pelvic organ |   | v |   |   | v | v | 1   |
| prolapse  |   | ^ |   |   | ^ | ^ | L   |
| Surgical interventions for pelvic organ prolapse  |   | Х |   |   | Х | Х | 1   |
| CLINICAL SKILLS   |   |   |   |   |   |   |     |
| Appropriate assessment of pelvic organ prolapse   | Х |   |   |   |   | Х | 1   |
| Be able to identify and advise on the appropriateness of surgery or other conservative approaches                           |   | Х |   |   | Х |   | 1   |
| Able to fit ring pessary  |   |   | Х |   |   |   | 1   |
| Be able to advise on the appropriateness of surgery   |   | Х |   |   |   | Х | 1   |
| Liaison with other specialties as appropriate   |   | Х |   |   |   | Х | 1,3 |
| Ability to determine appropriate management of patient with prolapse  |   | Х |   |   | Х | Х | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |   |   |   |   |   |   |     |
| Anterior repair   |   |   |   | Х |   |   |     |
| Paravaginal repair / Vagino-obturator shelf   |   |   |   | Х |   |   |     |
| Sacrocolpopexy  |   |   |   | Х |   |   |     |
| Vaginal hysterectomy  |   |   |   | Х |   |   |     |

| Modular curriculum in Female Urology: Urinary fistula   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction    |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Causes, pathophysiology, presentation and complications of urinary fistulae                                 |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of appropriate management and diagnostic techniques including indications, results, complications |     | Х   |      |     |     | х             | х             | 1   |
| Surgical treatment of urinary fistula   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate assessment of urinary fistulae  | Х   |     |      |     |     |               | Х             | 1   |
| Be able to advise on the appropriateness of surgery   |     | Х   |      |     |     |               | Х             | 1   |
| Liaise with appropriate specialty including pelvic reconstructive surgeon                                   |     | Х   |      |     |     |               | Х             | 1,2 |
| Ability to determine appropriate management of patient with urinary fistula                                 |     | Х   |      |     |     | х             | х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Repair vesicovaginal fistula  |     |     |      | Х   |     |               |               | 1   |
| Martius flap  |     |     |      | Х   |     |               |               | 1   |
| Ileal conduit   |     |     |      | Х   |     |               |               | 1   |
| Repair urethrovaginal fistula   |     |     |      | Х   |     |               |               | 1   |
| Repair of uretero vaginal fistula   |     |     |      | Х   |     |               |               | 1   |
| Simple cystectomy   |     |     |      | Х   |     |               |               | 1   |
| Continent urinary diversion   |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Female Urology: Urethral diverticulum   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction    |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Causes, pathophysiology, presentation and complications of urethral diverticulum                            |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of appropriate management and diagnostic techniques including indications, results, complications |     | v   |      |     |     | X             | X             | 1   |
| Knowledge of appropriate management and diagnostic techniques   |     | ^   |      |     |     | ~             | ~             | T   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate assessment of urethral diverticulum   | Х   |     |      |     |     |               | Х             | 1   |
| Be able to advise on the appropriateness of surgery   | х   |     |      |     |     |               | Х             | 1   |
| Liaise with appropriate specialty including pelvic reconstructive surgeon                                   | Х   | Х   |      |     |     |               | Х             | 1,3 |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Surgical excision urethral diverticulum   |     |     |      | Х   |     |               |               |     |

| Modular curriculum in Female Urology: Trauma to the genito-urinary tract in women, effects of radiation and bowel or             | CEV | <b>CDD</b> | DODG |     | NACE  | ICD Continue 1 | ICD Continue 2 | CLAD  |
|--|-----|------------|------|-----|-------|----------------|----------------|-------|
| pelvic surgery on bladder, bowel and pelvic floor function   | CEX | CRD        | DOPS | РВА | IVISE | ISB Section 1  | ISB Section 2  | GIVIP |
| OBJECTIVE  |     |            |      |     |       |                |                |       |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction                         |     |            |      |     |       |                |                |       |
| KNOWLEDGE  |     |            |      |     |       |                |                |       |
| Pathophysiology of congenital, inflammatory, traumatic and radiation damage to the genitourinary tract                           |     | Х          |      |     |       | Х              | Х              | 1     |
| Knowledge of management and diagnostic techniques  |     | Х          |      |     |       | Х              | Х              | 1     |
| Awareness of possible techniques including inverted skin grafts, use of chorionic tissue, gracilis flaps and bowel interposition |     | Х          |      |     |       | Х              | Х              | 1     |
| CLINICAL SKILLS  |     |            |      |     |       |                |                |       |
| Appropriate assessment of women with congenital, traumatic, inflammatory and radiation damage to the genitourinary tract         | Х   |            |      |     |       |                | Х              | 1     |
| Be able to advise on the appropriateness of surgery  |     | Х          |      |     |       |                | Х              | 1,3   |
| Practical surgical treatment congenital, inflammatory, traumatic and radiation damage to the genitourinary tract                 |     | Х          |      |     |       |                | Х              | 1     |
| TECHNICAL SKILLS AND PROCEDURES  |     |            |      |     |       |                |                |       |
| Vaginal reconstruction   |     |            |      | Х   |       |                |                | 1     |
| Martius flap   |     |            |      | Х   |       |                |                | 1     |
| Ileal conduit  |     |            |      | Х   |       |                |                | 1     |
| Simple cystectomy  |     |            |      | Х   |       |                |                | 1     |
| Continent urinary diversion  |     |            |      | Х   |       |                |                | 1     |

| Modular curriculum in Female Urology: Defaecatory disorders and other lower gastrointestinal disorders Anorectal reconstruction | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of women with lower urinary tract dysfunction                        |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Understand the techniques of assessment and treatment of anorectal disorders including:   |     | Х   |      |     |     | Х             | Х             | 1   |
| Anorectal physiology tests including manometry, proctography and endoanal US  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pelvic floor electromyography   |     | Х   |      |     |     | Х             | Х             | 1   |
| Nerve conduction studies  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Assessment of bowel dysfunction in women with lower tract dysfunction   | Х   |     |      |     |     |               | Х             | 1   |
| Competence in use of dietary regimes, bowel medications and enemas  |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| N/A   |     |     |      |     |     |               |               |     |

