


EARLY PREGNANCY

EMERGENCY PRESENTATIONS

	ECTOPIC PREGNANCY	Ovarian mass/Torsion	Acute PID																
Define	<ul style="list-style-type: none"> Embryo attaches outside uterus usu. in fallopian tube (cornual region) -also cervix, ovary or abdomen 1-2% of pregnancies (1 in 100) 	Partial/ complete twisting of ovary and fallopian tube around supporting ligaments	Ascending infection of upper female genital tract <i>Usu. chlamydia trachomatis or Neisseria gonorrhoea</i>																
RF	<p>Anatomical</p> <ul style="list-style-type: none"> hx of ectopic, hx of endometriosis, hx of PID (tubal scarring) <p>Non-anatomical</p> <ul style="list-style-type: none"> Smoking, Advanced age, IUD (coils) IVF 	<ul style="list-style-type: none"> Anatomical = ovarian enlargement (cysts/tumours), long ovarian ligament's or laxity of pelvic ligaments Non-anatomical = mirena IUD (+++ cysts), adolescents, obesity, pregnancy and IVF 	<ul style="list-style-type: none"> Multiple sexual partners Unprotected sex Hx of STI or adnexitis IUDs (copper, mirena) 																
Sx	<ul style="list-style-type: none"> Amenorrhoea 4-6 wks LMP Recent UPSI <p>Non-rupture =</p> <ul style="list-style-type: none"> crampy lower abdo or pelvic pain, pregnancy signs (nausea, tender breasts) cervical motion tenderness vaginal bleeding (Usu. less bleeding than last period (DO NOT DISMISS!!)) <p>Ruptured</p> <ul style="list-style-type: none"> severe sudden onset abdo pain, Dizziness / syncope / hypoTN, tachycardia (hypovol) Shoulder tip pain (peritonitis) 	<ul style="list-style-type: none"> SUDDEN onset unilateral abdo-pelvic pain Crescendo-decrescendo pain Nausea and vomiting Vitals (stress response) = ↑HR, HTN Pain on palpation (localised/diffuse – depends on size of cysts) ?palpable adnexal mass (i.e. growth around uterus) NO PAIN = ischaemia of affected ovary and compromised blood supply 	<ul style="list-style-type: none"> Bilateral lower abdo pain (may have concurrent appendicitis) Fever N/V Dysuria, dyspareunia PV or cervical discharge (abnormal in smell/colour) <p>Exam:</p> <ul style="list-style-type: none"> Vitals (HTN, tachycardia, tachypnoea, febrile) Adnexal tenderness on palpation Vag exam → cervical discharge 																
DDx	<ul style="list-style-type: none"> Pregnancy of unknown location (+B-HCG but no sign of pregnancy on TVUS) Ovarian torsion PID Appendicitis/diverticulitis 																		
Ix	<ul style="list-style-type: none"> Serum B-HCG (> 1000-1500) - pregnancy of unknown location <ul style="list-style-type: none"> Serial B-HCG every 48 hrs Rise > 63% = intra-uterine pregnancy Rise < 63% or static over 2 days = ectopic or pregnant Fall > 50% = miscarriage FBC (anaemia) + Group + X-match EUC, LFT COAGs (if suspected coagulopathy) TVUS (best) <ul style="list-style-type: none"> free fluid in POD or uterine cavity empty uterus gestational sac with yolk sac or fetal pole in fallopian tube ("blob sign" or "bagel sign") 	 <p>TVUS + doppler</p> <ul style="list-style-type: none"> Reduced blood flow ≥ 6cm – highest risk of torsion Thickened fallopian tube <p>DDx: appendicitis, ruptured ectopic, renal colic</p>	<ul style="list-style-type: none"> FBC (++WBC) ++ ESR Urine and serum B-HCG TVUS (free fluid, abscess, pyo/hydrosalpinx) GU swabs (endocervical, high vaginal, urethral) → C+G PCR Endometrial biopsy → ?endometritis Exploratory laparoscopy → ambiguous cases 																
