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Review date: January 2022


Detail of changes to original guidance document

Since this guideline was first published, the following changes have been made:

October 2020 - Table 7, 9 and 12 has been updated to include additional advice regarding initiation of estradiol-containing combined oral contraceptives after pregnancy

Faculty of Sexual & Reproductive Healthcare (FSRH) provided funding to the Clinical Effectiveness Unit (of the FSRH) to assist them in the production of this guideline, Contraception After Pregnancy (January 2017, amended October 2020).

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Published in the UK

NICE accredited
www.nice.org.uk/accreditation

NICE has accredited the process used by the Faculty of Sexual & Reproductive Healthcare to produce this guideline. More information on accreditation can be viewed at www.nice.org.uk/accreditation.
# Abbreviations Used

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>APS</td>
<td>antiphospholipid syndrome</td>
</tr>
<tr>
<td>CEU</td>
<td>Clinical Effectiveness Unit</td>
</tr>
<tr>
<td>CHC</td>
<td>combined hormonal contraception/contraceptive</td>
</tr>
<tr>
<td>CI</td>
<td>confidence interval</td>
</tr>
<tr>
<td>COC</td>
<td>combined oral contraception/contraceptive</td>
</tr>
<tr>
<td>Cu-IUD</td>
<td>copper intrauterine device</td>
</tr>
<tr>
<td>CVR</td>
<td>combined contraceptive vaginal ring</td>
</tr>
<tr>
<td>DMPA</td>
<td>depot medroxyprogesterone acetate</td>
</tr>
<tr>
<td>EC</td>
<td>emergency contraception</td>
</tr>
<tr>
<td>EMA</td>
<td>early medical abortion</td>
</tr>
<tr>
<td>FAM</td>
<td>fertility awareness methods</td>
</tr>
<tr>
<td>FSRH</td>
<td>Faculty of Sexual &amp; Reproductive Healthcare</td>
</tr>
<tr>
<td>GBV</td>
<td>gender-based violence</td>
</tr>
<tr>
<td>GDG</td>
<td>guideline development group</td>
</tr>
<tr>
<td>GP</td>
<td>general practitioner</td>
</tr>
<tr>
<td>GTD</td>
<td>gestational trophoblastic disease</td>
</tr>
<tr>
<td>GTN</td>
<td>gestational trophoblastic neoplasia</td>
</tr>
<tr>
<td>hCG</td>
<td>human chorionic gonadotrophin</td>
</tr>
<tr>
<td>HR</td>
<td>hazard ratio</td>
</tr>
<tr>
<td>HSUP</td>
<td>high-sensitivity urinary pregnancy test</td>
</tr>
<tr>
<td>IM</td>
<td>intramuscular</td>
</tr>
<tr>
<td>IMP</td>
<td>progestogen-only implant</td>
</tr>
<tr>
<td>IPI</td>
<td>interpregnancy interval</td>
</tr>
<tr>
<td>IU</td>
<td>international unit</td>
</tr>
<tr>
<td>IUC</td>
<td>intrauterine contraception/contraceptive</td>
</tr>
<tr>
<td>LAM</td>
<td>lactational amenorrhoea method</td>
</tr>
<tr>
<td>LARC</td>
<td>long-acting reversible contraception/contraceptive</td>
</tr>
<tr>
<td>LNG-EC</td>
<td>levonorgestrel (for emergency contraception)</td>
</tr>
<tr>
<td>LNG-IUS</td>
<td>levonorgestrel-releasing intrauterine system</td>
</tr>
<tr>
<td>NICE</td>
<td>National Institute for Health and Care Excellence</td>
</tr>
<tr>
<td>OC</td>
<td>oral contraceptive</td>
</tr>
<tr>
<td>OR</td>
<td>odds ratio</td>
</tr>
<tr>
<td>PGD</td>
<td>patient group direction</td>
</tr>
<tr>
<td>POI</td>
<td>progestogen-only injectable</td>
</tr>
<tr>
<td>POP</td>
<td>progestogen-only pill</td>
</tr>
<tr>
<td>RCT</td>
<td>randomised controlled trial</td>
</tr>
<tr>
<td>RCOG</td>
<td>Royal College of Obstetricians &amp; Gynaecologists</td>
</tr>
<tr>
<td>RR</td>
<td>relative risk</td>
</tr>
<tr>
<td>SC</td>
<td>subcutaneous</td>
</tr>
<tr>
<td>SGA</td>
<td>small for gestational age</td>
</tr>
<tr>
<td>SPC</td>
<td>Summary of Product Characteristics</td>
</tr>
<tr>
<td>SRH</td>
<td>sexual and reproductive health</td>
</tr>
<tr>
<td>STI</td>
<td>sexually transmitted infection</td>
</tr>
<tr>
<td>UKMEC</td>
<td>UK Medical Eligibility for Contraceptive Use</td>
</tr>
<tr>
<td>UPA</td>
<td>ulipristal acetate</td>
</tr>
<tr>
<td>UPA-EC</td>
<td>ulipristal acetate (for emergency contraception)</td>
</tr>
<tr>
<td>UPSI</td>
<td>unprotected sexual intercourse</td>
</tr>
<tr>
<td>VTE</td>
<td>venous thromboembolism</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organization</td>
</tr>
<tr>
<td>WHO-EC</td>
<td>WHO Medical Eligibility for Contraceptive Use</td>
</tr>
</tbody>
</table>
Grading of Recommendations

Please refer to Appendix 1 for a full explanation of the classification of evidence level and grading of recommendations.

A
At least one meta-analysis, systematic review or randomised controlled trial (RCT) rated as 1++, and directly applicable to the target population;

or

A systematic review of RCTs or a body of evidence consisting principally of studies rated as 1+, directly applicable to the target population and demonstrating overall consistency of results.

B
A body of evidence including studies rated as 2++ directly applicable to the target population and demonstrating overall consistency of results;

or

Extrapolated evidence from studies rated as 1++ or 1+.

C
A body of evidence including studies rated as 2+ directly applicable to the target population and demonstrating overall consistency of results; or

Extrapolated evidence from studies rated as 2++.

D
Evidence level 3 or 4;

or

Extrapolated evidence from studies rated as 2+.

✓

Good Practice Point based on the clinical experience of the guideline development group.
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## Executive Summary of Recommendations

### 1. Introduction: Contraception after Pregnancy

**Discussion and provision of contraception after pregnancy**

**What methods of contraception are available in the UK?**

|   | Clinicians should refer to the relevant current FSRH guidelines, including the UK Medical Eligibility Criteria for Contraceptive Use (UKMEC), when making a clinical judgement on safe and appropriate methods of contraception for a woman after pregnancy. |

**Effectiveness of contraceptive method**

|   | Women should be informed during pregnancy about the effectiveness of different contraceptives, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after pregnancy. |

**Information giving and counselling**

|   | All clinicians involved in the care of pregnant women should provide the opportunity to discuss contraception. |
|   | Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception. |
|   | Clinicians should adopt a person-centred approach when providing contraceptive counselling. |
|   | Clinicians who are giving advice to women about contraception after pregnancy should ensure that this information is timely, up-to-date and accurate. |
|   | Comprehensive, unbiased and accurate information on contraceptive methods after pregnancy should be made available in different languages and formats including audio-visual. |

**Provision of contraception**

|   | Services providing care to pregnant women should be able to offer all appropriate methods of contraception, including LARC, to women before they are discharged from the service. |
|   | Services should ensure that there are sufficient numbers of staff able to provide intrauterine contraception (IUC) or progestogen-only implants (IMP) so that women who choose these methods and are medically eligible can initiate them immediately after pregnancy. |
|   | Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated. |
Discussing women’s contraceptive needs

Clinicians should discuss with the woman any medical or social factors that may be relevant to her choice of contraceptive method after pregnancy.

Record keeping and obtaining valid consent

Clinicians should clearly document the discussion and provision of contraception. Valid consent must be obtained before providing women with their chosen method.

Provision of continuing care and support

Clinicians should facilitate opportunities to discuss issues with the woman in private without a partner, friend or relative being present.

Clinicians should know how to enquire about gender-based violence (GBV) and how to support women affected by GBV and abuse, including providing access to information and referral to specialist support.

Services involved in the care of pregnant women should have agreed pathways of care to local community sexual and reproductive health (SRH) services for women with complex medical conditions or needs which may require specialist contraceptive advice.

Services should have agreed pathways of care to local services for women who may require additional non-medical care and support.

2. Contraception After Childbirth

Discussion and provision of contraception after childbirth

When should contraception after childbirth be discussed/provided?

Maternity services (including services providing antenatal, intrapartum and postpartum care) should give women opportunities to discuss their fertility intentions, contraception and preconception planning.

Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.

Effective contraception after childbirth should be initiated by both breastfeeding and non-breastfeeding women as soon as possible, as sexual activity and ovulation may resume very soon afterwards.

Maternity service providers should ensure that all women after pregnancy have access to the full range of contraceptives, including the most effective LARC methods, to start immediately after childbirth. This should not be limited to those women with conditions that may pose a significant health risk during pregnancy and vulnerable groups (including young people) at risk of a short interpregnancy interval (IPI) or an unintended pregnancy.
| ✓ | Women should be informed about the effectiveness of the different contraceptive methods, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after childbirth. |
| D | Clinicians should adopt a person-centred approach when providing women with contraceptive counselling. |
| ✓ | Clinicians who are giving advice to women about contraception after childbirth should ensure that this information is timely, up-to-date and accurate. |
| ✓ | Comprehensive, unbiased and accurate information on contraceptive methods postpartum should be made available in different languages and in a range of formats including audio-visual. |
| ✓ | Contraceptive counselling should be made available to women in the antenatal period to enable them to choose the method they wish to use after childbirth. |
| ✓ | Any contraceptive counselling (general or specialist) needs to be given in conjunction with easy access to contraception in the immediate postpartum period. |

**When can contraception after childbirth be initiated?**

| D | The choice of contraceptive method should be initiated by 21 days after childbirth. |
| D | A woman’s chosen method of contraception can be initiated immediately after childbirth if desired and she is medically eligible. |
| C | Women should be advised that intrauterine contraception (IUC) and progestogen-only implant (IMP) can be inserted immediately after delivery. |
| B | Clinicians should be aware that insertion of IMP soon after childbirth is convenient and highly acceptable to women. This has been associated with high continuation rates and a reduced risk of unintended pregnancy. |
| B | Clinicians should be aware that insertion of IUC at the time of either vaginal or caesarean delivery is convenient and highly acceptable to women. This has been associated with high continuation rates and a reduced risk of unintended pregnancy. |

**How long should a woman wait before trying to conceive again?**

| B | Women should be advised that an interpregnancy interval (IPI) of less than 12 months between childbirth and conceiving again is associated with an increased risk of preterm birth, low birthweight and small for gestational age (SGA) babies. |
Who should provide contraception to women after childbirth?

- Appropriately trained clinicians including sexual and reproductive health (SRH) doctors and nurses, obstetricians, midwives, nurses, general practitioners (GPs) and health visitors should be able to provide women with contraception after childbirth.

- Maternity services should be able to provide IUC and progestogen-only methods, including IMP, injectable (POI) or pill (POP), to women before they are discharged from the service after childbirth.

- Maternity services should ensure that there are sufficient numbers of staff able to provide IUC or IMP so that women who choose these methods and are medically eligible can initiate them immediately after childbirth.

- Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated.

- Maternity services should have agreed pathways of care to local specialist contraceptive services (e.g. community SRH services) for women with complex medical conditions or needs which may require specialist contraceptive advice.

- Maternity services should have agreed pathways of care to local services for women who may require additional non-medical care and support.

Record keeping and obtaining valid consent

- Clinicians should clearly document the discussion and provision of contraception after childbirth. Valid consent must be obtained before providing women with their chosen method.

Medical eligibility

Which methods of contraception are safe to use after childbirth?

- Women should be advised that although contraception is not required in the first 21 days after childbirth, most methods can be safely initiated immediately, with the exception of combined hormonal contraception (CHC).

Can women who develop medical problems during pregnancy safely use contraception after childbirth?

- Clinicians should discuss with the woman any personal characteristics or existing medical conditions, including those that have developed during pregnancy, which may affect her medical eligibility for contraceptive use.

Is emergency contraception (EC) safe to use after childbirth?

- Emergency contraception (EC) is indicated for women who have had unprotected sexual intercourse (UPSI) from 21 days after childbirth, but is not required before this.
Oral EC levonorgestrel 1.5 mg (LNG-EC) and ulipristal acetate 30 mg (UPA-EC) are safe to use from 21 days after childbirth. The copper intrauterine device (Cu-IUD) is safe to use for EC from 28 days after childbirth.

Women who breastfeed should be informed that available limited evidence indicates that LNG-EC has no adverse effects on breastfeeding or on their infants.

Women who breastfeed should be advised not to breastfeed and to express and discard milk for a week after they have taken UPA-EC.

Is additional contraception required after initiation of a method after childbirth?

Women should be advised that additional contraceptive precautions (e.g. barrier method/abstinence) are required if hormonal contraception is started 21 days or more after childbirth. Additional contraceptive precaution is not required if contraception is initiated immediately or within 21 days after childbirth.

Breastfeeding and contraception

Does initiation of hormonal contraceptives affect breastfeeding outcomes or infant outcomes?

Women who are breastfeeding should be informed that the available evidence indicates that progestogen-only methods of contraception (LNG-IUS, IMP, POI and POP) have no adverse effects on lactation, infant growth or development.

Women who are breastfeeding should wait until 6 weeks after childbirth before initiating a CHC method.

Women who are breastfeeding should be informed that there is currently limited evidence regarding the effects of CHC use on breastfeeding. However, the better quality studies of early initiation of CHC found no adverse effects on either breastfeeding performance (duration of breastfeeding, exclusivity and timing of initiation of supplemental feeding) or on infant outcomes (growth, health and development).

Can women who breastfeed effectively use lactational amenorrhoea method (LAM) as contraception?

Women may be advised that, if they are less than 6 months postpartum, amenorrhoeic and fully breastfeeding, the lactational amenorrhoea method (LAM) is a highly effective method of contraception.

Women using LAM should be advised that the risk of pregnancy is increased if the frequency of breastfeeding decreases (e.g. through stopping night feeds, starting or increasing supplementary feeding, use of dummies/pacifiers, expressing milk), when menstruation returns or when more than 6 months after childbirth.
### Method-specific considerations

**Intrauterine contraception (IUC)**

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>B IUC</td>
<td>can be safely inserted immediately after birth (within 10 minutes of delivery of the placenta) or within the first 48 hours after uncomplicated caesarean section or vaginal birth. After 48 hours, insertion should be delayed until 28 days after childbirth.</td>
</tr>
</tbody>
</table>

**Progestogen-only implants (IMP)**

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>C IMP</td>
<td>can be safely started at any time after childbirth including immediately after delivery.</td>
</tr>
</tbody>
</table>

**Progestogen-only injectable (POI)**

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>C POI</td>
<td>can be started at any time after childbirth, including immediately after delivery.</td>
</tr>
</tbody>
</table>

**Progestogen-only pills (POP)**

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>C POP</td>
<td>can be started at any time after childbirth, including immediately after delivery.</td>
</tr>
</tbody>
</table>

**Combined hormonal contraception (CHC)**

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>C CHC</td>
<td>All women should undergo a risk assessment for VTE postnatally. CHC should not be used by women who have risk factors for venous thromboembolism (VTE) within 6 weeks of childbirth. These include immobility, transfusion at delivery, body mass index (BMI) ≥30 kg/m², postpartum haemorrhage, post-caesarean delivery, pre-eclampsia or smoking. This applies to both women who are breastfeeding and not breastfeeding.</td>
</tr>
<tr>
<td>B Women</td>
<td>who are not breastfeeding and are without additional risk factors for VTE should wait until 21 days after childbirth before initiating a CHC method.</td>
</tr>
</tbody>
</table>

**Female sterilisation**

<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Female sterilisation</td>
<td>is a safe option for permanent contraception after childbirth.</td>
</tr>
<tr>
<td>A For sterilisation</td>
<td>after childbirth, both Filshie clips and modified Pomeroy technique are effective. Filshie clip application is quicker to perform.</td>
</tr>
<tr>
<td>D Women</td>
<td>should be advised that some LARC methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits. However, women should not feel pressured into choosing LARC over female sterilisation.</td>
</tr>
<tr>
<td>C Tubal occlusion</td>
<td>should ideally be performed after some time has elapsed following childbirth. Women who request tubal occlusion to be performed at the time of a delivery should be advised of the possible increased risk of regret.</td>
</tr>
</tbody>
</table>
Clinicians should ensure that written consent to be sterilised at caesarean section is obtained and documented at least 2 weeks in advance of a planned elective caesarean section.

### Barrier methods

D Male and female condoms can be safely used by women after childbirth.

D Women choosing to use a diaphragm should be advised to wait at least 6 weeks after childbirth before having it fitted because the size of diaphragm required may change as the uterus returns to normal size.

### Fertility awareness methods (FAM)

D Fertility awareness methods (FAM) can be used by women after childbirth. However, women should be advised that because FAM relies on the detection of the signs and symptoms of fertility and ovulation, its use may be difficult after childbirth and during breastfeeding.

### 3. Contraception After Abortion

**Discussion and provision of contraception after abortion**

When should contraception after abortion be discussed/provided?

D Abortion service providers should give women requesting abortion opportunities to discuss contraception.

✓ Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.

✓ Women should be informed about the effectiveness of the different contraceptive methods, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after abortion.

C Choice of contraception should be initiated at the time of abortion or soon after, as sexual activity and ovulation can resume very soon after abortion.

D Clinicians should adopt a person-centred approach when providing women with contraceptive counselling.

✓ Clinicians who are giving advice to women about contraception after abortion should ensure that this information is timely, up-to-date and accurate.

D Comprehensive, unbiased and accurate information on contraceptive methods after abortion should be made available in different languages and in a range of formats including audio-visual.
### When can contraception be initiated after abortion?

<table>
<thead>
<tr>
<th>Level</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>A woman’s chosen method of contraception should be initiated immediately after abortion (medical and surgical).</td>
</tr>
<tr>
<td>B</td>
<td>Clinicians should be aware that insertion of intrauterine contraception (IUC) at the time of abortion is convenient and highly acceptable to women. This has been associated with high continuation rates and a reduced risk for another unintended pregnancy than when provision of IUC is delayed.</td>
</tr>
<tr>
<td>B</td>
<td>Clinicians should be aware that insertion of progestogen-only implants (IMP) at the time of abortion is convenient and highly acceptable to women. This has been associated with high continuation rates and a reduced risk for another unintended pregnancy than when provision of IMP is delayed.</td>
</tr>
</tbody>
</table>

### Who should provide contraception to women after abortion?

- Abortion service providers should be able to offer all methods of contraception, including LARC, to women before they are discharged from the service after abortion.
- Abortion services should ensure that there are sufficient numbers of staff able to provide IUC or IMP so that women who choose these methods and are medically eligible can initiate them immediately after abortion.
- Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated.
- Abortion services should have agreed pathways of care to local specialist contraceptive services [e.g. community sexual and reproductive health (SRH) services] for women with complex medical conditions or needs which may require specialist contraceptive advice.
- There should be agreed pathways of care to local services for women who may require additional non-medical care and support.

### Which contraceptive methods are most effective in preventing another abortion?

<table>
<thead>
<tr>
<th>Level</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Clinicians should be aware that women who choose to commence LARC immediately after abortion have a significantly reduced likelihood of undergoing another abortion within 2 years, compared with women provided with medium-acting, short-acting or no contraceptive methods.</td>
</tr>
</tbody>
</table>

### Record keeping and obtaining valid consent

<table>
<thead>
<tr>
<th>Level</th>
<th>Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Clinicians should clearly document the discussion and provision of contraception. Valid consent must be obtained before providing women with their chosen method.</td>
</tr>
</tbody>
</table>

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*Copyright ©Faculty of Sexual & Reproductive Healthcare 2017*
### Medical eligibility

**Which methods of contraception are safe to use after abortion?**

<table>
<thead>
<tr>
<th>D</th>
<th>Women should be advised that any method of contraception can be safely initiated immediately after an uncomplicated abortion.</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>IUC should not be inserted in the presence of postabortion sepsis.</td>
</tr>
</tbody>
</table>

**Is emergency contraception (EC) safe to use after abortion?**

| ✓ | Emergency contraception (EC) is indicated for women who have had unprotected sexual intercourse (UPSI) from 5 days after abortion. |
| ✓ | Women should be advised that any method of EC can be safely used after an uncomplicated abortion. |

**Is additional contraception required after initiation of a method after abortion?**

| ✓ | Women should be advised that additional contraceptive precautions (e.g. barrier methods/abstinence) are required if hormonal contraception is started 5 days or more after abortion. Additional contraceptive precaution is not required if contraception is initiated immediately or within 5 days of abortion. |

### Method-specific consideration

**Intrauterine contraception (IUC)**

| A | IUC can be safely used by women after an uncomplicated abortion. Women may be advised that they may benefit from reduced uterine bleeding when using levonorgestrel-releasing intrauterine system (LNG-IUS). |
| D | With medical abortion, IUC can be inserted any time after expulsion of the pregnancy. |
| A | With surgical abortion, IUC can be inserted immediately after evacuation of the uterine cavity. |

**Progestogen-only contraception**

| B | Progestogen-only contraception can be safely started at any time, including immediately, after medical or surgical abortion. |
| B | Women should be advised that IMP can be safely initiated at the time of mifepristone administration. |
| B | Women should be advised that there may be a slightly higher risk of continuing pregnancy (failed abortion) if DMPA is initiated at the time of mifepristone administration. |
| ✓ | Women should be advised that scant or absent bleeding should not be attributed to a hormonal method of contraception that has been initiated, but that it may be due to failed medical abortion. Under such circumstances, urgent medical review should be sought. |
## Combined hormonal contraception (CHC)

- **B** Combined hormonal contraception (CHC) can be safely started immediately at any time after abortion.

## Female Sterilisation

- **D** Female sterilisation is a safe option for permanent contraception after abortion.
- ✓ Women should be advised that some LARC methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits. However, women should not feel pressured into choosing LARC over female sterilisation.
- **B** Tubal occlusion should ideally be performed after some time has elapsed after abortion. Women who request tubal occlusion to be performed at the time of abortion should be advised of the possible increased failure rate and risk of regret.
- ✓ Clinicians should ensure that consent from the woman to conduct female sterilisation at the same time as surgical abortion is taken and documented in advance of the abortion.

## Barrier methods

- **D** Condoms (male and female) can be used by women after abortion.
- **D** Women choosing to use a diaphragm should be advised to wait at least 6 weeks after second-trimester abortion because the size of diaphragm required may change as the uterus returns to normal size.

## Fertility awareness methods (FAM)

- **D** Fertility awareness methods (FAM) can be used by women after abortion. However, women should be advised that because FAM relies on the detection of the signs and symptoms of fertility and ovulation, its use may be difficult after abortion.

### 4. Contraception After Ectopic Pregnancy or Miscarriage

#### Discussion and provision of contraception after ectopic pregnancy or miscarriage

**When should contraception be discussed/provided?**

- ✓ Services providing care to women with ectopic pregnancy or miscarriage should give them opportunities to discuss their fertility intentions, contraception and preconception planning.
- ✓ Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.
- **D** If a woman wishes to delay or prevent a further pregnancy, effective contraception should be initiated as soon as possible as sexual activity and ovulation may resume very soon after ectopic pregnancy or miscarriage.
A woman’s chosen method of contraception should ideally be initiated immediately after treatment for ectopic pregnancy or miscarriage.

Women should be informed about the effectiveness of the different contraceptive methods, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after ectopic pregnancy or miscarriage.

Clinicians should adopt a person-centred approach when providing women with contraceptive counselling.

Clinicians who are giving advice to women about contraception after ectopic pregnancy or miscarriage should ensure that this information is timely, up-to-date and accurate.

**How long should a woman wait before trying to conceive again after ectopic pregnancy or miscarriage?**

Women who wish to conceive after miscarriage can be advised there is no need to delay as pregnancy outcomes after miscarriage are more favourable when conception occurs within 6 months of miscarriage compared with after 6 months.

Women who have been treated with methotrexate should be advised that effective contraception is recommended during and for at least 3 months after treatment in view of the teratogenic effects of this medication.

Women should be advised that effective contraception can be started on the day of methotrexate administration or surgical management of ectopic pregnancy.

**Who should provide contraception after ectopic pregnancy or miscarriage?**

Services involved in the care of women who have had an ectopic pregnancy or miscarriage should be able to offer all methods of contraception, including LARC, to women before they are discharged from the service.

Services should ensure that there are sufficient numbers of staff able to provide intrauterine contraception (IUC) or progestogen-only implant (IMP) so that women who choose these methods and are medically eligible can initiate them immediately after treatment.

Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated.

Services should have agreed pathways of care to local specialist contraceptive services [e.g. community sexual reproductive health (SRH) services] for women with complex medical conditions or needs which may require specialist contraceptive advice.
Services should have agreed pathways of care to local services for women who may require additional non-medical care and support.