| Modular Curriculum in Bladder and Upper urinary tract reconstruction: Basic Science  | CEX | CBD                  | DOPS | PBA   | MSF | ISB Section 1 | ISB Section 2        | GMP   |
|--|-----|----------------------|------|---|-----|---------------|----------------------|---|
| OBJECTIVE  |     |                      |      |   |     |               |                      |   |
| To develop advanced skills in the reconstruction of the bladder and the upper urinary tract  |     |                      |      |   |     |               |                      |   |
| KNOWLEDGE  |     |                      |      |   |     |               |                      |   |
| Anatomy  |     |                      |      |   |     |               |                      |   |
| Detailed knowledge of abdomino-pelvic anatomy especially Bony pelvis, all pelvic and abdominal viscera, pelvic floor, pelvic   |     | х                    |      |   |     | x             | х                    | 1   |
| side wall and the endopelvic fasciae   |     | ~                    |      |   |     | ~             | ~                    | -   |
| Embryology of the genitourinary tract including development of the cloaca, intestinal tract and omentum  |     | Х                    |      |   |     | X             | Х                    | 1   |
| Neuroanatomy as it relates to normal and abnormal bladder, urethral and pelvic floor function  |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Anatomy and vascular blood supply of intestine   |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Physiology   |     |                      |      |   |     |               |                      |   |
| Physiology and neurophysiology of the bladder including the basis of micturition and continence  |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Physiology of bladder musculature  |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Physiology of bladder mucosa   |     | х                    |      |   |     | Х             | Х                    | 1   |
| Physiological basis of bladder sensation   |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Physiology of gastrointestinal function  |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Pharmacology   |     |                      |      |   |     |               |                      |   |
| Pharmacology of the urogenital organs including cholinergic, adrenergic and other neurotransmitter systems   |     | Х                    |      |   |     | Х             | х                    | 1   |
| Pharmacology of drugs used in the management of lower urinary tract dysfunction side-effects and complications   |     | х                    |      |   |     | Х             | Х                    | 1   |
| Knowledge of the relevant supporting scientific literature   |     | х                    |      |   |     | Х             | Х                    | 1   |
| Pharmacological agents treating other systems and their side-effects on urogenital tract including side-effects and  |     |                      |      |   |     |               |                      |   |
| complications of commonly used drugs   |     | х                    |      |   |     | Х             | Х                    | 1   |
| Pathology  |     |                      |      |   |     |               |                      | 1   |
| Causes / pathophysiology of conditions that might require reconstruction of the bladder and ureter including:  |     | Х                    |      |   |     | х             | х                    | 1   |
| Congenital and acquired conditions of the central nervous system   |     | х                    |      |   |     | х             | х                    | 1   |
| Congenital abnormalities of the urinary tract  |     | Х                    |      |   |     | х             | х                    | 1   |
| Genitourinary tumours  |     | x                    |      |   |     | x             | x                    | -   |
| Inflammatory conditions of the urinary tract   |     | x                    |      |   |     | x             | x                    | 1   |
|  |     | x                    |      |   |     | × ×           | × ×                  | 1   |
|  |     | ×                    |      |   |     | ×             | ×                    | 1   |
| Dathanhysiology of urinany incontinense  |     |                      |      |   |     | × ×           | ×                    | 1   |
| Pathophysiology of utiliary incontinence   |     | ×                    |      |   |     | ×             | X                    | 1   |
| Pathophysiology of pelvic organ prolapse in women  |     | X                    |      |   |     | X             | X                    | 1   |
| Pathophysiology of urinary infection   |     | X                    |      |   |     | X             | X                    | 1   |
|  |     |                      |      |   |     |               |                      |   |
|  | х   |                      |      |   |     |               |                      |   |
| Appropriate assessment of patients with upper and lower urinary tract dysfunction who require urinary tract reconstruction   |     |                      |      |   |     |               |                      |   |
| TECHNICAL SKILLS AND PROCEDURES  |     |                      |      |   |     |               |                      |   |
| Undertake urodynamic studies to investigate lower urinary tract dysfunction  |     |                      | Х    |   |     |               |                      | 1   |
|  | 1   |                      |      |   |     |               | 1                    |   |
| Modular Curriculum in Bladder and Upper urinary tract reconstruction: Assessment and follow-up of patients requiring   | CEX | CBD                  | DOPS | PBA   | MSF | ISB Section 1 | ISB Section 2        | GMP   |
| urinary tract reconstruction   |     |                      |      |   |     |               |                      |   |
| OBJECTIVE  |     |                      |      |   |     |               |                      |   |
| To develop advanced skills in the reconstruction of the bladder and the upper urinary tract  |     |                      |      |   |     |               |                      |   |
| KNOWLEDGE  |     |                      |      |   |     |               |                      |   |
| Causes and pathophysiology of conditions requiring bladder and ureteric reconstruction   |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Techniques of assessment for bladder and urinary tract reconstruction including urodynamics, radiology and nuclear   |     | v                    |      |   |     | v             | ×                    | 1   |
| medicine techniques  |     | ^                    |      |   |     | ^             | ~                    | 1   |
| Metabolic effects of urinary tract reconstruction and interposition of intestine within the urinary tract  |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Complications of urinary tract reconstruction and interposition of intestine within the urinary tract  |     | х                    |      |   |     | Х             | Х                    | 1   |
| Knowledge of endourological techniques relevant to urinary tract reconstruction  |     | Х                    |      |   |     | Х             | Х                    | 1   |
| Practical surgical techniques in reconstruction of the bladder and ureter  |     | х                    |      |   |     | Х             | Х                    | 1   |
| CLINICAL SKILLS  |     |                      |      |   |     |               |                      |   |
| Appropriate assessment of patients requiring urinary tract reconstruction  | Х   |                      |      |   |     |               | х                    | 1   |
| Be able to advise on the surgical and non-surgical options and the appropriateness of surgery  |     | х                    |      |   |     |               | х                    | 1   |
| Management of post-operative consequences of urinary tract reconstruction and interposition of intestine within the urinary  |     |                      |      |   |     |               |                      |   |
|  |     |                      |      |   |     |               |                      | 1   |
| tract  |     | х                    |      |   |     |               | х                    |   |
| tract<br>Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary   |     | х                    |      |   |     |               | х                    |   |
| tract<br>Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary<br>tract  |     | x<br>x               |      |   |     |               | x<br>x               | 1   |
| tract<br>Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary<br>tract<br>Liaison with other specialties e.g. radiology, GI surgeons  |     | x<br>x<br>x          |      |   |     |               | x<br>x<br>x          | 1   |
| tract<br>Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary<br>tract<br>Liaison with other specialties e.g. radiology, GI surgeons<br>Ability to determine appropriate choice of reconstructive technique   |     | X<br>X<br>X<br>X     |      |   |     | X             | x<br>x<br>x<br>x     | 1<br>1,3<br>1   |
| tract<br>Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary<br>tract<br>Liaison with other specialties e.g. radiology, GI surgeons<br>Ability to determine appropriate choice of reconstructive technique<br>TECHNICAL SKILLS AND PROCEDURES  |     | X<br>X<br>X<br>X     |      |   |     | X             | x<br>x<br>x<br>x     | 1<br>1,3<br>1   |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis  |     | x<br>x<br>x<br>x     |      |   |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1   |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum   |     | X<br>X<br>X<br>X     |      | ×   |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1  |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum Eor the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix  |     | X<br>X<br>X<br>X     |      | X<br>X<br>X   |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1  |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed:   |     | X<br>X<br>X<br>X     |      | x<br>x<br>x<br>x  |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1<br>1   |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Lireteric anastomosis   |     | X<br>X<br>X<br>X     |      | x<br>x<br>x<br>x  |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1<br>1   |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric anastomosis  |     | x<br>x<br>x<br>x     |      | X<br>X<br>X<br>X<br>X   |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1  |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric anastomosis Ureteric reimplantation Proof bitch  |     | X<br>X<br>X<br>X     |      | X<br>X<br>X<br>X<br>X<br>X  |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1   |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric anastomosis Ureteric reimplantation Psoas hitch Psoas hitch Psoas hitch  |     | X<br>X<br>X<br>X     |      | X<br>X<br>X<br>X<br>X<br>X<br>X   |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric reimplantation Psoas hitch Boari flap Terrencuenters   |     | X<br>X<br>X<br>X     |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X   |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric anastomosis Ureteric reimplantation Psoas hitch Boari flap Transuretero-ureterostomy Eimple extentment   |     | X<br>X<br>X<br>      |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X   |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                    |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric rainastomosis Ureteric reimplantation Psoas hitch Boari flap Transuretero-ureterostomy Simple cystectomy   |     | X<br>X<br>X<br>X     |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X                                    |     | X             | X<br>X<br>X<br>X     | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                          |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric anastomosis Ureteric reimplantation Psoas hitch Boari flap Transuretero-ureterostomy Simple cystectomy Augmentation cystoplasty  |     | X<br>X<br>X<br>X     |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X                     |     | X             |                      | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                     |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric ranastomosis Ureteric reimplantation Psoas hitch Boari flap Transuretero-ureterostomy Simple cystectomy Augmentation cystoplasty Substitution cystoplasty  |     | X<br>X<br>X<br>X     |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X                |     | X             | X<br>X<br>X<br>X<br> | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1           |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric ranastomosis Ureteric reimplantation Psoas hitch Boari flap Transuretero-ureterostomy Simple cystectomy Augmentation cystoplasty Ileal conduit diversion   |     | X<br>X<br>X<br>X     |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X |     | X             |                      | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric anastomosis Ureteric reimplantation Psoas hitch Boari flap Transuretero-ureterostomy Simple cystectomy Augmentation cystoplasty Ileal conduit diversion Continent urinary diversion  |     | X<br>X<br>X<br>X<br> |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X |     |               |                      | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric anastomosis Ureteric reimplantation Psoas hitch Boari flap Transuretero-ureterostomy Simple cystectomy Augmentation cystoplasty Ileal conduit diversion Continent urinary diversion Orthotopic bladder reconstruction  |     | X<br>X<br>X<br>      |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X |     |               |                      | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| tract Arrange appropriate follow up of patients with urinary tract reconstruction and interposition of intestine within the urinary tract Liaison with other specialties e.g. radiology, GI surgeons Ability to determine appropriate choice of reconstructive technique TECHNICAL SKILLS AND PROCEDURES Intestinal anastomosis Mobilisation omentum For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix to which the trainee is exposed: Ureteric anastomosis Ureteric reimplantation Psoas hitch Boari flap Transuretero-ureterostomy Simple cystectomy Augmentation cystoplasty Ileal conduit diversion Continent urinary diversion Orthotopic bladder reconstruction Artificial urinary sphincter insertion |     |                      |      | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X |     |               |                      | 1<br>1,3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                     |

