



Key:

Common competency framework competencies Medical leadership framework competencies Health inequality framework competencies

**Reproductive Medicine as approved by GMC on 5 June 2015
Module 1: Female Reproductive Endocrinology**

Learning outcomes:

- To understand and demonstrate appropriate knowledge, skills and attitudes in relation to female reproductive endocrinology

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
1a: FEMALE ENDOCRINOLOGY							
Endocrinological measurement of hormones in biological fluids for evaluation of the various endocrine systems (Appendix 1a.1) Neuroendocrine anatomy and physiology Hypothalamic–pituitary dysfunction: <ul style="list-style-type: none"> Hypogonadotropic hypogonadism Kallman syndrome Pituitary adenoma Hyperprolactinaemia Disorders of growth hormone Adrenal dysfunction: <ul style="list-style-type: none"> Cushing syndrome Addison’s disease Adrenal hyperplasia Thyroid disorders Polycystic ovary syndrome and disorders of androgen secretion (Appendix 1a.2)	1	Take a history and perform an appropriate examination Perform and interpret dynamic endocrinological testing Discuss the diagnosis of causes of anovulation, such as syndromes of inappropriate prolactin secretion, central nervous system-hypothalamic-pituitary Be able to use ultrasound as diagnostic tool; e.g. PCOS	1,2,3,4	Ability to counsel patients sensitively about disease processes and impact on future fertility and long-term health Ability to formulate management plan related to endocrinological findings Ability to implement plan of management and modify if necessary Ability to liaise effectively with colleagues in other disciplines, clinical and non-clinical Ability to counsel patients sensitively about options available Ability to explain openly treatments, complications and adverse effects of treatment	1,3,4	Reproductive endocrine clinic attendance General adult endocrine clinic attendance	Logbook of competence and experience Preceptor assessment of knowledge Mini-CEX Case-based discussions



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Module 1a Logbook: Female Endocrinology	Competence level						Not required <input type="checkbox"/>
	Level 1		Level 2		Level 3		
	Date	Signature	Date	Signature	Date	Signature	
Anatomy and physiology							
Neuroendocrine anatomy and physiology							
Screening							
Pituitary magnetic resonance imaging (MRI) / or computed tomography (CT)							
Pelvic MRI/CT							
Abdominal CT							
Hypothalamic–pituitary disorders							
Hypogonadotropic hypogonadism							
Hypothalamic disorders							
Anorexia nervosa/exercise and lifestyle-related disorders							
Pituitary adenoma							



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Module 1a Logbook: Female Endocrinology	Competence level						Not required <input type="checkbox"/>
	Level 1		Level 2		Level 3		
	Date	Signature	Date	Signature	Date	Signature	
Kallman syndrome							
Hyperprolactinaemia							
Adrenal dysfunction							
Cushing syndrome							
Addison's disease							
Congenital adrenal hyperplasia							
Thyroid disorders							



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Appendix 1a.1

Neuroendocrine function: central nervous system, hypothalamic–pituitary system:

- Anatomical and functional aspects of the hypothalamus, neurovascular relationships, hypothalamo-hypophyseal portal circulation and target cells of the pituitary
- Suprahypothalamic structures and neuronal systems relevant to regulation of reproductive processes
- Site of production, biological action and control of secretion of oxytocin, vasopressins and neurophysins
- Biochemical basis of neuroendocrine action of neuropharmacology of agonists and antagonists
- Pineal gland
- Blood–brain barrier
- Sex steroid-concentrating neurones
- Distribution and cellular characteristics of pituitary hormone-producing cells with special reference to gonadotrophe and lactotrophe
- Anatomical and functional aspects of the peptidergic and catecholaminergic system and their control of the pituitary hormone secretion
- Structure and function of pituitary reproductive hormones and neuropeptides
- Control of secretory activities of the pituitary hormones, including long- and short-term rhythms and their target organs and feedback systems
- Neuroendocrine regulation of the menstrual cycle
- Neuroendocrine function of the fetus and placenta
- Hypothalamic and pituitary hypopituitarism and disorders of over secretion of pituitary hormones
- Organic lesions and/or functional disorders of the hypothalamic–pituitary system
- Ectopic hormone syndromes

Thyroid function and disease states:

- thyrotrophin-releasing hormone, thyroid-stimulating hormone, thyroid physiology
- Diagnostic value of thyroid-stimulating hormone, thyroid hormones total and free, thyroid-stimulating immunoglobulins and related diagnostic tests
- Biosynthesis, control and metabolism of thyroid hormones
- Clinical and pathophysiological correlates of hypo- and hyperthyroidism, particularly as related to menstrual disorders and fertility
- Pregnancy- and hormone-induced changes of thyroid function in the mother and the effect of abnormal maternal thyroid function on the fetus
- Thyroid physiology in the newborn and identification of cases at high risk of neonatal thyrotoxicosis
- Effects of thyroid replacement and anti-thyroid drug therapy on the fetus
- Pathophysiology of thyroiditis
- Thyroid function in struma ovarii, molar pregnancy and choriocarcinoma
- Medical and surgical management of non-toxic goitre, hypo- and hyperthyroidism

Adrenal function and disease states:

- Regulation and secretion of adrenocortical hormones
- Clinical and laboratory assessment of adrenocortical function
- Pharmacology of naturally occurring and synthetic glucocorticoids and mineralocorticoids
- Adrenocortical hypo- and hyperactivity (e.g. Cushing hyperplasia, adenoma, carcinoma)
- Congenital adrenal hyperplasia (see module 1C)



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- Effects of aberrations of adrenocortical function on hypothalamopituitary-ovarian function
- Aldosterone and disorders of the rennin–angiotensin system
- Catecholamine disorders

Appendix 1a.2

Androgen disorders:

- Production, physiology and metabolism of androgens in normal women
- Mechanisms of action of androgens
- Symptoms and signs of androgen excess together with any causes based on pathophysiology of androgen excess
- Physiology of normal and abnormal hair growth
- Ovarian tumours, benign and malignant, which secrete androgens
- Benign stromal changes in the ovary which may result in increased androgen production
- Relate PCOS to abnormal hormone production
- Androgen-resistant states
- Congenital and acquired adrenal hyperplasia in terms of aetiology, genital morphology, general metabolic effects and differentiate action and treatment
- Management of androgen excess and of hirsutism
- Pharmacology of anti-androgens

