

Acute Gynaecology and Early Pregnancy

Learning Outcomes:

To develop knowledge and skills, which should enable the candidate to take a leading role in the management of women with acute gynaecological and early pregnancy problems

Knowledge Criteria	Clinical Competency to be achieved	Professional Skills and Attitudes	Training support	Evidence/ Assessment
<ul style="list-style-type: none"> ➤ Broad knowledge of aetiology and differential diagnosis of acute abdominal pain ➤ Understanding of haematological, biochemical, microbiological and radiological investigations ➤ Extensive knowledge of options available to treat acutely ill women ➤ In depth knowledge of epidemiology, aetiology, clinical features and diagnostic tests in early pregnancy complications 	<ul style="list-style-type: none"> ➤ Clinical assessment of women with acute abdominal pain ➤ Medical and surgical management of acutely ill patient, including haemorrhagic shock and sepsis ➤ Resuscitation skills ➤ Ability to use ultrasound for differential diagnosis of pelvic pain and early pregnancy complications ➤ Laparoscopic surgery for ectopic pregnancy, ovarian cyst accidents and drainage of pelvic abscess ➤ Ultrasound guided invasive procedures ➤ Ability to chose between various conservative medical and surgical options in management of early pregnancy complications 	<ul style="list-style-type: none"> ➤ Management of a multi-disciplinary team ➤ Collaboration with consultant colleagues and colleagues in other specialities and departments ➤ Ability to develop and disseminate local protocols for management of acute gynaecological problems ➤ Appropriate and rapid clinical decision-making in daily clinical practice ➤ Awareness of emotional implications for patient and family and staff ➤ Realistic recognition 	<ul style="list-style-type: none"> ➤ Attendance of RCOG and other courses relevant to the subject ➤ Additional training in gynaecological ultrasound and laparoscopic surgery ➤ StratOG 1 & 9 ➤ ATLS courses ➤ Useful Websites www.nice.org.uk www.rcog.org.uk www.miscarriageassociation.org.uk www.ectopic.org www.earlypregnancy.org.uk ➤ Local protocols 	<ul style="list-style-type: none"> ➤ Case log book ➤ Audit projects ➤ RITA ➤ Certificates of course attendance ➤ OSATS ➤ Case based discussions ➤ Mini CEX ➤ Team observation

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<ul style="list-style-type: none"> ➤ Good knowledge of options for managing early pregnancy problems ➤ Understanding of management issues in the provision of acute gynaecological care 	<ul style="list-style-type: none"> ➤ Ability to develop clinical protocols for management of pregnancies of unknown location ➤ Management of recurrent miscarriage 	<ul style="list-style-type: none"> of own competence level ➤ Use of appropriate external protocols and guidelines ➤ Making appropriate tertiary referrals 		
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APPENDIX TO ATSM ACUTE GYNAECOLOGY AND EARLY PREGNANCY

Details of knowledge criteria

- **Broad knowledge of aetiology and differential diagnosis of acute abdominal pain**
 - Gynaecological causes of acute pain - ovarian cyst accidents (rupture and torsion), acute pelvic inflammatory disease, degenerating/prolapsing uterine fibroid, ectopic pregnancy,
 - Non-gynaecological causes of acute pain - acute appendicitis, acute bowel obstruction, diverticular disease, inflammatory bowel disease, perforated ulcer, incarcerated hernias (inguinal, femoral, umbilical and incisional, mesenteric infarction, pelvic vein thrombosis, ruptured aortic aneurism, acute UTI, acute urinary retention, urolithiasis

- **Understanding of haematological, biochemical, microbiological and radiological investigations**
 - Haematological changes in acute haemorrhage, sepsis and thrombosis
 - Biochemical findings in acute sepsis and urinary tract obstruction
 - Dynamics of serum hCG and progesterone in normal and abnormal early pregnancy
 - Relevant infection screens
 - Indications for plain abdominal film, chest x-ray, abdominal ultrasound scan, CT and MRI in the investigation of acute pelvic pain