| Modular Curriculum in Urethral Reconstruction: Basic Science   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the reconstructive surgery of the urethra  |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Knowledge of the pelvis, male genitalia and urethra including embryology of urethra including hypospadias and epispadias |     | Х   |      |     |     | Х             | Х             | 1   |
| Neuroanatomy as it relates to normal and abnormal bladder, urethral and pelvic floor function                            |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology and neurophysiology of micturition and continence   |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology of erection and ejaculation   |     | Х   |      |     |     | Х             | Х             | 1   |
| Reproductive physiology  |     | Х   |      |     |     | Х             | Х             | 1   |

| Pharmacology of drugs used in the management of lower urinary tract dysfunction                    |   | Х |  | Х | Х | 1 |
|--|---|---|--|---|---|---|
| Causes, pathophysiology and complications of urethral strictures                                   |   | Х |  | Х | Х | 1 |
| Pathophysiology of traumatic urethral injury   |   | Х |  | Х | Х | 1 |
| CLINICAL SKILLS  |   |   |  |   |   |   |
| Appropriate assessment of men with urethral strictures   | Х |   |  |   | Х | 1 |
| Appropriate use of commonly used drugs including side effects, interactions and contra-indications |   | Х |  | Х | Х | 1 |
| TECHNICAL SKILLS AND PROCEDURES  |   |   |  |   |   |   |
| N/A  |   |   |  |   |   |   |

| Modular Curriculum in Urethral Reconstruction: Assessment and management of men requiring urethral reconstruction          | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the reconstructive surgery of the urethra  |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Pathophysiology of congenital abnormalities including hypospadias and epispadias   |     | Х   |      |     |     | Х             | Х             | 1   |
| Causes, pathophysiology and complications of urethral strictures   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathophysiology of traumatic injury to the urethra   |     | Х   |      |     |     | Х             | Х             | 1   |
| Techniques of assessment for bladder and urinary tract reconstruction including urodynamics, radiology and nuclear         |     | v   |      |     |     |               | , v           |     |
| medicine techniques  |     | X   |      |     |     | X             | X             | 1   |
| Techniques and complications of urethral reconstruction  |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of endourological techniques relevant to urethral  |     | Х   |      |     |     | Х             | Х             | 1   |
| Surgery of urethral reconstruction   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Appropriate assessment of patients requiring urethral  | Х   |     |      |     |     |               | Х             | 1   |
| Be able to advise on the surgical options and the appropriateness of surgery   |     | Х   |      |     |     |               | Х             | 1   |
| Management of post-operative consequences of urethral reconstruction   |     | Х   |      |     |     |               | Х             | 1   |
| Arrange appropriate follow up of patients with urethral reconstruction   |     | Х   |      |     |     | Х             | Х             | 1   |
| Liaison with other specialties e.g. radiology, orthopaedics, GI surgeons   |     | Х   |      |     |     |               | Х             | 1,3 |
| Ability to determine appropriate surgical option for patients with urethral stricture                                      |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| Optical urethrotomy  |     |     |      | Х   |     |               |               | 1   |
| Harvesting buccal mucosa graft   |     |     |      | Х   |     |               |               | 1   |
| For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix |     |     |      | v   |     |               |               | 1   |
| to which the trainee is exposed:   |     |     |      | X   |     |               |               | T   |
| Bulbar anastomotic urethroplasty   |     |     |      | Х   |     |               |               | 1   |
| Single stage substitution urethroplasty using flaps and grafts   |     |     |      | Х   |     |               |               | 1   |
| Two stage buccal graft urethroplasty   |     |     |      | Х   |     |               |               | 1   |
| Pelvic fracture urethral reconstruction  |     |     |      | Х   |     |               |               | 1   |

| Modular Curriculum in Neurourology: Basic Science   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               | 1   |
| To develop advanced skills in the assessment and treatment of patients with neuropathic bladder and genital dysfunction     |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Anatomy   |     |     |      |     |     |               |               |     |
| Anatomy of the genitourinary tract, including embryology  |     | Х   |      |     |     | Х             | Х             | 1   |
| Neuroanatomy of the peripheral and central nervous system as it relates to normal and abnormal bladder, urethral and        |     | v   |      |     |     | v             | ×             | 1   |
| pelvic floor function   |     | ^   |      |     |     | ^             | ^             | 1   |
| Physiology  |     |     |      |     |     |               |               |     |
| Physiology and neurophysiology of the bladder including the basis of micturition and continence                             |     | Х   |      |     |     | Х             | х             | 1   |
| Physiology of bladder musculature   |     | Х   |      |     |     | Х             | х             | 1   |
| Physiology of bladder mucosa  |     | Х   |      |     |     | Х             | х             | 1   |
| Physiological basis of bladder sensation  |     | Х   |      |     |     | Х             | Х             | 1   |
| Central nervous control of micturition and sexual function  |     | Х   |      |     |     | Х             | Х             | 1   |
| Physiology and neurophysiology of sexual function in men and women  |     | Х   |      |     |     | Х             | Х             | 1   |
| Reproductive physiology in men  |     | Х   |      |     |     | Х             | Х             | 1   |
| Reproductive physiology in women  |     | Х   |      |     |     | Х             | х             | 1   |
| Pharmacology  |     |     |      |     |     |               |               |     |
| Pharmacology of the genitourinary organs including cholinergic, adrenergic and other neurotransmitter systems               |     | Х   |      |     |     | Х             | х             | 1   |
| Pharmacology of drugs used in the management of lower urinary tract dysfunction side-effects and complications              |     | Х   |      |     |     | Х             | х             | 1   |
| Pharmacology of drugs used to treat male and female sexual dysfunction  |     | Х   |      |     |     | Х             | х             | 1   |
| Pharmacology of drugs used in the management of diseases of the central nervous system (eg drugs used for treatment of      |     | x   |      |     |     | x             | x             | 1   |
| Parkinson's disease, drugs used for neuropathic pain, drugs used to alleviate hypertonicity)                                |     | ~   |      |     |     | ^             | ~             | -   |
| Pharmacological agents treating ano-rectal dysfunction including the pharmacological methods of treating constipation and   |     | x   |      |     |     | x             | x             | 1   |
| altering bowel activity   |     | ~   |      |     |     | ^             | ~             | -   |
| Pathology   |     |     |      |     |     |               |               | 1   |
| Pathophysiology of neurogenic bladder dysfunction in congenital and acquired diseases of the central and peripheral nervous |     | x   |      |     |     | x             | x             | 1   |
| system  |     | ~   |      |     |     | ^             | ~             |     |
| Effects of neurogenic bladder dysfunction upon renal function   |     | Х   |      |     |     | Х             | х             | 1   |
| Pathophysiology of sexual dysfunction in congenital and acquired diseases of the central and peripheral nervous system      |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathophysiology of traumatic spinal cord injury, including effects upon function of the genitourinary tract                 |     | Х   |      |     |     | Х             | х             | 1   |
| Effects of neurological disease upon mobility, manual dexterity, vision and other bodily functions relevant to the          |     | v   |      |     |     | v             | ×             | 1   |
| management of bladder dysfunction   |     | ^   |      |     |     | ^             | ~             | 1   |
| Pathophysiology of autonomic dysreflexia  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate use of commonly used drugs recognising common side effects, interactions and contra-indications                 |     | Х   |      |     |     | Х             | х             | 1   |
| Appropriate assessment of patients with neurological disease and bladder or sexual dysfunction including video-urodynamic   | Y   | Y   |      |     |     | x             | Y             | 1   |
| studies   | ^   | ^   |      |     |     | ^             | ^             |     |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Undertake urodynamic studies to investigate lower urinary tract dysfunction   |     |     |      |     |     |               |               |     |