Appendix 1a.3

Endocrinology of pregnancy:

- Fetoplacental unit: physiology and pathophysiology of steroid hormones (e.g. oestrogen, progesterone, corticosteroids)
- Physiology of decidua-chorionic-placental peptide hormones (e.g. gonadotrophins, somatomammotrophin, thyrotrophin, adrenocorticotrophic hormone/opioid peptides and prolactin)
- Initiation of parturition, including physiology, pathophysiology and pharmacology of prostaglandins
- Physiology of fetal adrenal gland
- Endocrine and cytokine pathophysiology of pre-eclampsia and eclampsia
- Pathophysiology of altered maternal thyroid, adrenal and pancreatic status during pregnancy



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
1b: THE OVARY AND POLYCYSTIC OVARY SYNDROME							
<p>Ovarian anatomy, physiology, pathophysiology and endocrinology (see Appendix 1b.1)</p> <p>Diagnosis of polycystic ovary syndrome (PCOS):</p> <ul style="list-style-type: none"> • Imaging of PCOS • Management of anovulation • Management of hyperandrogenism (hirsutism, acne, alopecia) • Management of obesity, including an understanding of long-term health risks, metabolic effects and cancer risks <p>Management of ovulation induction in PCOS:</p> <ul style="list-style-type: none"> • Dietary advice • Anti-oestrogens • Gonadotrophin therapy • Aromatase inhibitors <p>Ovarian diathermy</p>	1	<p>Take a history and undertake appropriate clinical examination</p> <p>Organise the appropriate endocrine investigation of disordered ovulation</p> <p>Select and manage treatment for PCOS through full engagement with patient</p> <p>Prescribe and monitor response to anti-oestrogens and gonadotrophin ovulation induction</p> <p>Perform laparoscopic ovarian diathermy in the management of polycystic ovaries</p> <p>Organise appropriate investigations of impaired glucose tolerance and discuss the use of insulin-lowering drugs</p> <p>Request and manage results of screening tests for hypercholesterolaemia</p> <p>Medical management of hyperandrogenism</p> <p>Ultrasound - ovarian morphology</p>	1, 2, 3, 4	<p>Ability to counsel patients sensitively about disease process</p> <p>Ability to formulate management plan related to pathological findings</p> <p>Ability to implement plan of management and modify if necessary</p> <p>Ability to liaise effectively with colleagues in other disciplines, clinical and non-clinical</p> <p>Ability to counsel patients sensitively about options available</p> <p>Ability to explain clearly and openly about treatments, complications and adverse effects of medical and surgical treatment</p>	1,3,4	<p>Appropriate Laparoscopic skills course</p> <p>Reproductive endocrine clinic attendance</p>	<p>Logbook of competence and experience</p> <p>Preceptor assessment of knowledge</p> <p>Mini-CEX</p> <p>Case-based discussions</p>

Module 1b Logbook: The ovary and polycystic ovarian syndrome	Competence level			Not required <input type="checkbox"/>
	Level 1	Level 2	Level 3	



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	Date	Signature	Date	Signature	Date	Signature
Ovary and polycystic ovary syndrome (PCOS)						
Diagnosis of PCOS						
Ultrasound imaging of polycystic ovaries						
Management of obesity						
Dietary and lifestyle support						
Management of anovulation/oligo-ovulation						
Ovulation induction in PCOS						
Anti-oestrogens						
Gonadotrophin therapy						
Ovarian diathermy						
Aromatase inhibitors						
Management of hyperandrogenism (hirsutism/acne/alopecia) including counselling on efficacy of pharmacological and non-pharmacological treatments						



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Appendix 1a.1

Ovarian function and disease states:

- Cyclic changes in endocrine activities within the ovary
- Synthesis and secretion of hormone substances by the various compartments and cell types of the ovary; intra- and extraovarian control mechanisms
- Mechanism of protein/steroid hormone action in the ovary
- Regulation of hormone receptors
- Atresia and selection of the dominant follicle.
- Luteolysis
- Hormone-producing tumours of the ovary
- Ovarian activity during gestation
- Age-related changes in ovarian structure and function
- Clinical and pathophysiological correlates of disorders of the human ovary (structure and function)

Ovarian pathology:

- Gross and microscopic findings: describe natural history of ovarian tumours in relation to reproductive function (e.g. follicular cysts, luteoma, corpus luteum, polycystic ovary syndrome, endometrioma, granulosa-theca cell tumour, Sertoli-Leydig cell tumour, gynandroblastoma, cystic teratoma, dysgerminoma, gonadoblastoma and mixed germ cell or gonadal tumours)
- Different compartments of the Graafian follicle (e.g. granulosa cells, theca and adjacent stroma) and the primordial, preantral, antral and Graafian follicles, including the dynamic changes which occur in the ovary from embryo to menopause
- Specific staining techniques and cellular ultrastructure as related to function
- Gross and microscopic findings and the development of gonadal structures found in various forms of gonadal dysgenesis and disorders of sexual development

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
1c: PAEDIATRIC AND ADOLESCENT GYNAECOLOGY							
Embryology: development of embryo and abnormalities which will have an influence on reproduction, in particular development of genital tract	1	Take a history and perform an appropriate clinical examination Organise appropriate endocrine and radiological	1,2,3,4	Ability to counsel patients and parents/carer/guardian sensitively about disease process and explain condition, issues regarding future fertility, hormonal implications and gender identity.	1,3,4	Reproductive endocrine clinic attendance	Logbook of competence and experience Preceptor assessment of