Comp.	<ul style="list-style-type: none"> Infertility Death – hypovol. Shock /sepsis Cervical shock = HypoTN and bradycardia (due to vagal stimulation) 	<ul style="list-style-type: none"> Compress ovarian vein + lymphatics → reduced venous outflow Oedema → ischaemia → necrosis 	<ul style="list-style-type: none"> Infertility (tubal scarring and adhesion) → O+G referral Ectopic pregnancy Peritonitis, perihepatitis Chronic pelvic pain 																
Mx	<p>Unstable</p> <ol style="list-style-type: none"> Help – O+G consult ABCD – vasopressors / inotropes IVF TVUS = identify location of free fluid Surgery – laparotomy/laparoscopy/ salpingectomy <p>Stable</p> <table border="1"> <thead> <tr> <th></th><th>Expectant</th><th>Medical</th><th>Surgery</th></tr> </thead> <tbody> <tr> <td>Ind</td><td>Unruptured ectopic • if HCG < 1500 • mass < 3.5cm • no FHB or pain</td><td>Unruptured ectopic 1. if HCG < 5000 2. mass < 3.5cm 3. no FHB or pain</td><td>Haem unstable • if HCG > 5000 • mass > 3.5cm • Visible HB or pain</td></tr> <tr> <td>How?</td><td>Natural termination</td><td>IM MTX 50mg/kg – dissolve POC 1. CI: allergy, interstitial ectopic, HIV/BBV 2. A/E N/V, PV bleed, conjunctivitis</td><td>NBM + IVF maintenance +/- Vasopressor Laparoscopic 1. salpingectomy 2. Salpingotomy</td></tr> <tr> <td>Post-Mx</td><td>Follow up in EPAS • Analgesia • Bereavement/ Counselling • Plans for future</td><td>Follow up in EPAS 1. Repeat HCG on Day 4, 7 post dose (↓15% expected) 2. Contraception for 3/12 post MTX – prevent teratogen</td><td>Follow up in EPAS ➢ Anti-D in Rh -ve women ➢ salpingostomy – risk of persistent trophoblastic disease ➢ counsel pain + grief</td></tr> </tbody> </table>		Expectant	Medical	Surgery	Ind	Unruptured ectopic • if HCG < 1500 • mass < 3.5cm • no FHB or pain	Unruptured ectopic 1. if HCG < 5000 2. mass < 3.5cm 3. no FHB or pain	Haem unstable • if HCG > 5000 • mass > 3.5cm • Visible HB or pain	How?	Natural termination	IM MTX 50mg/kg – dissolve POC 1. CI: allergy, interstitial ectopic, HIV/BBV 2. A/E N/V, PV bleed, conjunctivitis	NBM + IVF maintenance +/- Vasopressor Laparoscopic 1. salpingectomy 2. Salpingotomy	Post-Mx	Follow up in EPAS • Analgesia • Bereavement/ Counselling • Plans for future	Follow up in EPAS 1. Repeat HCG on Day 4, 7 post dose (↓15% expected) 2. Contraception for 3/12 post MTX – prevent teratogen	Follow up in EPAS ➢ Anti-D in Rh -ve women ➢ salpingostomy – risk of persistent trophoblastic disease ➢ counsel pain + grief	<ul style="list-style-type: none"> Emergency exploratory laparoscopy for ALL patients with suspected torsion (<i>even if imaging is inconclusive</i>) Pre-menopausal → adnexal detorsion and preservation of ovaries Post-menopausal → salpingo-oophorectomy <p>Additional:</p> <ul style="list-style-type: none"> ➢ Ovarian cystectomy and drainage (if indicated) ➢ Oophoropexy → fix ovary to abdominal wall to reduce motion OR shorten utero-ovarian ligaments <p>Long-term</p> <ul style="list-style-type: none"> ➢ COCP (prevent cyst formation) ➢ CA-125 and cancer work up 	<p>Unstable</p> <ul style="list-style-type: none"> DRS ABCD: <ul style="list-style-type: none"> Broad spectrum IV abx (cephalosporin + adjuncts) Analgesia <p>Stable = Mild-mod</p> <ul style="list-style-type: none"> outpt monitoring <p>Stable = Severe</p> <ul style="list-style-type: none"> surgery (NBM, anaesthetics, bowel prep) Previous meds (e.g. anti-coags, anti-DM, thyroid meds, COCP, anti-HTN) <p>FOLLOW-UP</p> <ul style="list-style-type: none"> Contact tracing of sexual partners (once swab results return) <ul style="list-style-type: none"> 2/12 if gonorrhoea 6/12 if chlamydia
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MISCARRIAGES