| Modular Curriculum in Neurourology: Management of patients with neurogenic bladder or sexual dysfunction                  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               | 1   |
| To develop advanced skills in the assessment and treatment of patients with neuropathic bladder and genital dysfunction   |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Understand the effects of neurological diseases on bladder and sexual function  |     | Х   |      |     |     | Х             | Х             | 1   |
| An understanding of the investigation, diagnosis and management of patients with neurogenic bladder or sexual dysfunction |     | Х   |      |     |     | Х             | Х             | 1   |
| Complications of neurogenic bladder dysfunction including renal impairment, urosepsis and calculus formation              |     | Х   |      |     |     | Х             | Х             | 1   |
| Clinical assessment techniques according to ICS standards   |     | Х   |      |     |     |               | Х             | 1   |
| The role of urodynamic, imaging, endoscopic and other investigative techniques  |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of conservative management techniques   |     | Х   |      |     |     | Х             | Х             | 1   |

| Knowledge of surgical management techniques including indications, results and complications                               |   | Х |   | Х | Х | 1     |
|--|---|---|---|---|---|-------|
| Surgical treatment of neurogenic bladder dysfunction   |   | Х |   |   | Х | 1     |
| CLINICAL SKILLS  |   |   |   |   |   |       |
| Appropriate assessment of patients with neurogenic bladder or sexual dysfunction   |   | Х |   | Х | Х | 1     |
| Counsel patients for a range of therapeutic options  | Х |   |   |   | Х | 1     |
| Plan investigation and treatment   |   | Х |   |   | Х | 1     |
| Conservative management including medical therapy of urinary incontinence and sexual dysfunction                           |   | Х |   | Х | Х | 1     |
| Appropriate liaison with the multidisciplinary team  |   | Х |   |   | Х | 1,2,3 |
| Ability to determine appropriate management of patient with neurogenic bladder dysfunction                                 |   | Х |   |   | Х | 1     |
| TECHNICAL SKILLS AND PROCEDURES  |   |   |   |   |   |       |
| Perform urodynamic studies in patients with neurological disease   |   |   | Х |   |   | 1     |
| Cystoscopy and injection Botulinum toxin   |   |   | Х |   |   | 1     |
| Cystoscopy and insertion suprapubic catheter   |   |   | Х |   |   | 1     |
| Cystoscopy and fragmentation of bladder calculi  |   |   | Х |   |   | 1     |
| Cystoscopy and external sphincterotomy   |   |   | Х |   |   | 1     |
| Open removal bladder calculi   |   |   | Х |   |   | 1     |
| Intestinal anastomosis   |   |   | х |   |   | 1     |
| Mobilisation omentum   |   |   | х |   |   | 1     |
| Bladder neck closure   |   |   | Х |   |   | 1     |
| Ileal conduit  |   |   | Х |   |   | 1     |
| For the following the achievement will typically be 1-2 and the exact level of competence will largely depend upon casemix |   |   |   |   |   |       |
| to which the trainee is exposed:   |   |   |   |   |   |       |
| Augmentation cystoplasty   |   |   | х |   |   | 1     |
| Substitution cystoplasty   |   |   | х |   |   | 1     |
| Continent diversion  |   |   | Х |   |   | 1     |
| Insertion artificial urinary sphincter   |   |   | Х |   |   | 1     |
| Insertion spinal stimulator  |   |   | Х |   |   | 1     |
| Neuromodulation  |   |   | Х |   |   | 1     |

| Modular curriculum in Male Factor Infertility: Basic Science   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with male factor infertility                            |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Anatomy  |     |     |      |     |     |               |               |     |
| A detailed knowledge of the anatomy and embryology of the genitalia and reproductive system                                    |     | х   |      |     |     | х             | Х             | 1   |
| Knowledge of the vascular. lymphatic and nerve supply to the genitalia and reproductive system and abdominal/pelvic            |     |     |      |     |     |               |               |     |
| organs   |     | х   |      |     |     |               | Х             | 1   |
| Embryology of the male genitalia with particular emphasis on congenital anomalies and their effects on male sexual function    |     | x   |      |     |     | x             | x             | 1   |
| Micro/macrosconic anatomy of the reproductive system including their anatomical relationship to other genito-urinary           |     | ~   |      |     |     | ~ ~           | X             | -   |
| organs   |     | х   |      |     |     | Х             | Х             | 1   |
| Nigro/macrosconic anatomy of the male genitalia  |     | v   |      |     |     | v             | v             | 1   |
|  |     | ^   |      |     |     | ^             | ^             | 1   |
| Physiology<br>Constitution and early constitution (Normal constitution, Alexandred constitution, Internet states, Constitution |     |     |      |     |     |               |               |     |
| Genetics and male sexual function (Normal sexual differentiation, Abnormal sexual differentiation, intersex states Genetic     |     | х   |      |     |     | х             | х             | 1   |
| anomalies and intertility)   |     |     |      |     |     |               |               |     |
| The male reproductive axis (Hypothalamic- pituitary function, Endocrinology of the Testis, Testosterone metabolism, Effects    |     | х   |      |     |     |               | х             | 1   |
| of aging on male endocrinology)  |     |     |      |     |     |               |               |     |
| Spermatogenesis (Genetic basis of spermatogenesis, Hormonal regulation of spermatogenesis, Sertoli cell function)              |     | Х   |      |     |     | Х             | X             | 1   |
| Physiology of male reproduction (Epididymal function, Physiology of the vas deferens, Physiology of the seminal vesicles,      |     | x   |      |     |     | x             | х             | 1   |
| Ejaculation, Role of the prostate in sexual function)  |     |     |      |     |     |               |               | _   |
| Physiology of female sexual function   |     | Х   |      |     |     | Х             | X             | 1   |
| Physiology of female reproduction  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pharmacology   |     |     |      |     |     |               |               | 1   |
| Drugs / gonadotoxins and their effects on male reproduction and sexual function  |     | Х   |      |     |     | Х             | Х             | 1   |
| The pharmacological treatment of male factor infertility   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathology  |     |     |      |     |     |               |               |     |
| Aetiology and pathogenesis of male infertility   |     | Х   |      |     |     | Х             | Х             | 1   |
| Anti-sperm anti-bodies and fertility   |     | Х   |      |     |     | Х             | Х             | 1   |
| Varicocele and male fertility  |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathophysiology of testicular obstruction  |     | х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Appropriate assessment and treatment of man or couple with male factor infertility   |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate use of commonly used drugs recognising common side effects, interactions and contra-indications                    |     | х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |
|  |     |     |      |     |     |               |               |     |
| Modular curriculum in Male Factor Infertility: Male factor infertility   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with male factor infertility                            |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Causes of male factor infertility  |     | х   |      |     |     | Х             | Х             | 1   |
| Causes of female factor infertility  |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate investigation of male sub-fertility  |     | Х   |      |     |     | Х             | Х             | 1   |
| Varicocele and male fertility  |     | Х   |      |     |     | Х             | Х             | 1   |
| Endocrine disease and infertility  |     | х   |      |     |     | Х             | Х             | 1   |
| Causes of testicular obstruction   |     | х   |      |     |     | Х             | Х             | 1   |
| The role of assisted conception techniques in the treatment of the infertile couple  |     | х   |      |     |     | Х             | Х             | 1   |
| Treatment of male factor infertility   |     | Х   |      |     |     | х             | Х             | 1   |
| Anti-sperm anti-bodies and fertility   |     | х   |      |     |     | х             | Х             | 1   |
| Surgical treatment of male factor infertility  |     | х   |      |     |     | х             | Х             | 1   |
| Indications for, methods, results and complications of sperm retrieval   |     | х   |      |     |     | х             | Х             | 1   |
| Indications for, methods, results and complications of assisted conception   |     | х   |      |     |     | х             | Х             | 1   |
| Regulatory rules relating to sperm storage and assisted conception   |     | х   |      |     |     | х             | Х             | 1   |
| Microsurgical treatment of male factor infertility   |     | х   |      |     |     | х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Evaluation of the female   |     | х   |      |     |     | х             | Х             | 1   |
| Clinical assessment of the sub-fertile male  |     | х   |      |     |     | х             | Х             | 1   |
| Investigation of work outline  |     | х   |      |     | 1   | х             | х             | 1   |