**Record keeping and obtaining valid consent**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Clinicians should clearly document the discussion and provision of contraception. Valid consent must be obtained before providing women with their chosen method of contraception.</td>
</tr>
</tbody>
</table>

**Medical eligibility**

Which contraceptive methods are safe to use after ectopic pregnancy or miscarriage?

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>Clinicians should refer to the method-specific recommendations for abortion which may be extrapolated for use after ectopic pregnancy or miscarriage.</td>
</tr>
<tr>
<td>D</td>
<td>Women should be advised that any method of contraception can be safely initiated immediately after methotrexate administration or surgical treatment of ectopic pregnancy.</td>
</tr>
<tr>
<td>D</td>
<td>Women should be advised that any method of contraception can be safely initiated immediately after treatment for miscarriage.</td>
</tr>
<tr>
<td>C</td>
<td>IUC can be inserted after miscarriage as soon as expulsion has occurred at surgery or after medical or expectant management.</td>
</tr>
<tr>
<td>C</td>
<td>IUC should not be inserted in the presence of sepsis after ectopic pregnancy or miscarriage.</td>
</tr>
</tbody>
</table>

Is emergency contraception (EC) safe to use after ectopic pregnancy or miscarriage?

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>Emergency contraception (EC) is indicated if unprotected sexual intercourse (UPSI) takes place more than 5 days after methotrexate administration or surgical treatment of ectopic pregnancy.</td>
</tr>
<tr>
<td>B</td>
<td>Women should be advised that any method of EC can be safely used after ectopic pregnancy or miscarriage.</td>
</tr>
</tbody>
</table>

Is additional contraception required after initiation of a method after ectopic pregnancy or miscarriage?

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>Women should be advised that additional contraceptive precautions (e.g. barrier methods/abstinence) are required if hormonal contraception is started 5 days or more after miscarriage. Additional contraceptive precaution is not required if contraception is initiated immediately or within 5 days of miscarriage.</td>
</tr>
</tbody>
</table>
Women should be advised that additional contraceptive precautions (e.g. barrier methods/abstinence) are required if hormonal contraception is started 5 days or more after surgical treatment or administration of methotrexate for ectopic pregnancy. Additional contraceptive precaution is not required if contraception is initiated immediately or within 5 days of treatment of ectopic pregnancy.

Specific issues
What are the implications of recurrent miscarriage on contraceptive choice?

Women who have had recurrent early miscarriage (REM) should be investigated for any underlying causes. However, investigations should not lead to a delay in initiation of a contraceptive method if the woman does not wish to become pregnant.

Combined hormonal contraception (CHC) should be avoided by women with REM until antiphospholipid syndrome (APS) has been excluded.

Is there any method associated with a risk of another ectopic pregnancy?

Women should be advised that the absolute risk of ectopic pregnancy when contraception is used is extremely small and that the risk of pregnancy is lowest with LARC.

Women should be advised to seek medical advice if they suspect they may be pregnant and have symptoms suggestive of ectopic pregnancy, even while using contraception.

Women who have had an ectopic pregnancy should be advised that the IUC is one of the most effective methods of contraception and so the absolute risk of any pregnancy including ectopic pregnancy is extremely low.

Women should be informed that if pregnancy occurs with an IUC in situ, there is an increased risk of ectopic pregnancy and therefore the location of the pregnancy should be confirmed by ultrasound as soon as possible.

5. Contraception After Gestational Trophoblastic Disease (GTD)

Discussion and provision of contraception after GTD

When should contraception be discussed/provided?

Services that provide care to women who have/had gestational trophoblastic disease (GTD) should give them opportunities to discuss their fertility intentions, contraception and preconception planning.

Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.

Women should be advised to avoid subsequent pregnancy until GTD monitoring is complete. Effective contraception should be started as soon as possible as sexual activity and fertility may resume very soon after GTD.
| ✔ | Women should be informed about the effectiveness of the different contraceptive methods, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after GTD. |
| D | Clinicians should adopt a person-centred approach when providing women with contraceptive counselling. |
| ✔ | Clinicians who are giving advice to women about contraception after GTD should ensure that this information is timely, up-to-date and accurate. |
| ✔ | Comprehensive, unbiased and accurate information on contraceptive methods after GTD should be made available in different languages and in a range of formats including audio-visual. |

**Are fertility and pregnancy outcomes affected after GTD?**

| C | Clinicians should reassure women with GTD that fertility and pregnancy outcomes are favourable after GTD, including after chemotherapy for gestational trophoblastic neoplasia (GTN). However, there is an increased risk of GTD in subsequent pregnancy. |

**How long should a woman wait after GTD before trying to conceive?**

| D | After complete molar pregnancy, women should be advised to avoid subsequent pregnancy for at least 6 months to allow human chorionic gonadotrophin (hCG) monitoring for ongoing GTD. |
| D | After partial molar pregnancy, women should be advised to avoid pregnancy until two consecutive monthly hCG levels are normal. |
| D | Women who have had chemotherapy for GTD should be advised to avoid pregnancy for 1 year after treatment is complete. |

**Who should provide contraception to women after GTD?**

| ✔ | Services involved in the care of women with GTD should be able to offer all methods of contraception, including LARC, to women before they are discharged from the service. |
| ✔ | Services should ensure that there are sufficient numbers of staff able to provide progestogen-only implant (IMP) so that women who choose this method and are medically eligible can initiate the method immediately after treatment. |
| ✔ | Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated. |
| ✔ | Services should have agreed pathways of care to local specialist contraceptive services (e.g. community sexual and reproductive health (SRH) services) for women with complex medical conditions or needs which may require specialist contraceptive advice. |
Services should have agreed pathways of care to local services for women who may require additional non-medical care and support.

Record keeping and obtaining valid consent

Clinicians should clearly document the discussion and provision of contraception. Valid consent must be obtained before providing women with their chosen method of contraception.

Medical eligibility

Which contraceptive methods are safe to use after GTD?

Women should be advised that most methods of contraception can be safely used after treatment for GTD and can be started immediately after uterine evacuation, with the exception of intrauterine contraception (IUC).

IUC should not be inserted in women with persistently elevated hCG levels or malignant disease.

IUC should not normally be inserted until hCG levels have normalised but may be considered on specialist advice with insertion in a specialist setting for women with decreasing hCG levels following discussion with a GTD centre.

Is emergency contraception (EC) safe to use after GTD?

Emergency contraception (EC) is indicated if unprotected sexual intercourse (UPSI) takes place from 5 days after treatment for GTD.

Women should be advised that use of oral EC is safe after treatment for GTD. Insertion of copper intrauterine device (Cu-IUD) for EC may be considered in a specialist setting for women with decreasing hCG levels following discussion with a GTD centre.

Is additional contraception required after initiation of a method after GTD?

Women should be advised that additional contraceptive precautions (e.g. barrier methods/abstinence) are required if hormonal contraception is started 5 days or more after treatment for GTD. Additional contraceptive precaution is not required if contraception is initiated immediately or within 5 days of treatment for GTD.

Method-specific considerations

Intrauterine Contraception (IUC)

IUC should not normally be inserted until hCG levels have normalised after GTD. Insertion of Cu-IUD as EC may be considered in a specialist setting for women with decreasing hCG levels following discussion with a GTD centre.
IUC insertion at surgical evacuation where GTD is suspected but not confirmed should be made on an individual case basis based upon the individual woman’s risk for GTD, clinical findings and her preference for IUC insertion at this time.

**Hormonal contraception**

- **B** Hormonal contraception can be started immediately after uterine evacuation for GTD.

**Female sterilisation**

- **D** Female sterilisation is a safe option for permanent contraception after GTD.
- **✓** Women should be advised that some LARC methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits. However, women should not feel pressured into choosing LARC over female sterilisation.
- **D** Tubal occlusion should ideally be performed after some time has elapsed after surgical evacuation for GTD. Women who request tubal occlusion to be performed at the time of surgical treatment should be advised of the possible increased failure rate and risk of regret.

**Barrier methods**

- **D** Condoms (male and female) can be used by women after treatment for GTD.
- **✓** Women who choose a diaphragm should be advised to wait at least 6 weeks after treatment for GTD because the required size of diaphragm may change as the uterus returns to normal size.

**Fertility awareness methods (FAM)**

- **✓** Fertility awareness methods (FAM) can be used by women after treatment for GTD. However, women should be advised that because FAM relies on the detection of the signs and symptoms of fertility and ovulation, its use may be difficult after treatment for GTD.

**Specific issues**

**Is there any method associated with a risk of GTD in subsequent pregnancies?**

- **D** Clinicians should inform women that there is no evidence that the use of any contraceptive method after an episode of GTD increases the risk of GTD in a subsequent pregnancy.
Contraception After Pregnancy

1. Introduction: Contraception After Pregnancy

1.1 Purpose and scope

This new guideline brings together evidence and expert opinion on the provision of contraception to women after childbirth, abortion, ectopic pregnancy, miscarriage or gestational trophoblastic disease (GTD). It replaces the 2009 Faculty of Sexual & Reproductive Healthcare (FSRH) clinical guideline Postnatal Sexual and Reproductive Health.1

This guideline is for use by UK clinicians including sexual and reproductive health (SRH) clinicians, obstetricians, gynaecologists, midwives, general practitioners (GPs), nurses, and health visitors involved in caring for women during and after pregnancy. Typical settings where this guideline would be relevant include maternity services, abortion services, early pregnancy assessment units, general gynaecology services, integrated sexual health clinics and general practice.

It is hoped that this guideline will be implemented across all relevant services in the UK and will promote a more collaborative and consistent approach to providing the highest standard of contraceptive care to all women after pregnancy.

Key considerations of this guideline include:

► When should contraception be discussed/provided?
► Who should provide contraception?
► Which contraceptive methods are most effective?
► Which methods of contraception are safe to use?
► Are there method-specific issues to consider?
► Are there other SRH issues to consider?

This guideline was developed by the FSRH and endorsed by the Royal College of General Practitioners (RCGP), Royal College of Midwives (RCM), Royal College of Nursing (RCN) and Royal College of Obstetricians and Gynaecologists (RCOG).

1.2 Introduction and background – Why it is important to address contraception after pregnancy

1.2.1 Prevention of unintended pregnancies: a national health priority

In the UK, it is estimated that as many as one in three pregnancies ends in an abortion and one in three pregnancies that continues to term may have originally been unintended.2,3 A recent UK study4 reported that almost 1 in 13 women presenting for an abortion or delivery had conceived within a year of a previous birth.
A short interpregnancy interval (IPI) of less than 12 months increases the risk of complications including preterm birth, low birthweight, stillbirth and neonatal death. Currently, the World Health Organization (WHO) recommends a 24-month IPI after childbirth.

All national SRH strategies across the UK highlight the importance of contraception for women after pregnancy, especially for women identified as being from vulnerable groups (e.g. young people) who are at high risk of future unintended pregnancy. Accessing timely contraceptive counselling and the full range of contraceptive methods will enable women to plan the number of children they would like to have and the optimum spacing between them.

Pregnancy is a key reproductive event when women are in contact with healthcare services, creating an opportunity to discuss contraceptive choice and provide contraception to women motivated to avoid a future unintended pregnancy. This clinical guideline provides a framework of recommendations to support clinicians and services involved in the care of women during pregnancy to discuss and, if appropriate, initiate contraception at different points during their care pathways.

1.2.2 Improving women’s access to contraception after pregnancy: a collaborative approach

All women who are pregnant should receive the highest standard of contraceptive care, regardless of pregnancy outcome and irrespective of where they receive their care and by whom care is provided. There are a number of UK and European clinical guidelines currently available to healthcare providers caring for women after childbirth, abortion, early pregnancy loss (including ectopic pregnancy and miscarriage) and GTD. These guidelines consider separate pregnancy outcomes, with inconsistent consideration of contraceptive needs. This clinical guideline consolidates the recommendations for contraception after all pregnancy outcomes, based on the most up-to-date evidence and on expert consensus, into one comprehensive document to guide clinical practice.

The development of this clinical guideline has presented an opportunity to bring together experts from different disciplines to develop an integrated approach to the provision of contraception to women after pregnancy. This collaborative approach will hopefully lead to a well-trained workforce, improved care pathways and the sharing of good practice, which will contribute to improving the quality of care received by women after a pregnancy.

1.3 Identification and assessment of the evidence

This guideline was developed in accordance with standard methodology for developing FSRH clinical guidelines. The recommendations made within this document are based on the best available evidence and the consensus opinion of experts and the guideline development group (GDG). The methodology used in developing this guideline and a list of GDG members and other contributors can be found in Appendix 1.

The recommendations included should be used to guide clinical practice but are not intended to serve alone as a standard of medical care or to replace clinical judgement in the management of individual cases.
1.4 Discussion and provision of contraception after pregnancy

1.4.1 What methods of contraception are available in the UK?

Clinicians should refer to the relevant current FSRH guidelines, including the UK Medical Eligibility Criteria for Contraceptive Use (UKMEC), when making a clinical judgement on safe and appropriate methods of contraception for a woman after pregnancy.

The recommendations are intended to inform practice in the UK; therefore only contraceptive methods and practices utilised in the UK are included. FSRH clinical guidelines on the methods of contraception available in the UK can be accessed from the FSRH website.

- Intrauterine contraception (IUC)
- Progestogen-only implant (IMP)
- Progestogen-only injectable contraception (POI)
- Progestogen-only pill (POP)
- Combined hormonal contraception (CHC)
- Emergency contraception (EC)
- Barrier methods for contraception and sexually transmitted infection (STI) prevention
- Male and female sterilisation
- Fertility awareness methods (FAM).

1.4.2 What is the UK Medical Eligibility Criteria for Contraceptive Use (UKMEC)?

The UK Medical Eligibility Criteria for Contraceptive Use (UKMEC) provides recommendations for the safe use of contraception including categories for women after childbirth (postpartum) and abortion (including miscarriage). It also provides recommendations for women with a history of ectopic pregnancy or with current GTD. The relevant UKMEC categories will be presented in the relevant sections for the different pregnancy outcomes. For each of the personal characteristics or medical conditions considered by the UKMEC, a category 1, 2, 3 or 4 is given. The definitions of the categories are given in Table 1.

**Table 1: Definition of UK Medical Eligibility Criteria for Contraceptive Use (UKMEC) categories**

<table>
<thead>
<tr>
<th>UKMEC</th>
<th>Definition of category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 1</td>
<td>A condition for which there is no restriction for the use of the method.</td>
</tr>
<tr>
<td>Category 2</td>
<td>A condition where the advantages of using the method generally outweigh the theoretical or proven risks.</td>
</tr>
<tr>
<td>Category 3</td>
<td>A condition where the theoretical or proven risks usually outweigh the advantages of using the method. The provision of a method requires expert clinical judgement and/or referral to a specialist contraceptive provider, since use of the method is not usually recommended unless other more appropriate methods are not available or not acceptable.</td>
</tr>
<tr>
<td>Category 4</td>
<td>A condition which represents an unacceptable health risk if the method is used.</td>
</tr>
</tbody>
</table>
Clinicians should ensure they are familiar with, or refer to, the current version of the UKMEC. Unless specifically stated, UKMEC does not take account of multiple health conditions. Clinical judgement is required when making an assessment of a woman’s medical eligibility, which should take into consideration her personal characteristics and other co-existing medical conditions. These evidence-based recommendations apply only to the safety of contraceptive use and do not indicate a best method for a woman nor do they take into account method efficacy (which could be affected by drug interactions or malabsorption).

1.4.3 Effectiveness of contraceptive method

Women should be informed during pregnancy about the effectiveness of different contraceptives, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after pregnancy.

Provided the woman is medically eligible to use a particular method, she should be free to choose the method that is most acceptable to her. Many factors determine the method of contraception a woman chooses to use. Women should be informed about the effectiveness of different contraceptives, including highly effective long-acting reversible contraception (LARC).¹⁹

Methods that require consistent and correct use by individuals have a wide range of effectiveness and can vary greatly with the user’s characteristics such as age, socioeconomic status, users’ desires to prevent or delay pregnancy, and culture. Table 2 compares the percentage of women experiencing an unintended pregnancy during the first year of contraceptive use when the method is used ‘typically’ (which includes both incorrect and inconsistent use) or ‘perfectly’ (correct and consistent use).²⁰ Methods considered to be LARC are highlighted. A pictorial chart on the effectiveness of family planning methods is available from the Centers for Disease Control and Prevention (CDC) website.

Table 2: Percentage of women experiencing an unintended pregnancy within the first year of use with typical use and perfect use (modified from Trussell, 2011)²⁰

<table>
<thead>
<tr>
<th>Method</th>
<th>Typical use (%)</th>
<th>Perfect use (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No method</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>Fertility awareness-based methods</td>
<td>24</td>
<td>0.4–5</td>
</tr>
<tr>
<td>Female diaphragm</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>Male condom</td>
<td>18</td>
<td>2</td>
</tr>
<tr>
<td>Combined hormonal contraception*</td>
<td>9</td>
<td>0.3</td>
</tr>
<tr>
<td>Progestogen-only pills</td>
<td>9</td>
<td>0.3</td>
</tr>
<tr>
<td>Progestogen-only injectables</td>
<td>6</td>
<td>0.2</td>
</tr>
<tr>
<td>Copper intrauterine device</td>
<td>0.8</td>
<td>0.6</td>
</tr>
<tr>
<td>Levonorgestrel-releasing intrauterine system</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Progestogen-only implant</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>Female sterilisation</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Vasectomy</td>
<td>0.15</td>
<td>0.1</td>
</tr>
</tbody>
</table>

*Includes combined oral contraception, transdermal patch and vaginal rings. Long-acting reversible contraceptive methods have been highlighted in grey.
1.4.4 Information giving and counselling

- All clinicians involved in the care of pregnant women should provide the opportunity to discuss contraception.
- Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.
- Clinicians should adopt a person-centred approach when providing contraceptive counselling.
- Clinicians who are giving advice to women about contraception after pregnancy should ensure that this information is timely, up-to-date and accurate.
- Comprehensive, unbiased and accurate information on contraceptive methods after pregnancy should be made available in different languages and formats including audio-visual.

All service providers involved in the care of women during pregnancy have a role to play in supporting women in their choice of contraception after pregnancy. This involves raising awareness of the importance of contraception (e.g. posters in waiting rooms), making educational resources available for women (e.g. leaflets and audio-visuals), engaging women in general discussions about effective contraceptive use, providing specialist contraception counselling, and supplying chosen methods of contraception.

Women should not feel pressured into using contraception or any particular method. Any contraceptive counselling (general or specialist) needs to be provided in conjunction with availability of method provision. Further, the woman will need to have had the time to consider her contraceptive options in order to make an informed choice. Therefore it is important that women are offered opportunities for discussing and obtaining information about contraception throughout the care pathway. After contraceptive discussion and counselling, women need to be encouraged to make an informed choice and to decide on their chosen method so that this can be initiated or planned for without delay.

It is important that clinicians are trained and supported to provide general and specialist contraceptive counselling using a person-centred and non-judgemental approach,\textsuperscript{21,22} taking into account the woman’s sexual and reproductive history, specific preferences, expectations, feelings and beliefs regarding contraception as well as social, cultural, psychological and economic backgrounds.\textsuperscript{23,24} Ascertaining the degree to which women and/or couples want autonomy in their decision-making is important when providing contraceptive counselling, as is understanding when provider involvement is wanted by the woman.\textsuperscript{21,22,25} Evidence level 4

All efforts should be made to increase women’s knowledge and positive attitude towards the use of effective contraceptive methods through counselling and information provision. This will enable women to make safe and effective contraceptive choices for themselves.
Information about contraception that is easily understood, unbiased and accurate should be made available to women in different languages and formats including audio-visual. This is important as national reports on adult literacy\textsuperscript{26–29} have estimated that a sizeable proportion of adults in the UK have low levels of literacy. This suggests that many women may not be able to understand the content of written information leaflets.

Women should also be advised about where to find information online about contraception and SRH services (e.g. NHS Choices website\textsuperscript{30} or the Family Planning Association (FPA) website/app\textsuperscript{31}) or their local SRH website, which can also provide accurate information on referral pathways into primary care or community SRH services.

1.4.5 Provision of contraception

- Services providing care to pregnant women should be able to offer all appropriate methods of contraception, including LARC, to women before they are discharged from the service.

- Services should ensure that there are sufficient numbers of staff able to provide intrauterine contraception (IUC) or progestogen-only implants (IMP) so that women who choose these methods and are medically eligible can initiate them immediately after pregnancy.

- Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated.

Services providing care to pregnant women should ensure that they have appropriately trained staff and the facilities to provide women with their chosen method of contraception (where medically eligible and appropriate) after pregnancy. Maternity, abortion and early pregnancy loss services should include staff able to provide intrauterine contraception (IUC), including the copper intrauterine device (Cu-IUD) and the levonorgestrel-releasing intrauterine system (LNG-IUS) or IMP.

The FSRH offers online and practical training leading to certification (Letter of Competence)\textsuperscript{32} for doctors, nurses, midwives and health visitors wishing to undertake implant insertion. The Diplomate Assessment of the FSRH for nurses (NDFSRH) is available to nurses and midwives registered with the UK Nursing & Midwifery Council. Access to training and use of patient group directions (PGDs) should be available for nurses and midwives, to deliver contraception, including LARC.

If services are unable to provide women with their chosen method of contraception, they should inform women about where they can access contraception (e.g. GP, specialist contraceptive services) or direct them to an appropriate service in the local community if available. A temporary (bridging) method should be provided until the woman’s chosen method of contraception can be initiated.
1.4.6 Discussing women’s contraceptive needs

 Clinicians should discuss with the woman any medical or social factors that may be relevant to her choice of contraceptive method after pregnancy.

Some women may not wish or need to use contraception after pregnancy for cultural, religious, relationship or other reasons. Conversely, women who have needed fertility treatment in the past are not necessarily infertile and so may now require contraception. Consideration should always be given to women’s risk of acquiring or transmitting STIs. Condoms may be needed to reduce the risk of STI acquisition or transmission as well as preventing pregnancy, either alone or as backup to another contraceptive method.

Prior to prescribing any form of contraception for use after pregnancy, clinicians should take into consideration a woman's:

- Contraceptive needs (e.g. degree of efficacy required)
- Sexual activity and sexual problems
- Personal beliefs, attitudes and preferences
- Sociocultural practices that may impact on choice of method
- Social factors (e.g. return to work, ability to access services for initiation/follow-up)
- Medical history [e.g. hypertension, migraine, venous thromboembolism (VTE), obesity, cholestasis, trophoblastic disease] and status [e.g. human immunodeficiency virus (HIV) status]
- Risk of acquiring or transmitting STIs.

Further, an assessment should be made to determine whether:

- The woman plans to breastfeed
- Ovulation is likely to have resumed
- The woman could be pregnant.

For guidance on sexual history taking and STI testing, please refer to the British Association for Sexual Health and HIV (BASHH) website.

1.4.7 Record keeping and obtaining valid consent

 Clinicians should clearly document the discussion and provision of contraception. Valid consent must be obtained before providing women with their chosen method.

The FSRH guidance Service Standards for Record Keeping\textsuperscript{33} highlights the importance of diligent recording so that clinicians and other staff can readily access information to provide high-quality care. This facilitates continuity of care when a woman receives care from multiple members of staff within a service and/or when women are referred to other services.

Evidence level 4
The FSRH guidance *Service Standards on Obtaining Valid Consent in Sexual Health Services* highlights that clinicians should be aware of the procedures for obtaining valid consent, which includes the purpose, process, assessment of capacity, provision of information and assessment of a patient's autonomy. The clinician providing contraception to the woman is responsible for ensuring that the woman has given valid consent before initiating the method. Valid consent may be given in a number of ways but should always be documented.

Clinicians should clearly document the method of contraception provided to women. If this is IUC or IMP, then the type of device, and when replacement is required, should be clearly documented. Women who have been fitted with IUC should be provided with clear verbal and written information on what signs and symptoms would indicate that they should seek medical attention for a possible complication, when to have a thread check and when the device needs replacing.

### 1.4.8 Provision of continuing care and support

| Green ✓  | Clinicians should facilitate opportunities to discuss issues with the woman in private without a partner, friend or relative being present. |
| Orange D | Clinicians should know how to enquire about gender-based violence (GBV) and how to support women affected by GBV and abuse, including providing access to information and referral to specialist support. |
| Green ✓  | Services involved in the care of pregnant women should have agreed pathways of care to local community sexual and reproductive health (SRH) services for women with complex medical conditions or needs which may require specialist contraceptive advice. |
| Green ✓  | Services should have agreed pathways of care to local services for women who may require additional non-medical care and support. |

While the focus of this clinical guideline is mainly on the safe and appropriate use of contraception by women after pregnancy, clinicians should also be aware of other SRH and non-SRH issues that may be relevant when ensuring that women (and, if appropriate, their baby, partner and family) receive the care they need after pregnancy. Issues that should be considered include:

- Domestic violence/gender-based violence (GBV)³⁷–⁴⁰
- Female genital mutilation (FGM)⁴¹
- Emotional well-being and mental health⁴²
- Any sexual problems
- Substance misuse and sexual risk-taking
- Body recovery, nutrition and physical health
- Social and financial support (including safe housing).
Whilst partners may be engaged in the process of shared decision-making on contraception, clinicians should facilitate opportunities to discuss issues with the woman in private to ensure that women are not being coerced into a particular contraceptive decision.