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<p>Factors controlling male and female development of the gonadal primordia, internal duct system and external genitalia</p> <p>Developmental abnormalities of the genital tract, including ambiguous genitalia, imperforate hymen and vaginal septa, uterine anomalies, müllerian and Wolffian dysgenesis, Rokitansky syndrome and gonadal dysgenesis</p> <p>Embryology of hypothalamic–pituitary and other pertinent endocrine systems</p> <p>Developmental disorders (Appendix 1c.1):</p> <ul style="list-style-type: none"> • Ambiguous genitalia • Disorders of sexual development • Complete androgen insensitivity syndrome • Endocrine disturbance • Precocious puberty • Delayed puberty • Congenital Adrenal hyperplasia <p>Surgical management:</p> <ul style="list-style-type: none"> • Developmental disorders • Ambiguous genitalia • Disorders of sexual development • Awareness of patient support networks 		<p>investigations</p> <p>Select and manage appropriate treatment for PCOS</p> <p>Organise appropriate investigations of impaired glucose tolerance and discuss the use of insulin-lowering drugs</p> <p>Management of hyperandrogenism</p>		<p>Ability to be sensitively address adolescents concerns about sexuality and/or sexual functioning</p> <p>Ability to formulate a management plan related to pathological findings</p> <p>Ability to implement a plan of management and modify if necessary</p> <p>Ability to liaise effectively with colleagues in other disciplines, clinical and non-clinical</p> <p>Ability to counsel patients and parents / carer / guardians sensitively about options available and to invite patient and parents opinion.</p> <p>Ability to explain clearly and openly treatments, complications and adverse effects of medical and surgical treatment</p> <p>Ability to explain openly about treatments, complications and adverse effects of treatment</p> <p>Ability to ascertain patient’s and parents’/carer’s / guardian’s understanding of the condition by listening and requesting them to articulate their understanding</p>		<p>Attendance at paediatric / adolescent gynaecology clinics</p> <p>Observation of surgical procedures</p> <p>Multidisciplinary input</p>	<p>knowledge</p> <p>Mini-CEX</p> <p>Case-based discussions</p>

Module 1c Logbook: Paediatric and Adolescent Gynaecology	Competence level			Not required <input type="checkbox"/>
	Level 1	Level 2	Level 3	



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	Date	Signature	Date	Signature	Date	Signature
Developmental disorders						
Normal growth and development/ambiguous genitalia/genital anomalies						
Disorders of sexual development/Turner syndrome						
Endocrine disturbance						
Precocious puberty						
Delayed puberty						
Late-onset congenital adrenal hyperplasia						
Primary amenorrhoea						
Management of survivors of childhood cancer and experience of multidisciplinary team working including oncology, paediatric oncology and medical genetics.						

Appendix 1c.1

Normal sequence of pubertal changes in the female and male and their chronology



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Effects of hormones on bone growth and epiphyseal closure

Hormonal changes and gametogenesis relative to the reproductive cycle from intrauterine life to the development of normal reproductive cycles (e.g., gonadotrophin secretion in the fetus and the neonate, sensitivity of the feedback system during fetal and neonatal life and childhood; role of adrenal androgens)

Delayed puberty, indicating the differential diagnosis evaluation and appropriate therapy

Sexual precocity, indicating the differential diagnosis, evaluation and appropriate therapy

Developmental disorders, including those of:

- vagina: vaginal reconstruction by dilatation or surgery
- uterus: knowledge of müllerian anomalies with obstruction of drainage

Ambiguous genitalia, including involvement in the assignment of sex of rearing for an infant with ambiguous genitalia, techniques for surgical construction of unambiguous functioning female external genitalia and vagina (e.g. vaginoplasty, clitoridectomy and clitoral resection), indications and laparoscopic techniques for gonadectomy

Embryonic development of the genital tract, including the factors controlling male and female development of the gonadal primordia, internal duct system and external genitalia

Diagnosis and management of patients with developmental abnormalities of the genital tract, including ambiguous genitalia, imperforate hymen and vaginal septa, uterine anomalies, müllerian agenesis and gonadal dysgenesis

Embryology of the hypothalamic–pituitary and other pertinent endocrine systems

Embryology of the urological system



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
1d: CONTRACEPTION AND TERMINATION							
Effectiveness of fertility control Awareness of religious or cultural beliefs and medical conditions relevant when considering fertility control Pharmacology of drugs used Risks and complication of methods used Reasons for unplanned pregnancy	1	Take a history in relation to: <ul style="list-style-type: none"> Contraceptive techniques Unwanted pregnancy Counsel about: <ul style="list-style-type: none"> Contraception Sterilisation 	1,3,4	Ability to counsel patients sensitively about options available Ability to understand issues of consent in the patient under the age of 16 years Ability to respect patient's confidentiality Ability to explain clearly and openly about treatments, complications and side effects of drug treatment Ability to formulate and implement a plan of management and modify if necessary	1,3,4	Task-specific on-the-job training Personal study Appropriate postgraduate education courses Tailored clinical experience: <ul style="list-style-type: none"> Family planning course Family planning sessions 	Preceptor assessment of knowledge Mini-CEX Case-based discussions

Module 1d: Contraception and termination of pregnancy	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Contraceptive counselling							



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Module 1d: Contraception and termination of pregnancy	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Combined oral contraceptive pill							
Progesterone-only pill							
Depot							
Implants							
Intrauterine contraceptive devices (including copper and levonorgestrel based systems)							

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
1e: MENOPAUSE AND PREMATURE MENOPAUSE							
Management of the post-menopausal woman:	1	A rational diagnostic and therapeutic approach to patients with amenorrhoea	1,3,4	Ability to counsel patients sensitively about the options available	1,3,4	Task-specific on-the-job training	Preceptor assessment of knowledge



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<ul style="list-style-type: none"> Choice of hormone replacement therapy (HRT) Non-hormonal methods including lifestyle and dietary advice Adverse effects and risks of HRT <p>Interpretation of tests used to evaluate amenorrhoea</p> <p>A rational diagnostic and therapeutic approach to patients with amenorrhoea</p> <p>Premature menopause:</p> <ul style="list-style-type: none"> Causes of premature ovarian failure, congenital endocrine disorders (e.g. Turner syndrome, complete androgen insensitivity syndrome, ovarian agenesis, polyglandular endocrinopathy and fragile X syndrome) and acquired (e.g. post-surgery, chemo/radiotherapy) Treatment options for young women with ovarian failure, with particular regard to future fertility Advantages and disadvantages, risks and benefits of HRT 		<p>Liaison with fertility services</p> <p>Immunological investigations</p> <p>Counselling</p> <p>Interpretation of dual-energy X-ray absorptiometry bone scans</p>		<p>Ability to respect patient confidentiality</p> <p>Ability to explain clearly and openly about treatments, complications and adverse effects of drug treatment</p> <p>Ability to formulate and implement a plan of management and modify if necessary</p> <p>Ability to discuss impact on future fertility and advise on hormone replacement</p> <p>Ability to liaise effectively with colleagues in other disciplines, clinical and non-clinical</p>		<p>Personal study</p> <p>Appropriate postgraduate education courses</p> <p>Tailored clinical experience, e.g. premature menopause clinic attendance</p> <p>Appropriate meetings</p>	Mini-CEX