Criteria For Miscarriage (< 20wks GA or <500g birth wt)

- Early miscarriage = < 12 weeks of GA
- Late miscarriage = >12 weeks of GA
- Recurrent m/c = ≥3x consecutive miscarriages

CAUSE:

- **Maternal** (advanced age, extremes wt, previous substance abuse, TORCH)
- **Foetal** (aneuploidies, congenital abnormalities)

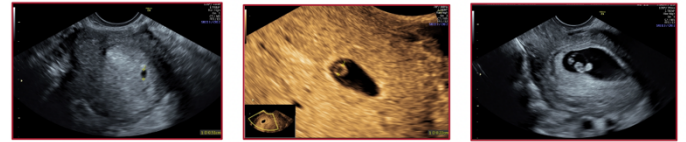
SIZE BASED CRITERIA [mainly]

- 1) Crown Rump Length (CRL) >7mm without Cardiac Activity
- 2) Discriminatory Mean Sac Diameter > 25mm + NO visible embryo

Time-based criteria:

- 1) Absence of Embryo with heart beat >14 days after a scan that showed Gestational Sac WITHOUT yolk sac
- 2) Absence of Embryo with heart beat >11 days after a scan that showed Gestational Sac WITH yolk sac

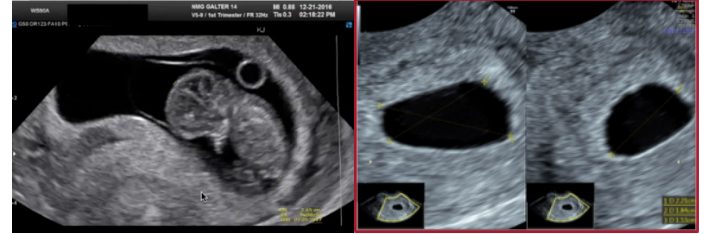
Sequence of Events in early pregnancy








4-5 weeks
Small Intrauterine Fluid collection- Round edges

5-6 weeks
Presence of YOLK SAC
Unequivocal sign of pregnancy

7-8 weeks
Appearance of embryo



	Threatened M/C	Inevitable M/C	Missed M/C (early fetal demise)	Blighted ovum (anembryonic gestation)	Incomplete M/C	Complete M/C
Cause	< 20 wks vaginal bleeding w/ open cervix		Biochemical loss (loss after +ve B-HCG but before USS) Clinical loss (loss confirmed on dating USS)	<ul style="list-style-type: none"> • Gestational sac with no embryo • Complex aneuploidy 	<ul style="list-style-type: none"> • Incomplete expulsion of POC • Higher risk of infection 	<ul style="list-style-type: none"> • No conception products in uterine cavity • No PAIN
PV bleed	Yes	Yes - POC seen	No	No	Yes	Yes
FHR	YES	No	No	No	No	No
VE	Closed os	Open OS	Closed os	Closed os	Open OS	Closed os
TVUS	<ul style="list-style-type: none"> • Ongoing pregnancy on USS (> 6 wks + FHB) • B-HCG > ++ 1000 Foetus may still be viable ➤ Intrauterine gestational sac seen ➤ Subchorionic hemorrhage (between chorion and endometrium) → large causes M/C	<ul style="list-style-type: none"> • Gestational sac and fetus seen low on endometrial cavity of cervical canal • FOETUS MAY BE ALIVE 	<ul style="list-style-type: none"> • Fetus no longer alive • NO FHB or symptoms • May progress to complete M/C 	<ul style="list-style-type: none"> • +ve B-HCG • Elliptical Intrauterine gestation sac >25mm with no embryo (can see trophoblastic enhancement) 	<ul style="list-style-type: none"> • NO FHB on USS • Mean gestational sac > 25mm without fetal pole • Medical Mx (MISO) or surgical Mx 	<ul style="list-style-type: none"> • NO FHB on USS 