The GDG acknowledged that not all services involved in the care of pregnant women are able to provide the full range of contraceptive options or address other SRH and non-SRH issues after pregnancy. It is therefore important that healthcare services have an agreed pathway of care to local community services to ensure that women receive the care they need after they are discharged.

If services are unable to provide women with their chosen method of contraception, clinicians should inform women about where they can access contraception (e.g. GP, specialist contraceptive services) or provide a referral to an appropriate service in the local community. Women can be referred to an SRH specialist if specialist advice and/or expert clinical judgement is needed, for example, women with complex medical conditions. Where appropriate, records of prior contraceptive discussions and decisions should be passed on to facilitate contraceptive decision-making.

Women identified as being from a vulnerable group and/or known to have additional non-medical care or support issues should be informed about appropriate services for continuing care and support as necessary.
## 2. Contraception After Childbirth

### 2.1 Discussion and provision of contraception after childbirth

#### 2.1.1 When should contraception after childbirth be discussed/provided?

| ✔ | Maternity services (including services providing antenatal, intrapartum and postpartum care) should give women opportunities to discuss their fertility intentions, contraception and preconception planning. |
| ✔ | Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception. |
| ❌ | Effective contraception after childbirth should be initiated by both breastfeeding and non-breastfeeding women as soon as possible, as sexual activity and ovulation may resume very soon afterwards. |
| ✔ | Maternity service providers should ensure that all women after pregnancy have access to the full range of contraceptives, including the most effective LARC methods, to start immediately after childbirth. This should not be limited to those women with conditions that may pose a significant health risk during pregnancy and vulnerable groups (including young people) at risk of a short interpregnancy interval (IPI) or an unintended pregnancy. |

There is growing recognition in the UK that women’s need for effective contraception in the period immediately after delivery may be underestimated.\(^{43,44}\) Sexual activity and fertility may return quickly after childbirth, and the requirements of looking after a young baby can add to the existing barriers to accessing effective methods of contraception.

Effective contraception after childbirth should be initiated by women who are breastfeeding and those who are not as soon as possible to avoid an unintended pregnancy or a short interpregnancy interval (IPI). Pregnancies soon after childbirth are not uncommon.

A recent UK study\(^4\) reported that almost 1 in 13 women presenting for an abortion or delivery had conceived within a year of a previous birth. This rises to almost 1 in 8 among parous women. A short IPI (less than 12 months) increases the risk of complications including preterm birth, low birthweight, stillbirth and neonatal death.\(^5\)

Maternity services (including services providing antenatal, intrapartum and postpartum care) should be designed to meet the sexual and reproductive health (SRH) needs of all women who may require additional care and support. This includes women with conditions that may pose a significant health risk during pregnancy\(^18\) and vulnerable groups (including young people)\(^31\) at high risk of an unintended pregnancy or a short IPI, as indicated in national SRH strategies.\(^8-11\) These women should be advised to consider using highly effective long-acting reversible contraceptive (LARC) methods.\(^19\)
Women should be informed about the effectiveness of the different contraceptive methods, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after childbirth.

See Section 1.4.3

Click here to access a table which compares the percentage of women experiencing an unintended pregnancy during the first year of contraceptive use when the method is used ‘typically’ (which includes both incorrect and inconsistent use) or ‘perfectly’ (correct and consistent use).

Clinicians should adopt a person-centred approach when providing women with contraceptive counselling.

Clinicians who are giving advice to women about contraception after childbirth should ensure that this information is timely, up-to-date and accurate.

Comprehensive, unbiased and accurate information on contraceptive methods postpartum should be made available in different languages and in a range of formats including audio-visual.

See Section 1.4.4

Should antenatal contraceptive counselling be provided?

Contraceptive counselling should be made available to women in the antenatal period to enable them to choose the method they wish to use after childbirth.

Any contraceptive counselling (general or specialist) needs to be given in conjunction with easy access to contraception in the immediate postpartum period.

Although a National Institute for Health and Care Excellence (NICE) guideline has previously recommended that contraception should be discussed within the first week after delivery, advice about contraception after childbirth may be better discussed antenatally, especially since many methods can be provided at the time of delivery [e.g. intrauterine contraception (IUC)] or during the hospital stay. Prior to giving birth, women may have more time to think through their options than immediately after giving birth when the requirements of caring for a baby and recovering from delivery may take priority over contraceptive decision-making.
The effectiveness of postpartum contraceptive counselling has not yet been established.\cite{46,47} One Cochrane review,\cite{46} which identified six non-randomised controlled trials (RCTs) of educational interventions, reported that women in the intervention groups were more likely to use highly effective methods rather than methods which are least effective or no method, compared to women who received standard counselling/information-giving. Another Cochrane review,\cite{47} of ten RCTs that evaluated the effectiveness of postpartum education on contraceptive use, reported that half of these interventions led to fewer pregnancies or more contraceptive use. However, the studies included in both reviews were of low to moderate quality, limiting the reliability of their findings. Many of the studies are either from the USA or low-income countries where barriers to contraceptive use are likely to be different from the UK.

One multinational RCT,\cite{48} which included Edinburgh, Shanghai and Cape Town, showed that specialist antenatal contraceptive counselling is no better than standard contraceptive advice. In this study women attending antenatal clinics were randomised to receive either specialist ($n=771$) or standard contraceptive advice ($n=866$). No significant differences were found between the two groups in the prevalence of contraceptive use or unintended pregnancies (based on abortion rates) at 1 year. However, this study was conducted before the widespread availability of highly effective LARC, including the single-rod progestogen-only implant (IMP) or the levonorgestrel-releasing intrauterine system (LNG-IUS) and before women were offered immediate insertion of IUC after childbirth.

Recent evidence from the USA has shown that an antenatal discussion may be beneficial as it may identify women who wish to opt for insertion of LARC in the immediate postpartum period before discharge from hospital.\cite{49} According to a UK survey of postpartum mothers,\cite{4} 43% would choose LARC immediately after delivery if this was available. However, in order to be able to choose LARC at this time, women need to have made this decision before giving birth and therefore should be made aware of their contraceptive options antenatally.

It is therefore important that any contraceptive counselling (general or specialist) be given in conjunction with easy access to contraception in the immediate postpartum period.

### 2.1.2 When can contraception after childbirth be initiated?

<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th><strong>Recommendation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D</strong></td>
<td>The choice of contraceptive method should be initiated by 21 days after childbirth.</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>A woman’s chosen method of contraception can be initiated immediately after childbirth if desired and she is medically eligible.</td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>Women should be advised that intrauterine contraception (IUC) and progestogen-only implant (IMP) can be inserted immediately after delivery.</td>
</tr>
<tr>
<td>Evidence level</td>
<td></td>
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<tr>
<td>----------------</td>
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</tr>
<tr>
<td>4</td>
<td>The provision of IMP and IUC immediately after childbirth is associated with reduced risk of unintended pregnancy and helps women optimise their spacing of children. High continuation rates of LARC [i.e. copper intrauterine device (Cu-IUD), LNG-IUS and IMP] at 12 months have been reported with immediate insertion after childbirth. Findings from a decision-analysis model based on data from the USA estimated that immediate insertion of IUC after childbirth could prevent 88 unintended pregnancies per 1000 women over a 2-year period.</td>
</tr>
<tr>
<td>2+</td>
<td>The provision of LARC at the time of delivery is convenient for women who wish to initiate contraception immediately, avoiding the need for an extra visit which has been identified as a barrier to uptake of LARC after childbirth. In a recent RCT of women randomised to insertion of an implant 1–3 days (early group) or 4–8 weeks (standard group) after childbirth, only 3% of women in the early group failed to attend for insertion, compared with 32% of women randomised to delayed insertion.</td>
</tr>
<tr>
<td>1+</td>
<td>In a USA study, only 50% of mothers wishing to use IUC after childbirth returned for the appointment to have it inserted. In primary care, one qualitative study in Scotland explored the views of 13 general practitioners (GPs) in relation to the provision of contraceptive advice and LARC at the visit 6 weeks postpartum. The Scottish GPs reported that the contraceptive discussion was typically the last item to be covered from a 'long list' at these appointments. Furthermore, women from deprived areas and young women who might be at higher risk of unintended pregnancy were least likely to attend this visit. In addition, not all practices could provide IMP or IUC. Among those that did fit IUC, the waiting time for fitting could be as much as 2 or 3 months.</td>
</tr>
<tr>
<td>3</td>
<td>2.1.3 How long should a woman wait before trying to conceive again? Women should be advised that an interpregnancy interval (IPI) of less than 12 months between childbirth and conceiving again is associated with an increased risk of preterm birth, low birthweight and small for gestational age (SGA) babies.</td>
</tr>
</tbody>
</table>
Women who wish to conceive again should wait at least 12 months after childbirth. A Scottish retrospective cohort study⁶ reported that a short IPI of less than 12 months is an independent risk factor for complications including preterm birth, low birthweight, stillbirth and neonatal death. These findings are also supported by a review⁵ (which included 20 studies on live births and three studies on stillbirth from low- and high-income countries) which reported that the most common pregnancy complications consistently associated with a short IPI (of less than 12 months) included preterm birth, premature rupture of membranes, low birthweight and small for gestational age (SGA) babies. Adverse fetal/neonatal outcomes associated with a short IPI included birth defects, fetal/early neonatal death and adverse neurodevelopmental outcomes. Currently, the World Health Organization (WHO) recommends a 24-month IPI after childbirth.⁷

2.1.4 Who should provide contraception to women after childbirth?

- Appropriately trained clinicians including sexual and reproductive health (SRH) doctors and nurses, obstetricians, midwives, nurses, general practitioners (GPs) and health visitors should be able to provide women with contraception after childbirth.

- Maternity services should be able to provide IUC and progestogen-only methods, including IMP, injectable (POI) or pill (POP), to women before they are discharged from the service after childbirth.

- Maternity services should ensure that there are sufficient numbers of staff able to provide IUC or IMP so that women who choose these methods and are medically eligible can initiate them immediately after childbirth.

- Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated.

See Section 1.4.5

- Maternity services should have agreed pathways of care to local specialist contraceptive services (e.g. community SRH services) for women with complex medical conditions or needs which may require specialist contraceptive advice.

- Maternity services should have agreed pathways of care to local services for women who may require additional non-medical care and support.

See Section 1.4.8
Referrals to specialist contraceptive services (e.g. community SRH) should ideally be made antenatally, if required, so that a plan for contraception can be made before delivery and contraception can be initiated as soon as possible after childbirth.

2.1.5 Record keeping and obtaining valid consent

Clinicians should clearly document the discussion and provision of contraception after childbirth. Valid consent must be obtained before providing women with their chosen method.

See Section 1.4.7. Women who choose to have IUC or sterilisation should have their decision clearly documented before they are admitted for delivery.

2.2 Medical eligibility

2.2.1 Which methods of contraception are safe to use after childbirth?

Women should be advised that although contraception is not required in the first 21 days after childbirth, most methods can be safely initiated immediately, with the exception of combined hormonal contraception (CHC).

The current evidence-based UK Medical Eligibility Criteria (UKMEC)\(^\text{18}\) that apply to breastfeeding and non-breastfeeding women after childbirth are outlined in Table 3. There are some restrictions on the use of combined hormonal contraception (CHC) — including combined oral contraceptive pills (COC), combined contraceptive vaginal ring (CVR) and combined transdermal patches (patch) — by women in the weeks after childbirth due to increased risk of venous thromboembolism (VTE) in this period.

IUC (including Cu-IUD and LNG-IUS) can be inserted immediately after childbirth (0–48 hours). There is limited evidence on the use of IUC between 72 hours and 4 weeks after childbirth, therefore after 48 hours it is recommended that insertion is delayed until at least 4 weeks. The recommendations for LNG-IUS are based only on studies on the 52 mg LNG-IUS but expert opinion is that they can be extrapolated to include the 13.5 mg LNG-IUS.

Although contraception is not required before Day 21, the initiation of IUC or progestogen-only contraception immediately after childbirth is safe.\(^\text{18}\) Women who have additional risk factors for VTE should not use CHC prior to 6 weeks after childbirth. Women who do not have additional risk factors for VTE and who are not breastfeeding may use CHC from Day 21.

Progestogen-only contraception can be safely used by breastfeeding and non-breastfeeding women. While there is no robust evidence to support a causal link between depot medroxyprogesterone acetate (DMPA) and VTE,\(^\text{56–58}\) given that the risk of VTE is greatest in the first 6-week postpartum period, the UKMEC classification is higher for DMPA (UKMEC 2) than other progestogen-only methods (UKMEC 1) for use by women in the first 6 weeks after childbirth.
### Table 3: Summary of UK Medical Eligibility Criteria for Contraceptive Use (UKMEC) categories applicable to women after childbirth\(^{18}\)

<table>
<thead>
<tr>
<th>Condition</th>
<th>Cu-IUD</th>
<th>LNG-IUS</th>
<th>IMP</th>
<th>DMPA</th>
<th>POP</th>
<th>CHC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Postpartum (in breastfeeding women)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>a) 0 to &lt;6 weeks</td>
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<tr>
<td>b) ≥6 weeks to &lt;6 months (primarily breastfeeding)</td>
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<tr>
<td>c) ≥6 months</td>
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<tr>
<td><strong>Postpartum (in non-breastfeeding women)</strong></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>a) 0 to &lt;3 weeks</td>
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<td></td>
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<tr>
<td>(i) With other risk factors for VTE*</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>(ii) Without other risk factors</td>
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<tr>
<td>b) 3 to &lt;6 weeks</td>
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</tr>
<tr>
<td>(i) With other risk factors for VTE*</td>
<td></td>
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<tr>
<td>(ii) Without other risk factors</td>
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<tr>
<td>c) ≥6 weeks</td>
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<tr>
<td><strong>Postpartum (in breastfeeding or non-breastfeeding women, including post-caesarean section)</strong></td>
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<td></td>
<td></td>
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<tr>
<td>a) 0 to &lt;48 hours</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) 48 hours to &lt;4 weeks</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) ≥4 weeks</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) Postpartum sepsis</td>
<td>4</td>
<td>4</td>
<td></td>
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</tr>
</tbody>
</table>

* In the presence of other risk factors for VTE, including immobility, transfusion at delivery, body mass index ≥30 kg/m\(^2\), postpartum haemorrhage, post-caesarean delivery, pre-eclampsia or smoking, use of CHC may pose an additional increased risk for VTE.

CHC, combined hormonal contraception; Cu-IUD, copper intrauterine device; DMPA, progestogen-only injectable: depot medroxyprogesterone acetate; IMP, progestogen-only implant; LNG-IUS, levonorgestrel-releasing intrauterine system; POP, progestogen-only pill; VTE, venous thromboembolism.

Definition of the UKMEC categories can be found [here](#).

#### 2.2.2 Can women who develop medical problems during pregnancy safely use contraception after childbirth?

Clinicians should discuss with the woman any personal characteristics or existing medical conditions, including those that have developed during pregnancy, which may affect her medical eligibility for contraceptive use.

Women can develop various medical conditions during pregnancy that may impact on their eligibility to use certain types of contraception after childbirth. The UKMEC\(^{18}\) includes recommendations for history of high blood pressure during pregnancy, history of pregnancy-related cholestasis (obstetric cholestasis) and diabetes (history of gestational disease) shown in Table 4. All methods of contraception can be safely used by women with a history of these conditions.
Table 4: Summary of UK Medical Eligibility Criteria for Contraceptive Use (UKMEC) categories applicable to a woman with a history of pregnancy-related conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>Cu-IUD</th>
<th>LNG-IUS</th>
<th>IMP</th>
<th>DMPA</th>
<th>POP</th>
<th>CHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of high blood pressure during pregnancy</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>History of cholestasis (pregnancy-related)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Diabetes (history of gestational disease)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

CHC, combined hormonal contraception; Cu-IUD, copper intrauterine device; DMPA, progestogen-only injectable: depot medroxyprogesterone acetate;IMP, progestogen-only implant; LNG-IUS, levonorgestrel-releasing intrauterine system; POP, progestogen-only pill.

Definition of the UKMEC categories can be found [here](#).

In addition, the UKMEC recommends that other conditions including obesity, hypertension or dyslipidaemias should also be taken into consideration when making a clinical judgement on the most suitable method for each woman after childbirth.

### 2.2.3 Is emergency contraception (EC) safe to use after childbirth?

- **Emergency contraception (EC) is indicated for women who have had unprotected sexual intercourse (UPSI) from 21 days after childbirth, but is not required before this.**

- **Oral EC levonorgestrel 1.5 mg (LNG-EC) and ulipristal acetate 30 mg (UPA-EC) are safe to use from 21 days after childbirth. The copper intrauterine device (Cu-IUD) is safe to use for EC from 28 days after childbirth.**

The guideline development group (GDG) recommends that emergency contraception (EC) is indicated for a woman who has had unprotected sexual intercourse (UPSI) from 21 days after childbirth. All methods of EC including oral EC levonorgestrel 1.5mg (LNG-EC) and ulipristal acetate 30 mg (UPA-EC) and the Cu-IUD can be safely used after childbirth.

Given limited evidence on insertion of Cu-IUD 3–4 weeks after childbirth, the GDG recommends that until further evidence emerges, the insertion of emergency Cu-IUD between 3 and 4 weeks should be based on clinical judgement (i.e. UKMEC 3).

A Cu-IUD is the most effective form of EC. The pregnancy rate after Cu-IUD for EC is about 1 in 1000. The use of Cu-IUD for EC carries the same contraindications as use for regular contraception. A Cu-IUD can be used from Day 28 postpartum. A Cu-IUD inserted for EC can be retained until the next menstrual period and then removed, or it can be retained for ongoing contraception for 5 years or more, depending on the device.
Use of EC by women who breastfeed

C Women who breastfeed should be informed that available limited evidence indicates that LNG-EC has no adverse effects on breastfeeding or on their infants.

D Women who breastfeed should be advised not to breastfeed and to express and discard milk for a week after they have taken UPA-EC

LNG-EC or UPA-EC can be used without restriction (UKMEC 1) by women after childbirth, whether they are breastfeeding or not. Woman can be advised to continue to breastfeed after using LNG-EC as evidence shows no adverse effect of progestogen on breastfeeding or infant outcomes.\(^60\)

One recently published systematic review\(^60\) reported that limited direct and indirect evidence did not suggest any specific safety concerns regarding the use of LNG-EC or UPA-EC in women who breastfeed.

Ulipristal acetate (UPA) is excreted in breast milk, but the effect on infants has not been studied. The GDG recommends that women who breastfeed should not breastfeed for 7 days after the use of UPA-EC as stated in the Summary of Product Characteristics (SPC) for ellaOne\(^\circledR\).\(^61\) Women who breastfeed are advised to express and discard the breast milk in order to maintain ongoing lactation.

2.2.4 Is additional contraception required after initiation of a method after childbirth?

Women should be advised that additional contraceptive precautions (e.g. barrier method/abstinence) are required if hormonal contraception is started 21 days or more after childbirth. Additional contraceptive precaution is not required if contraception is initiated immediately or within 21 days after childbirth.

The GDG recommends no additional contraception is necessary if any contraceptive method is initiated before Day 21 after childbirth. However, if hormonal contraception is started 21 days or more after childbirth, the woman is at risk of another pregnancy and thus additional contraceptive precautions (e.g. barrier methods/abstinence) may be required (see Table 5).
Table 5: Requirements for abstinence or additional contraception when a method of contraception (which the woman is medically eligible to use) is initiated after childbirth

<table>
<thead>
<tr>
<th>Methods of contraception the woman is medically eligible to use</th>
<th>Initiation &lt;21 days after childbirth</th>
<th>Initiation ≥21 days after childbirth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper intrauterine device</td>
<td>None for insertion 0 to &lt;48 hours</td>
<td>None</td>
</tr>
<tr>
<td>Levonorgestrel-releasing intrauterine system</td>
<td>Insertion between 48 hours and &lt;4 weeks may not be appropriate (UKMEC 3)</td>
<td>7</td>
</tr>
<tr>
<td>Progestogen-only pill (traditional/desogestrel)</td>
<td>None</td>
<td>2</td>
</tr>
<tr>
<td>Progestogen-only implant or injectable</td>
<td>None</td>
<td>7</td>
</tr>
<tr>
<td>Combined hormonal contraception</td>
<td>Use not recommended</td>
<td>7*</td>
</tr>
</tbody>
</table>

*Except Qlaira®, which requires 9 days of additional contraceptive precautions.

2.3 Breastfeeding and contraception

2.3.1 Does initiation of hormonal contraceptives affect breastfeeding or infant outcomes?

A

Women who are breastfeeding should be informed that the available evidence indicates that progestogen-only methods of contraception (LNG-IUS, IMP, POI and POP) have no adverse effects on lactation, infant growth or development.

B

Women who are breastfeeding should wait until 6 weeks after childbirth before initiating a CHC method.

B

Women who are breastfeeding should be informed that there is currently limited evidence regarding the effects of CHC use on breastfeeding. However, the better-quality studies of early initiation of CHC found no adverse effects on either breastfeeding performance (duration of breastfeeding, exclusivity and timing of initiation of supplemental feeding) or on infant outcomes (growth, health and development).

Although contraceptive hormones are excreted into breast milk in very small amounts (less than 1% of the maternal dose), there have been concerns about their potential impact on breastfeeding and on infant growth and development. A Cochrane review which included 11 randomised trials (RCTs) that compared CHC, non-hormonal contraception and progestogen-only contraception use among women who breastfeed found that most trials did not show or report significant differences between study arms in breastfeeding duration, breast milk composition, or infant growth.

Evidence level 1++
**Progestogen-only contraception**
A systematic review\(^63\) which included 47 studies reported that use of progestogen-only contraception [including LNG-IUS, IMP, progestogen-only implant (POI) and progestogen-only pill (POP)] among women who breastfeed, concluded that progestogen-only contraception was not associated with adverse breastfeeding outcomes or negative health outcomes in infants (e.g. restricted growth, health problems or impaired development).

**Evidence level 1++**

**Intrauterine contraception (IUC)**
A systematic review\(^64\) which examined the use of IUC after caesarean section and during lactation reported that 12 studies of lactation in women using LNG-IUS or Cu-IUD showed no significant effect on milk production and/or infant growth.

**Evidence level 1++**

**Combined hormonal contraception (CHC)**
CHC can be safely initiated by women who are medically eligible for this method, from 3 weeks after childbirth as long as they have no additional risk factors for VTE (including immobility, transfusion at delivery, body mass index (BMI) $\geq 30$ kg/m\(^2\), postpartum haemorrhage, post-caesarean delivery, pre-eclampsia or smoking) and are not breastfeeding. In the presence of other risk factors for VTE, use of CHC may pose an additional increased risk for VTE. Women who are breastfeeding, without additional risk factors for VTE and who wish to use CHC should wait until 6 weeks after childbirth before initiating a CHC method. See Section 2.4 on the method-specific considerations for CHC.

A systematic review\(^65\) which included 13 studies demonstrated inconsistent effects of COC on breastfeeding performance (duration of breastfeeding, exclusivity and timing of initiation of supplemental feeding), whether COC initiation occurred before 6 weeks (early initiation) or after 6 weeks (later initiation) following childbirth. The systematic review reported conflicting results on whether early initiation of COC affects infant outcomes (growth, health and development) but generally found no negative impact on infant outcomes with later initiation of COC.

The systematic review\(^65\) reported that when COC was used at or before 6 weeks after childbirth, some studies found less weight gain in infants of COC users compared to non-users while other studies did not find any effect. No study demonstrated an effect on infant weight gain when COC were started after 6 weeks after childbirth. No study found an effect on other infant health outcomes regardless of time of COC initiation. The body of evidence is limited by older studies using different formulations/doses of estrogen than currently used preparations and poor methodological quality of the studies.

The most recent RCT\(^66\) of fair methodological quality, which randomised women to use either COC ($n=64$) or POP ($n=63$) initiated at 2 weeks after childbirth, found that there was no statistical difference in breastfeeding continuation or supplementation between the two groups 8 weeks after childbirth. There was no statistical difference between the two groups in breastfeeding continuation 6 months after childbirth.
Furthermore, at 8 weeks after childbirth, there were no differences between the two groups in terms of infant growth, as measured by weight, length and head circumference.

Women should be informed about the full range of safe alternative contraceptive methods they can use, particularly during the first 6 weeks after childbirth when the risk of VTE is highest, and that use of CHC methods may exacerbate this risk.