- **Extensive knowledge of options available to treat acutely ill women**
 - Resuscitation measures
 - Management of massive blood loss
 - Effective pain relief
 - Antimicrobial therapy
 - Management of acute thromboembolic events
 - Conservative and surgical management of acute pain
 - Management of hyperemesis gravidarum

- **In depth knowledge of epidemiology, aetiology, clinical features and diagnostic tests in early pregnancy complications**
 - Epidemiology of miscarriage
 - Causes of miscarriage - chromosomal defects, structural uterine anomalies, cervical incompetence, autoimmune causes,

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Other factors affecting development of early pregnancy: drugs (prescription and recreational), viral infections, radiation and chemotherapy, immunisation

Transvaginal ultrasound - morphological features of normal early pregnancy development, differential diagnosis between complete, incomplete and missed miscarriage

The use of serum biochemistry for the diagnosis of miscarriage

Risk factors for ectopic pregnancy

Variations in clinical presentation of ectopic pregnancies

Clinical, ultrasound, laparoscopic and histological diagnosis of ectopic pregnancy

Risk factors, clinical presentation, ultrasound and laparoscopic diagnosis of non-tubal ectopics

➤ **Good knowledge of options available for managing early pregnancy problems**

Expectant management of miscarriage - selection criteria, follow up, success rates

Medical treatment with misoprostol and mifepristone - selection criteria, route of administration and dosage, effectiveness, side effects and follow up

Surgical management of miscarriage- selection criteria, outpatient, local anaesthetic and in-patient under general anaesthesia, antibiotic prophylaxis, complications, effectiveness, follow up

Expectant management of tubal ectopics - selection criteria, success rates, follow up

Medical treatment with methotrexate - selection criteria, dosage, side effects, effectiveness, follow up

Laparoscopy and laparotomy for ectopics - choice of appropriate route for surgery

Salpingectomy vs salpingotomy - selection criteria, complications, follow up

Fertility after ectopic pregnancy and future follow up

Management of non-tubal ectopics - conservative vs surgical, risks, complications, follow up, future fertility

➤ **Understanding of management issues in the provision of acute gynaecological care**

Environment

Staffing

Facilities and equipment

Referral patterns and triage

External support

Training

Clinical protocols,

Risk management

Audit and research

<u>Skill</u>	ATM: Acute Gynaecology and Early Pregnancy					
	Observation		Direct Supervision		Independent Practice	
	Date	Signature	Date	Signature	Date	Signature
Diagnosis of acute abdomen						
Management of haemorrhagic and septic shock						
Ultrasound diagnosis of fibroids, ovarian tumours, pelvic abscess, acute appendicitis and acute urinary retention						
Management of severe vaginal bleeding						
Laparoscopic ovarian cystectomy, adhesiolysis						
Management of acute pelvic infection						
Transvaginal and transabdominal drainage of pelvic abscess						
Correlation of ultrasound and biochemical measurements in normal early pregnancy						
Diagnosis of multiple pregnancy and assessment of chorionicity						
Ultrasound diagnosis of miscarriage and tubal ectopic pregnancy						

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Management of pregnancies of unknown location						
Diagnosis of non-tubal ectopic pregnancy						
Medical management of miscarriage with misoprostol and mifepristone						
Selection criteria for conservative management of tubal ectopics						
Use of systemic methotrexate in ectopic pregnancy						
Laparoscopic surgery for tubal ectopics						
Conservative and surgical management of non-tubal ectopics						
Diagnosis and management of heterotopic pregnancies						
Diagnosis and management of pelvic tumours in early pregnancy						
Ultrasound assessment of uterine cavity and cervix in women with recurrent miscarriages						
Diagnosis and management antiphospholipid syndrome						
Diagnosis and initial management of trophoblastic disease						

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Training Courses or sessions		
Title	Signature of educational supervisor	Date

Authorisation of Signatures - please print your name and sign below	
Name (please print)	Signature

Completion of Module <i>I confirm that all components of the module have been successfully completed</i>	
Date	
Name of Educational Supervisor	
Signature of Educational Supervisor	

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