| Treatment of male sub-fertility   | Х |   |   | х | Х | 1     |
|---|---|---|---|---|---|-------|
| Appropriate liaison with multidisciplinary team   | Х |   |   |   | Х | 1,2,3 |
| Empathetic assessment of fertility issues   | Х |   | Х |   | Х | 1     |
| Ability to determine appropriate surgical plan for male factor infertility                        | Х |   |   |   | Х | 1     |
| Treatment of male sub-fertility   | Х |   |   | х | Х | 1     |
| Appropriate liaison with multidisciplinary team and referral for assisted reproductive techniques | Х |   |   |   | Х | 1,2,3 |
| Empathetic assessment of fertility issues   | Х |   | Х |   | Х | 1     |
| Ability to determine appropriate surgical plan for male factor infertility                        | Х |   |   | х | Х | 1     |
| TECHNICAL SKILLS AND PROCEDURES   |   |   |   |   |   |       |
| Varicocoele   |   | Х |   |   |   | 1     |
| Testicular exploration and Vasography   |   | Х |   |   |   | 1     |
| Transurethral resection of ejaculatory ducts  |   | Х |   |   |   | 1     |
| Electroejaculation  |   | Х |   |   |   | 1     |
| Vaso-vasostomy  |   | Х |   |   |   | 1     |
| Testicular exploration and sperm extraction (TESE)  |   | Х |   |   |   | 1     |
| Percutaneous sperm extraction (PESA)  |   | Х |   |   |   | 1     |
| Micro-epidydmal sperm aspiration (MESA)   |   | Х |   |   |   | 1     |
| Tubulo-vasostomy  |   | Х |   |   |   | 1     |

| Modular curriculum in benign disorders of male sexual dysfunction: Basic Science  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with benign disease of male sexual dysfunction         |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Anatomy   |     |     |      |     |     |               |               |     |
| A detailed knowledge of the anatomy and embryology of the genitalia and reproductive system                                   |     | Х   |      |     |     | х             | х             | 1   |
| Knowledge of the vascular. lymphatic and nerve supply to the genitalia and reproductive system and abdominal/pelvic           |     |     |      |     |     |               |               |     |
| organs.   |     | Х   |      |     |     | х             | х             | 1   |
| Embryology of the male genitalia with particular emphasis on congenital anomalies and their effects on male sexual function.  |     | Х   |      |     |     | х             | х             | 1   |
| Micro/macroscopic anatomy of the reproductive system including their anatomical relationship to other genito-urinary          |     |     |      |     |     |               |               |     |
| organs  |     | Х   |      |     |     | х             | х             | 1   |
| Micro/macroscopic anatomy of the male genitalia   |     | Х   |      |     |     | х             | х             | 1   |
| Physiology  |     |     |      |     |     |               |               |     |
| Functional anatomy (blood supply and venous/lymphatic drainage of the penis)  |     | Х   |      |     |     | х             | х             | 1   |
| Physiology and neurophysiology of penile erection including neurotransmitters involved in penile erection                     |     | X   |      |     |     | x             | x             | 1   |
| Cardiovascular function relevant to sexual dysfunction  |     | Х   |      |     |     | х             | х             | 1   |
| Endocrinology of male sexual function (Hypothalamic-pituitary function, Endocrinology of the Testis, Testosterone             |     |     |      |     |     |               |               |     |
| metabolism)   |     | Х   |      |     |     | х             | Х             | 1   |
| Desire  |     | Х   |      |     |     | х             | x             | 1   |
| Orgasm  |     | X   |      |     |     | x             | X             | 1   |
| Physiology of ejaculation (Physiology of the vas deferens. Physiology of the seminal vesicles. Role of the prostate in sexual |     |     |      |     |     |               |               | _   |
| function)   |     | Х   |      |     |     | х             | Х             | 1   |
| Physiology of female sexual function  |     | Х   |      |     |     | х             | x             | 1   |
| Pharmacology  |     |     |      |     |     |               |               | _   |
| Neuropharmacology and receptor pharmacology   |     | Х   |      |     |     | х             | x             | 1   |
| Endothelial derived modulators of corporal smooth muscle  |     | X   |      |     |     | x             | x             | 1   |
| Oral pharmacotherapy for erectile dysfunction including basic pharmacokinetics and pharmacodynamics and adverse               |     |     |      |     |     |               |               |     |
| events/drug interactions of commonly used drugs   |     | Х   |      |     |     | Х             | Х             | 1   |
| Novel oral agents for the treatment of MED  |     | Х   |      |     |     | х             | х             | 1   |
| Intra-cavernosal, topical and intra-urethral treatments for MED   |     | X   |      |     |     | x             | x             | 1   |
| Pharmacological treatment of priapism   |     | X   |      |     |     | x             | X             | 1   |
| Pharmacological therapy of elaculator disorders   |     | X   |      |     |     | x             | X             | 1   |
| Testosterone replacement therapy  |     | Х   |      |     |     | х             | х             | 1   |
| Pathology   |     |     |      |     |     |               |               |     |
| Pathophysiology of Male Erectile Dysfunction (MED)  |     | Х   |      |     |     | х             | х             | 1   |
| Risk factors and aetiology of MED   |     | X   |      |     |     | x             | X             | 1   |
| Sexual function and ageing  |     | X   |      |     |     | x             | X             | 1   |
| Cardiovascular disease and sexual function  |     | Х   |      |     |     | х             | х             | 1   |
| Early ejaculation   |     | X   |      |     |     | x             | x             | 1   |
| Retrograde eiaculation  |     | X   |      |     |     | x             | x             | 1   |
| Delayed ejaculation   |     | X   |      |     |     | x             | X             | 1   |
| Hypogonadism  |     | X   |      |     |     | x             | X             | 1   |
| Androgen deficiency of ageing   |     | Х   |      |     |     | х             | х             | 1   |
| Pathophysiology of penile deformity   |     | X   |      |     |     | x             | x             | 1   |
| Pathophysiology of priapism   |     | X   |      |     |     | x             | x             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate assessment of man with erectile dysfunction .penile deformity or prolonged erection                               |     | Х   |      |     |     | x             | х             | 1   |
| Appropriate use of pharmacological agents for men with erectile dysfunction, priapism and ejaculatory dysfunction including   |     |     |      |     |     |               |               |     |
| indications, side effects, contraindications  |     | Х   |      |     |     | X             | х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| N/A   |     |     |      |     |     |               |               |     |

| Modular curriculum in Male Factor Infertility: Erectile dysfunction  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with benign disease of male sexual dysfunction      |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Investigation of MED including the use and limitations of Doppler USS, cavernosography, cavernosometry, neurophysiological |     | v   |      |     |     | Y             | Y             | 1   |
| testing and nocturnal penile tumescence  |     | X   |      |     |     | ×             | X             | 1   |
| Knowledge of range of therapies for treatment of MED   |     | Х   |      |     |     | Х             | Х             | 1   |
| Surgical management of man with erectile dysfunction   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Assessment of man with MED   |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate investigation of man with MED  |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate choice of pharmacological therapy  |     | Х   |      |     |     | Х             | Х             | 1   |
| Technique of intracavernosal injection therapy   |     | Х   |      |     |     | Х             | Х             | 1   |
| Empathetic assessment of male sexual difficulties  | Х   |     |      |     |     |               |               | 1   |
| Ability to determine appropriate surgical management of patient with drug resistant erectile dysfunction                   |     | Х   |      |     |     | X             | X             | 1   |