2.3.2 Can women who breastfeed effectively use lactational amenorrhoea method (LAM) as contraception?

Women may be advised that, if they are less than 6 months postpartum, amenorrhoeic and fully breastfeeding, the lactational amenorrhoea method (LAM) is a highly effective method of contraception.

Women using LAM should be advised that the risk of pregnancy is increased if the frequency of breastfeeding decreases (e.g. through stopping night feeds, starting or increasing supplementary feeding, use of dummies/pacifiers, expressing milk), when menstruation returns or when more than 6 months after childbirth.

The use of breastfeeding as contraception is known as the lactational amenorrhoea method (LAM). Suckling suppresses the resumption of ovarian activity and the return of menses after childbirth. Full breastfeeding includes exclusive (when no other liquids or solids are given) or almost exclusive (when vitamins, water or juice is given infrequently in addition to breastfeeds).

Women who are fully breastfeeding have reduced fertility and breastfeeding can be used to reduce risk of an unintended pregnancy. However, when the frequency and duration of suckling decreases, ovarian activity may be restored and the likelihood of restarting periods increases.

Women who breastfeed and experience a bleed in the first 6 months after childbirth have been shown to have a higher risk of pregnancy than those who remain amenorrhoeic. Therefore, for breastfeeding to be used as an effective contraceptive method it is recommended that women must fulfil all three criteria below:

- Fully or nearly fully breastfeeding day and night (no other liquids given or only water, juice or vitamins given infrequently in addition to breastfeeds). No long intervals between feeds day or night (e.g. more than 4 hours during day and more than 6 hours at night)
- Amenorrhoeic
- Less than 6 months postpartum.
Studies have consistently shown that when the rules of LAM are applied, the failure rates are less than 2%. When suckling frequency and duration decreases, perhaps as a result of the introduction of pacifiers/dummies, maternal or infant illness or introduction of supplementary feeding, ovarian activity and the risk of pregnancy increases. In a multicentre prospective study of 4118 breastfeeding women, cumulative pregnancy rates for fully breastfeeding amenorrhoeic women ranged between 0.9% [95% confidence interval (CI) 0–2.0] and 1.2% (95% CI 0–2.4) in the first 6 months. In comparison, at 12 months the rates ranged from 6.6% (95% CI 1.9–11.2) to 7.4% (95% CI 2.5–12.3).

There are limited studies on the effect of expressing milk on the effectiveness of LAM. However, most women who breastfeed do express milk, so it is important to consider this evidence and its implications carefully. A study of 170 women designed to examine the effectiveness of LAM in working women who were manually expressing milk reported a pregnancy rate of 5.2%. The study had a number of limitations including no comparative group, high drop-out rates and lack of information about sexual activity, but it suggests that expressing breast milk may reduce the efficacy of LAM.

Whilst women who are fully breastfeeding, within 6 months after childbirth and amenorrhoeic may choose to rely on LAM alone until breastfeeding reduces or other LAM criteria are no longer fulfilled, the proportion of mothers who fulfil these criteria in the UK is likely to be small. Breastfeeding varies by geographical region, mother’s age and deprivation in the UK. Data from Scotland show that at 6–8 weeks, only 38% of babies were exclusively breastfed in 2014/2015. The corresponding figure for mothers under 20 years of age was even lower with only 5.0% exclusively breastfeeding. The 2010 infant feeding survey, which included mothers from England, Wales, Scotland and Northern Ireland, found that 3 months after giving birth, 17% of women are still exclusively breastfeeding. Women may only choose to use LAM for the first few weeks or months after giving birth but it is still an important contraceptive option for some women at this time.

A woman who wishes to switch from LAM to a different method of contraception will require additional contraceptive precautions for a number of days in accordance with Table 5.

### 2.4 Method-specific considerations

#### 2.4.1 Intrauterine contraception (IUC)

**IUC can be safely inserted immediately after birth (within 10 minutes of delivery of the placenta) or within the first 48 hours after uncomplicated caesarean section or vaginal birth. After 48 hours, insertion should be delayed until 28 days after childbirth.**
The insertion of IUC can take place as soon as the placenta is delivered at caesarean section or after vaginal delivery (within 10 minutes of delivery of placenta and up to 48 hours after delivery). A Cochrane review concluded that IUC insertion at this time is safe and effective. Contraindications to IUC insertion at this time include prolonged rupture of membranes, unresolved postpartum haemorrhage and sepsis.

For women in the UK who would like to use an effective contraceptive after childbirth, IUC can be extremely convenient. A trained healthcare provider is present at childbirth and many women will have had an epidural or another form of analgesia. Furthermore, insertion of IUC immediately after delivery is cost effective from a service perspective since it does not involve an additional visit to a health service.

Clinicians providing IUC should clearly document the type of device, and when replacement is required. Women who have been fitted with IUC should be provided with clear verbal and written information on what signs and symptoms would indicate that they seek medical attention for a possible complication, when and where to have a thread check (e.g. at the 6-week GP appointment) and when the device needs replacing. As at any time, a sexually transmitted infection (STI) screen should be offered to all women who are identified as being at risk of STIs when requesting IUC.

There is limited evidence about IUC insertion between 48 hours and 4 weeks after childbirth. One recent RCT which included women randomised to receive IUC at either 3 weeks or 6 weeks reported that there was no difference in complications between groups. Continuation rates did not significantly differ between groups at 3 (73% vs 75.3%, p=0.72) or 6 months (80.3% vs 82.8%, p=0.71). A higher proportion of women in the 6 weeks group had resumed intercourse prior to the IUC insertion (23.4% vs 7.3%, p=0.1). Pain during insertion (19.9% vs 25.1%, p=0.21) and satisfaction (89.6% vs 93.4%, p=0.23) was not significantly different between groups.

One prospective study which included 50 women who had an IUC inserted at 2 weeks after childbirth found that it was feasible and acceptable to women. Of 43 women with follow-up data available, 40 (93%) would recommend it to a friend. Continuation rate at 6 months was 86% (37 women). There were two partial expulsions; one was symptomatic. This expulsion rate (4.6%) is consistent with the rate of interval insertion and lower than immediate postplacental insertion. No uterine perforations were reported.

There is no evidence of increased risk of uterine perforation if IUC is inserted immediately after delivery of the placenta or within 48 hours of delivery, compared to delayed insertion (after 4 weeks) after childbirth. The risk may actually be reduced compared to delayed insertion since the myometrium is thick in the period immediately after childbirth. There is also no increase in the risk of infection.
The insertion of IUC immediately after childbirth is associated with higher expulsion rates but also higher continuation rates 6–12 months postpartum, regardless of IUC type or mode of delivery.\textsuperscript{51,79} Expulsion is most likely to occur in the first 3 months after insertion. Expulsion rates may be lower for postplacental insertion after caesarean delivery than after vaginal delivery.\textsuperscript{79,83} A meta-analysis\textsuperscript{79} that included both vaginal and caesarean section deliveries from four RCTs examining immediate IUC insertion versus delayed insertion (4–12 weeks after childbirth) demonstrated that expulsion by 6 months was more likely in the immediate insertion group [odds ratio (OR) 4.89, 95% CI 1.47–16.32]. However, IUC use at 6 months was more likely with immediate insertion than delayed insertion (OR 2.04, 95% CI 1.01–4.09). The benefits of the insertion of highly effective IUC immediately after delivery (vaginal or caesarean section) may outweigh the disadvantage of increased risk for expulsion.\textsuperscript{79} Expulsion \textit{per se} is likely to be less indicative of the value of the method than overall continuation over time.\textsuperscript{51} As long as expulsion is recognised and alternative contraception provided or a replacement IUC inserted, this should not be regarded as a reason for not providing IUC immediately after delivery.

Given limited evidence on insertion of Cu-IUD 3–4 weeks after childbirth, the GDG recommends that until further evidence emerges, the insertion of Cu-IUD between 3 and 4 weeks should be based on clinical judgement (i.e. UKMEC 3).

\textbf{Vaginal delivery}

Two RCTs\textsuperscript{84,85} examined LNG-IUS use after vaginal delivery. In one prospective pilot study,\textsuperscript{84} 46 women were randomised into one of three groups: immediate insertion (within 10 minutes of placenta delivery), early insertion (10 minutes to 48 hours after childbirth) or interval insertion (6+ weeks after childbirth). There was no difference in continuation rates at 3 and 6 months among groups. Expulsion rates were significantly higher and pain during insertion was significantly lower in the immediate and early insertion groups (\(p<0.001\)) when compared to the interval group. In another RCT,\textsuperscript{85} equal numbers of the 102 women planning vaginal deliveries and desiring a postpartum LNG-IUS were randomised to receive either immediate or delayed (6–8 weeks after childbirth) insertion. The LNG-IUS was successfully inserted in 50/51 women (98.0%) and 46/51 women (90.2%) in the immediate and delayed groups, respectively. At 6 months, the expulsion rate in the immediate group was significantly higher (24% vs 4.4%, \(p<0.01\)), but continuation rates were not significantly different (84.3% vs 76.5%, \(p=0.32\)). Five (10%) of the women in the delayed group did not attend the follow up for LNG-IUS insertion.

\textbf{Caesarean section delivery}

There are three recent RCTs\textsuperscript{86–88} involving IUC insertion at the time of caesarean delivery. In one RCT,\textsuperscript{86} 42 women who wished to use a LNG-IUS were randomised to receive immediate insertion at the time of caesarean section (\(n=20\)) or delayed insertion 4–8 weeks postpartum (\(n=22\)). Confirmed use of the LNG-IUS 12 months after delivery was higher in the immediate insertion group (60.0% vs 40.9%, \(p=0.35\)), although this difference was not statistically significant.
In another RCT, among the 68 women who wished to use the Cu-IUD, the Cu-IUD was inserted in 100% (34/34) of the women in the immediate insertion group and in 53% (18/34) of the delayed (6 weeks after childbirth) group. At 6 months, the continuation rate was higher in the immediate insertion group (93% vs 50%, \( p<0.0001 \)). Infection and expulsion were rare and did not differ between groups. In another RCT, 112 women received either the LNG-IUS or Cu-IUD at caesarean section (immediate group) or at 6+ weeks after childbirth (interval group). Data regarding IUC use at 6 months after childbirth were available for 48 and 50 women in the immediate and interval groups, respectively. At 6 months, significantly more women (40/48, 83%) in the immediate group were using an IUC compared with 32/50 (64%) women in the interval group [relative risk (RR) 1.3, 95% CI 1.02–1.66]. Among the 56 women randomised to the interval group, 22 (39%) never received IUC, 14 (25%) never returned for IUC placement, five (9%) declined IUC and three (5%) had a failed IUC placement.

2.4.2 Progestogen-only implant (IMP)

**IMP can be safely started at any time after childbirth including immediately after delivery.**

Although the insertion of IMP immediately after childbirth is outside the current product licence, studies have shown that insertion at this time is safe and highly acceptable to women. Six cohort studies, which included young mothers, reported that continued use of IMP at 6 months was as high as 98%, while at 12 months continuation rates were as high as 86% in three studies and 84% in another. One retrospective cohort study of 262 women who had IMP inserted immediately after childbirth found that the continuation rate over its 3-year lifespan was high (66.3%).

Uptake of IMP by young mothers immediately at or soon after childbirth was associated with a reduction in the number of women with short IPI. An Australian study of teenage mothers (aged 18 years and under) found that young mothers who use IMP after childbirth became pregnant later than women who chose to use other methods \( (p=0.022) \) with the mean time to another pregnancy of 23.8 months (95% CI 22.2–25.5) compared to 18.1 months (95% CI 15.1–20.7) for COC/DMPA and 17.6 months (95% CI 14.0–21.3) for barrier or no methods. In a USA study of just under 300 mothers (less than 25 years of age) choosing IMP after childbirth, the proportion of women pregnant again at 12 months was only 2.6% in the IMP group compared with 18.6% of their counterparts using other methods.

With regard to bleeding patterns, one RCT which included 35 women assigned to early insertion (1–3 days after childbirth) and 34 women to standard insertion (4–8 weeks after childbirth) found that women’s self-reported bleeding patterns at 6 months were not statistically different between the groups.
A retrospective cohort study found no difference in removal rates for IMP due to vaginal bleeding between women who had IMP inserted immediately after childbirth (within 96 hours of delivery), delayed (6–12 weeks after childbirth) or as an interval method (after 12 weeks following childbirth or unrelated to a pregnancy event). The study found that 19.3% of women in the immediate insertion group requested removal due to irregular bleeding compared to 18.4% in the delayed group (OR 1.06, 95% CI 0.48–2.33) and 20.8% in the interval group (OR 0.91, 95% CI 0.52–1.60). A pilot study which included 20 women exclusively breastfeeding randomised to receive IMP 24–48 hours after delivery reported that IMP was not associated with deleterious maternal clinical effects, significant maternal metabolic alterations or decreased infant weight gain. In addition, another study found that IMP was not associated with physiological variations of the haemostatic system during the first 6 weeks after childbirth.

2.4.3 Progestogen-only injectable (POI)

POI can be started at any time after childbirth, including immediately after delivery.

There are theoretical concerns that use of DMPA may be associated with an increased risk of VTE compared to other progestogen-only methods. Hence the UKMEC classification is higher for DMPA (UKMEC 2) than the IMP and POP (UKMEC 1) for use by women in the first 6 weeks after childbirth.\(^\text{18}\)

The SPC for Depo-Provera\(^\text{96}\) and Sayana Press\(^\text{97}\) recommend that DMPA should be used with caution by women after childbirth because of its potential to alter bleeding patterns. However, two low-quality, non-randomised studies\(^\text{98,99}\) did not report a statistical difference in bleeding patterns in women using DMPA after childbirth. Further evidence is required to substantiate an association between DMPA and altered bleeding in the puerperium. Women should be informed of the potential for problematic bleeding; however, use of DMPA in the period after childbirth should not be restricted for this reason.

POI including DMPA administered intramuscularly (IM) or subcutaneously (SC) can be initiated immediately or before Day 21 to inhibit the first ovulation after childbirth without the need for additional contraceptive precautions. Women may find the initiation of the method before discharge from maternity services to be convenient as it avoids the need for a follow-up appointment.
2.4.4 Progestogen-only pills (POP)

C POP can be started at any time after childbirth, including immediately after delivery.

Evidence has shown that POP have minimal effects on coagulation factors, blood pressure or lipid levels and thus represent an appropriate contraceptive choice for women after childbirth who have no contraindications to their use.56

POP can be initiated immediately after childbirth and before 21 days without the need for additional precautions. If started on Day 21, then additional contraception is necessary for 2 days.

2.4.5 Combined hormonal contraception (CHC)

C All women should undergo a risk assessment for VTE postnatally. CHC should not be used by women who have risk factors for venous thromboembolism (VTE) within 6 weeks of childbirth. These include immobility, transfusion at delivery, body mass index (BMI) ≥30 kg/m², postpartum haemorrhage, post-caesarean delivery, pre-eclampsia or smoking. This applies to both women who are breastfeeding and not breastfeeding.

B Women who are not breastfeeding and are without additional risk factors for VTE should wait until 21 days after childbirth before initiating a CHC method.

There are restrictions on the use of CHC by women after childbirth depending on whether the woman is breastfeeding and how many weeks have elapsed since childbirth.

Breastfeeding performance and infant outcomes

The use of CHC in women who are breastfeeding is outside the terms of the product licence.100

See also Section 2.3 on breastfeeding and contraception.

The UKMEC18 recommends that women who breastfeed should not use CHC until 6 weeks after childbirth (UKMEC 4).

A systematic review65 which included 13 studies demonstrated inconsistent effects of COC on breastfeeding performance (duration of breastfeeding, exclusivity and timing of initiation of supplemental feeding) whether COC initiation occurred before 6 weeks (early initiation) or after 6 weeks (later initiation) following childbirth. The systematic review reported conflicting results on whether early initiation of COC affects infant outcomes (growth, health and development) but generally found no negative impact on infant outcomes with later initiation of COC.
Risk of venous thromboembolism (VTE) after childbirth

All women should undergo a risk assessment for VTE postnatally. See Resource 1 for a table of risk factors for VTE in pregnancy and the puerperium. In addition to the range of conditions and risk factors that affect a woman’s eligibility for CHC, the UKMEC18 recommends that CHC should not be used by women within 6 weeks of childbirth if there are additional risk factors for VTE, including immobility, transfusion at delivery, body mass index (BMI) ≥30 kg/m², postpartum haemorrhage, post-caesarean delivery, pre-eclampsia or smoking. This applies to both women who are breastfeeding and not breastfeeding.

The risk of VTE is considered the same in women after childbirth, whether or not they are breastfeeding. The increased risk of VTE is most pronounced during pregnancy and in the first 3 weeks after childbirth. This risk declines rapidly during those first 3 weeks as coagulation factors return to pre-pregnancy levels and are nearing normal levels by 6 weeks.102–106

A systematic review conducted to inform the World Health Organization Medical Eligibility Criteria (WHOMECS107 recommendation for CHC use among women after childbirth identified one cohort study108 which provided direct evidence. The study108 included 485 VTE reported events in 773 017 person-years and compared the risk of VTE between users and non-users of COC within the first year after childbirth. The study found that VTE rates were higher for CHC users compared to non-users at all time points after childbirth, but this was only statistically significant after 13 weeks following childbirth.

2.4.6 Female sterilisation

Female sterilisation is a safe option for permanent contraception after childbirth.

For sterilisation after childbirth, both Filshie clips and modified Pomeroy technique are effective. Filshie clip application is quicker to perform.

Women should be advised that some LARC methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits. However, women should not feel pressured into choosing LARC over female sterilisation.

Female sterilisation is a safe and effective method of permanent contraception for women. A Cochrane review109 which included 19 RCTs involving 13 209 women reported that 1 year after sterilisation failure rates were low (<5/1000 women) for all methods of tubal occlusion, regardless of whether it was performed postpartum or as an interval procedure. There were no deaths reported with any method, and major morbidity related to the occlusion technique was rare. Of the studies, three RCTs (1632 women) related exclusively to postpartum sterilisation.
Sterilisations immediately after childbirth and as an interval procedure are commonly performed using partial salpingectomy and tubal occlusion (e.g. Filshie clips). The US Collaborative Review of Sterilization (CREST) trial reported that postpartum partial salpingectomy has one of the lowest failure rates of all sterilisation techniques, with a 1-year failure rate of 0.6 per 1000 procedures and a 10-year failure rate of 7.5 per 1000 procedures. The failure rates for interval partial salpingectomy at 1 and 10 years were 7.3 and 20.1 per 1000 procedures, respectively.

A multicentre (Taiwan, Thailand, Panama and the Philippines) RCT involving 14,000 postpartum women randomised to receive sterilisation by Filshie clip (n=698) or partial salpingectomy (n=702) reported a statistically significant difference in the cumulative pregnancy rates between the 2 groups. The 24-month pregnancy probability for the Filshie clip group was 0.017 compared to with 0.004 in the partial salpingectomy group (p=0.04). This increased risk of method failure associated with the Filshie clip was thought to relate to the physiological changes in the fallopian tubes as a result of pregnancy, which may interrupt the complete tubal occlusion by the Filshie clips; histological evidence has demonstrated a higher incidence of oedema in fallopian tubes of women after childbirth.

However, a systematic review which included a pooled analysis of data from one RCT and three observational studies comparing the modified Pomeroy method and Filshie clip for postpartum sterilisation found no difference between the failure rates of the two methods (OR 0.76, 95% CI 0.30–1.95); and complication rates were similar. Based on one RCT, the review also reported that the use of Filshie clips was quicker to perform and was the preferred occlusion method of surgeons. Therefore, the review recommended that Filshie clips could be used as an alternative to the modified Pomeroy technique for sterilisation after childbirth.

Few medical conditions would absolutely restrict an individual’s eligibility for female sterilisation. Specific precautions may apply in certain circumstances. These precautions are highlighted in the FSRH clinical guideline on Male and Female Sterilisation and the WHOMECE.

All methods of contraception, including vasectomy (if appropriate), should be discussed with women requesting female sterilisation. Women should be made aware that some LARC methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits such as reducing uterine bleeding with LNG-IUS use. However, it is important that women do not feel pressured into choosing LARC over female sterilisation.

Tubal occlusion should ideally be performed after some time has elapsed following childbirth. Women who request tubal occlusion to be performed at the time of a delivery should be advised of the possible increased risk of regret.
Clinicians should ensure that written consent to be sterilised at caesarean section is obtained and documented at least 2 weeks in advance of a planned elective caesarean section.

There is a need for women to be carefully counselled when sterilisation is requested in association with pregnancy. Regret has also been shown to increase after sterilisation associated with vaginal delivery. A number of studies have reported that the incidence of regret and dissatisfaction are increased when sterilisation is performed at the same time as caesarean section, particularly if women have felt pressured by a clinician. Data from the large, prospective, multicentre CREST cohort study undertaken in the USA reported that the relative risk of regret after combined caesarean section and sterilisation compared with interval sterilisation was 5.8 after 1 year and 3.3 after 2 years. This difference persisted for at least 5 years after sterilisation, when the incidence of regret in the combined caesarean section and sterilisation cohort was still twice that of the interval sterilisation cohort. Thus, sterilisation should not be performed concomitantly with caesarean section unless counselling has taken place and the decision is made at a time separate from caesarean section or labour.

Consent to conduct sterilisation at caesarean section should be obtained and documented at least 2 weeks in advance of a planned elective caesarean section. The decision to conduct sterilisation at an emergency or a planned caesarean section that is conducted preterm requires careful consideration, counselling and documentation.

Evidence level 2+

Evidence level 4

Removal of the fallopian tubes and ovarian cancer
There is epidemiological evidence suggesting bilateral salpingectomy may protect against developing high-grade serous ovarian cancer. It is postulated that this may be because some epithelial cancers may originate in tubal epithelium. The RCOG advised that women should be carefully counselled for removal of fallopian tubes, if their family is complete and they are undergoing pelvic surgery. This may be also relevant to women being sterilised after childbirth.

2.4.7 Barrier methods

Male and female condoms can be safely used by women after childbirth. Women choosing to use a diaphragm should be advised to wait at least 6 weeks after childbirth before having it fitted because the size of diaphragm required may change as the uterus returns to normal size.

Condoms (male and female) can be used without restriction at any time by women after childbirth. However, given their high failure rates (percentage of women experiencing an unintended pregnancy within the first year of use) with typical use, they are considered one of the least effective contraceptive methods.
Diaphragms are unsuitable until 6 weeks after childbirth when uterine involution is complete and discomfort has been resolved. A different size of diaphragm may be required for postpartum women who have used this method previously. Another method of contraception should be used from Day 21 until the woman is able to insert and remove a correctly fitted diaphragm.

### 2.4.8 Fertility awareness methods (FAM)

Fertility awareness methods (FAM) can be used by women after childbirth. However, women should be advised that because FAM relies on the detection of the signs and symptoms of fertility and ovulation, its use may be difficult after childbirth and during breastfeeding.

Women should be advised that fertility awareness methods (FAM) should be used carefully in order to ensure maximum effectiveness. The effectiveness of FAM can be improved when a combination of indicators are used and are taught by trained FAM practitioners. High failure rates are associated with typical use. Refer to the FSRH guideline *Fertility Awareness Methods* for further guidance.

Within the first 4 weeks after childbirth, women who are not breastfeeding are unlikely to have sufficient ovarian function to produce detectable fertility signs or require FAM. Although the risk of pregnancy is low during the first 4 weeks following childbirth, women wishing to use a method of contraception during this time should be offered an alternative method (See Section 2.3) Women who are not breastfeeding can rely on FAM as contraception from 4 weeks after childbirth as this is when ovarian function resumes and the fertility signs and/or hormonal changes become detectable.

Women who are primarily breastfeeding are unlikely to have sufficient ovarian function to produce detectable fertility signs and hormonal changes during the first 6 months following childbirth. Women wishing to use a method of contraception during this time should be offered an alternative method (See Section 2.3).

### 2.5 Useful links and support group: Contraception after childbirth

- NHS Choices: Contraception guide
- NHS Choices: Pregnancy and baby
- The Family Planning Association (FPA)
3. Contraception After Abortion

3.1 Discussion and provision of contraception after abortion
The clinical guideline and the recommendations in this section focus on the discussion and provision of contraception to women who have recently had an abortion and complements the RCOG clinical guideline on The Care of Women Requesting Induced Abortion, which considers the care of women from the point of requesting induced abortion.

3.1.1 When should contraception after abortion be discussed/provided?

<table>
<thead>
<tr>
<th>Yes</th>
<th>Abortion service providers should give women requesting abortion opportunities to discuss contraception.</th>
</tr>
</thead>
</table>

Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.

The abortion assessment visit (when women attend to request an abortion) is an excellent opportunity for clinicians to discuss a woman’s future fertility intentions and use of effective contraception after abortion. It is important that women are provided with information and counselling to help them make informed choices on suitable contraceptive methods after abortion.