Module 1e Logbook: Menopause and premature ovarian failure	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	



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Module 1e Logbook: Menopause and premature ovarian failure	Competence level						Not required <input type="checkbox"/>
	Level 1		Level 2		Level 3		
	Date	Signature	Date	Signature	Date	Signature	
Management of menopause							
Management of the postmenopausal woman							
Choice of hormone replacement therapy (HRT)							
Adverse effects and risks of HRT							
Management of premature ovarian failure							
Endocrine assessment							
Fertility management							
Immunological investigation							
Counselling and referral for formal psychological or psychosexual counselling							
HRT therapy							
Dual energy X-ray absorptiometry bone scanning							



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Training Courses or sessions		
Title	Signature of educational supervisor	Date

Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer



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Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer

COMPLETION OF MODULE 1		
I confirm that all components of the module have been successfully completed:		
Date	Name of subspecialty training programme supervisor	Signature of subspecialty training programme supervisor



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Module 2: Endometriosis

Learning outcomes:

- To understand the diagnosis, management and treatment of patients with endometriosis

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<p>Pathogenesis and aetiology of endometriosis</p> <p>Mechanisms by which minimal and mild endometriosis may impair fertility, e.g. defective folliculogenesis, ovulatory dysfunction, hyperprolactinaemia, autoimmune disorders, disturbances in the peritoneal fluid environment.</p> <p>Diagnosis, staging/grading of disease and prognosis</p> <p>Place of expectant management, medical and surgical treatment in the management of endometriosis</p> <p>Role, possible benefits and potential adverse effects of pharmacological agents, e.g. oral contraceptives, progestogens, danazol, gestrinone, gonadotrophin-releasing hormone (GnRH) analogues, in the management of endometriosis</p> <p>Place of assisted reproduction in the management of endometriosis</p> <p>Symptoms</p> <ul style="list-style-type: none"> Investigations <ul style="list-style-type: none"> ultrasound / computed tomography/ magnetic resonance imaging Pelvic MRI/CT Serum CA125 measurement <p>Effects on fertility</p> <p>Multidisciplinary pain Management</p>	1	<p>Ultrasound assessment of pelvis</p> <p>Surgical management:</p> <ul style="list-style-type: none"> Diathermy to superficial disease Excision of endometriosis Removal of endometriomas Treatment of rectovaginal disease <p>Medical management:</p> <p>Pharmacological Therapies</p> <ul style="list-style-type: none"> Progestogen therapy, including Intra-Uterine System Combined oral contraceptive pill GnRH analogues Danazol <p>Non-pharmacological Therapies:</p> <ul style="list-style-type: none"> Specialist Pain Management Services Psychological Support 	1,2	<p>Ability to counsel patients sensitively about the options available</p> <p>Ability to respect patient confidentiality</p> <p>Ability to explain clearly and openly about treatments, complications and adverse effects of drug treatment</p> <p>Ability to formulate and implement plan of management and modify if necessary</p> <p>Ability to liaise effectively with colleagues in other disciplines, clinical and non-clinical, e.g. colorectal surgeons, chronic pain team and radiologists</p>	1,3,4	<p>Task specific in service training</p> <p>Personal study</p> <p>Appropriate postgraduate education courses</p> <p>Tailored clinical experience, e.g. pain clinic</p> <p>Endometriosis clinic Attendance</p> <p>Multi-disciplinary team attendance</p>	<p>Mini-CEX</p> <p>Preceptor assessment of knowledge</p>



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Module 2 Logbook: Endometriosis	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Diagnosis							
Focused physical examination for endometriosis							
Investigations							
Serum CA125 measurement							
Radiological investigation – ultrasound and MRI							
Laparoscopy							
Management							
Counselling on effects on fertility and the role of assisted conception							
Surgical management							
Ability to decide appropriate role of surgical intervention							
Destruction of superficial disease							
Excision of deep disease							



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Module 2 Logbook: Endometriosis	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Excision/ Ablation of endometriomas							
Hysterectomy for severe endometriosis							
Medical management							
Ability to decide appropriate role of medical intervention							
Combined oral contraceptive pill							
GnRH analogues ± addback therapy							
Danazol							
Other aspects							
Assisted Conception							
Multidisciplinary pain management							
General advice including dietary, lifestyle and psychological advice							



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Training Courses or sessions		
Title	Signature of educational supervisor	Date

Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer



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Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer

COMPLETION OF MODULE 2		
I confirm that all components of the module have been successfully completed:		
Date	Name of subspecialty training programme supervisor	Signature of subspecialty training programme supervisor



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Module 3: Reproductive Surgery

Learning outcomes:

- To achieve surgical skills appropriate for a subspecialist in reproductive surgery

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<p>Anatomical systems in relation to human reproduction (Appendix 3.1)</p> <p>Role of endoscopic and open surgery in the treatment of fertility-related conditions, e.g. fibroids, endometriosis, hydrosalpinges and tubal disease</p> <p>Sterilisation reversal</p>	1	<p>Laparoscopic surgery:</p> <ul style="list-style-type: none"> Diagnostic laparoscopy Treatment of minimal/mild endometriosis Treatment of ovarian endometrioma Treatment of ovarian dermoid Division of adhesions Salpingectomy for hydrosalpinx Salpingostomy Salpingectomy for ectopic pregnancy Salpingostomy for ectopic pregnancy Laparoscopic myomectomy Ovarian diathermy <p>Hysteroscopic surgery:</p> <ul style="list-style-type: none"> Diagnostic hysteroscopy Outpatient hysteroscopy Resection of fibroid Resection of polyp Division of septum Division of adhesions <p>Open fertility surgery:</p> <ul style="list-style-type: none"> Myomectomy <p>Other surgery:</p> <ul style="list-style-type: none"> Excision of vaginal septum Imperforate hymen Excision of rudimentary horn of uterus (laparoscopic resection) Hysterectomy for severe endometriosis. Percutaneous epididymal sperm aspiration Microsurgical epididymal sperm aspiration Open testicular biopsy 	1,2	<p>Ability to counsel patients sensitively about reproductive surgery options available and their benefits, risks, success rates, patient’s expectations of treatment and limitations of treatments</p> <p>Ability to respect patient confidentiality</p> <p>Ability to explain clearly and openly about treatments, complications and side effects of surgery</p> <p>Ability to formulate and implement plan of management and modify if necessary</p> <p>Ability to liaise effectively with colleagues in other disciplines, clinical and non-clinical</p>	1,3,4	<p>Task-specific on-the job training</p> <p>Personal study</p> <p>Appropriate postgraduate education courses</p> <p>Tailored clinical experience, e.g. pain clinic</p> <p>Laparoscopic surgery course</p> <p>Hysteroscopic surgery course</p>	<p>OSATS</p> <p>Case-based discussion</p> <p>Preceptor assessment of knowledge</p>