| TECHNICAL SKILLS AND PROCEDURES           |  |   |  |   |
|---|--|---|--|---|
| Ability to perform cavernosometry         |  | Х |  | 1 |
| Ability to perform Rigiscan assessment    |  | Х |  | 1 |
| Insertion of malleable penile prosthesis  |  | Х |  | 1 |
| Insertion of inflatable penile prosthesis |  | Х |  | 1 |
| Penile revascularisation                  |  | Х |  | 1 |
| Venous ligation                           |  | Х |  | 1 |

| Modular curriculum in Male Factor Infertility: Penile deformity   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with benign disease of male sexual dysfunction |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Causes and pathophysiology of penile deformity  |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of range of therapies   |     | Х   |      |     |     | Х             | Х             | 1   |
| Surgical management of man with penile deformity  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate assessment and medical management of man with penile deformity  |     | Х   |      |     |     | Х             | Х             | 1   |
| Empathetic assessment of male sexual difficulties   | Х   |     |      |     |     |               | Х             | 1   |
| Ability to determine choice of surgical approach for man with penile deformity  |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Nesbit's procedure  |     |     |      | Х   |     |               |               | 1   |
| Lue procedure or equivalent   |     |     |      | Х   |     |               |               | 1   |
| Insertion of malleable penile prosthesis  |     |     |      | Х   |     |               |               | 1   |
| Insertion of inflatable penile prosthesis   |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Male Factor Infertility: Prolonged erection   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with benign disease of male sexual dysfunction |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Causes, classification, pathophysiology and complication of prolonged erection  |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of range of therapies   |     | Х   |      |     |     | Х             | Х             | 1   |
| Surgical management of man with prolonged erection  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate assessment and medical management of man with prolonged erection  |     | Х   |      |     |     | Х             | Х             | 1   |
| Liaison with relevant specialties (eg interventional radiology)   |     | Х   |      |     |     | Х             | Х             | 1   |
| Ability to determine choice of surgical approach for man with prolonged erection                                      |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Insertion of malleable penile prosthesis  |     |     |      | Х   |     |               |               |     |
| Shunting procedure  |     |     |      | Х   |     |               |               |     |
| Insertion of inflatable penile prosthesis   |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Male Factor Infertility: Rapid Ejaculation, Retrograde ejaculation, Delayed ejaculation, Orgasmic disorders, Desire disorders | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with benign disease of male sexual dysfunction                               |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Causes and pathophysiology  |     | Х   |      |     |     | х             | Х             | 1   |
| Knowledge of range of therapies   |     | Х   |      |     |     | х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate investigation and management of man with rapid ejaculation  |     | Х   |      |     |     | х             | Х             | 1   |
| Appropriate liaison with other specialties  |     | Х   |      |     |     | х             | Х             | 1   |
| Empathetic assessment of male sexual difficulties   | Х   |     |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| N/A   |     |     |      |     |     |               |               |     |

| Modular curriculum in Male Factor Infertility: Penile dysmorphophobia   | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with benign disease of male sexual dysfunction |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Causes and classification   |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of range of therapies   |     | Х   |      |     |     | Х             | Х             | 1   |
| Surgical therapy of penile dysmorphophobia  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate investigation and management of man with penile dysmorphophobia   |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate liaison with other specialties  |     | Х   |      |     |     | Х             | Х             | 1   |
| Empathetic assessment of male sexual difficulties   | Х   |     |      |     |     |               |               | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Division of suspensory ligament   |     |     |      | Х   |     |               |               | 1   |
| Repair of suspensory ligament   |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Male Factor Infertility: Penile fracture  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of patients with benign disease of male sexual dysfunction |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Mechanisms of injury  |     | Х   |      |     |     | Х             | Х             | 1   |
| Knowledge of range of therapies   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate investigation and management of man with penile fracture  |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Surgical repair of penile fracture  |     |     |      | Х   |     |               |               |     |

| Modular curriculum in Paediatric Urology: Basic Science  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children                               |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Detailed knowledge of the pelvis, male genitalia and urethra including the embryology of urethra including hypospadias and |     | v   |      |     |     | v             | v             | 1   |
| epispadias   |     | ^   |      |     |     | ^             | ^             | 1   |

| Neuroanatomy as it relates to normal and abnormal bladder, urethral and pelvic floor function                  | Х |  | Х | Х | 1 |
|--|---|--|---|---|---|
| Physiology and neurophysiology of micturition and continence   | Х |  | Х | Х | 1 |
| Physiology of erection and ejaculation   | Х |  | Х | Х | 1 |
| Reproductive physiology  | Х |  | Х | Х | 1 |
| Pharmacology of drugs used in the management of lower urinary tract dysfunction side-effects and complications | Х |  | Х | Х | 1 |
| Causes, pathophysiology and complications of urethral strictures   | Х |  | Х | Х | 1 |
| Pathophysiology of traumatic injury to the urethra   | Х |  | х | Х | 1 |
| CLINICAL SKILLS  |   |  |   |   |   |
| Appropriate assessment of children with hypospadias and epispadias   | Х |  | х | Х | 1 |
| Appropriate use of commonly used drugs recognising common side effects, interactions and contra-indications    | Х |  | х | Х | 1 |
| TECHNICAL SKILLS AND PROCEDURES  |   |  |   |   |   |
| N/A  |   |  |   |   |   |

| Modular curriculum in Paediatric Urology: Congenital disorders affecting the urinary tract                | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children              |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Common congenital disorders affecting the urinary tract (e.g undescended testis and urinary tract reflux) |     | Х   |      |     |     | Х             | Х             | 1   |
| Changes related to congenital abnormalities   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Investigation and management of patients  |     | Х   |      |     |     | Х             | Х             | 1   |
| Investigation and basic management of patients  |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Surgical Management of cryptorchidism   |     | Х   |      |     |     | Х             | Х             | 1   |
| Surgery for ureteric reflux   |     | Х   |      |     |     | X             | X             | 1   |
| See below   |     |     |      |     |     |               |               |     |

| Modular curriculum in Paediatric Urology: Principles of human genetics                       | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Basic genetics of uropathological conditions   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Recognition of possible genetic component to specified condition                             | х   | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |

| Modular curriculum in Paediatric Urology: Urinary Tract Infections                           | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Biological mechanisms of upper and lower urinary tract infection – virulence                 |     | Х   |      |     |     | х             | х             | 1   |
| Host defence   |     | Х   |      |     |     | х             | х             | 1   |
| Detailed knowledge of reflux   |     | Х   |      |     |     | Х             | Х             | 1   |
| Antibiotics - Mechanisms of action   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Identification of:   |     |     |      |     |     |               |               |     |
| Significant infection  |     | Х   |      |     |     |               | Х             | 1   |
| Asymptomatic bacteruria  |     | Х   |      |     |     |               | Х             | 1   |
| Correct antibiotic selection   |     | Х   |      |     |     |               | Х             | 1   |
| Management of children   | Х   | Х   |      |     |     |               | Х             | 1   |
| Choice of surgical approach for vesicoureteric reflux  |     | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| Endoscopic treatment of reflux disease   |     |     |      | Х   |     |               |               | 1   |
| Open ureteric re-implantation  |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Paediatric Urology: The acute scrotum                                  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |

| Pathogenesis, natural history and complications |   | Х |   | Х | Х | 1   |
|---|---|---|---|---|---|-----|
| Clinical presentation and management            |   | Х |   | Х | Х | 1   |
| CLINICAL SKILLS                                 |   |   |   |   |   |     |
| Assessment of patient                           | Х | Х |   |   | Х | 1,3 |
| Correct interpretation of tests                 |   | Х |   |   | Х | 1   |
| Medical management of patient                   |   | Х |   |   | Х | 1   |
| TECHNICAL SKILLS AND PROCEDURES                 |   |   |   |   |   |     |
| Surgical management of the acute scrotum        |   |   | Х |   |   | 1   |

