



**Key:**

Common competency framework competences    Medical leadership framework competences    Health inequality framework competences

## Core Module 14: Subfertility

**Learning outcomes:**

- To understand the issues and demonstrate appropriate knowledge, skills and attitudes in relation to subfertility

Knowledge criteria	GMP	Clinical competency	GMP	Professional skills and attitudes	GMP	Training support	Evidence/assessment
<p>Epidemiology, aetiology, pathogenesis, clinical features, treatment and prognosis of male and female subfertility</p> <p>Indications, limitations and interpretation of investigations:</p> <ul style="list-style-type: none"> <li>▪ endocrine measurements (male and female)</li> <li>▪ semen analysis</li> <li>▪ ultrasound</li> <li>▪ other imaging techniques</li> <li>▪ genetic analysis</li> <li>▪ operative procedures</li> </ul> <p>Indications, techniques, limitations and complications of surgery in relation to:</p> <ul style="list-style-type: none"> <li>▪ male and female subfertility</li> <li>▪ endometriosis</li> <li>▪ developmental disorders</li> </ul> <p>Indications, limitations and complications of assisted reproductive techniques:</p> <ul style="list-style-type: none"> <li>▪ Ovulation induction</li> <li>▪ IVF &amp; ICSI</li> <li>▪ Gamete Donation</li> </ul> <p>Legal and ethical issues</p> <p style="color: blue;">Able to describe the natural history of conditions that run a chronic course</p> <p style="color: blue;">Have knowledge of long term management plans for chronic conditions (see Module 2)</p>	1,2	<p>Take history and examine a couple presenting with subfertility</p> <p>Arrange basic investigations</p> <p>Counsel couples about diagnosis and management options</p> <p>Perform the following:</p> <ul style="list-style-type: none"> <li>▪ Diagnostic laparoscopy</li> <li>▪ Staging of endometriosis</li> <li>▪ Assessment of tubal patency</li> <li>▪ Diagnostic hysteroscopy</li> </ul>	1,2  3,4  1,2	<p>Show an appreciation of the importance of psychological factors for women and their partners</p> <p>Demonstrates respect for a woman's dignity and confidentiality</p> <p>Has an understanding of the issues relating to NHS funding and rationing of treatment</p> <p>Demonstrates the ability to deal sensitively with issues relating to the welfare of the child</p> <p>Has the ability to acknowledge cultural issues and the issues relating to same sex partnerships and single parenthood</p> <p>Demonstrates the need to liaise effectively with colleagues in other disciplines, clinical and non-clinical</p>	4  3,4  1  1,3,4	<p>Appropriate postgraduate education courses</p> <p>Multi-disciplinary and clinical team meetings</p> <p>StratOG.net: subfertility e-tutorials</p> <p>Subfertility clinics</p> <p>Assisted reproduction sessions</p> <p>National Institute for Clinical Excellence website</p> <p>Scottish Intercollegiate Guidelines Network website</p> <p>Scottish Health on the Web website</p> <p>British Fertility Society website</p> <p>Human Fertilisation and Embryology Act 1991. Available online</p> <p><i>The Obstetrician and Gynaecologist</i> journal</p>	<p>Logbook</p> <p>Reflective diary</p> <p>Log of experiences</p> <p>Mini CEX</p> <p>CbD</p> <p>Case reports</p> <p>Audit projects</p> <p>OSATS: Diagnostic laparoscopy</p> <p>MRCOG Part Two</p>



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## Appendix to Curriculum Module 14 – Details of Knowledge Criteria

### Epidemiology, aetiology, pathogenesis, clinical features, treatment and prognosis of:

#### Male and female subfertility:

- Female (ovulatory disorders, tubal disorders, endometriosis, cervical & uterine factors, genetic & developmental disorders)
- Male (structural, endocrine, pharmacological, infectious, lifestyle, genetic)
- Unexplained infertility
- Long term sequelae of cancer treatment
- Sterilisation regret

#### Indications, limitations and interpretation of investigative techniques:

- Semen analysis
- Endocrine assessment (see also Module 13):
  - Assessment of ovulation
  - Assessment of the sub-fertile male
  - Amenorrhoea & oligomenorrhoea
  - Polycystic ovarian syndrome
  - Hyperprolactinaemia
  - Thyroid/adrenal function
  - Gonadal failure
- Genetic analysis
  - Chromosome analysis e.g. sex chromosome abnormalities
  - Genetic abnormalities e.g. cystic fibrosis

#### Operative investigative procedures

- Diagnostic laparoscopy
- Diagnostic hysteroscopy

#### Indications, limitations, techniques and complications of:

- Ovulation induction (clomifene, gonadotropins, gonadotrophin-release hormone)
- Other medical interventions (e.g. metformin, dopaminergic drugs)
- Intrauterine insemination
- In vitro fertilisation
- Intracytoplasmic sperm injection
- Surgical sperm recovery

#### Legal and ethical issues

- Human Fertilisation and Embryology Act
- Welfare of the child
- Embryo storage
- Gamete donation
- Surrogacy

#### Indications, limitations and complications of surgery in relation to male and female Infertility:

- Reversal of sterilisation and vasectomy
- Adhesiolysis
- Salpingostomy
- Surgical management of endometriosis
- Ovarian diathermy
- Myomectomy
- Hysteroscopic surgery
- Varicocele



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Core Module 14 Logbook	Competence level		Basic level		Intermediate level		Advanced level		Not required	
	Level 1		Level 2		Level 3					
	Date	Signature	Date	Signature	Date	Signature				
Take history from couple										
Investigate female subfertility										
Interpret semen analysis										
Manage anovulation										
Investigate tubal function										
Counsel about management options										

Training Courses or sessions		
Title	Signature of educational supervisor	Date
Assisted reproduction		



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<b>OSATS</b>	<b>Each OSATS should be successfully completed for Independent Practice on 3 occasions before the module can be signed off</b>					
<b>Diagnostic laparoscopy</b>	<b>Date</b>		<b>Date</b>		<b>Date</b>	
	<b>Signature</b>		<b>Signature</b>		<b>Signature</b>	

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

<b>COMPLETION OF MODULE 14</b>		
<b>I confirm that all components of the module have been successfully completed:</b>		
<b>Date</b>	<b>Name of educational supervisor</b>	<b>Signature of educational supervisor</b>