However, two systematic reviews and meta-analyses showed that pre-abortion specialist contraceptive counselling alone did not influence effective contraceptive uptake or subsequent abortion.

Studies from the UK reported that women value the opportunity to discuss contraception and to be offered their chosen method. One qualitative UK study reported that more than half of the 46 women interviewed wanted or were happy to address contraceptive needs at the pre-abortion assessment visit and suggested that it was an ‘obvious’ time to do so. However whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.

After contraceptive discussion and counselling women need to be encouraged to make an informed choice and to reach a decision about their chosen method so that this can be initiated or planned for without delay.

<table>
<thead>
<tr>
<th>Yes</th>
<th>Women should be informed about the effectiveness of the different contraceptive methods, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after abortion.</th>
</tr>
</thead>
</table>

See Section 1.4.3
Click [here](#) to access a table that compares the percentage of women experiencing an unintended pregnancy during the first year of contraceptive use when the method is used ‘typically’ (which includes both incorrect and inconsistent use) or ‘perfectly’ (correct and consistent use).

### C Choice of contraception should be initiated at the time of abortion or soon after, as sexual activity and ovulation can resume very soon after abortion.

Women having an abortion should be provided with effective methods of contraception at the time of abortion or soon after since ovulation can resume very soon after abortion. Ovulation has been shown to occur within 1 month of first-trimester abortions in over 90% of women\textsuperscript{127–130} and has been reported to occur as early as 8 days after early medical abortion (EMA).\textsuperscript{131} Moreover, more than 50% of women have been reported to resume sexual activity within 2 weeks after abortion.\textsuperscript{132} If the immediate initiation of a woman’s chosen method is not appropriate or not preferred then a temporary (bridging) method should be offered until she can initiate her chosen method of contraception.

Evidence from randomised controlled trials (RCTs) has shown that immediate initiation of contraception is associated with higher continuation rates and reduced risk of another unintended pregnancy (see Section 3.1.2).

### D Clinicians should adopt a person-centred approach when providing women with contraceptive counselling.

- Clinicians who are giving advice to women about contraception after abortion should ensure that this information is timely, up-to-date and accurate.

### D Comprehensive, unbiased and accurate information on contraceptive methods after abortion should be made available in different languages and in a range of formats including audio-visual.

See Section 1.4.4

Audio-visual formats can be useful in providing high-quality information about contraception in a non-judgemental way as part of routine care to women attending abortion services. Studies\textsuperscript{133,134} conducted in the UK have demonstrated that patient information provided via a digital video disk (DVD) was highly acceptable and informative to women attending abortion services.

### 3.1.2 When can contraception be initiated after abortion?

- A woman’s chosen method of contraception should be initiated immediately after abortion (medical and surgical).
Clinicians should be aware that insertion of intrauterine contraception (IUC) at the time of abortion is convenient and highly acceptable to women. This has been associated with high continuation rates and a reduced risk for another unintended pregnancy than when provision of IUC is delayed.

Clinicians should be aware that insertion of progestogen-only implants (IMP) at the time of abortion is convenient and highly acceptable to women. This has been associated with high continuation rates and a reduced risk for another unintended pregnancy than when provision of IMP is delayed.

See Section 3.2

Provision of highly effective contraceptive methods at the time of abortion has distinct advantages as (1) the woman is known not to be pregnant, (2) her motivation to use effective contraception may be high and (3) she is already accessing healthcare services. This is particularly relevant for methods such as the progestogen-only implant (IMP) and intrauterine contraception (IUC), which require the availability of a skilled clinician for insertion of the method.

The provision of long-acting reversible contraception (LARC) at the same time as abortion is both convenient and highly acceptable to women who wish to initiate LARC methods, avoiding the need for an extra visit which has been identified as a barrier to the uptake of LARC after abortion. Studies have reported that up to 50% of women scheduled for IUC insertions 2–3 weeks after surgical or medical abortion did not return for their appointment.

A Cochrane review showed that women were more likely to be ongoing IUC users at 6 months after surgical abortion if they had the device inserted immediately rather than given an appointment for insertion several weeks later. In addition, a RCT of immediate versus delayed insertion of IMP at medical abortion (1 hour after mifepristone administration) or 2–4 weeks later showed higher preference for immediate insertion, higher continuation rates of the IMP and fewer unintended pregnancies and abortion in the subsequent 6 months in the group randomised to immediate IMP.

3.1.3 Who should provide contraception to women after abortion?

Abortion service providers should be able to offer all methods of contraception, including LARC, to women before they are discharged from the service after abortion.

Abortion services should ensure that there are sufficient numbers of staff able to provide IUC or IMP so that women who choose these methods and are medically eligible can initiate them immediately after abortion.
Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated.

See Section 1.4.5

Abortion services should have agreed pathways of care to local specialist contraceptive services [e.g. community sexual and reproductive health (SRH) services] for women with complex medical conditions or needs which may require specialist contraceptive advice.

There should be agreed pathways of care to local services for women who may require additional non-medical care and support.

See Section 1.4.8

3.1.4 Which contraceptive methods are most effective in preventing another abortion?

Clinicians should be aware that women who choose to commence LARC immediately after abortion have a significantly reduced likelihood of undergoing another abortion within 2 years, compared with women provided with medium-acting, short-acting or no contraceptive methods.

The risk of a woman presenting for another abortion is strongly associated with the type of contraceptive method she uses after abortion. RCTs and observational studies$^{138,141–148}$ from a number of countries have reported that women provided with LARC immediately after abortion have a significantly reduced likelihood of another abortion within the subsequent 2 years compared with women provided with medium-acting, short-acting or no methods.

IUC is highly effective in preventing another abortion. In one RCT,$^{141}$ 751 women seeking first-trimester induced abortions were randomised into two groups. The intervention group ($n=375$) was provided with either the copper intrauterine device (Cu-IUD) or the levonorgestrel-releasing intrauterine system (LNG-IUS) immediately after surgical abortion (18.1%) or 2–4 weeks after medical abortion (81.9%). Women in the control group were prescribed oral contraceptives and advised to contact their primary healthcare unit for a follow-up visit and further contraceptive services according to national guidelines. At 1 year, the number of women requesting subsequent abortion was significantly lower in the intervention group than in the control group (5.4% vs 24%, $p=0.038$).
Observational studies have also found that the risk of having another abortion was statistically lower in women who used IUC after abortion compared to those who used oral contraceptives (OC). An odds ratio (OR) of 0.05 (95% confidence interval (CI) 0.01–0.41) was reported in one study\textsuperscript{138} and an OR of 0.36 (95% CI 0.17–0.77) was reported in another study.\textsuperscript{147} In one study\textsuperscript{146} where women using IUC were compared to women using all other methods, the hazard ratio (HR) was 0.37 (95% CI 0.26–0.52). Compared to women using short-acting methods of contraception, the HR of subsequent abortion for women using the Cu-IUD and LNG-IUS were found to be 0.46 (95% CI 0.36–0.58) and 0.26 (95% CI 0.16–0.44), respectively.

Observational studies\textsuperscript{138,145,148} have reported that women who choose to use IMP after abortion have also been shown to have a reduced likelihood of subsequent abortion. One UK study\textsuperscript{138} found that compared to women who used OC, the OR of women who used IMP after abortion having another abortion within 2 years was 0.06 (95% CI 0.02–0.23).

Observational studies\textsuperscript{138,142,147} have yielded inconsistent findings regarding the initiation of depot medroxyprogesterone acetate (DMPA) immediately after abortion and the risk of subsequent abortion. For example, one observational study in the UK\textsuperscript{138} reported that compared to women using OC, women who used DMPA had a non-significant reduction in the likelihood of having another abortion within 2 years (OR 0.5, 95% CI 0.2–1.2). This may be because DMPA is a medium-acting method and requires greater user compliance for efficacy.

### 3.1.5 Record keeping and obtaining valid consent

| **D** Clinicians should clearly document the discussion and provision of contraception. Valid consent must be obtained before providing women with their chosen method. |

See Section 1.4.7

### 3.2 Medical eligibility

#### 3.2.1 Which methods of contraception are safe to use after abortion?

| **D** Women should be advised that any method of contraception can be safely initiated immediately after an uncomplicated abortion. |

| **D** IUC should not be inserted in the presence of postabortion sepsis. |

According to the evidence-based 2016 UK Medical Eligibility Criteria (UKMEC),\textsuperscript{18} all methods of contraception are safe to use by women who have had an uncomplicated abortion (see Table 6). IUC should not be inserted in the presence of postabortion sepsis. When supporting a woman to choose an effective and acceptable method of contraception after an abortion, consideration must be given to the woman’s personal characteristics and other existing medical conditions.
Table 6: UK Medical Eligibility Criteria for Contraceptive Use (UKMEC) categories applicable to a woman after an abortion

<table>
<thead>
<tr>
<th>Post-abortion</th>
<th>Cu-IUD</th>
<th>LNG-IUS</th>
<th>IMP</th>
<th>DMPA</th>
<th>POP</th>
<th>CHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) First trimester</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>b) Second trimester</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>c) Postabortal sepsis</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

CHC, combined hormonal contraception; Cu-IUD, copper intrauterine device; DMPA, depot medroxyprogesterone acetate (progestogen-only injectable); IMP, progestogen-only implant; LNG-IUS, levonorgestrel-releasing intrauterine system; POP, progestogen-only pill.

Definition of the UKMEC categories can be found [here](#).

The RCOG guideline on *The Care of Women Requesting Induced Abortion* recommends that any chosen method of contraception may be initiated immediately after uncomplicated abortion. The World Health Organization guideline on *Safe Abortion: Technical and Policy Guidance for Health Systems* states that for medical abortion, hormonal contraception can be started by the woman after taking the first pill of a medical abortion regimen, but confirmation that the abortion is complete should precede insertion of an IUC or sterilisation.

3.2.2 Is emergency contraception (EC) safe to use after abortion?

- **Emergency contraception (EC) is indicated for women who have had unprotected sexual intercourse (UPSI) from 5 days after abortion.**
- **Women should be advised that any method of EC can be safely used after an uncomplicated abortion.**

The guideline development group (GDG) recommends that emergency contraception (EC) is indicated for women who have had unprotected sexual intercourse (UPSI) from 5 days after abortion.

All methods of EC including oral levonorgestrel emergency contraception (LNG-EC) 1.5 mg and ulipristal acetate emergency contraception (UPA-EC) 30 mg and the copper intrauterine device (Cu-IUD) can be safely used by women after an abortion. A Cu-IUD is the most effective form of EC. The pregnancy rate after Cu-IUD for EC is about 1 in 1000. The use of Cu-IUD for EC carries the same contraindications as use for regular contraception.

3.2.3 Is additional contraception required after initiation of a method after abortion?

- **Women should be advised that additional contraceptive precautions (e.g. barrier methods/abstinence) are required if hormonal contraception is started 5 days or more after abortion. Additional contraceptive precaution is not required if contraception is initiated immediately or within 5 days of abortion.**
Table 7: Requirements for abstinence or additional contraceptive precautions when a method of contraception (which the woman is medically eligible to use) is initiated after abortion

<table>
<thead>
<tr>
<th>Methods of contraception the woman is medically eligible to use</th>
<th>Initiation &lt;5 days after abortion</th>
<th>Initiation ≥5 day after abortion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper intrauterine device</td>
<td>None**</td>
<td>None</td>
</tr>
<tr>
<td>Levonorgestrel-releasing intrauterine system</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Progestogen-only pill (traditional/desogestrel)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Progestogen-only implant or injectable</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Combined hormonal contraception</td>
<td>7*</td>
<td></td>
</tr>
</tbody>
</table>

*Except Olaira™ which requires 9 days of additional contraceptive precautions.

**Except estradiol-containing combined oral contraceptives which require additional precautions if started after Day 1

The GDG recommends that no additional contraception is necessary if contraception (for which the woman is medically eligible) is initiated immediately or within 5 days of abortion. However, if hormonal contraception is started 5 days or more after abortion, a woman is at risk of another pregnancy and thus additional contraceptive precautions (e.g. barrier methods/abstinence) are required (see Table 7).

### 3.3 Method-specific considerations

#### 3.3.1 Intrauterine contraception (IUC)

**IUC can be safely used by women after an uncomplicated abortion. Women may be advised that they may benefit from reduced uterine bleeding when using levonorgestrel-releasing intrauterine system (LNG-IUS).**

There is little evidence on the insertion of IUC on the same day as medical abortion (expulsion of pregnancy). Available evidence for same-day insertion relates to reports within observational studies. Most evidence for IUC insertion following medical abortion relates to insertion after several days have elapsed from expulsion.

There is evidence from a Cochrane review and a systematic review that the insertion of IUC immediately after uncomplicated surgical abortion is safe and practical. A meta-analysis of three RCTs reported in a Cochrane review of 12 studies found that expulsion by 6 months was more likely in the group assigned to immediate insertion than in the group assigned to delayed insertion (RR 2.64, 95% CI 1.16–6.00) after surgical abortion. Ongoing use at 6 months was greater in the immediate insertion group compared to the delayed insertion group (RR 1.40, 95% CI 1.24–1.58). The analysis also showed a three-fold increase in risk of pregnancy in the delayed group compared with the immediate insertion group, although this was not statistically significant (RR 2.70, 95% CI 0.8–8.33). Risk of infection of the upper genital tract was similar for the two groups (OR 1, 95% CI 0.33–3.07).

Evidence level 1++
Similarly, a systematic review of 19 studies report that IUC insertion immediately after surgical abortion is not associated with an increased risk of adverse outcomes compared with use of other contraceptive methods or with no IUC insertion after abortion. It also found no increased risk of adverse outcomes compared with IUC insertion at times other than immediately after abortion.

IUC expulsion rates, while generally low, were higher in insertions performed after late first-trimester surgical abortions compared with those done after early first-trimester surgical abortions. Expulsion rates were also higher with IUC insertions performed after second-trimester surgical abortions compared with first-trimester surgical abortions. More recent RCTs not included in either systematic review reached the similar conclusion that immediate insertion of an IUC after abortion is safe.

There is some evidence that women who choose an LNG-IUS after surgical or medical abortion benefit from reduced menstrual blood loss. An RCT which compared bleeding patterns of women who had Cu-IUD or LNG-IUS inserted immediately after surgical abortion found that LNG-IUS users experienced a higher incidence of amenorrhoea and an increased number of spotting days throughout the follow-up period. At 6 months, 35/37 (94.5%) women who used Cu-IUD reported normal bleeding patterns and the other two women had heavy bleeding. Of 34 women who used LNG-IUS, 19 (55.9%) reported a normal bleeding pattern, four (11.7%) reported amenorrhoea, five (14.7%) reported spotting and five (14.7%) reported heavy bleeding. The other RCT which compared women randomised to early (5–9 days after mifepristone) or delayed (3–4 weeks after mifepristone) insertion of IUC reported no difference with regard to bleeding patterns between the two groups. The amount of postabortion bleeding was reduced in women with insertion of LNG-IUS compared to women with Cu-IUD.

**D** With medical abortion, IUC can be inserted any time after expulsion of the pregnancy.

**A** With surgical abortion IUC, can be inserted immediately after evacuation of the uterine cavity.

Given that many women having EMA (less than 9 weeks’ gestation) go home to pass the pregnancy, there is little published evidence on insertion of IUC on the same day of expulsion with medical abortion. There is also a lack of evidence on insertion of IUC after mid-trimester abortion. Given the demonstration that insertion of IUC within 1 week of mifepristone is as safe as delayed insertion (2–3 weeks later) and the safety of insertion of IUC in the immediate postpartum period, the GDG recommends that IUC can be safely inserted after medical abortion immediately after expulsion of the pregnancy.
If women choose to delay the insertion of IUC, the return visit for insertion should be scheduled as soon as possible since women are more likely to attend and less likely to have resumed intercourse, according to one RCT.\textsuperscript{150} There is no difference in complication rates between insertion conducted within 1 week of taking mifepristone or conducted 2–3 weeks later.\textsuperscript{150}

For women having EMA for whom successful abortion has not been confirmed (e.g. who go home to pass the pregnancy), exclusion of ongoing pregnancy is necessary before insertion of IUC. Whilst an ultrasound will reliably exclude ongoing pregnancy, the presence of ultrasonically visible but clinically unimportant clot/tissue can lead to unnecessary intervention. Clinicians should only make a decision to evacuate the uterus on clinical signs and symptoms of incomplete abortion.

Alternative methods of excluding an ongoing pregnancy after medical abortion (up to 63 days) include use of a low-sensitivity urine pregnancy test [detection limit 1000 international units (IU) human chorionic gonadotrophin (hCG)] conducted at 2 weeks after misoprostol administration.\textsuperscript{154–157} The use of a high-sensitivity urinary pregnancy test (HSUP) (typically 10–25 IU hCG) after EMA to exclude ongoing pregnancy is limited, due to false-positive results from the residual low circulating levels of hCG in the weeks after EMA. If a HSUP is used at 1 month after EMA then approximately one-quarter of women will have a positive result.\textsuperscript{158} Multilevel urinary pregnancy tests that have a range of sensitivities for hCG have shown promise for excluding ongoing pregnancy from as early as Day 3 after medical abortion, but are not yet available for this purpose in the UK.\textsuperscript{159}

Thus, for exclusion of ongoing pregnancy prior to 2 weeks after EMA, ultrasound examination is required.

3.3.2 Progestogen-only contraception

**B** Progestogen-only contraception can be safely started at any time, including immediately, after medical or surgical abortion.

The UKMEC\textsuperscript{18} recommends that progestogen-only contraception can be safely started at any time after surgical or medical abortion. Observational studies\textsuperscript{160,161} suggest that women who have immediate insertion of IMP after abortion report insertion at this time to be highly acceptable. Women who have immediate insertion also have higher continuation rates after 1 year compared with women who have delayed placement of IMP.\textsuperscript{92,162–164}

**B** Women should be advised that IMP can be safely initiated at the time of mifepristone administration.

Evidence level 1+
Progestogen-only contraception can be safely initiated at the time of administration of mifepristone. There has been a concern that commencing progestogen-only contraception at the same time as mifepristone (a progesterone receptor modulator) might reduce the efficacy of medical abortion due to competition at the progesterone receptor. One RCT from Mexico and the USA, which included 476 women undergoing EMA (≤9 weeks) randomised into receiving IMP either with mifepristone (Quickstart group, n=236) or after the abortion was complete (Afterstart group, n=240), showed no differences in success of the medical abortion. The study found that 3.9% and 3.8% of women in the Quickstart and Afterstart groups, respectively, had surgery to complete the abortion. The median days of bleeding was slightly but significantly higher in the Quickstart group than in the Afterstart group (12 vs 10, p=0.03). The incidence of heavy bleeding was nearly identical in both groups. The study also found that quick starting IMP enhanced patient satisfaction but found no evidence that it decreased unintended pregnancies 6 months later.

A further randomised-controlled, equivalence trial from Sweden and the UK included 538 women undergoing EMA (≤9 weeks) randomised to insertion of IMP 1 hour after mifepristone (immediate group, n=277) or at a follow-up 2–3 weeks later (delayed group, n=261). There was no significant difference in the efficacy of medical abortion in the immediate insertion group and the delayed insertion groups (94.2% vs 96.0%). However, a significantly (p<0.001) higher proportion of women in the immediate group received the IMP (98.9% insertion) compared to the delayed group (71.6% insertion). In addition, the study reported significantly fewer unintended pregnancies at 6 months in the immediate group compared to the delayed group (0.8% vs 3.8%, p=0.018). The study findings (which may be more relevant to the UK setting) suggest that IMP inserted on the day of mifepristone is safe, preferred by women, does not affect efficacy of medical abortion, but is associated with higher uptake and fewer subsequent unintended pregnancies than insertion several weeks later.

**Women should be advised that there may be a slightly higher risk of continuing pregnancy (failed abortion) if DMPA is initiated at the time of mifepristone administration.**

There is currently limited evidence on a possible impact of immediate initiation of DMPA on EMA. A recent RCT from Mexico and the USA, which included 461 women undergoing medical abortion (up to 75 days’ gestation) using a regimen of 200 mg mifepristone followed by 800 μg misoprostol administered buccally 24–48 hours later at home. Women were randomised into receiving DMPA [150 mg intramuscular (IM)] either at the time of mifepristone administration (Quickstart group, n=220) or after the abortion (Afterstart group, n=226). The study showed no difference in need for surgical intervention between the groups. However, the study found that ongoing pregnancy rates were higher in the Quickstart group (8/220, 3.9%) compared to the Afterstart group (2/226, 0.9%). The difference was 2.7% (95% CI 0.4–5.6). The paper did not report the gestational age at treatment of those failures.
The study also found that quick starting DMPA enhanced patient satisfaction and resulted in more women using the method in the short term (at 1 month) but no difference in use at 6 months.

The study was designed and powered to examine needs for surgical intervention rather than ongoing pregnancy (which is less common). In addition, it is unknown whether similar findings would be observed with use of the subcutaneous SC formulation (Sayana Press®) at mifepristone since Sayana Press is a lower-dose (104 mg) preparation than the IM preparation (150 mg). Nevertheless, the GDG recommends that women should be advised that administration of DMPA (IM or SC) at the same time as mifepristone may be associated with a small increase in the risk of failure of EMA. Women who wish to start DMPA at time of mifepristone should be advised of the importance of confirming success of the procedure according to local clinic protocols. Women should be reminded that scant or absent bleeding may be due to failed medical abortion rather than hormonal method used. Under such circumstances, urgent medical review should be sought.

There is no evidence of an adverse effect of mifepristone on the efficacy of ongoing contraception. Two RCTs that have examined the impact of the progesterone receptor modulator ulipristal acetate (UPA) which is licensed for EC, have shown no effect on contraceptive action (number of days of pill-taking required to induce ovarian quiescence or hostile cervical mucus) of either a desogestrel-containing progestogen–only pill (POP) or combined oral contraceptive (COC) pill when commenced the day following administration of UPA.

**Women should be advised that scant or absent bleeding should not be attributed to a hormonal method of contraception that has been initiated, but that it may be due to failed medical abortion. Under such circumstances, urgent medical review should be sought.**

Given the association between progestogen-only contraceptive methods and amenorrhoea, there is concern that women with a failed EMA (ongoing pregnancy) might wrongly attribute the lack of bleeding post-procedure to the fact they are using progestogen-only contraception. Women who commence progestogen-only contraception at the time of EMA should be clearly instructed on the signs/symptoms of an ongoing pregnancy, which should prompt the need for medical review even before any scheduled follow-up or urine pregnancy testing. The symptoms and signs of an ongoing pregnancy after an abortion include:

- Absent or scant bleeding
- Persisting symptoms of pregnancy such as nausea, breast tenderness, abdominal swelling
- Missed menstrual periods.
3.3.3 Combined hormonal contraception (CHC)

**B** Combined hormonal contraception (CHC) can be safely started immediately after abortion.

A systematic review\(^{169}\) which included three RCTs and four cohort studies reported that the use of COC immediately after completion of surgical or medical abortion is safe. Two RCTs\(^{170,171}\) have shown that immediate use of COC does not affect the success rate of the abortion procedure.

Limited evidence from RCT and observational studies suggests that the combined transvaginal ring (CVR)\(^{172}\) and the combined transdermal patch (patch)\(^{173,174}\) are also safe to commence immediately after abortion.

The systematic review\(^{169}\) also reported that immediate COC use after first-trimester medical\(^{170,171,175}\) or surgical abortion\(^{176-178}\) did not increase side effects or prolong vaginal bleeding compared with use of a placebo, Cu-IUD, non-hormonal contraceptive method or delayed COC use. Initiating COC after first-trimester surgical abortion is associated with a small, statistically significant increase in coagulation parameters compared with intrauterine device (IUD) use;\(^{176}\) however, this is unlikely to be of clinical relevance.\(^{169}\)

3.3.4 Female sterilisation

**D** Female sterilisation is a safe option for permanent contraception after abortion.

** ✓** Women should be advised that some LARC methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits. However, women should not feel pressured into choosing LARC over female sterilisation.

**B** Tubal occlusion should ideally be performed after some time has elapsed after abortion. Women who request tubal occlusion to be performed at the time of abortion should be advised of the possible increased failure rate and risk of regret.

Few medical conditions would absolutely restrict an individual’s eligibility for female sterilisation. Specific precautions may apply in certain circumstances as highlighted in the FSRH *Clinical Guideline on Male and Female Sterilisation*\(^{110}\) and the WHO Medical Eligibility Criteria (WHOMEC).\(^{107}\)

All methods of contraception, including vasectomy (if appropriate), should be discussed with women requesting female sterilisation. Women should be made aware that some methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits such as reducing uterine bleeding with LNG-IUS use. However, it is important that women do not feel pressured into choosing LARC over female sterilisation.
Tubal occlusion

The available evidence regarding risks of complication and failure associated with abortion at the time of sterilisation is conflicting. The FSRH/RCOG guideline\textsuperscript{110} notes that although the addition of sterilisation to a procedure for abortion does not seem to increase the complication rate already associated with abortion,\textsuperscript{179} it has been argued that the complication rate associated with a combined procedure is higher than that associated with interval sterilisation.\textsuperscript{180} Studies\textsuperscript{181–185} comparing abortion combined with laparoscopic sterilisation versus laparoscopic sterilisation alone found no significant differences in the complication rate between the two procedures. Given that concurrent surgical abortion and laparoscopic tubal ligation are typically performed under general anaesthesia, it had been suggested that anaesthesia-related risk can be minimised by performing the two procedures together.