Management of confirmed M/C + ectopic

	Expectant	Medical (<14 FA)	Surgical (≈ 12/40 GA)
Ind	<ul style="list-style-type: none"> ➤ Foetal pole < 30cm + Serum B-HCG < 200 + no FHB ➤ Threatened M/C or PUL ➤ Stable Patients <6 wks GA 	<ul style="list-style-type: none"> ➤ Adnexal mass < 35mm ➤ Serum B-HCG < 1500 + no FHB ➤ Haem stable (no pain) 	<ul style="list-style-type: none"> ➤ Foetal pole length > 35mm ➤ No hx of fertility ➤ FHB present
To do	<ul style="list-style-type: none"> ➤ Natural process (no meds or surgery) ➤ Watch and wait ➤ EPAS FU in 2 weeks ➤ Explain that is not lady's fault ➤ Discuss other Mx options - Advice pt pregnancy is ongoing <ul style="list-style-type: none"> ○ If threatened → May proceed normally w/ routine AN care, Avoid sex 	<ul style="list-style-type: none"> ➤ 200mg mifepristone RU486 = 90% (anti-PG to decrease placental adhesion) ➤ 800µg Misoprostol = 70% (PGE analogue) (PO if GA < 7 wks or PV if GA > 7 wks) → stimulate uterine contractions and cervical dilatation within 4-24 hrs ➤ A/E = Shivers, febrile, hypotN ➤ Managed in outpatients 	<ul style="list-style-type: none"> ➤ Suction + curettage (7-14 weeks) ➤ GA → plastic catheter sucker removes POC as bones NOT developed ➤ MISO prior to surgery? ➤ Dilatation and curettage (> 14 weeks) ➤ Cervix dilated + intracardiac injection (remove POC w/ forceps)
Adv.	<ul style="list-style-type: none"> ➤ No A/E of SURG/med Mx ➤ Best for incomplete M/C ➤ 50% self-resolve - may be asymptomatic w/ minimal free fluid (esp. if PUL) 	<ul style="list-style-type: none"> ➤ No need surgery ➤ 85% success ➤ EPAS FU → USS 2-3 wks after success Rx 	<ul style="list-style-type: none"> ➤ Low failure rate (< 5%) ➤ Can send POC for karyotyping and histopathology
Disadv	<ul style="list-style-type: none"> ➤ 25% failure rate ➤ Unpredictable time frame ➤ Heavier bleeding (1-2 wks) ➤ + more crampy pain → must be reported!!! ➤ More likely infection if lag time > 6 weeks ➤ Need close access to EPAS esp. <10/40 GA <ul style="list-style-type: none"> ○ Serial USS scans (until hCG < 20) ○ Repeat urine B-HCG 3 wks after symptoms settle to confirm complete M/C ○ Anti-D if Rh -ve 	<ul style="list-style-type: none"> ➤ A/E ➤ Pain, N/V/D + contraindicated if IUD present ➤ Heavier bleeds → falls risk ➤ Bleeding Pain Mx = heavy and painful periods ➤ Ibuprofen 600mg Q6H ➤ If no bleeding within 24 hrs → reattend and follow up at EPAS ➤ Order of delivery <ul style="list-style-type: none"> ➤ 200mg mife (taken when convenient) ➤ 800µg miso (24 hrs after mife) 	<ul style="list-style-type: none"> ➤ Infection - may need prophylactic ABx ➤ Uterine perforation ➤ Cervix damage or endometritis ➤ Bleeding ➤ Asherman's syndrome (XS curetting) (scar tissue build up in uterus) → abnormal periods → high dose COCP/IUD to shed basal layers where scar tissue forms Rx)

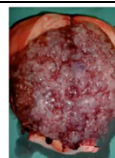
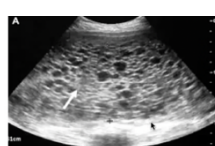
General Mx post M/C

1. **Anti-D** (for any Rh -ve women with positive HCG and vaginal bleeding) → 250IU in first trimester, 625 IU thereafter (prevent haemolytic disease of newborn)
2. **Serial B-HCG** - Confirm discontinuation of pregnancy
3. **Psych support** → address guilt/shame in women/partner experienced after loss → refer to EPAS + resources (pink elephants, SANDS)
4. **Counsel at EPAS** → when to start again? (e.g. after 4-6 weeks once periods resume)
5. **Future pregnancies** → previous M/C does not affect risk of future, check for chromosomal abnormalities
6. **Pre-pregnancy OCP/LARC advice** + **multivitamin** (e.g. elevit, folic acid, iodine, Vit D, Ca)
7. **Beware of complications** = haemorrhage, cervical shock, endometritis, septic abortion, POC

Reduce risk of recurrent M/C by:

- No smoking
- No substance abuse (EtOH)
- Healthy balanced diet
- Avoid infections e.g. rubella
- Avoid certain foods (e.g. soft cheese, cured or undercooked meats)
- Healthy BMI