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Module 3 Logbook: Reproductive Surgery	Competence level						Not required <input type="checkbox"/>
	Level 1		Level 2		Level 3		
	Date	Signature	Date	Signature	Date	Signature	
Laparoscopic surgery							
Treatment of minimal/mild endometriosis							
Ovarian diathermy							
Treatment of ovarian endometrioma							
Treatment of ovarian dermoid							
Division of adhesions							
Salpingectomy for hydrosalpinx							
Salpingostomy							
Laparoscopic myomectomy							
Hysteroscopic surgery							
Resection of fibroid							
Resection of polyp							



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Module 3 Logbook: Reproductive Surgery	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Division of septum							
Division of adhesions							
Open fertility surgery							
Myomectomy							
Others							
Excision of vaginal septum							
Imperforate hymen							
Excision of rudimentary horn of uterus (Laparoscopic resection)							
Male surgery							
Percutaneous epididymal sperm aspiration							
Testicular sperm aspiration							
Open testicular biopsy							



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Module 3 Logbook: Reproductive Surgery	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Microscopic epididymal sperm extraction							
Microscopic testicular sperm extraction							

Appendix 3.1

Uterine anatomy and histology:

- normal anatomy
- different types of congenital abnormalities, such as uterine septum, their impact on fertility and their management
- impact and management of intrauterine adhesions
- impact and management of fibroids, including medical, surgical and embolisation

Tubal anatomy and histology:

- normal anatomy
- different types of congenital abnormalities
- management of proximal, mid-tubal and distal tubal disease
- sterilisation and reversal of sterilisation
- gross and microscopic findings of diseases of the oviduct related to reproductive endocrinology (e.g. acute and chronic salpingitis, granulomatous salpingitis, endometriosis)
- natural history and clinical course of acute and chronic salpingitis and relate these to subsequent fertility

Vaginal and cervical anatomy and histology:

- gross and microscopic findings of endometriosis and adenosis
- possible consequences of antenatal hormone exposure
- effects of various hormones on the vagina and cervix

Endometrial histology:

- histological appearance of normal and abnormal endometrium
- current data relating estrogens with endometrial hyperplasia and adenocarcinoma
- acute and chronic endometritis
- developmental stages of the endometrium (dating)



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- endometrial factors that affect implantation in early pregnancy

Myometrial histology:

- gross and microscopic findings of adenomyosis, leiomyoma and other myometrial lesions related to reproduction
- relationships of leiomyoma to infertility, including each of the different types (e.g. subserosal, intramural and submucosal)

Ovarian anatomy and histology:

- gross and microscopic findings and natural history of ovarian tumours related to reproductive function (e.g. follicular cysts, luteoma, corpus luteum, polycystic ovary syndrome, endometrioma, granulosa-theca cell tumour, Sertoli-Leydig cell tumour, gynandroblastoma, cystic teratoma, dysgerminoma, gonadoblastoma and mixed germ cell or gonadal tumours)
- different compartments of the Graafian follicle (e.g. granulosa cells, theca and adjacent stroma) and the primordial, preantral, antral and Graafian follicles, including the dynamic changes which occur in the ovary from embryo to menopause
- specific staining techniques and cellular ultrastructure as related to function
- gross and microscopic findings and the development of gonadal structures found in various forms of gonadal dysgenesis and intersex conditions

Testicular anatomy and histology:

- normal anatomy and development of the testis
- various stages of normal and abnormal spermatogenesis;
- gross and microscopic findings in testicular disease (e.g. teratoma, seminoma, Leydig and Sertoli cell tumours)



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Training Courses or sessions		
Title	Signature of educational supervisor	Date

Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer



Key:

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Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer

OSATS	For guidance on how workplace based assessments work go to the Workplace-based assessment page Each OSATS should be successfully completed for Independent Practice on 3 occasions before the module can be signed off					
Hysteroscopic Surgery	Date		Date		Date	
	Signature		Signature		Signature	
Laparoscopic adhesiolysis	Date		Date		Date	
	Signature		Signature		Signature	
Laparoscopic treatment of endometriosis	Date		Date		Date	
	Signature		Signature		Signature	



Key:

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OSATS	For guidance on how workplace based assessments work go to the Workplace-based assessment page Each OSATS should be successfully completed for Independent Practice on 3 occasions before the module can be signed off					
Laparoscopic ovarian cystectomy	Date		Date		Date	
	Signature		Signature		Signature	
Laparoscopic salpingectomy	Date		Date		Date	
	Signature		Signature		Signature	
Laparoscopic salpingostomy	Date		Date		Date	
	Signature		Signature		Signature	
Myomectomy	Date		Date		Date	
	Signature		Signature		Signature	

COMPLETION OF MODULE 3 I confirm that all components of the module have been successfully completed:		
Date	Name of subspecialty training programme supervisor	Signature of subspecialty training programme supervisor



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Module 4: Subfertility and Assisted Reproduction

Learning outcomes:

- To demonstrate the knowledge, skills and attitudes relating to general subfertility problems