An early casenote review study\textsuperscript{186} that compared failure rates of laparoscopic sterilisation with non-laparoscopic methods found that the pregnancy rate was double if sterilisation was combined with abortion. However a large case-control study\textsuperscript{187} failed to find any association between timing of the procedure and failure rate. The follow-up time was short and there were fewer suitable controls for the postabortion cases.

Some studies reported no difference in regret rates\textsuperscript{188–191} between women who underwent laparoscopic sterilisation at the same time as abortion (predominately first-trimester) and those who underwent interval sterilisation. Conversely, other studies\textsuperscript{192,193} have reported an increased rate of regret when sterilisation was performed at the same time as the abortion.

One RCT\textsuperscript{181} in which women were randomised to either undergo a combined abortion with laparoscopic sterilisation or an abortion with sterilisation as an interval procedure at least 6 weeks later reported that 32.8\% of women did not return for their interval sterilisation. It is important to note that non-attendance does not necessarily indicate regret, but does suggest that some women may have changed their minds when they were able to reconsider their decision outside the stressful circumstances of an unintended pregnancy. This further emphasises the need for careful counselling when sterilisation is requested in association with pregnancy.

Transcervical approaches

There are no studies evaluating concurrent abortion and hysteroscopic tubal occlusion. The Essure® micro-insert manufacturer instructions for use\textsuperscript{194} list both childbirth and abortion of a second-trimester pregnancy within the previous 6 weeks as contraindications for insertion. A recent narrative review on contraception after abortion noted that the procedure could be reasonably and safely accomplished before 6 weeks after the procedure in a woman who is no longer bleeding and has had adequate endometrial preparation with POP, DMPA or the LNG-IUS.\textsuperscript{195}
Clinicians should ensure that consent from the woman to conduct female sterilisation at the same time as surgical abortion is taken and documented in advance of the abortion.

The GDG considered that consent to conduct a sterilisation at the same time as surgical abortion should be taken and documented in advance of the procedure. This requires careful consideration, counselling and documentation.

**Removal of the fallopian tubes and ovarian cancer**

There is epidemiological evidence suggesting bilateral salpingectomy may protect against developing high-grade serous ovarian cancer. It is postulated that this may be because some epithelial cancers may originate in tubal epithelium. The RCOG advises that women should be carefully counselled for removal of fallopian tubes, if their family is complete and they are undergoing pelvic surgery. This may be also relevant to women being sterilised after abortion.

### 3.3.5 Barrier methods

- **D** Condoms (male and female) can be used by women after abortion.

- **D** Women choosing to use a diaphragm should be advised to wait at least 6 weeks after second-trimester abortion because the size of diaphragm required may change as the uterus returns to normal size.

Condoms (male and female) can be used without restriction at any time by women after abortion. However, given their high failure rates (percentage of women experiencing an unintended pregnancy within the first year of use) with typical use, they are considered one of the least effective contraceptive methods.

Diaphragms are considered unsuitable until 6 weeks after second-trimester abortion as the required size of diaphragm may change as the uterus returns to normal size. A different size diaphragm may be required for women who have used this method previously. Another method of contraception should be used until the woman is able to insert and remove a correctly fitted diaphragm.

### 3.3.6 Fertility awareness methods (FAM)

- **✔** Fertility awareness methods (FAM) can be used by women after abortion. However, women should be advised that because FAM relies on the detection of the signs and symptoms of fertility and ovulation, its use may be difficult after abortion.
Women should be advised that fertility awareness methods (FAM) should be used carefully in order to ensure maximum effectiveness. The effectiveness of FAM can be improved when a combination of indicators are used and are taught by trained FAM practitioners.\textsuperscript{122} High failure rates are associated with typical use.\textsuperscript{20} Refer to FSRH guideline \textit{Fertility Awareness Methods} for further guidance.\textsuperscript{123}

Shortly after abortion, signs of fertility may be disrupted and extreme caution is required. Any calendar-based method should not be relied upon until one menstrual period has occurred.

3.4 Useful links and support group: Contraception after abortion

- NHS Choices: Contraception guide
- NHS Choices: Pregnancy and baby
- The Family Planning Association (FPA)
- British Pregnancy Advisory Service (BPAS)
- Marie Stopes UK
4. Contraception After Ectopic Pregnancy or Miscarriage

4.1 Discussion and provision of contraception after ectopic pregnancy or miscarriage

For clinical guidance relating to the diagnosis and initial management of ectopic pregnancy and miscarriage, please refer to the RCOG Green-top guideline Diagnosis and Management of Ectopic Pregnancy\textsuperscript{15} and the NICE guideline Ectopic Pregnancy and Miscarriage.\textsuperscript{14}

The recommendations covered in this section apply only to diagnosed/confirmed ectopic pregnancy (i.e. excludes pregnancy of unknown location) and/or miscarriage.

4.1.1 When should contraception be discussed/provided?

- Services providing care to women with ectopic pregnancy or miscarriage should give them opportunities to discuss their fertility intentions, contraception and preconception planning.
- Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.
- If a woman wishes to delay or prevent a further pregnancy, effective contraception should be initiated as soon as possible as sexual activity and ovulation may resume very soon after ectopic pregnancy or miscarriage.
- A woman’s chosen method of contraception should ideally be initiated immediately after treatment for ectopic pregnancy or miscarriage.

Clinicians involved in the care of women who have had an ectopic pregnancy or miscarriage should give these women the opportunity to discuss their fertility intentions, use of contraception and preconception planning as part of their ongoing care. However, whenever contraceptive counselling is provided, care should be taken to ensure that women do not feel under pressure to choose a method of contraception. Most methods of contraception can be initiated immediately, but for some methods, such as intrauterine contraception (IUC), initiation will depend on whether the ectopic pregnancy or miscarriage is managed medically, surgically or expectantly.

If a woman wishes to delay or prevent a further pregnancy, contraception should be initiated as soon as possible given that ovulation can resume very soon after ectopic pregnancy or miscarriage. In the absence of direct evidence, the guideline development group (GDG) suggests that the resumption of ovulation after a miscarriage (first- or second-trimester) is likely to be similar to that after an induced abortion, which has been reported to occur as early as 8 days after a medical abortion.\textsuperscript{131,196}

Fertility can return within 1 month after surgical or medical treatment for ectopic pregnancy.\textsuperscript{197,198} A population-based cohort study\textsuperscript{197} reported that among 140 women who had an ectopic pregnancy and attempted to become pregnant, 15% achieved a pregnancy within 1 month and 53% within 6 months.

Evidence level 2+
Women should be informed about the effectiveness of the different contraceptive methods, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after ectopic pregnancy or miscarriage.

See Section 1.4.3

Click here to access a table that compares the percentage of women experiencing an unintended pregnancy during the first year of contraceptive use when the method is used ‘typically’ (which includes both incorrect and inconsistent use) or ‘perfectly’ (correct and consistent use).

Clinicians should adopt a person-centred approach when providing women with contraceptive counselling.

Clinicians who are giving advice to women about contraception after ectopic pregnancy or miscarriage should ensure that this information is timely, up-to-date and accurate.

Comprehensive, unbiased and accurate information on contraceptive methods after ectopic pregnancy or miscarriage should be made available in different languages and in a range of formats including audio-visual.

See Section 1.4.4

4.1.2 How long should a woman wait before trying to conceive again after ectopic pregnancy or miscarriage?

Women who wish to conceive after miscarriage can be advised there is no need to delay as pregnancy outcomes after miscarriage are more favourable when conception occurs within 6 months of miscarriage compared with after 6 months.

One review that included three studies of miscarriage reported that women who conceived within 6 months of miscarriage had better outcomes (including less likelihood of preterm birth, low birthweight, subsequent miscarriage, abortion or ectopic pregnancy) when compared to women who had an interpregnancy interval (IPI) of 6 months or more.

Evidence level 2-

After use of methotrexate

Women who have been treated with methotrexate should be advised that effective contraception is recommended during and for at least 3 months after treatment in view of the teratogenic effects of this medication.

Women should be advised that effective contraception can be started on the day of methotrexate administration or surgical management of ectopic pregnancy.
Methotrexate is widely used for treating ectopic pregnancy and is teratogenic. There are conflicting recommendations regarding the waiting period after methotrexate treatment before a woman should try to conceive again. Balancing the evidence and expert opinion, the GDG recommends that women who have had methotrexate should use effective contraception during and for at least 3 months after treatment in view of its teratogenic effects.

The Summary of Product Characteristics (SPC) for methotrexate recommends that “appropriate measures should be taken (in both men and women) to avoid conception during and for at least 6 months after cessation of methotrexate therapy”. However, the RCOG recommends that “women should be advised to avoid sexual intercourse during treatment” and “to use reliable contraception for 3 months after methotrexate has been given because of the teratogenic risk”.

One retrospective observational study evaluated the pregnancy outcomes of 125 women treated with methotrexate for ectopic pregnancy who subsequently conceived. Forty-five pregnancies occurred within 6 months of the last methotrexate treatment. The outcomes of those pregnancies were compared with the 80 pregnancies that occurred 6 months or more (mean 14.7, standard deviation 23.6) after the last methotrexate treatment. Fetal malformations and adverse outcomes including miscarriage rate for both groups were similar [odds ratio (OR) 1.00, 95% confidence interval (CI) 0.98 – 1.02]. Two narrative reviews which included the findings of an observational study recommend that in light of limited evidence to confirm the exact safe timing of conception after methotrexate treatment, women who are planning to conceive should wait at least 3 months after stopping methotrexate treatment. However, conception within 3 months of methotrexate treatment for ectopic pregnancy should not be considered a definite indication for abortion, but would indicate the need for targeted assessment for fetal malformations.

4.1.3 Who should provide contraception after ectopic pregnancy or miscarriage?

- Services involved in the care of women who have had an ectopic pregnancy or miscarriage should be able to offer all methods of contraception, including LARC, to women before they are discharged from the service.

- Services should ensure that there are sufficient numbers of staff able to provide intrauterine contraception (IUC) or progestogen-only implant (IMP) so that women who choose these methods and are medically eligible can initiate them immediately after treatment.

- Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated.

See Section 1.4.5
Services should have agreed pathways of care to local specialist contraceptive services [e.g. community sexual reproductive health (SRH) services] for women with complex medical conditions or needs which may require specialist contraceptive advice.

Services should have agreed pathways of care to local services for women who may require additional non-medical care and support.

See Section 1.4.8

4.1.4 Record keeping and obtaining valid consent

Clinicians should clearly document the discussion and provision of contraception. Valid consent must be obtained before providing women with their chosen method of contraception.

See Section 1.4.6

4.2 Medical eligibility

4.2.1 Which contraceptive methods are safe to use after ectopic pregnancy or miscarriage?

Clinicians should refer to the method-specific recommendations for abortion which may be extrapolated for use after ectopic pregnancy or miscarriage.

Women should be advised that any method of contraception can be safely initiated immediately after methotrexate administration or surgical treatment of ectopic pregnancy.

Women should be advised that any method of contraception can be safely initiated immediately after treatment for miscarriage.

IUC can be inserted after miscarriage as soon as expulsion has occurred at surgery or after medical or expectant management.

IUC should not be inserted in the presence of sepsis after ectopic pregnancy or miscarriage.

Although the term miscarriage is preferred to the outdated term ‘spontaneous abortion’, the WHOMEC\(^{107}\), USMEC\(^{204}\) and UKMEC\(^{18}\) category for ‘abortion’ covers both spontaneous and therapeutic abortion. Many studies on abortion include ectopic pregnancies and spontaneous abortions (miscarriages). The GDG recommends that given the limited direct evidence on use of contraception after ectopic pregnancy or miscarriage, the method-specific considerations for this group of women may be extrapolated from the evidence relating to use of contraception by women after abortion. See Section 3.3

Evidence level 4
Table 8: Summary of UK Medical Eligibility Criteria for Contraceptive Use (UKMEC) categories applicable to a woman after abortion (extrapolated to immediately after ectopic pregnancy and miscarriage)\textsuperscript{18}

<table>
<thead>
<tr>
<th>Post-abortion</th>
<th>Cu-IUD</th>
<th>LNG-IUS</th>
<th>IMP</th>
<th>DMPA</th>
<th>POP</th>
<th>CHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) First trimester</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>b) Second trimester</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>c) Postabortion sepsis</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

CHC, combined hormonal contraception; Cu-IUD, copper intrauterine device; DMPA, depot medroxyprogesterone acetate (progestogen-only injectable); IMP, progestogen-only implant; LNG-IUS, levonorgestrel-releasing intrauterine system; POP, progestogen-only pill.

Definition of the UKMEC categories can be found \textit{here}.

According to the 2016 UK Medical Eligibility Criteria (UKMEC),\textsuperscript{18} all methods of contraception are safe for use by women who have had an uncomplicated abortion. IUC should not be inserted in the presence of sepsis after ectopic pregnancy or miscarriage (see Table 8). The UKMEC also includes a category for ‘past ectopic pregnancy’ which applies to women with a history of ectopic pregnancy and does not specifically address contraceptive eligibility immediately after ectopic pregnancy.

When supporting a woman to choose an effective and acceptable method of contraception, consideration must be given to the woman’s personal characteristics and other existing medical conditions.\textsuperscript{18}

4.2.2 Is emergency contraception (EC) safe to use after ectopic pregnancy or miscarriage?

- Emergency contraception (EC) is indicated if unprotected sexual intercourse (UPSI) takes place more than 5 days after methotrexate administration or surgical treatment of ectopic pregnancy.

- Women should be advised that any method of EC can be safely used after ectopic pregnancy or miscarriage.

The GDG recommends that emergency contraception (EC) is indicated for a woman who has had unprotected sexual intercourse (UPSI) from 5 days after treatment for ectopic pregnancy or miscarriage. All methods of EC including oral EC levonorgestrel 1.5 mg (LNG-EC) and ulipristal acetate 30 mg (UPA-EC) and a copper intrauterine device (Cu-IUD) can be safely used by women after ectopic pregnancy or miscarriage.\textsuperscript{18} A Cu-IUD is the most effective form of EC. The pregnancy rate after Cu-IUD for EC is about 1 in 1000.\textsuperscript{59} The use of Cu-IUD for EC carries the same contraindications and low risk of ectopic pregnancy as Cu-IUD used for routine contraception.\textsuperscript{80}

The European Active Surveillance Study for Intrauterine Devices (EURAS-IUD) study, which included 61 448 women from six countries in Europe, reported an ectopic pregnancy rate of 0.08 per 100 woman-years (95% CI 0.04–0.13) among women using a Cu-IUD as a regular method of contraception.\textsuperscript{205}
A Cochrane review\textsuperscript{206} of 100 trials and a systematic review\textsuperscript{207} of 136 studies reported that the use of oral EC has not been associated with an increased risk of ectopic pregnancy after contraceptive failure. UPA-EC has been available in the UK since 2009; recently published postmarketing surveillance data reported four ectopic pregnancies out of an estimated 1.4 million users.\textsuperscript{208}

4.2.3 Is additional contraception required after initiation of a method after ectopic pregnancy or miscarriage?

\begin{itemize}
\item Women should be advised that additional contraceptive precautions (e.g. barrier methods/abstinence) are required if hormonal contraception is started 5 days or more after miscarriage. Additional contraceptive precaution is not required if contraception is initiated immediately or within 5 days of miscarriage.
\item Women should be advised that additional contraceptive precautions (e.g. barrier methods/abstinence) are required if hormonal contraception is started 5 days or more after surgical treatment or administration of methotrexate for ectopic pregnancy. Additional contraceptive precaution is not required if contraception is initiated immediately or within 5 days of treatment of ectopic pregnancy.
\end{itemize}

The GDG recommends that provided the woman is medically eligible to use the method, no additional contraceptive measures are necessary if any method is initiated immediately or within 5 days of treatment for ectopic pregnancy or miscarriage. However, if hormonal contraception is started 5 days or more after treatment for ectopic pregnancy or miscarriage, a woman is at risk of another pregnancy and thus additional contraceptive precautions (e.g. barrier methods/abstinence) are required (see Table 9).

Table 9: Requirements for abstinence or additional contraceptive contraception when a contraceptive method is initiated after treatment for ectopic pregnancy or miscarriage

<table>
<thead>
<tr>
<th>Methods of contraception the woman is medically eligible to use</th>
<th>Initiation &lt;5 days after treatment for ectopic pregnancy or miscarriage</th>
<th>Initiation ≥5 days after treatment for ectopic pregnancy or miscarriage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper intrauterine device</td>
<td>None**</td>
<td>None**</td>
</tr>
<tr>
<td>Levonorgestrel-releasing intrauterine system</td>
<td>None**</td>
<td>7</td>
</tr>
<tr>
<td>Progestogen-only pill (traditional/desogestrel)</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>Progestogen-only implant or injectable</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Combined hormonal contraception</td>
<td>7*</td>
<td>7</td>
</tr>
</tbody>
</table>

*Except Qlaira\textsuperscript{®} which requires 9 days of additional contraceptive precautions.
**Except estradiol-containing combined oral contraceptives which require additional precautions if started after Day 1
4.3 Specific issues

4.3.1 Does hormonal contraception have an effect on bleeding after ectopic pregnancy or miscarriage?

There is a lack of evidence on the effect of hormonal methods of contraception on bleeding after ectopic pregnancy or miscarriage. Extrapolation of evidence on induced abortion would suggest no adverse effect of combined hormonal contraception (CHC) use on uterine bleeding (see Section 3.3.3).

4.3.2 What are the implications of recurrent miscarriage on contraceptive choice?

<table>
<thead>
<tr>
<th></th>
<th>Evidence level 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Women who have had recurrent early miscarriage (REM) should be investigated for any underlying causes. However, investigations should not lead to a delay in initiation of a contraceptive method if the woman does not wish to become pregnant.</td>
</tr>
<tr>
<td></td>
<td>Combined hormonal contraception (CHC) should be avoided by women with REM until antiphospholipid syndrome (APS) has been excluded.</td>
</tr>
</tbody>
</table>

If a woman has experienced recurrent miscarriage (the loss of three or more consecutive pregnancies), investigation into underlying causes is recommended, not least because of the psychological morbidity experienced by these women and the possibility of maternal or neonatal complications. See Resource 2 for a summary of the diagnostic criteria for antiphospholipid syndrome (APS) based on the international consensus statement on an update of the classification criteria for definite APS.

If a woman does not wish to become pregnant again immediately then effective contraception should be commenced. Investigations should not delay contraceptive initiation.

Contraceptive eligibility may be influenced by the outcome of investigations as recurrent miscarriage has been attributed to a number of underlying risk factors, including known thrombogenic mutations and APS.

According to UKMEC, CHC is contraindicated (i.e. UKMEC 4) in women with positive antiphospholipid antibodies or known thrombogenic mutations (e.g. Factor V Leiden, Prothrombin mutation, Protein S, Protein C and antithrombin deficiencies). Therefore CHC should be avoided until APS can be excluded. Women with positive antiphospholipid antibodies or known thrombogenic mutations can safely use progestogen-only contraception (UKMEC 2) and IUC (UKMEC 1) (see Table 10).
Table 10: Summary of UK Medical Eligibility Criteria for Contraceptive Use (UKMEC) categories applicable to a woman with positive antiphospholipid antibodies or known thrombogenic mutations

<table>
<thead>
<tr>
<th>Condition</th>
<th>Cu-IUD</th>
<th>LNG-IUS</th>
<th>IMP</th>
<th>DMPA</th>
<th>POP</th>
<th>CHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive antiphospholipid antibodies</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Known thrombogenic mutations (e.g. Factor V Leiden, prothrombin mutation, Protein S, Protein C and antithrombin deficiencies)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

CHC, combined hormonal contraception; Cu-IUD, copper intrauterine device; DMPA, depot medroxyprogesterone acetate (progestogen-only injectable); IMP, progestogen-only implant; LNG-IUS, levonorgestrel-releasing intrauterine system; POP, progestogen-only pill.

Definition of the UKMEC categories can be found [here](#).

4.3.3 Is there any method associated with a risk of another ectopic pregnancy?

- **C** Women should be advised that the absolute risk of ectopic pregnancy when contraception is used is extremely small and that the risk of pregnancy is lowest with LARC.
- **D** Women should be advised to seek medical advice if they suspect they may be pregnant and have symptoms suggestive of ectopic pregnancy, even while using contraception.

All contraceptive methods can effectively reduce the number of intrauterine and ectopic pregnancies. LARC is most effective in preventing any pregnancy. The absolute risk of ectopic pregnancies when contraception is used is extremely small.\(^{214}\)

Women with a history of ectopic pregnancy are at a higher risk of another ectopic pregnancy. However, secondary prevention has been found to be problematic because of the paucity of risk factors that can be modified to diminish the odds of recurrence.\(^{215}\) Nevertheless, it is important that women are informed of the small absolute risk of another ectopic pregnancy if pregnancy occurs when contraception is used.

When choosing a method of contraception, women with a history of ectopic pregnancy should be advised to consider the use of a LARC method since LARC methods are the most effective at preventing all pregnancies and thus an ectopic pregnancy. Women with a history of ectopic pregnancy should be advised to seek medical advice if they have symptoms suggestive of ectopic pregnancy while using any method of contraception.\(^{14}\) Even if a symptom is less common, it may still be significant. [See Resource 3](#) for a summary of the signs and symptoms of an ectopic pregnancy on clinical examination, based on the NICE clinical guideline\(^{14}\) *Ectopic Pregnancy and Miscarriage: Diagnosis and Initial Management.*

Evidence level 2+

Evidence level 4
Combined hormonal contraception (CHC)

A review\textsuperscript{216} of six case-control studies estimated that the absolute risk of ectopic pregnancy in women using combined oral contraceptive (COC) ranges from 0.7 to 19.9 ectopic pregnancies per 1000 woman-years. No study reporting on other types of CHC [e.g. the combined vaginal ring (CVR) or the patch] was identified.

Progestogen-only pill (POP)

Concerns have been raised that women using a low-dose progestogen-only pill (POP) might be at higher risk of ectopic pregnancy than women using other methods of contraception. This is believed to be due to the inconsistent inhibition of ovulation\textsuperscript{217,218} and the reduction in ciliary activity in the fallopian tubes that slows the passage of an ovum,\textsuperscript{219} leading to an increased risk of tubal implantation.\textsuperscript{220}

The absolute risk of ectopic pregnancy in women using POP is significantly lower than women using condoms or no method. Ectopic pregnancy rates amongst POP users have been reported to range from about 3–20 ectopic pregnancies per 1000 woman-years.\textsuperscript{216,220}

Progestogen-only implant (IMP) and injectable (POI)

The absolute risk of ectopic pregnancy when using the progestogen-only implant (IMP) or progestogen-only injectable (POI) is very low. A systematic review\textsuperscript{221} based on 53 studies of IMP and 28 studies of depot medroxyprogesterone acetate (DMPA) reported a very small number of ectopic pregnancies. Among 10 studies of DMPA, pregnancy rates ranged from 0.1–1.7 ectopic pregnancies per 1000 woman-years. One retrospective study\textsuperscript{222} reported that of the 949 182 users of DMPA, there were 402 ectopic pregnancies (0.42 per 1000 women).

The systematic review\textsuperscript{221} identified two studies\textsuperscript{223,224} that reported any pregnancies with use of IMP. Only one study\textsuperscript{224} reported any ectopic pregnancy. The study, a review of postmarketing surveillance data submitted to Australia’s drug regulatory agency, reported five ectopic pregnancies out of 218 unintended pregnancies associated with IMP use. A review\textsuperscript{225} of clinical trials and marketing data on IMP reported that ectopic pregnancies represent 4.7% of all reported pregnancies, with an absolute rate of 0.2 ectopic pregnancies per 100 000 implants sold.
Intrauterine contraception (IUC)

Women who have had an ectopic pregnancy should be advised that IUC is one of the most effective methods of contraception and so the absolute risk of any pregnancy including ectopic pregnancy is extremely low.

Women should be informed that if pregnancy occurs with an IUC in situ, there is an increased risk of ectopic pregnancy and therefore the location of the pregnancy should be confirmed by ultrasound as soon as possible.