| Modular curriculum in Paediatric Urology: Upper urinary tract obstruction  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children                               |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Aetiology, pathophysiology and clinical features in childhood  |     | Х   |      |     |     | Х             | х             | 1   |
| Investigation  |     | Х   |      |     |     | Х             | х             | 1   |
| Formulation of appropriate management of children with Pelvi-ureteric junction obstruction (PUJ) obstruction               |     | Х   |      |     |     |               | х             | 1   |
| Indications, operative steps and complications of the different approaches to the treatment of PUJ obstruction, including: |     | Х   |      |     |     |               | х             | 1   |
| Percutaneous approaches  |     | Х   |      |     |     |               | х             | 1   |
| Laparoscopic approaches  |     | Х   |      |     |     |               | х             | 1   |
| Open surgical approaches   |     | Х   |      |     |     |               | х             | 1   |
| Practical expertise in the surgical management of PUJ obstruction  |     | Х   |      |     |     |               | х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Appropriate assessment of unilateral and bilateral renal obstruction   | Х   | Х   |      |     |     |               | х             | 1,3 |
| Recognition and early management of sepsis   | Х   | Х   |      |     |     |               | х             | 1,3 |
| Appropriate management of patient with PUJ obstruction   |     | Х   |      |     |     |               | х             | 1   |
| Interpretation of clinical findings and results of investigations  |     | Х   |      |     |     |               | х             | 1   |
| Ability to organise appropriate management plan  |     | Х   |      |     |     |               | Х             | 1   |

| Ability to explain procedures and outcomes to parents and obtain informed consent | Х | Х |   |  | Х | 1,3 |
|---|---|---|---|--|---|-----|
| Knowledge and appropriate use of treatment options                                |   | Х |   |  | Х | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |   |   |   |  |   |     |
| Percutaneous treatment of PUJ obstruction   |   |   | Х |  |   | 1   |
| Laparoscopic pyeloplasty  |   |   | Х |  |   | 1   |
| Laparoscopic nephrectomy  |   |   | Х |  |   | 1   |
| Open pyeloplasty  |   |   | Х |  |   | 1   |

| Modular curriculum in Paediatric Urology: Wilm's tumour and Neuroblastoma                            | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children         |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| TNM classification   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathology of the differing types of benign and malignant tumours affecting the kidney                |     | Х   |      |     |     | Х             | Х             | 1   |
| Current theories of tumour initiation and growth   |     | Х   |      |     |     | Х             | Х             | 1   |
| Thorough understanding of current and previous systems for staging                                   |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Appropriate use of stage, grade and molecular markers in the management of a child with renal cancer |     | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |

| Modular curriculum in Paediatric Urology: Radiology  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children       |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Understanding of the theoretical basis and techniques of radiological and nuclear medicine imaging |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Appropriate imaging of children with renal cancer  |     | Х   |      |     |     | Х             | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |

| Modular curriculum in Paediatric Urology: Treatment  | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Current standards of treatment for common urological cancers                                 |     | Х   |      |     |     | Х             | Х             | 1   |
| Practical treatment of localised renal cancer  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| High level/empathetic communication skills   | Х   |     |      |     |     |               | Х             | 1   |
| Appropriate management of urological malignancies  |     | Х   |      |     |     |               | Х             | 1   |
| Appropriate referral for sub-specialist management and surgery                               |     | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| Radical nephrectomy  |     |     |      | Х   |     |               |               | 1   |
| Laparoscopic nephrectomy   |     |     |      | Х   |     |               |               | 1   |

| Modular curriculum in Paediatric Urology: Urinary incontinence and neuropathic bladder To include spina bifida, | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| N/A   |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Anatomy/physiology and pharmacology of bladder and sphincter mechanisms   |     | Х   |      |     |     | Х             | Х             | 1   |
| Aetiology, epidemiology, pathophysiology and classification incontinence in childhood                           |     | Х   |      |     |     | Х             | Х             | 1   |
| Natural history of eneuresis  |     | Х   |      |     |     | Х             | Х             | 1   |
| Causes of neuropathic bladder   |     | Х   |      |     |     | Х             | Х             | 1   |
| Types of neuropathic bladder presentation   |     | Х   |      |     |     | Х             | Х             | 1   |
| Clinical presentation and differential diagnosis  |     | Х   |      |     |     | Х             | Х             | 1   |
| Management of neuropathic incontinence  |     | Х   |      |     |     | Х             | Х             | 1   |
| Clinical presentation and differential diagnosis  |     | Х   |      |     |     | Х             | Х             | 1   |
| Management of urinary incontinence  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate history and examination   | Х   |     |      |     |     |               | Х             | 1   |
| Investigation including Interpretation of frequency volume chart  |     | Х   |      |     |     | Х             | Х             | 1   |
| Appropriate liaison with multidisciplinary team (eg neurology and continence services)                          |     | Х   |      |     | Х   |               |               | 1   |
| Appropriate referral for sub-specialist management and surgery  |     | Х   |      |     |     |               | Х             | 1   |
| Formulation of a realistic treatment plan   |     | Х   |      |     |     |               | Х             | 1   |
| Medical management of urinary incontinence  |     | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Urodynamic studies  |     | Х   | Х    |     |     |               | X             |     |

| Modular curriculum in Paediatric Urology: Assessment of children requiring urinary tract reconstruction | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|---|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE   |     |     |      |     |     |               |               |     |
| To develop advanced skills in the assessment and treatment of urological disease in children            |     |     |      |     |     |               |               |     |
| KNOWLEDGE   |     |     |      |     |     |               |               |     |
| Practical surgical techniques in reconstruction of the bladder and ureter                               |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS   |     |     |      |     |     |               |               |     |
| Appropriate choice of surgical procedure for a child requiring reconstruction                           |     | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES   |     |     |      |     |     |               |               |     |
| Intestinal anastomosis  |     |     |      | Х   |     |               |               | 1   |
| Mobilisation omentum  |     |     |      | Х   |     |               |               | 1   |
| (exact level of competence will depend upon casemix):   |     |     |      |     |     |               |               |     |
| Ureteric anastomosis  |     |     |      | Х   |     |               |               | 1   |
| Ureteric reimplantation   |     |     |      | Х   |     |               |               | 1   |
| Psoas hitch   |     |     |      | Х   |     |               |               | 1   |
| Boari flap  |     |     |      | Х   |     |               |               | 1   |
| Transuretero-ureterostomy   |     |     |      | Х   |     |               |               | 1   |
| Simple cystectomy   |     |     |      | Х   |     |               |               | 1   |
| Augmentation cystoplasty  |     |     |      | Х   |     |               |               | 1   |
| Substitution cystoplasty  |     |     |      | Х   |     |               |               | 1   |

| Ileal conduit diversion                |  | Х |  | 1 |
|--|--|---|--|---|
| Continent urinary diversion            |  | Х |  | 1 |
| Artificial urinary sphincter insertion |  | Х |  | 1 |
| Vaginal reconstruction                 |  | Х |  | 1 |

| Modular curriculum in Paediatric Urology: Assessment and management of boys requiring urethral reconstruction      | CEX | CBD | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|-----|-----|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |     |     |      |     |     |               |               |     |
| N/A  |     |     |      |     |     |               |               |     |
| KNOWLEDGE  |     |     |      |     |     |               |               |     |
| Pathophysiology of congenital abnormalities including hypospadias and epispadias                                   |     | Х   |      |     |     | Х             | Х             | 1   |
| Causes, pathophysiology and complications of urethral strictures   |     | Х   |      |     |     | Х             | Х             | 1   |
| Pathophysiology of traumatic injury to the urethra   |     | Х   |      |     |     | Х             | Х             | 1   |
| Techniques of assessment for bladder and urinary tract reconstruction including urodynamics, radiology and nuclear |     | v   |      |     |     | v             | v             | 1   |
| medicine techniques  |     | ~   |      |     |     | ^             | ~             | T   |
| Techniques and complications of urethral reconstruction  |     | Х   |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |     |     |      |     |     |               |               |     |
| Appropriate assessment of patients requiring urethral  | Х   | Х   |      |     |     |               | Х             | 1,3 |
| Be able to advise on the surgical options and the appropriateness of surgery                                       | Х   | Х   |      |     |     |               | Х             | 1,3 |
| Management of post-operative consequences of urethral reconstruction   |     | Х   |      |     |     |               | Х             | 1   |
| Arrange appropriate follow up of boys with urethral reconstruction   |     | Х   |      |     |     |               | Х             | 1   |
| Liaison with other specialties e.g. radiology, orthopaedics, GI surgeons   |     | Х   |      |     |     |               | Х             | 1   |
| Appropriate choice of surgical procedure for child with hypospadias  |     | Х   |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |     |     |      |     |     |               |               |     |
| MAGPI repair   |     |     |      | Х   |     |               |               |     |
| Harvesting buccal mucosa graft   |     |     |      | Х   |     |               |               |     |
| Snodgrass repair   |     |     |      | Х   |     |               |               |     |
| Two stage buccal graft urethroplasty   |     |     |      | Х   |     |               |               |     |
| Surgery for epispadias   |     |     |      | Х   |     |               |               |     |