EARLY PREGNANCY PRESENTATIONS

	RECURRENT MISCARRIAGE	HYPEREMESIS GRAVIDARUM	MOLAR PREGNANCY (1 IN 700)																								
Define	<ul style="list-style-type: none">3 or more consecutive miscarriages10% if women 20-30 yo50% in women 40-45 yo <p>CAUSE:</p> <ul style="list-style-type: none">Maternal (advanced age, extremes wt, previous substance abuse, TORCH infection)Foetal (aneuploidies, congenital abnormalities)	<ul style="list-style-type: none">Nausea and vomiting normal during 1st trimester esp. 10-12 weeks GA<ul style="list-style-type: none">Assoc. w/ levels of B-HCGHyperemesis Gravidarum = protracted nausea and persistent vomiting during pregnancy	<p>Gestational trophoblastic disease</p> <p>Hydatidiform mole = tumour that mimics pregnancy growing within uterus</p> <ul style="list-style-type: none">Complete mole (46XX) = 2x sperm fertilise egg (inactivated chromosome)Partial mole (69XXY) = Haploid egg fertilized by unreduced diploid sperm																								
Sx	<p>Miscarriage Sx</p> <ul style="list-style-type: none">+/- Pelvic pain (crampy)PV bleed – spotting, clots, POC (SHEDDING DECIDUA)PV discharge↓PREGNANCY Sx = Reduced nausea, breast tenderness <p>Exam</p> <ul style="list-style-type: none">Open /closed cervical osCervical motion tenderness	<p>Persistent vomiting and nausea PLUS:</p> <ul style="list-style-type: none">DehydrationMore than 5% wt loss related to pre-pregnancy weightElectrolyte imbalanceKetosis	<ul style="list-style-type: none">Bilateral lower abdo painSEVERE morning sicknessEnlarged Uterine size > than datesPV bleeding (menorrhagia)Thyrotoxicosis Sx (heat intol, palp, sweat) <p>Exam:</p> <ul style="list-style-type: none">Vitals (HTN, tachycardia)Adnexal tenderness on palpation																								
DDx	<ul style="list-style-type: none">IdiopathicAPSHereditary thrombophiliaUterine abnormalitiesGenetics (e.g. balanced translocations)Chronic histiocytic intervillositisChronic disease (T2DM, thyroid, cushing, SLE)	<ul style="list-style-type: none">Twins / multi-pregnanciesMolar pregnancyFood poisoning	<ul style="list-style-type: none">true pregnancy 																								
Ix	<p><u>Investigations should begin after:</u></p> <ul style="list-style-type: none">3 or more 1st trimester M/C1 or more 2nd trimester M/C <p><u>Tests:</u></p> <ul style="list-style-type: none">APS screen (Anti-cardiolipin, B2GP1, lupus anti-coagulant)Thrombophilia screen (Protein C/S def, Factor V Leiden, prothrombin gene mutation)Pelvic USS – uterine abnormalities<ul style="list-style-type: none">UTERINE SEPTUMUni vs bicornuate uterusCervical insufficiencyFibroidsGenetic test on:<ul style="list-style-type: none">ParentsProducts of conception	<ul style="list-style-type: none">Vitals and BMIFBC (high HCT = dehydrated)EUC = low Na, low KUA – ketosisUSS = exclude molar and multi-gestation <p>Severity assessed using Pregnancy-Unique Quantification of Emesis (PUQE) score.</p> <p>Total score is sum of replies to each of the three questions. PUQE-24 score: Mild < 6; Moderate = 7-12; Severe = 13-15.</p> <table border="1"><thead><tr><th colspan="6">Mothers PUQE-24 scoring system</th></tr></thead><tbody><tr><td>In the last 24 hours, for how long have you felt nauseated or sick to your stomach?</td><td>Not at all (1)</td><td>1 hour or less (2)</td><td>2-3 hours (3)</td><td>4-6 hours (4)</td><td>More than 6 hours (5)</td></tr><tr><td>In the last 24 hours have you vomited or thrown up?</td><td>7 or more times (5)</td><td>5-6 times (4)</td><td>3-4 times (3)</td><td>1-2 times (2)</td><td>I did not throw up (1)</td></tr><tr><td>In the last 24 hours how many times have you had retching or dry heaves without bringing anything up?</td><td>No time (1)</td><td>1-2 times (2)</td><td>3-4 times (3)</td><td>5-6 times (4)</td><td>7 or more times (5)</td></tr></tbody></table> <p>PUQE-24 score: Mild < 6; Moderate = 7-12; Severe = 13-15.