The absolute risk of any pregnancy including ectopic pregnancy when using IUC is very low. The EURAS-IUD study, which included 61,448 women with newly inserted IUC (52 mg LNG-IUS or Cu-IUD) enrolled from six European countries between 2006 and 2012, reported validated 1-year follow-up information for 58,324 users. Both types of IUC were highly effective, with overall Pearl indices (PI) of only 0.06 pregnancies per 100 woman-years (95% CI 0.04–0.09) and 0.52 (95% CI 0.42–0.64) for the levonorgestrel-releasing intrauterine system (LNG-IUS) and Cu-IUD, respectively. The study reported an ectopic pregnancy rate for the LNG-IUS of 0.02 per 100 woman-years (95% CI 0.01–0.003) and for the Cu-IUD a rate of 0.08 per 100 woman-years (95% CI 0.04–0.13).

Data from cohort studies reported ectopic pregnancy rates of 0–0.5 per 1000 woman-years among women using an IUC, compared with a rate of 3.25–5.25 per 1000 woman-years among women not using any contraception. A randomised controlled trial (RCT) reported a PI for the 13.5 mg LNG-IUS of 0.33 (95% CI 0.16–0.60) and a cumulative pregnancy rate of 0.9 per 100 women over a 3-year period.

While the absolute risk of ectopic pregnancy is not increased by use of IUC, should a pregnancy occur with an IUC in situ then the likelihood of it being ectopic is greater than if a pregnancy were to occur without an IUC in situ. An early prospective study from the UK reported that among 90 pregnancies in women using IUC, 8.9% were ectopic. In a cross-sectional study of LNG-IUS users (17,360 users, totalling 58,600 woman-years) there were 64 pregnancies reported with a 52 mg LNG-IUS in situ. The risk of pregnancy was therefore low (5-year cumulative pregnancy rate of 0.5 per 100 users). However, of the 64 pregnancies, approximately half (53%) were ectopic. In the EURAS-IUD study, 52 mg LNG-IUS users appeared to experience fewer ectopic pregnancies than Cu-IUD users, but when pregnancy did occur, 5/13 (38.6%) were ectopic compared with 10/56 (17.9%) in Cu-IUD users.
Women should be informed that if pregnancy occurs after tubal occlusion, there is an increased risk of ectopic pregnancy and therefore the location of the pregnancy should be confirmed by ultrasound as soon as possible.

Pregnancies after female sterilisation are uncommon, but when they do occur there is an increased risk that the pregnancy will occur outside of the uterine cavity. The incidence of ectopic pregnancy after sterilisation varies depending on the method used to occlude the fallopian tubes.\(^{110,229-231}\)

The US Collaborative Review of Sterilization (CREST) study,\(^{111,232}\) which followed 10,685 sterilised women for up to 14 years after their tubal ligation, estimated the 10-year cumulative probability of ectopic pregnancy as 7.3 per 1000 procedures (95% CI 5.0–9.6). The study also reported a 10-year cumulative probability of ectopic pregnancy of 17.1 per 1000 procedures (95% CI 9.8–24.4) and 7.3 per 1000 procedures (95% CI 1.6–12.9) for bipolar diathermy and spring-loaded clip, respectively. A more recent cohort study\(^{233}\) with a population of 44,829 women estimated the 10-year cumulative probability as 2.4 per 1000 procedures (95% CI 1.9–3.0).

4.4 Useful links and support group: Contraception after ectopic pregnancy or miscarriage

- NHS Choices: Contraception guide
- NHS Choices: Ectopic pregnancy
- NHS Choices: Miscarriage
- The Family Planning Association (FPA)
- The Ectopic Pregnancy Trust
- Ectopic Pregnancy Foundation
- Miscarriage Association
5. Contraception After Gestational Trophoblastic Disease (GTD)

5.1 Discussion and provision of contraception after GTD
For clinical guidance relating to the presentation, management, treatment and follow-up of gestational trophoblastic disease (GTD) including gestational trophoblastic neoplasia (GTN) please refer to the RCOG Green-top guideline *The Management of Gestational Trophoblastic Disease.*

After surgical evacuation of complete hydatidiform mole, approximately 15–20% of women go on to develop GTN requiring chemotherapy. The risk after partial molar pregnancy is much lower, at around 0.5–1%. If human chorionic gonadotrophin (hCG) levels spontaneously revert to normal after uterine evacuation, the risk of post-molar GTN has been reported as only 0.4%.

5.1.1 When should contraception be discussed/provided?

- Services that provide care to women who have/had gestational trophoblastic disease (GTD) should give them opportunities to discuss their fertility intentions, contraception and preconception planning.

- Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.

Clinicians involved in the care of women who have/had GTD should give these women the opportunity to discuss their fertility intentions, use of contraception and preconception planning as part of their ongoing care. Whenever contraceptive counselling is provided, care should be taken to ensure women do not feel under pressure to choose a method of contraception.

Women should be advised to avoid subsequent pregnancy until GTD monitoring is complete. Effective contraception should be started as soon as possible as sexual activity and fertility may resume very soon after GTD.

Women with GTD should be advised to avoid subsequent pregnancy until GTD monitoring is complete (see Section 5.1.3).

If a woman wishes to delay or prevent a further pregnancy, effective contraception should be initiated as soon as possible given that ovulation can resume rapidly after treatment for GTD. A case series of 52 women with complete hydatidiform mole and 15 women with partial hydatidiform mole reported that by 6 weeks after surgical evacuation, 18% of women had had their first ovulatory cycle and 40% of women ovulated when serum hCG was still above 10 IU/l. There has also been a case report of a pregnancy prior to hCG returning to baseline levels.
Women should be informed about the effectiveness of the different contraceptive methods, including the superior effectiveness of long-acting reversible contraception (LARC), when choosing an appropriate method to use after GTD.

See Section 1.4.3

Click here to access a table which compares the percentage of women experiencing an unintended pregnancy during the first year of contraceptive use when the method is used ‘typically’ (which includes both incorrect and inconsistent use) or ‘perfectly’ (correct and consistent use).

Clinicians should adopt a person-centred approach when providing women with contraceptive counselling.

Clinicians who are giving advice to women about contraception after GTD should ensure that this information is timely, up-to-date and accurate.

Comprehensive, unbiased and accurate information on contraceptive methods after GTD should be made available in different languages and in a range of formats including audio-visual.

See Section 1.4.4

5.1.2 Are fertility and pregnancy outcomes affected after GTD?

Clinicians should reassure women with GTD that fertility and pregnancy outcomes are favourable after GTD, including after chemotherapy for gestational trophoblastic neoplasia (GTN). However, there is an increased risk of GTD in subsequent pregnancy.

Fertility rates after hydatidiform mole have been reported to be equivalent to those of the general population. Risk of GTD in subsequent pregnancy is about 1–2%. There has been concern that fertility levels may be reduced after chemotherapy for GTN, particularly multi-agent chemotherapy. However, evidence from case series suggests that pregnancy outcomes are favourable when compared to the general population, even in women who conceive within 12 months of treatment.

5.1.3 How long should a woman wait after GTD before trying to conceive?

After complete molar pregnancy, women should be advised to avoid subsequent pregnancy for at least 6 months to allow human chorionic gonadotrophin (hCG) monitoring for ongoing GTD.
After partial molar pregnancy, women should be advised to avoid pregnancy until two consecutive monthly hCG levels are normal.

Women who have had chemotherapy for GTD should be advised to avoid pregnancy for 1 year after treatment is complete.

After molar pregnancy, hCG levels are monitored so that persistent GTD can be identified and treated. It is recommended that women avoid becoming pregnant during the period of hCG monitoring because it is not possible to distinguish between a hCG level that is rising because of a new pregnancy and that associated with persistent GTD. The first hCG measurement is made 4 weeks after uterine evacuation.

The period of hCG monitoring after evacuation of complete hydatidiform mole is 6 months from the first normal hCG level (or 6 months from evacuation of the uterus if the hCG level normalises by 8 weeks after evacuation). Because the risk of persistent GTD after partial molar pregnancy is much lower, follow-up continues only until two consecutive monthly hCG levels are normal; the monitoring period may therefore may be as short as 8 weeks.¹⁶,¹⁷,²⁴⁸

After chemotherapy for GTN, women are advised to avoid pregnancy for at least 1 year.¹⁶,²⁴⁸ Low-risk GTN [based on its International Federation of Gynecology and Obstetrics (FIGO) score]²³⁴,²⁴⁹ is treated with single-agent chemotherapy; methotrexate is first line. Women with high-risk GTN receive multi-agent chemotherapy.

### 5.1.4 Who should provide contraception to women after GTD?

- Services involved in the care of women with GTD should be able to offer all methods of contraception, including LARC, to women before they are discharged from the service.
- Services should ensure that there are sufficient numbers of staff able to provide progestogen-only implant (IMP) so that women who choose this method and are medically eligible can initiate the method immediately after treatment.
- Women who are unable to be provided with their chosen method of contraception should be informed about services where their chosen method can be accessed. A temporary (bridging) method should be offered until the chosen method can be initiated.

See Section 1.4.5
Services should have agreed pathways of care to local specialist contraceptive services [e.g. community sexual and reproductive health (SRH) services] for women with complex medical conditions or needs which may require specialist contraceptive advice.

Services should have agreed pathways of care to local services for women who may require additional non-medical care and support.

See Section 1.4.8

5.1.5 Record keeping and obtaining valid consent

Clinicians should clearly document the discussion and provision of contraception. Valid consent must be obtained before providing women with their chosen method of contraception.

See Section 1.4.7

5.2 Medical eligibility

5.2.1 Which contraceptive methods are safe to use after GTD?

Women should be advised that most methods of contraception can be safely used after treatment for GTD and can be started immediately after uterine evacuation, with the exception of intrauterine contraception (IUC).

IUC should not be inserted in women with persistently elevated hCG levels or malignant disease.

IUC should not normally be inserted until hCG levels have normalised but may be considered on specialist advice with insertion in a specialist setting for women with decreasing hCG levels following discussion with a GTD centre.

The current UK Medical Eligibility Criteria (UKMEC)\textsuperscript{18} which apply to women who have GTD is presented in Table 11.

The UKMEC\textsuperscript{18} advises that women who have/had GTD can safely use progestogen-only contraception including progestogen-only implant (IMP), progestogen-only injectable (POI) and progestogen-only pill (POP). Combined hormonal contraception (CHC) [combined oral contraception (COC), combined transdermal patch (patch) and combined vaginal ring (CVR)] and diaphragms can also be safely used. These methods can be initiated on the same day as uterine evacuation for GTD.

Use of intrauterine contraception (IUC) by women who have/had GTD is dependent on the hCG level or the presence of malignant disease. See Section 5.3.1.
Table 11: Summary of UK Medical Eligibility Criteria for Contraceptive Use (UKMEC) categories for women who have/had gestational trophoblastic disease

<table>
<thead>
<tr>
<th>Gestational trophoblastic disease (GTD)</th>
<th>Cu-IUD</th>
<th>LNG-IUS</th>
<th>IMP</th>
<th>DMPA</th>
<th>POP</th>
<th>CHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Undetectable hCG levels</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>b) Decreasing hCG levels</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>c) Persistently elevated hCG levels or malignant disease</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

CHC, combined hormonal contraception; Cu-IUD, copper intrauterine device; DMPA, depot medroxyprogesterone acetate (progestogen-only injectable); hCG, human chorionic gonadotropin; IMP, progestogen-only implant; LNG-IUS, levonorgestrel-releasing intrauterine system; POP, progestogen-only pill.

Definition of the UKMEC categories can be found here.

5.2.2 Is emergency contraception (EC) safe to use after GTD?

- **✓** Emergency contraception (EC) is indicated if unprotected sexual intercourse (UPSI) takes place from 5 days after treatment for GTD.

- **D** Women should be advised that use of oral EC is safe after treatment for GTD. Insertion of copper intrauterine device (Cu-IUD) for EC may be considered in a specialist setting for women with decreasing hCG levels following discussion with a GTD centre.

The guideline development group (GDG) recommends that emergency contraception (EC) is indicated for a woman who has had unprotected sexual intercourse (UPSI) from 5 days after treatment for GTD as ovulation can resume very quickly.

Oral EC levonorgestrel 1.5 mg (LNG-EC) or ulipristal acetate 30 mg (UPA-EC) are safe to use after GTD. Use of copper intrauterine device (Cu-IUD) for EC may be considered in a specialist setting for women with decreasing hCG levels (UKMEC 3). Particular care should be taken when inserting a Cu-IUD given the concerns about the risk of perforation in the presence of GTD. A Cu-IUD is the most effective form of EC. The pregnancy rate after Cu-IUD for EC is about 1 in 1000. Use of a Cu-IUD for EC carries the same contraindications as use for regular contraception.

5.2.3 Is additional contraception required after initiation of a method after GTD?

- **✓** Women should be advised that additional contraceptive precautions (e.g. barrier methods/abstinence) are required if hormonal contraception is started 5 days or more after treatment for GTD. Additional contraceptive precaution is not required if contraception is initiated immediately or within 5 days of treatment for GTD.

The GDG recommends that provided the woman is medically eligible to use the method, no additional contraception is necessary if any method is initiated immediately or within 5 days of treatment for GTD. However, if hormonal contraception is started 5 days or more after treatment for GTD, the woman is at risk of another pregnancy and thus additional contraceptive precautions (e.g. barrier methods/abstinence) are required (see Table 12).
Table 12: Requirements for abstinence or additional contraception when method of contraception (for which the woman is medically eligible to use) is initiated after treatment for gestational trophoblastic disease (GTD)

<table>
<thead>
<tr>
<th>Methods of contraception the woman is medically eligible to use</th>
<th>Initiation &lt;5 days after treatment for GTD</th>
<th>Initiation ≥5 days after treatment for GTD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of days of additional contraceptive precautions required (days)</td>
<td></td>
</tr>
<tr>
<td>Copper intrauterine device (Cu-IUD)</td>
<td>Cu-IUD should not be inserted in women with persistently elevated human chorionic gonadotrophin (hCG) levels or malignant disease. Insertion of Cu-IUD may be considered in a specialist setting for women with decreasing hCG levels following discussion with a GTD centre.</td>
<td>None</td>
</tr>
<tr>
<td>Levonorgestrel-releasing intrauterine system (LNG-IUS)</td>
<td>LNG-IUS should not be inserted in women with persistently elevated hCG levels or malignant disease. Insertion of LNG-IUS may be considered in a specialist setting for women with decreasing hCG levels following discussion with a GTD centre.</td>
<td>None</td>
</tr>
<tr>
<td>Progestogen-only pill (traditional/desogestrel)</td>
<td>None**</td>
<td>2</td>
</tr>
<tr>
<td>Progestogen-only implant or injectable</td>
<td></td>
<td>7*</td>
</tr>
<tr>
<td>Combined hormonal contraception</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Except Qlaira® which requires 9 days of additional contraceptive precautions.
**Except estradiol-containing combined oral contraceptives which require additional precautions if started after Day 1

5.3 Method-specific considerations

5.3.1 Intrauterine contraception (IUC)

IUC should not normally be inserted until hCG levels have normalised after GTD. Insertion of Cu-IUD as EC may be considered in a specialist setting for women with decreasing hCG levels following discussion with a GTD centre.

Current guidelines\(^1\) based on UK expert opinion recommend that IUC should not be inserted after GTD until hCG levels are normal because of a theoretical increased risk of uterine perforation and dissemination of the tumour by the insertion of the IUC. There are no reported data on the risk of uterine perforation with IUC insertion at the time of evacuation in women with GTD.

Studies that do exist include small numbers of Cu-IUD users, some inserted at the time of uterine evacuation\(^250,251\) and others after normalisation of hCG levels or at unknown times,\(^252,253\) but no mention is made of complications. The very limited evidence demonstrates no significant difference in the time to hCG regression or development of post-molar GTD among Cu-IUD users, users of other types of contraception and users of no contraceptive method.\(^250–253\) No studies consider use of...
Can women with suspected GTD use IUC?

- **IUC insertion at surgical evacuation where GTD is suspected but not confirmed should be made on an individual case basis based upon the individual woman’s risk for GTD, clinical findings and her preference for IUC insertion at this time.**

Neither UKMEC\(^1\) nor WHOMECE\(^7\) makes recommendations as to whether a woman with suspected GTD can have IUC inserted at the time of surgical evacuation. Theoretical concerns are that IUC placement at surgical evacuation may be associated with a higher risk of uterine perforation and/or excessive bleeding if GTD is indeed present.

In the absence of evidence for safety, the GDG considers that IUC insertion at surgical evacuation where GTD is suspected but not confirmed should be made on an individual case basis based upon clinical findings and the woman's preference for IUC insertion at this time.

### 5.3.2 Hormonal contraception

**Hormonal contraception can be started immediately after uterine evacuation for GTD.**

In the 1970s, a retrospective cohort study\(^{254}\) reported that hCG levels reverted to normal more slowly and that there was a significantly increased risk of requiring chemotherapy for treatment of post-molar trophoblastic disease if COC was commenced while hCG levels remained elevated after evacuation of hydatidiform mole. On the basis of these data, it was recommended that hormonal contraception should be avoided until hCG levels returned to normal.\(^{16}\)

Two systematic reviews\(^{255,256}\) concluded that there was no clear evidence of an effect of oral contraceptives (OC) used during the follow-up of GTD on the development of post-molar trophoblastic disease (most studies included considered COC). The only randomised controlled trial (RCT)\(^{239}\) to address this issue commenced 108 women on COC and 108 on barrier contraception within 3 weeks of evacuation of complete hydatidiform mole. No significant difference in time to hCG regression or risk of post-molar trophoblastic disease was observed between the two groups. Prognostic factors for post-molar trophoblastic disease were not significantly different between the two groups; however, this study had significant loss to follow-up.

Seven observational studies\(^{237,250,251,253,257–259}\) considered the effect of hormonal contraception started while hCG remained elevated on the time to hCG regression and risk of post-molar trophoblastic disease. Controls used non-hormonal contraception or no contraception. Five of the studies specifically considered COC,\(^{250,251,253,257,258}\) one ‘oral contraception’\(^{259}\) and one ‘hormonal contraception’.\(^{237}\) None of these studies demonstrated a statistically significant difference in the time to hCG regression or a statistically significant increase in risk of post-molar GTD. One cohort study\(^{250}\) of 299 women post-molar evacuation reported a significantly reduced risk of GTN with use of COC started within 2 weeks of evacuation.
There are significant methodological limitations across all of these studies: samples were not randomised, numbers were small, different confounding factors were considered by different authors, and criteria for diagnosis of GTN were not consistent.

Three studies\(^{237,251,258}\) included small numbers of women using depot medroxyprogesterone acetate (DMPA) and one included 43 users of the POP.\(^ {237}\) Numbers were too small to detect differences in GTD outcomes between methods. The limited evidence found no effect of the use of DMPA on the course of GTD.

One RCT\(^ {252}\) comparing COC started once hCG levels had normalised after molar evacuation with the use of the Cu-IUD found no significant difference in risk of development of GTN.

### 5.3.3 Female sterilisation

**D**  
Female sterilisation is a safe option for permanent contraception after GTD.

- Women should be advised that some LARC methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits. However, women should not feel pressured into choosing LARC over female sterilisation.

Few medical conditions would absolutely restrict an individual’s eligibility for female sterilisation. Specific precautions may apply in certain circumstances. These precautions are highlighted in the FSRH clinical guideline on Male and Female Sterilisation\(^ {110}\) and the WHOMEC.\(^ {107}\) All methods of contraception, including vasectomy (if appropriate), should be discussed with women requesting female sterilisation. Women should be made aware that some LARC methods are as, or more, effective than female sterilisation and may confer non-contraceptive benefits. However, it is important than women do not feel pressured into choosing LARC over female sterilisation.

**D**  
Tubal occlusion should ideally be performed after some time has elapsed after surgical evacuation for GTD. Women who request tubal occlusion to be performed at the time of surgical treatment should be advised of the possible increased failure rate and risk of regret.

There is no evidence on sterilisation at the time of surgical evacuation for GTD. Extrapolating evidence from sterilisation at the time of caesarean section, the GDG recommends that tubal occlusion at the time of treatment for GTD may not be appropriate given the possibility of regret associated with concomitance of both procedures. WHOMEC\(^ {107}\) recommends that women with persistently elevated hCG levels or malignant disease should delay being sterilised.
Removal of the fallopian tubes and ovarian cancer

There is epidemiological evidence suggesting bilateral salpingectomy may protect against developing high-grade serous ovarian cancer. It is postulated that this may be because some epithelial cancers may originate in tubal epithelium. The RCOG advises that women should be carefully counselled for removal of fallopian tubes, if their family is complete and they are undergoing pelvic surgery. This may be also relevant to women being sterilised after GTD.

5.3.4 Barrier methods

Condoms (male and female) can be used by women after treatment for GTD.

Women who choose a diaphragm should be advised to wait at least 6 weeks after treatment for GTD because the required size of diaphragm may change as the uterus returns to normal size.

Condoms (male and female) can be used without restriction at any time by women who have had GTD. However, given their high failure rates (percentage of women experiencing an unintended pregnancy within the first year of use) with typical use, they are considered one of the least effective methods.

The GDG recommends that since the size of diaphragm may change as the uterus involutes, women choosing this method should be advised to wait until 6 weeks after treatment for GTD before diaphragm fitting. A different size diaphragm may be required for women who have used this method previously. Another method of contraception should be used until the woman is able to insert and remove a correctly fitted diaphragm.

5.3.5 Fertility awareness methods (FAM)

Fertility awareness methods (FAM) can be used by women after treatment for GTD. However, women should be advised that because FAM relies on the detection of the signs and symptoms of fertility and ovulation, its use may be difficult after treatment for GTD.

Women should be advised that fertility awareness methods (FAM) should be used carefully in order to ensure maximum effectiveness. The effectiveness of FAM can be improved when a combination of indicators are used and are taught by trained FAM practitioners. High failure rates are associated with typical use. Refer to FSRH guideline Fertility Awareness Methods for further guidance.

Shortly after treatment for GTD, signs of fertility may be disrupted and extreme caution is required. Any calendar-based method should not be relied upon until one menstrual period has occurred.
5.4 Specific issues

5.4.1 Is there any method associated with a risk of GTD in subsequent pregnancies?

Clinicians should inform women that there is no evidence that the use of any contraceptive method after an episode of GTD increases the risk of GTD in a subsequent pregnancy.

The population risk of molar pregnancy is 0.1–0.2%.\textsuperscript{242} It is more common in women under the age of 18 years and over the age of 45 years and varies according to ethnic group.\textsuperscript{235} After one molar pregnancy, the risk of a repeat episode is about 1–2%.\textsuperscript{235,240,241}

**Oral contraceptives (OC)**

Studies have not assessed the effect of contraception used after GTD on the risk of GTD in subsequent pregnancies. The use of COC at some time prior to the index pregnancy, however, has been considered as an epidemiological risk factor for GTD in the general population.

All relevant studies\textsuperscript{260–269} were retrospective case-control, many involved small numbers of cases, and in most the numbers of cases exposed to OC were very small. Furthermore, the type of OC used was not specified in these studies. The evidence was also limited by women retrospectively reporting their prior contraceptive use and by potential confounding factors. Overall, there is no significant evidence that use of any contraceptive method increases the risk of GTD in a subsequent pregnancy.

**Copper intrauterine device (Cu-IUD)**

A systematic review\textsuperscript{268} which included very limited evidence from three case-control studies\textsuperscript{260,262,269} suggested that GTD is not more common among previous users of Cu-IUD. The risk of GTD after use of contraceptive methods other than COC and a Cu-IUD is not reported in the literature.

5.5 Useful links and support group: Contraception after gestational trophoblastic disease

- [NHS Choices: Contraception guide](#)
- [The Family Planning Association (FPA)](#)
- [Cancer Research UK: About gestational trophoblastic tumours](#)
- [Hydatidiform Mole and Choriocarcinoma UK Information and Support Service](#)
Recommendations for Future Research

Overall, studies of higher quality are needed to inform clinical recommendations. Specific areas of research for each pregnancy outcome are suggested below.

**Contraception after childbirth**
- Acceptability and feasibility of antenatal contraceptive counselling delivered by community midwives in a UK National Health Service (NHS) maternity setting.
- Acceptability and feasibility of midwives and health advisors as providers of contraception after childbirth.
- Acceptability and feasibility of postplacental intrauterine contraception (IUC) in the UK NHS maternity setting.
- Effect of 30 mg ulipristal acetate for emergency contraception (UPA-EC) on breastfeeding.

**Contraception after abortion**
- Acceptability and feasibility of quick starting (same day) IUC after medical abortion (including mid-trimester).
- Effect of quick starting SC formulation of progestogen-only injectables (Sayana Press) at the time of giving mifepristone on outcome of early medical abortion (EMA).

**Contraception after ectopic pregnancy or miscarriage**
- Acceptability and feasibility and uptake of contraception delivered by early pregnancy units.
- Acceptability and feasibility of quick starting contraception at the time of medical management of ectopic pregnancy (using methotrexate).
- Acceptability and feasibility of quick starting contraception after medical or surgical management of miscarriage.