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
4a: GENERAL SUBFERTILITY							
<p>Normal ranges in: semen analysis</p> <ul style="list-style-type: none"> endocrine profile: female endocrine profile: male <p>Ovulation induction:</p> <ul style="list-style-type: none"> anti-oestrogens gonadotrophins complications including Ovarian Hyperstimulation Syndrome (OHSS) <p>Intrauterine insemination</p> <p>In vitro fertilisation (IVF).</p> <ul style="list-style-type: none"> intracytoplasmic sperm injection (ICSI) <p>Donation of:</p> <ul style="list-style-type: none"> Oocytes Sperm 	1	<p>Take a history from subfertile couple</p> <p>Examination of subfertile couple:</p> <ul style="list-style-type: none"> Arrange investigations Interpret semen analysis Interpret endocrine profile: female Interpret endocrine profile: male <p>Liaise with appropriate colleagues</p> <p>Organise and counsel towards appropriate treatment:</p> <ul style="list-style-type: none"> Ovulation induction: anti-oestrogens Ovulation induction: gonadotrophins Intrauterine insemination IVF IVF/ICSI Oocyte donation Sperm donation <p>Critical awareness of the limitations of investigative techniques in the evaluation of infertility</p>	1,2,3,4	<p>Ability to counsel patients sensitively about the options available including preferences and expectations</p> <p>Ability to respect patient confidentiality.</p> <p>Ability to explain clearly and openly about treatments, complications and adverse effects of drug treatment, such as OHSS</p> <p>Ability to formulate and implement plan of management, taking into account relevant ethical and moral considerations specific to the patient and modify if necessary.</p> <p>Ability to liaise effectively with colleagues in other disciplines, clinical and non-clinical (e.g. andrologists, endocrinologists, IVF centre team and urologists).</p> <p>Ability to interpret:</p> <ul style="list-style-type: none"> Ultrasonography hysterosalpingography selective salpingography and HyCoSy sella turcica imaging by MRI CT scan <p>Ability to perform visual field examination.</p> <p>Ability to use and interpret chromosomal studies and karyotyping.</p>	1,3,4	<p>Task-specific in-service training</p> <p>Personal study</p> <p>Appropriate postgraduate education courses</p> <p>Tailored clinical experience, e.g. fertility clinic, endocrine clinic</p>	<p>Logbook of competences and experience</p> <p>Mini-CEX</p> <p>Preceptor assessment of knowledge</p> <p>Case-based discussions</p>



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<p>Uterine and tubal imaging:</p> <ul style="list-style-type: none"> • Hysterosalpingography • Hysterosalpingo-contrast-sonography • Saline sonohysterography • Computed tomography (CT)/magnetic resonance imaging (MRI) • Laparoscopy 	1	<p>Uterine and tubal imaging:</p> <ul style="list-style-type: none"> • Hysterosalpingography • Hysterosalpingo-contrast-sonography • Saline sonohysterography • CT/MRI 	1,2,3,4	<p>Ability to explain indications for, results and implications of tests to the couple.</p> <p>Ability to describe limitations of procedures.</p> <p>Ability to diagnose and evaluate diagnostic procedures.</p> <p>Ability to understand the validity of diagnostic tests, variability and reliability criteria.</p> <p>Ability to recognise and distinguish the use of different modalities of ultrasonography.</p> <p>Ability to perform abdominal and transvaginal ultrasonography and to interpret findings on ultrasonography, such as:</p> <ul style="list-style-type: none"> • appearance of normal and abnormal uterus including fibroids • Endometrial assessment, including normal cyclical changes, changes associated with hormone replacement, hyperplasia and malignancy • ovarian, para-ovarian and tubal masses <p>Ability to perform and interpret follicular tracking, including the disappearance of corpus luteum</p> <p>Ability to use ultrasound for:</p> <ul style="list-style-type: none"> • Assessment of tubal patency using contrast media 	1,2,3,4		



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
				<ul style="list-style-type: none"> Confirmation of intrauterine gestational sac with embryo, yolk sac, cardiac pulsation and assessment of gestational age Ability to diagnose ectopic pregnancy Ability to make an assessment of cervical length and dilation using ultrasonography	1,2,3,4		

Module 4a Logbook: General Subfertility	Competence level			Not required <input type="checkbox"/>
	Level 1	Level 2	Level 3	



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	Date	Signature	Date	Signature	Date	Signature
Investigation						
History and examination of subfertile couple						
Arrange appropriate, focused investigations						
Interpret semen analysis						
Interpret endocrine profile:	Female					
	Male					
Uterine and tubal imaging						
Hysterosalpingography (HSG)						
Hysterosalpingo contrast sonography (HyCoSy)						
Saline sonohysterography						
CT/MRI						
Diagnostic laparoscopy + methylene blue dye test						
Discuss with couple and counsel towards appropriate treatment						



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Module 4a Logbook: General Subfertility		Competence level						Not required
		Level 1		Level 2		Level 3		<input type="checkbox"/>
		Date	Signature	Date	Signature	Date	Signature	
Ovulation induction:	anti-oestrogens							
	gonadotrophins							
	GnRH agonists							
	GnRH antagonists							
Intrauterine insemination: natural cycle and superovulation								
In vitro fertilisation (IVF)								
IVF vs. intracytoplasmic sperm injection								
Use of donated oocytes								
Use of donated sperm								
Use of donated embryos								
Gamete storage in advance of chemo- or radiotherapy								
Identification and awareness of psychosexual problems								



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
4b: IVF AND ASSISTED CONCEPTION							
Management options: <ul style="list-style-type: none"> • Long gonadotrophin-releasing hormone (GnRH) agonist protocol • Short GnRH agonist protocol • GnRH antagonist cycles • Frozen embryo replacement: <ul style="list-style-type: none"> ○ natural cycle ○ HRT cycle • Donor–recipient cycle • Sperm freezing • Embryo freezing • In vitro oocyte maturation • Oocyte freezing • Fertility preservation for cancer 	1	Take a history from a subfertile couple: <ul style="list-style-type: none"> • Examination of subfertile couple • Arrange investigations • Interpret semen analysis • Interpret endocrine profile: female • Interpret endocrine profile: male Form appropriate management plan Counsel for donated gametes: <ul style="list-style-type: none"> • Donated oocytes • Donated sperm Manage treatment cycles:	1,2,3,4	Ability to counsel patients sensitively about options available and understand their preferences and expectations Ability to formulate management plan related to pathological findings Ability to implement plan of management taking into account relevant ethical and moral considerations specific to patients and modify if necessary Ability to liaise effectively with colleagues in other disciplines, clinical and non-	1,3,4	Attend reproductive ethics committee Attend HFEA inspection Task-specific in-service training Personal study Appropriate postgraduate education courses	Mini-CEX OSATS Log of competences and experience Case-based discussion