</p>	Mothers PUQE-24 scoring system						In the last 24 hours, for how long have you felt nauseated or sick to your stomach?	Not at all (1)	1 hour or less (2)	2-3 hours (3)	4-6 hours (4)	More than 6 hours (5)	In the last 24 hours have you vomited or thrown up?	7 or more times (5)	5-6 times (4)	3-4 times (3)	1-2 times (2)	I did not throw up (1)	In the last 24 hours how many times have you had retching or dry heaves without bringing anything up?	No time (1)	1-2 times (2)	3-4 times (3)	5-6 times (4)	7 or more times (5)	<p>Bloods</p> <ul style="list-style-type: none">FBC (↑WBC)↑ ESRUrine + serum B-HCG – ABNORMALLY HIGHTSH/T3/T4 <p>TVUS</p> <ul style="list-style-type: none">"Snowstorms appearance"  <p>Hysteroscopy</p> <ul style="list-style-type: none">Biopsy + staging
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Comp.	<ul style="list-style-type: none">Recurrent M/C	<ul style="list-style-type: none">Severe dehydration – hypovol shock	<ul style="list-style-type: none">Choriocarcinoma (. germ cell tumour of ovary)Mets - death																								
Mx	<p>NO strong recommendations to prevent</p> <ul style="list-style-type: none">Anti-D if Rh -ve <p>If APS or SLE</p> <ul style="list-style-type: none">Low dose aspirinLMWH <p>PRISM trial</p> <ul style="list-style-type: none">Vaginal progesterone pessaries during early pregnancy for women with recurrent M/C	<p>Mild hyperemesis gravidarum</p> <ol style="list-style-type: none">PO hydration + PO anti-emetics (e.g. 1st line = cyclizine, prochlorperazine, (stemetil) Phenergan 2nd line = metoclopramidePPI or ranitide <p>When should I admit?</p> <ul style="list-style-type: none">Cannot tolerate PO anti-emetics or fluids> 5% weight loss compared to pre-pregnancy wtKetones present on urine dipstick <p>Mod-severe hyperemesis gravidarum:</p> <ol style="list-style-type: none">IV or IM antiemetics + L lateral position (↑VR)IVF resus – 0.9% NS + KCLDaily EUC monitoringB1 / thiamine supp. (prevent Korsakoff)Thromboprophylaxis (SC clexane)	<p>Mx:</p> <ol style="list-style-type: none">Surgical evacuation w/ soft plastic catheter (D+C)Send tissue to histopathology + register molar pregnancy15% require SYSTEMIC MTX chemo for persistently elevated B-HCG <p>Follow-up – 80% are benign</p> <ol style="list-style-type: none">Weekly Serial HCG monitoring until negative (then monthly for 6-12 months)Avoid pregnancy during follow upUse LARCs (barrier methods NOT COCP)F/U and counsel in EPAS for future pregnancies → higher risk of <p>For choriocarcinoma</p> <ul style="list-style-type: none">1st line = MTX (chemo) → 98% cure rates even for metastatic lung diseaseGood prognosis																								

TERMINATION OF PREGNANCY

TOP or abortion = elective procedure to end pregnancy

- If < 23 weeks = performed by doctor
- If > 23 weeks = 2x doctors must approve abortion (if mental well-being of mother is at risk, to save another fetus or if fetus has serious abnormality)

Medical Abortion

- Misoprostol = synthetic prostaglandin = induces uterine contractions
- Mifepristone = synthetic anti-progesterone = ↓embryo implantation
- Prostacyclin (PGI2) = arachidonic acid metabolite = relax uterine muscle tone (myometrium)

Surgical Abortion

- Local anaesthetic +/- sedation OR GA
- Cervical dilatation and suction of content of uterus (up to 14 weeks)
- Cervical dilatation and forceps removal (14-24 weeks)

Complications

- Bleeding, Pain, Infection
- Failure of the abortion (pregnancy continues)
- Damage to the cervix, uterus or other structures

Post-abortion care

- Advise PV bleed and abdo cramps for up to 2 weeks after procedure
- Urine B-HCG test 3 weeks after abortion to confirm success
- Anti-D for any Rh -ve women > 10/40