| Modular Curriculum in Renal Transplantation: Renal Transplantation   | CEX    | CBD    | DOPS | PBA | MSF | ISB Section 1 | ISB Section 2 | GMP |
|--|--------|--------|------|-----|-----|---------------|---------------|-----|
| OBJECTIVE  |        |        |      |     |     |               |               |     |
| To develop advanced skills in renal transplantation and surgical aspects of renal replacement therapy                    |        |        |      |     |     |               |               |     |
| KNOWLEDGE  |        |        |      |     |     |               |               |     |
| Anatomy  |        |        |      |     |     |               |               |     |
| Anatomy<br>Petroperitency and the great vessels  |        | v      |      |     |     | v             | v             | 1   |
| Embryology of the genitouring treat including development of the kidney and the common variations in vascular supply to  |        | ^      |      |     |     | ^             | ^             | -   |
| Empryology of the genitournary tract including development of the kidney and the common variations in vascular supply to |        | Х      |      |     |     | х             | х             | 1   |
| the kidney   |        |        |      |     |     |               |               |     |
| Anatomy and blood supply of the kidney, ureter and bladder   |        | X      |      |     |     | X             | X             | 1   |
| Neuroanatomy as it relates to normal and abnormal bladder, urethral and pelvic floor function                            |        | Х      |      |     |     | X             | X             | 1   |
| Arterial supply and venous drainage of the upper and lower limbs   |        | Х      |      |     |     | Х             | Х             | 1   |
| Physiology   |        |        |      |     |     |               |               |     |
| Physiology of the kidney   |        | Х      |      |     |     | Х             | Х             | 1   |
| Physiology of fluid balance  |        | Х      |      |     |     | Х             | Х             | 1   |
| Physiology of the lower urinary tract  |        | Х      |      |     |     | Х             | Х             | 1   |
| Pharmacology   |        |        |      |     |     |               |               |     |
| Pharmacology of drugs used in immunosuppression  |        | Х      |      |     |     | Х             | Х             | 1   |
| Pharmacology of perfusion fluids and use of diuretics  |        | Х      |      |     |     | Х             | Х             | 1   |
| Pharmacology of inotropes and blood pressure control and effects of drugs on renal blood flow                            |        | Х      |      |     |     | Х             | Х             | 1   |
| Immunology   |        |        |      |     |     |               |               |     |
| HLA matching.  |        | Х      |      |     |     | х             | х             | 1   |
| Cytotoxic cross match  |        | X      |      |     |     | X             | x             | 1   |
| Rejection  |        | x      |      |     |     | x             | x             | 1   |
|  |        | ×      |      |     |     | ×             | X             | 1   |
| Renal failure  |        | ^      |      |     |     | ^             | ^             | 1   |
|  |        | V      |      |     |     | v             | N N           | 1   |
|  |        | X      |      |     |     | X             | X             | 1   |
| Pathophysiology  |        | X      |      |     |     | X             | X             | 1   |
| Clinical features  |        | Х      |      |     |     | X             | X             | 1   |
| Treatment options for renal failure  |        | Х      |      |     |     | X             | X             | 1   |
| Indications and contraindications for kidney transplantation   |        | Х      |      |     |     | Х             | Х             | 1   |
| Indications and types of dialysis  |        | Х      |      |     |     | Х             | Х             | 1   |
| Access for dialysis  |        | Х      |      |     |     | Х             | Х             | 1   |
| complications of dialysis  |        | Х      |      |     |     | Х             | Х             | 1   |
| Organ donation   |        |        |      |     |     |               |               |     |
| Criteria for brainstem death   |        | Х      |      |     |     | Х             | Х             | 1   |
| Pathophysiology of brainstem death   |        | Х      |      |     |     | Х             | Х             | 1   |
| Principles of donor management and organ preservation  |        | Х      |      |     |     | Х             | Х             | 1   |
| CLINICAL SKILLS  |        |        |      |     |     |               |               |     |
| Assess and manage organ donors (including live and NHB donors)   | х      | Х      |      |     |     |               | Х             | 1,3 |
| Vascular Access  |        |        |      |     |     |               |               |     |
| Assess patients referred for vascular access:  |        |        |      |     |     |               |               |     |
| Identify appropriate access site   | х      | Х      |      |     |     |               | х             | 1   |
| Manage complications including thrombosis baemorrhage and vascular complications such as steal, venous hypertension      | ~      |        |      |     |     |               |               | _   |
| cardiac failure and aneurysm   | х      | Х      |      |     |     |               | х             | 1   |
|  |        |        |      |     |     |               |               |     |
| Assass nationts referred for paritoneal dialysis   | v      | v      |      |     |     |               | v             | 1   |
| Assess patients relefied for peritorieal dialysis  | ^<br>V | N<br>V |      |     |     |               | X             | 1   |
| ivianage post-op care of patients with peritoneal dialysis catheter  | ^<br>  | х<br>У |      |     |     |               | ×             | 1   |
| manage complications including peritonitis   | X      | Х      |      |     |     |               | X             | 1   |
| Renal transplantation  |        |        |      |     |     |               |               |     |
| Select appropriate patient from the waiting list   | Х      | Х      |      |     |     |               | X             | 1   |
| Assessment of patients requiring renal transplantation or renal replacement therapy                                      | Х      | Х      |      |     |     |               | X             | 1   |
| Counsel patients regarding organ donation  | Х      | Х      |      |     |     |               | Х             | 1   |
| Manage transplant recipient perioperatively  | Х      | Х      |      |     |     |               | Х             | 1   |
| Manage post-operative complications  | Х      | Х      |      |     |     |               | х             | 1   |
| Follow up of patients with renal transplants   | Х      | Х      |      |     |     |               | Х             | 1   |
| Liaison with other specialties e.g. nephrology and radiology   | Х      | Х      |      |     |     |               | Х             | 1   |
| TECHNICAL SKILLS AND PROCEDURES  |        |        |      |     |     |               |               |     |
| Peritoneal dialysis catheter-insert  |        |        | Х    |     |     |               |               | 1   |
| Peritoneal dialysis catheter-removal   |        |        | Х    |     |     |               |               | 1   |

| Central venous line insertion                                       |  | Х |   |  | 1 |
|---|--|---|---|--|---|
| Form arterio-venous fistula at wrist and elbow                      |  |   | Х |  | 1 |
| Ligate arterio-venous fistula at wrist and elbow                    |  |   | Х |  | 1 |
| Cadaveric donor nephrectomy for transplantation                     |  |   | Х |  | 1 |
| Open donor nephrectomy for transplantation                          |  |   | Х |  | 1 |
| Laparoscopic donor nephrectomy for transplantation                  |  |   | Х |  | 1 |
| Renal transplantation including:                                    |  |   | Х |  | 1 |
| Preparation of kidney for transplant                                |  |   | Х |  | 1 |
| End to end and end to side anastomosis of renal artery to recipient |  |   | Х |  | 1 |
| End to side venous anastomosis and vein patch                       |  |   | Х |  | 1 |
| Ureteric reimplantation   |  |   | Х |  | 1 |
| Transplant nephrectomy  |  |   | Х |  | 1 |