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<p>patients</p> <p>Pharmacokinetics and pharmacodynamics of drugs used in reproductive medicine</p> <p>Clinical trial design</p> <p>Strategies to reduce the risk of OHSS</p> <p>Management of complications including ovarian hyperstimulation syndrome</p> <p>Ultrasound/imaging:</p> <ul style="list-style-type: none"> Follicular tracking: natural/simulated cycles Tracking IVF endometrial development Uterine abnormalities Ovarian pathology Early pregnancy assessment Oocyte retrieval <p>Embryo replacement</p> <p>Microsurgical epididymal sperm aspiration</p> <p>Percutaneous epididymal sperm aspiration</p> <p>Open testicular biopsy</p> <p>Counselling:</p> <ul style="list-style-type: none"> Supportive Implications Therapeutic Adoption Legal aspects Psychosexual <p>Basis of genetic inheritance and transmission of genetic disease:</p>	1	<ul style="list-style-type: none"> Long GnRH protocol Short GnRH protocol GnRH antagonist cycles Frozen embryo replacement: <ul style="list-style-type: none"> natural cycle HRT cycle Donor–recipient cycle Sperm freezing Embryo freezing Fertility preservation cycles <p>Ultrasound/Imaging:</p> <ul style="list-style-type: none"> Follicular tracking natural/stimulated Follicular tracking IVF Endometrial development Uterine abnormalities Ovarian pathology Early pregnancy assessment Oocyte retrieval Embryo replacement Microsurgical epididymal sperm aspiration Percutaneous epididymal sperm aspiration Open testicular biopsy <p>Counselling:</p> <ul style="list-style-type: none"> Supportive Implications Therapeutic Legal aspects of counselling Liaison with counsellors 	1,3,4	<p>clinical</p> <p>Ability to explain clearly about treatments, complications and adverse effects of treatment eg OHSS</p> <p>Understanding of the role of a Quality Management System</p>		<p>Tailored clinical experience (e.g. fertility clinic, endocrine clinic)</p>	



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<ul style="list-style-type: none"> • Single gene disorders: recessive and dominant • Sex-linked disorders • Late-onset disorders and disease susceptibilities • Chromosome rearrangements: Robertsonian reciprocal translocations and their consequences • Aneuploidy, sporadic aneuploidy and important aneuploidy syndromes (e.g. Edwards, Turner, Patau) <p>Genetics:</p> <ul style="list-style-type: none"> • Genetic history and counselling • Cell cycle and biology • Approach to chromosome analysis • International System for Human Cytogenetic Nomenclature • Normal variation • Banding techniques • Prenatal diagnosis • Cell culture and processing • Preimplantation genetic diagnosis • Preimplantation genetic screening <p>Laboratory techniques:</p> <ul style="list-style-type: none"> • Cell culture • Embryo culture • Assisted hatching • Polymerase chain reaction • DNA, RNA and protein amplification techniques • Culture systems • Blastocyst culture • Time-lapse imaging of embryo <p>Flowcytometry:</p> <ul style="list-style-type: none"> • Human Fertilisation and Embryology Authority (HFEA) laboratory inspection 	1	<p>Genetics:</p> <ul style="list-style-type: none"> • Genetic history and counselling • Cell cycle and biology • Approach to chromosome analysis • International System for Human Cytogenetic Nomenclature • Normal variation • Banding techniques • Prenatal diagnosis • Cell culture and processing • Preimplantation genetic diagnosis • Preimplantation genetic screening 					



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<ul style="list-style-type: none"> Clinical Pathology Accreditation laboratory inspection International Standards Office and quality management systems <p>HFEA:</p> <ul style="list-style-type: none"> HFEA Code of Practice Adverse incident reporting Understand the 'person responsible' role <p>Storage:</p> <ul style="list-style-type: none"> Use of gametes Posthumous use of gametes 							

Module 4b Logbook: IVF and Assisted Conception	Competence level						Not required <input type="checkbox"/>
	Level 1		Level 2		Level 3		
	Date	Signature	Date	Signature	Date	Signature	
Counsel for donated gametes							
Egg donation							
Sperm donation							



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Module 4b Logbook: IVF and Assisted Conception	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Embryo donation for clinical use							
Embryo donation for research							
Manage treatment cycles							
Pharmacokinetics of drugs used in reproductive medicine							
Long GnRH protocol							
Short GnRH protocol							
GnRH antagonist cycles							
Management of ovarian hyperstimulation syndrome							
Frozen embryo replacement: natural cycle							
Frozen embryo replacement: HRT cycle							
Donor-recipient cycle							
Sperm/oocyte freezing							



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Module 4b Logbook: IVF and Assisted Conception		Competence level						Not required
		Level 1		Level 2		Level 3		<input type="checkbox"/>
		Date	Signature	Date	Signature	Date	Signature	
Embryo freezing								
Fertility preservation for cancer patients								
Clinical drug trial design								
Practical procedures								
Ultrasound/imaging:	Follicular tracking							
	Follicular tracking IVF							
	Endometrial development							
	Uterine abnormalities							
	Ovarian pathology							
	Oocyte retrieval							
	Embryo replacement							
	Early pregnancy assessment							



Key:

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Module 4b Logbook: IVF and Assisted Conception	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Pregnancy rate per embryo transfer (please give pregnancies/embryo transfer and then percentage)							
Percutaneous epididymal sperm aspiration							
Testicular sperm aspiration							
Open testicular biopsy							
Microscopic epididymal sperm extraction							
Microscopic testicular sperm extraction							
Counselling							
Supportive counselling							
Implication counselling							
Provide therapeutic counselling							
Liaise with counsellors							
Genetics							



Key:

Common competency framework competencies Medical leadership framework competencies Health inequality framework competencies

Module 4b Logbook: IVF and Assisted Conception	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Genetic history and counselling							
Cell cycle/cell biology							
Chromosome analysis							
International System for Human Cytogenetic Nomenclature							
Normal variation							
Banding techniques							
Prenatal diagnosis							
Cell culture and processing							
Pre-implantation genetic diagnosis							
Preimplantation genetic screening							
Laboratory techniques							
Sperm preparation for assisted reproduction							



Key:

