### Core Module 14: Subfertility

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

<table>
<thead>
<tr>
<th>Knowledge criteria</th>
<th>GMP</th>
<th>Clinical competency</th>
<th>GMP</th>
<th>Professional skills and attitudes</th>
<th>GMP</th>
<th>Training support</th>
<th>Evidence/assessment</th>
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<tbody>
<tr>
<td>Epidemiology, aetiology, pathogenesis, clinical features, treatment and prognosis of male and female subfertility</td>
<td>1.2</td>
<td>Take history and examine a couple presenting with subfertility</td>
<td>1.2</td>
<td>Show an appreciation of the importance of psychological factors for women and their partners</td>
<td>4</td>
<td>Appropriate postgraduate education courses</td>
<td>Logbook</td>
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</table>
| Indications, limitations and interpretation of investigations:  
  - endocrine measurements (male and female)  
  - semen analysis  
  - ultrasound  
  - other imaging techniques  
  - genetic analysis  
  - operative procedures | | Arrange basic investigations | | Demonstrates respect for a woman's dignity and confidentiality | 3,4 | Multi-disciplinary and clinical team meetings | Reflective diary |
| Indications, techniques, limitations and complications of surgery in relation to:  
  - male and female subfertility  
  - endometriosis  
  - developmental disorders | | Counsel couples about diagnosis and management options | | Has an understanding of the issues relating to NHS funding and rationing of treatment | 1 | StratOG.net: subfertility e-tutorials | Log of experiences |
| Indications, limitations and complications of assisted reproductive techniques:  
  - Ovulation induction  
  - IVF & ICSI  
  - Gamete Donation | | Perform the following:  
  - Diagnostic laparoscopy  
  - Staging of endometriosis  
  - Assessment of tubal patency  
  - Diagnostic hysteroscopy | | Demonstrates the ability to deal sensitively with issues relating to the welfare of the child | 1,3,4 | Subfertility clinics | Mini CEX |
| Legal and ethical issues | | | | Has the ability to acknowledge cultural issues and the issues relating to same sex partnerships and single parenthood | | Assisted reproduction sessions | CbD |
| Able to describe the natural history of conditions that run a chronic course | | | | Demonstrates the need to liaise effectively with colleagues in other disciplines, clinical and non-clinical | | National Institute for Clinical Excellence website | Case reports |
| Have knowledge of long term management plans for chronic conditions (see Module 2) | | | | | | Scottish Intercollegiate Guidelines Network website | Audit projects |

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**GMC Good Medical Practice (GMP) Domains:**
- Domain 1: Knowledge, skills and Performance
- Domain 2: Safety and quality
- Domain 3: Communication, Partnership and Teamwork
- Domain 4: Maintaining Trust
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
- Adhesiolyis
- Salpingostomy
- Surgical management of endometriosis
- Ovarian diathermy
- Myomectomy
- Hysteroscopic surgery
- Varicocele

**Core Module 14 Logbook**

<table>
<thead>
<tr>
<th>Competence level</th>
<th>Basic level</th>
<th>Intermediate level</th>
<th>Advanced level</th>
<th>Not required</th>
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<tr>
<td>Level 1</td>
<td>Date</td>
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<tr>
<td>Take history from couple</td>
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<td>Investigate female subfertility</td>
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<td>Interpret semen analysis</td>
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<td>Manage anovulation</td>
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<td>Investigate tubal function</td>
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<td>Counsel about management options</td>
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**Training Courses or sessions**

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<tr>
<th>Title</th>
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<tr>
<td>Assisted reproduction</td>
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<td>Diagnostic laparoscopy</td>
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Authorisation of signatures (to be completed by the clinical trainers)

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COMPLETION OF MODULE 14
I confirm that all components of the module have been successfully completed:

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