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Module 4b Logbook: IVF and Assisted Conception	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Oocyte culture							
Oocyte insemination							
Oocyte sperm injection							
Embryo culture							
Embryo freezing and thawing							
Assisted hatching							
Polymerase chain reaction							
Preimplantation genetic diagnosis							
DNA, RNA and protein amplification techniques							
Culture systems							
Blastocyst culture							
Time-lapse imaging of embryo							



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Module 4b Logbook: IVF and Assisted Conception	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
Flow cytometry							
Human Fertilisation and Embryology Authority (HFEA) laboratory Inspection							
Clinical Pathology Accreditation laboratory inspection							
HFEA							
Adverse incident reporting							
Storage of gametes							
Use of gametes							
Posthumous use of gametes							
Attend assisted reproduction ethics committee							
Attend HFEA inspection							



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Training Courses or sessions		
Title	Signature of educational supervisor	Date

Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer



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Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer

COMPLETION OF MODULE 4		
I confirm that all components of the module have been successfully completed:		
Date	Name of subspecialty training programme supervisor	Signature of subspecialty training programme supervisor

Module 5: Andrology

Learning outcomes:

- To demonstrate knowledge and competency in relation to men with fertility problems

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
Appropriate history and investigations:	1	Take an appropriate history from a subfertile male:	1,3,4	Ability to counsel patients sensitively	1,3,4	Laboratory sessions	Attendance at relevant



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Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<ul style="list-style-type: none"> Semen analysis Endocrine profile: male <p>Anatomy and physiology of the testis</p> <p>Investigation of azoospermia</p> <p>Hypothalamo-pituitary-thyroid axis function and assessment</p> <p>Assessment and management of impotence</p> <p>Human Fertilisation and Embryology Authority (HFEA):</p> <ul style="list-style-type: none"> HFEA code of practice Adverse incident reporting Posthumous use of gametes <p>Treatment:</p> <ul style="list-style-type: none"> Endocrine therapy Gonadotrophin therapy 		<ul style="list-style-type: none"> Examination of subfertile male Arrange investigations Interpret semen analysis Interpret endocrine profile: male Investigation of azoospermia Form appropriate management plan <p>Counsel about sperm banking:</p> <ul style="list-style-type: none"> pre-oncology treatment before vasectomy <p>Treatment:</p> <ul style="list-style-type: none"> Endocrine therapy Gonadotrophin therapy 		<p>about the disease process</p> <p>Ability to formulate management plan related to pathological findings</p> <p>Ability to implement plan of management and modify if necessary</p> <p>Ability to liaise with colleagues in other disciplines, clinical and non-clinical</p> <p>Ability to counsel patients sensitively about options available</p> <p>Ability to explain openly about treatments, complications and adverse effects of treatment</p>		Urology training	<p>practical sessions and tutorials</p> <p>Preceptor assessment of knowledge</p> <p>Mini-CEX</p> <p>OSATS</p> <p>Case-based discussion</p>

Module 5 Logbook: Andrology	Competence level						Not required <input type="checkbox"/>
	Level 1		Level 2		Level 3		
	Date	Signature	Date	Signature	Date	Signature	



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Module 5 Logbook: Andrology	Competence level						Not required
	Level 1		Level 2		Level 3		<input type="checkbox"/>
	Date	Signature	Date	Signature	Date	Signature	
History and examination from subfertile male							
Interpret semen analysis							
Interpret endocrine profile: male							
Investigation of azoospermia							
Form appropriate management plan based on findings and results							
Counselling							
Sperm banking pre-oncology treatment							
Sperm banking pre-vasectomy							
Sperm banking for sperm donation							
Medical treatment							
Endocrine therapy							



Key:

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Training Courses or sessions		
Title	Signature of educational supervisor	Date

Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer



Key:

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Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer

COMPLETION OF MODULE 5		
I confirm that all components of the module have been successfully completed:		
Date	Name of subspecialty training programme supervisor	Signature of subspecialty training programme supervisor



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Module 6: Early Pregnancy Problems

Learning outcomes:

- To understand the assessment and management of recurrent miscarriage
- To demonstrate the knowledge and skills for patients requiring emergency gynaecology
-

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
Recurrent miscarriage: <ul style="list-style-type: none"> • Causes • Investigations • Medical management • Surgical management 	1	Recurrent miscarriage: <ul style="list-style-type: none"> • Take a history: <ul style="list-style-type: none"> ○ recurrent miscarriage ○ pregnancy history ○ medical history • Organise appropriate investigations • Interpret endocrine assessment • Interpret immunological assessment • Formulate management plan • Liaise with colleagues in other disciplines Counsel about: <ul style="list-style-type: none"> • Causes of miscarriage • Treatments • Implications following molar pregnancy Perform: <ul style="list-style-type: none"> • Endocrine investigations • Anatomical assessment • Immunological investigations Manage clinical conditions: <ul style="list-style-type: none"> • Antiphospholipid syndrome Uterine abnormalities	1,2,3,4	Ability to counsel patients sensitively about the disease process Ability to formulate management plan related to pathological findings Ability to implement plan of management and modify if necessary Ability to liaise with colleagues in other disciplines, clinical and non-clinical Ability to counsel patients sensitively about options available and to refer to support groups as appropriate Ability to explain openly about treatments, complications and adverse effects of treatment	1,3,4	Attendance at: Recurrent miscarriage clinic Early pregnancy assessment unit	Mini-CEX Case-based discussion



Key:

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Module 6 Logbook: Early Pregnancy and Problems	Competence level						Not required <input type="checkbox"/>
	Level 1		Level 2		Level 3		
	Date	Signature	Date	Signature	Date	Signature	
Recurrent miscarriage							
History and examination							
Organise appropriate investigations							
Interpret endocrine assessment							
Interpret immunological assessment							
Formulate management plan							
Liaise with colleagues in other disciplines							



Key:

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Training Courses or sessions		
Title	Signature of educational supervisor	Date

Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer



Key:

Common competency framework competencies Medical leadership framework competencies Health inequality framework competencies

Authorisation of signatures (to be completed by the clinical trainers)	
Name of clinical trainer (please print)	Signature of clinical trainer

COMPLETION OF MODULE 6		
I confirm that all components of the module have been successfully completed:		
Date	Name of subspecialty training programme supervisor	Signature of subspecialty training programme supervisor