**Contraception after gestational trophoblastic disease**
- Safety, acceptability and feasibility of IUC at surgical evacuation.
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204 Centres for Disease Control and Prevention. US Medical Eligibility Criteria for Contraceptive Use. MMWR 2010;59:1–85.


Appendices

Appendix 1: FSRH Clinical Guideline Development Process

Who has developed the guideline?
This guideline is produced by the Clinical Effectiveness Unit (CEU) with support from the Clinical Effectiveness Committee (CEC) of the Faculty of Sexual & Reproductive Healthcare (FSRH). The FSRH is a registered charitable organisation which funds the development of its own clinical guidelines. NHS Lothian is contracted to host the CEU in the Chalmers Centre and to provide the CEU's services using ring-fenced funding from the FSRH. No other external funding is received. Chalmers Centre supports the CEU in terms of accommodation, facilities, education, training and clinical advice for the members’ enquiry service. As an organisation, NHS Lothian has no editorial influence over CEU guidelines, although staff members may be invited to join the CEU's multidisciplinary guideline development groups (GDG), in an individual professional capacity.

Development of the guideline was led by the secretariat (CEU staff) and involved the intended users of the guidelines (contraception providers) and patient/service user representatives as part of a multidisciplinary group. The scope of the guideline was informed by a scoping survey conducted amongst members of the FSRH and the Royal College of Obstetricians and Gynaecologists (RCOG) and amongst service users from three sexual and reproductive health services across the UK (Cardiff, Wales; London, England and Edinburgh, Scotland).

The first draft of the guideline was produced based on the final scope of the guideline agreed by the GDG. The first draft of the guideline (Version 0.1) was reviewed by the GDG and discussed at a face-to-face meeting held at the CEU (Edinburgh, Scotland) on 3 December 2015. A revised draft guideline (Version 0.2) was produced in response to comments received at the meeting. The draft guideline was revised again after further comments from the GDG, after which the draft guideline (Version 0.3) was sent to international and UK-based external independent reviewers suggested by the GDG at the face-to-face meeting. A further revision to the draft guideline was made to produce draft guideline (Version 0.4) which was put on the FSRH website for public consultation between 21 September and 19 October 2016. The revised draft guideline (Version 0.5) was sent to the GDG for final comments and to reach consensus on the recommendations (details of this process are given later). The final version of this guideline was approved by the CEC of the FSRH on 16 January 2017.
Below is the list of contributors involved in the development of this clinical guideline.

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None of the members of the GDG had competing interests that prevented their active participation in the development of this guideline.
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None of the independent reviewers had competing interests that prevented their active participation in the development of this guideline.

Acknowledgements

We would like to thank Dr Gillian Smith (RCM Director for Scotland) and Professor Michael Seckl (Imperial College London) for their expert advice. We would also like to thank the contributors who provided their valuable feedback during the public consultation. None of the individuals had indicated competing interests.

Guideline development methodology

This FSRH guideline was developed in accordance with the standard methodology for developing FSRH clinical guidelines (outlined in the FSRH’s Framework for Clinical Guideline Development which can be accessed here). The methodology used in the development of this guideline has been accredited by the National Institute for Health and Care Excellence (NICE).

Systematic review of evidence

A systematic review of the literature was conducted to identify evidence to answer the clinical questions formulated and agreed by the GDG. Searches were performed using relevant medical subject headings and free-text terms using the following databases: PubMed, EMBASE, Cochrane Central Register of Controlled Trials, Cochrane Database of Systematic Reviews, the Cumulative Index to Nursing and Allied Health Literature (CINAHL) and POPLINE®. Further, the National Guideline Clearinghouse (NGC) and Scottish Intercollegiate Guideline Network (SIGN) were also
used to identify relevant guidelines produced by other organisations; these guidelines were checked to identify missing evidence. No language restrictions were applied to the searches.

**Search dates:** The databases were initially searched up to 5 October 2015. The evidence identified up to this point was used to develop the first draft of the guideline. Searches were rerun at the end of the guideline development process to identify new evidence that were published between 5 October 2016 and 18 November 2016. Any evidence published after this date was not considered for inclusion.

**Search strategy:** The literature search was performed separately for each of the four pregnancy outcomes covered in this clinical guideline using the search strategy “Contraception” AND “Pregnancy outcome”; the search terms used are listed below.

- **Contraception**  
  (contracept* OR contraception OR contraceptive) OR (intra-uterine device OR IUD OR IUCD OR intrauterine system OR intrauterine system OR IUS) OR (nexplanon OR implanton OR norplant OR uniplant OR “sino implant” OR “sino-implant”) OR (depot medroxyprogesterone OR depo provera) OR (“combined pill” OR “combined hormonal” OR “combined contraceptive”) OR (“progestogen-only” OR “progestogen only” OR “progestin only”) OR (Mirena OR Jaydess OR Jadelle)

- **Childbirth**  
  (Postpartum period [MeSH] OR “post parturition” OR “post partum” OR “post pregnancy”)

- **Abortion**  
  (abortion OR “termination of pregnancy” OR “abortion” OR “post-abortion” OR “post abortion” OR “postabortion” OR “postabortin care”)

- **Ectopic pregnancy or miscarriage**  
  (ectopic pregnancy [MeSH] OR “ectopic pregnancy”) OR (miscarriage OR miscarriage* OR “abortion, spontaneous”[MeSH terms])

- **Gestational trophoblastic Disease**  

Articles identify from the search were screened by title and abstract and full-text copies were obtained if the articles addressed the clinical questions relevant to the guideline. A full critical appraisal of each article was conducted. Studies that did not report relevant outcomes or were not relevant to the clinical questions were excluded. Summary tables of evidence are available upon request.

**Synthesis of evidence and making clinical recommendation**

The recommendations are graded (A, B, C, D and Good Practice Point) according to the level of evidence upon which they are based. The highest level of evidence that may be available depends on the type of clinical question asked. The CEU adopts the comprehensive methodology developed by the Grading of Recommendations, Assessment, Development and Evaluation (GRADE) working group to assess the strength of the evidence collated and for generating recommendations from evidence.
The evidence used in this guideline was graded using the scheme below and the recommendations formulated in a similar fashion with a standardised grading scheme.

<table>
<thead>
<tr>
<th>Classification of evidence levels</th>
<th>Grades of recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1++</strong> High quality systematic reviews or meta-analysis of randomised controlled trials (RCTs) or RCTs with a very low risk of bias.</td>
<td><strong>A</strong> At least one systematic review, meta-analysis or RCT rated as 1++, and directly applicable to the target population; or A systematic review of RCTs or a body of evidence consisting principally of studies rated as 1+, directly applicable to the target population and demonstrating overall consistency of results.</td>
</tr>
<tr>
<td><strong>1+</strong> Well conducted systematic reviews or meta-analysis of RCTs or RCTs with a low risk of bias.</td>
<td><strong>B</strong> A body of evidence including studies rated as 2++ directly applicable to the target population and demonstrating overall consistency of results; or Extrapolated evidence from studies rated as 1++ or 1+.</td>
</tr>
<tr>
<td><strong>1-</strong> Systematic reviews or meta-analysis of RCTs or RCTs with a high risk of bias.</td>
<td><strong>C</strong> A body of evidence including studies rated as 2+ directly applicable to the target population and demonstrating overall consistency of results; or Extrapolated evidence from studies rated as 2++.</td>
</tr>
<tr>
<td><strong>2++</strong> High-quality systematic reviews of case-control or cohort studies or high-quality case-control or cohort studies with a very low risk of confounding, bias or chance and a high probability that the relationship is causal.</td>
<td><strong>D</strong> Evidence level 3 or 4; or Extrapolated evidence from studies rated as 2+.</td>
</tr>
<tr>
<td><strong>2+</strong> Well-conducted case-control or cohort studies with a low risk of confounding, bias or chance and a moderate probability that the relationship is causal.</td>
<td>Good Practice Points based on the clinical experience of the guideline development group.*</td>
</tr>
<tr>
<td><strong>2-</strong> Case-control or cohort studies with a high risk of confounding, bias or chance and a significant risk that the relationship is not causal.</td>
<td></td>
</tr>
<tr>
<td><strong>3</strong> Non-analytical studies (e.g. case report, case series).</td>
<td></td>
</tr>
<tr>
<td><strong>4</strong> Expert opinions.</td>
<td></td>
</tr>
</tbody>
</table>

*On the occasion when the guideline development group find there is an important practical point that they wish to emphasise but for which there is not, nor is there likely to be, any research evidence. This will typically be where some aspect of treatment is regarded as such sound clinical practice that nobody is likely to question it. It must be emphasised that these are NOT an alternative to evidence-based recommendations, and should only be used where there is no alternative means of highlighting the issue.*
Considerations when making recommendations
FSRH clinical guidelines are produced primarily to recommend safe and appropriate clinical practice in relation to the provision of different contraceptive methods. Therefore, when formulating the recommendations, the GDG takes into consideration the health benefits, side effects and other risks associated with implementing the recommendations, based on the available evidence and expert opinion. Further, the GDG takes into consideration the different financial and organisational barriers that clinicians and services may face in the implementation of recommendations to ensure that the recommendations are realistic and achievable.

Reaching consensus on the recommendations
When further revisions based on public consultation feedback have been made, members of the GDG were asked to complete a form to indicate whether they agree or disagree with the recommendations proposed. The consensus process is as follows:

- Consensus will be reached when 80% of the GDG members agree with the recommendation.
- Recommendations where consensus is not reached will be redrafted in light of any feedback.
- The recommendation consensus form will be sent again for all recommendations. Consensus will be reached when 80% of the GDG members agree with the recommendation.
- If consensus is not reached on certain recommendations these will be redrafted once more.
- If after one more round of consultation, consensus is still not reached, the recommendation will be taken to the CEC for final decision.
- Any group member who is not content with the decision can choose to have their disagreement noted within the guideline.

Updating this guideline
Clinical guidelines are routinely due for update 5 years after publication. The decision as to whether update of a guideline is required will be based on the availability of new evidence published since its publication. Updates may also be triggered by the emergence of evidence expected to have an important impact on the recommendations. The final decision on whether to carry out a full or partial clinical guideline update is taken by the CEU in consultation with the CEC.
## Appendix 2: Clinical Guidelines, Systematic Reviews and Meta-analyses Included in this Guideline

### Clinical guideline

The following clinical guidelines were identified and used to inform the recommendations made in this guideline.

<table>
<thead>
<tr>
<th>Title of publication</th>
<th>Year</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>After childbirth (postpartum)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postpartum Family Planning (Best Practice Paper No. 1)</td>
<td>2015</td>
<td>Royal College of Obstetricians and Gynaecologists (RCOG)</td>
</tr>
<tr>
<td>Postnatal Care up to 8 Weeks After Birth</td>
<td>2015</td>
<td>National Institute for Health and Care Excellence (NICE)</td>
</tr>
<tr>
<td>Postnatal Sexual and Reproductive Health</td>
<td>2009</td>
<td>Faculty of Sexual &amp; Reproductive Healthcare (FSRH)</td>
</tr>
<tr>
<td><strong>After abortion</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Worker Roles in Providing Safe Abortion Care and Post-Abortion Contraception</td>
<td>2015</td>
<td>World Health Organization (WHO)</td>
</tr>
<tr>
<td>The Care of Women Requesting Induced Abortion (Evidence-based Guideline No. 7)</td>
<td>2011</td>
<td>RCOG</td>
</tr>
<tr>
<td><strong>After ectopic pregnancy or miscarriage</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ectopic Pregnancy and Miscarriage</td>
<td>2012</td>
<td>NICE</td>
</tr>
<tr>
<td>Diagnosis and Management of Ectopic Pregnancy (Green-top Guideline No. 21)</td>
<td>2016</td>
<td>RCOG (joint with the Association of Early Pregnancy Units)</td>
</tr>
<tr>
<td><strong>After gestational trophoblastic disease (GTD)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Formalised consensus of the European Organisation for Treatment of Trophoblastic Diseases on management of gestational trophoblastic diseases</td>
<td>2015</td>
<td>European Organisation for Treatment of Trophoblastic Disease (EOTTD)</td>
</tr>
<tr>
<td>Published in <em>Eur J Cancer</em> 2015;**51:**1725–1731</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trophoblastic disease review for diagnosis and management: a joint report from the International Society for the Study of Trophoblastic Disease, European Organisation for the Treatment of Trophoblastic Disease, and the Gynecologic Cancer InterGroup</td>
<td>2014</td>
<td>International Society for the Study of Trophoblastic Disease (ISSTD); EOTTD; Gynecologic Cancer InterGroup (GCIG)</td>
</tr>
<tr>
<td>Published in <em>Int J Gynecol Cancer</em> 2014;**24:**S109–S116</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Management of Gestational Trophoblastic Disease (Green-top Guideline No. 38)</td>
<td>2010</td>
<td>RCOG</td>
</tr>
<tr>
<td>Gestational trophoblastic neoplasia, FIGO 2000 staging and classification.</td>
<td>2003</td>
<td>International Federation of Gynecology and Obstetrics (FIGO) Oncology Committee</td>
</tr>
<tr>
<td>Published in <em>Int J Gynaecol Obstet</em> 2003; <strong>83:</strong> Suppl. 1: 175–177</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Contraceptive method-specific

<table>
<thead>
<tr>
<th>Contraceptive method</th>
<th>Year</th>
<th>Author/Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK Medical Eligibility Criteria for Contraceptive Use 2016</td>
<td>2016</td>
<td>FSRH</td>
</tr>
<tr>
<td>WHO Medical Eligibility Criteria for Contraceptive Use (5th edition)</td>
<td>2015</td>
<td>WHO</td>
</tr>
<tr>
<td>US Medical Eligibility Criteria for Contraceptive Use (MMWR 2010)</td>
<td>2010</td>
<td>Centres for Disease Control and Prevention (CDC)</td>
</tr>
<tr>
<td>Intrauterine Contraception</td>
<td>2015</td>
<td>FSRH</td>
</tr>
<tr>
<td>Progestogen-only Implants</td>
<td>2014</td>
<td>FSRH</td>
</tr>
<tr>
<td>Progestogen-only Injectable Contraception</td>
<td>2014</td>
<td>FSRH</td>
</tr>
<tr>
<td>Progestogen-only Pills</td>
<td>2015</td>
<td>FSRH</td>
</tr>
<tr>
<td>Combined Hormonal Contraception</td>
<td>2011</td>
<td>FSRH</td>
</tr>
<tr>
<td>Emergency Contraception</td>
<td>2011</td>
<td>FSRH</td>
</tr>
<tr>
<td>Barrier Methods: Contraception and STI Prevention</td>
<td>2012</td>
<td>FSRH</td>
</tr>
<tr>
<td>Male and Female Sterilisation</td>
<td>2014</td>
<td>FSRH</td>
</tr>
<tr>
<td>Fertility Awareness Methods</td>
<td>2015</td>
<td>FSRH</td>
</tr>
<tr>
<td>Quick Starting Contraception</td>
<td>2010</td>
<td>FSRH</td>
</tr>
<tr>
<td>Long-acting Reversible Contraception (Update)</td>
<td>2014</td>
<td>NICE</td>
</tr>
</tbody>
</table>

Systematic review/ meta-analysis
The following systematic reviews and/or meta-analyses were identified and used to inform the recommendations made in this guideline. They are presented below based on the relevant pregnancy outcome sections to which they relate.

Contraception after childbirth (postpartum)

Breastfeeding


Contraception after abortion


Contraception after ectopic pregnancy or miscarriage


Contraception after gestational trophoblastic disease

## Resources

### Resource 1: Risk factors for venous thromboembolism in pregnancy and the puerperium

Table reproduced from Royal College of Obstetricians and Gynaecologists (RCOG) *Reducing the Risk of Venous Thromboembolism during Pregnancy and the Puerperium*.

<table>
<thead>
<tr>
<th>Pre-existing</th>
<th>Heritable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thrombophilia</td>
<td>Antithrombin deficiency</td>
</tr>
<tr>
<td></td>
<td>Protein C deficiency</td>
</tr>
<tr>
<td></td>
<td>Protein S deficiency</td>
</tr>
<tr>
<td></td>
<td>Factor V Leiden</td>
</tr>
<tr>
<td></td>
<td>Prothrombin gene mutation</td>
</tr>
<tr>
<td></td>
<td>Antiphospholipid antibodies</td>
</tr>
<tr>
<td></td>
<td>Persistent lupus anticoagulant and/or persistent moderate/high titre anticardiolipin antibodies and/or β2-glycoprotein I antibodies</td>
</tr>
</tbody>
</table>

| Medical comorbidities (e.g. cancer; heart failure; active systemic lupus erythematosus (SLE); inflammatory polyarthritis or inflammatory bowel disease (IBD); nephritic syndrome; type 1 diabetes mellitus with nephropathy; sickle cell disease; current intravenous drug user) |
| Medical comorbidities (e.g. cancer; heart failure; active systemic lupus erythematosus (SLE); inflammatory polyarthritis or inflammatory bowel disease (IBD); nephritic syndrome; type 1 diabetes mellitus with nephropathy; sickle cell disease; current intravenous drug user) |

<table>
<thead>
<tr>
<th>Obstetric risk factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple pregnancy</td>
</tr>
<tr>
<td>Current pre-eclampsia</td>
</tr>
<tr>
<td>Caesarean section</td>
</tr>
<tr>
<td>Prolonged labour (&gt;24 hours)</td>
</tr>
<tr>
<td>Mid-cavity or rotational operative delivery</td>
</tr>
<tr>
<td>Stillbirth</td>
</tr>
<tr>
<td>Preterm birth</td>
</tr>
<tr>
<td>Postpartum haemorrhage (&gt;1 litre/requireing transfusion)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New onset/transient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any surgical procedure in pregnancy or puerperium except immediate repair of the perineum (e.g. appendicetomy, postpartum sterilisation)</td>
</tr>
<tr>
<td>Bone fracture</td>
</tr>
<tr>
<td>Hyperemesis, dehydration</td>
</tr>
<tr>
<td>Ovarian hyperstimulation syndrome(first trimester only)</td>
</tr>
<tr>
<td>Assisted reproductive technology (ART), <em>in vitro</em> fertilisation (IVF)</td>
</tr>
<tr>
<td>Admission or immobility (≥3 days' bed rest)</td>
</tr>
<tr>
<td>E.g. pelvic girdle pain restricting mobility</td>
</tr>
<tr>
<td>Current systematic infection (requiring intravenous antibiotics or admission to hospital)</td>
</tr>
<tr>
<td>E.g. pneumonia, pyelonephritis, postpartum wound infection</td>
</tr>
<tr>
<td>Long distance travel (&gt;4 hours)</td>
</tr>
</tbody>
</table>
Resource 2: Criteria for diagnosis of antiphospholipid syndrome (APS)

A woman is diagnosed with antiphospholipid antibody syndrome (APS) if she fulfils at least one of the clinical criteria and one of the laboratory criteria listed below.

<table>
<thead>
<tr>
<th>Clinical criteria</th>
<th>Laboratory criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vascular thrombotic event (venous, arterial or small vessel)</strong></td>
<td><strong>Plasma lupus anticoagulant</strong> present on at least two occasions, at least 12 weeks apart.</td>
</tr>
<tr>
<td>At least one clinical episode in any tissue or organ confirmed by objective validated criteria.</td>
<td></td>
</tr>
<tr>
<td><strong>Pregnancy morbidity:</strong></td>
<td></td>
</tr>
<tr>
<td>This may be:</td>
<td><strong>Plasma or serum anticardiolipin antibody of IgG</strong> and/or <strong>IgM isotype</strong> present in medium or high titre [&gt;40 IgG phospholipid (GPL) units or IgM phospholipid (MPL) units, or &gt;99th percentile] on at least two occasions, at least 12 weeks apart.</td>
</tr>
<tr>
<td>▶ ≥1 unexplained death of a normal-appearance fetus at or beyond 10 weeks of gestation; or</td>
<td></td>
</tr>
<tr>
<td>▶ ≥1 preterm birth of a neonate of normal appearance before 34 weeks of gestation resulting from either eclampsia or severe pre-eclampsia or with signs of placental insufficiency; or</td>
<td></td>
</tr>
<tr>
<td>▶ ≥3 unexplained consecutive miscarriages before 10 weeks of gestation where anatomical, hormonal and chromosomal causes have been excluded.</td>
<td><strong>Plasma or serum anti-β2-glycoprotein I antibody of IgG</strong> and/or <strong>IgM isotype</strong> present (in titre &gt;99th percentile) on at least two occasions, at least 12 weeks apart.</td>
</tr>
</tbody>
</table>

For further information, please refer to the international consensus statement on an update of the classification criteria for definite APS.\(^\text{209}\)

Resource 3: Symptoms of an ectopic pregnancy

<table>
<thead>
<tr>
<th>Common symptoms</th>
<th>Other reported symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>▶ Amenorrhoea or missed period</td>
<td>▶ Breast tenderness</td>
</tr>
<tr>
<td>▶ Vaginal bleeding with or without clots</td>
<td>▶ Gastrointestinal symptoms</td>
</tr>
<tr>
<td>▶ Abdominal or pelvic pain</td>
<td>▶ Dizziness, fainting or syncope</td>
</tr>
<tr>
<td>▶ Vomiting and diarrhoea associated with pain</td>
<td>▶ Shoulder tip pain</td>
</tr>
<tr>
<td></td>
<td>▶ Urinary symptoms</td>
</tr>
<tr>
<td></td>
<td>▶ Passage of tissue</td>
</tr>
<tr>
<td></td>
<td>▶ Rectal pressure or pain on defecation</td>
</tr>
</tbody>
</table>
Questions for Continuing Professional Development

The following multiple choice questions (MCQ) have only one correct answer and have been developed for continuing professional development (CPD). The answers to the questions and information on claiming CPD points can be found in the ‘CPD Questions and Answers’ section of the FSRH website (www.fsrh.org), which is accessible to all Diplomates, Members, Associate Members and Fellows of the FSRH.

1. In the UK, an estimate of the number of pregnancies ending in abortion is:
   a. 1 in 3
   b. 1 in 4
   c. 1 in 5
   d. 1 in 6

2. In a UK survey, the number of women presenting for abortion within 1 year of a previous birth is:
   a. 1 in 10
   b. 1 in 13
   c. 1 in 15
   d. 1 in 18

3. To reduce the risk of preterm birth, low birthweight and small for gestational age, how long should a woman be advised to wait after delivery before conceiving again?
   a. 6 months
   b. 9 months
   c. 12 months
   d. 18 months

4. Which of the following contraceptive methods is not suitable for use immediately after childbirth?
   a. Subdermal implant
   b. Intrauterine system
   c. Combined oral contraceptive pill
   d. Progestogen-only pill

5. A woman is 8 weeks postpartum and exclusively breastfeeding. She is keen to restart her combined hormonal vaginal ring. Which is correct?
   a. She can only restart using the ring after 6 months postpartum
   b. She can start using her ring now
   c. The vaginal ring is unsuitable at 8 weeks postpartum due to the risk of infection
   d. She should not use the ring until after 4 months postpartum due to increased risk of venous thromboembolism
6. Emergency contraception is indicated for a woman who has had unprotected sexual intercourse after childbirth from:
   a. 7 days
   b. 14 days
   c. 21 days
   d. 28 days

7. Which statement is false?
   a. Intrauterine contraception can be inserted within 10 minutes of placental delivery
   b. Intrauterine contraception can be inserted within 48 hours of an uncomplicated caesarean section
   c. Intrauterine contraception cannot be inserted at the time of a caesarean section
   d. Intrauterine contraception should not be inserted between 48 hours and 4 weeks post-delivery

8. A woman has unprotected sexual intercourse 7 days after an abortion. Which of the following statements is false?
   a. All methods of emergency contraception are suitable
   b. An emergency intrauterine device cannot be considered
   c. If a subdermal implant is quick started with levonorgestrel emergency contraception, 7 days of additional contraception is needed
   d. If ulipristal acetate is given, a woman should wait 5 days before quick starting a hormonal method of contraception

9. Post-ectopic pregnancy, which statement is true?
   a. Women should be advised that intrauterine contraception is unsuitable
   b. Only anovulatory methods of contraception should be recommended
   c. If methotrexate is used, pregnancy should be avoided for at least 6 months post-treatment
   d. Contraception can be commenced on the day of methotrexate administration

10. With gestational trophoblastic disease (GTD), which statement is false?
    a. After complete hydatidiform mole, 15–20% women develop GTD needing chemotherapy
    b. After partial hydatidiform mole, 30–35% women develop GTD needing chemotherapy
    c. Intrauterine contraception is unsuitable while human chorionic gonadotropin is still detectable
    d. Combined hormonal contraception can be used if gestational trophoblastic neoplasia develops
### Auditable Outcomes

The following auditable outcomes have been suggested by the FSRH Clinical Standards Committee.

<table>
<thead>
<tr>
<th>Auditable outcome</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Postnatal contraception</strong></td>
<td></td>
</tr>
<tr>
<td>Percentage of postnatal women who are given information about, and offered a choice of, all appropriate contraceptive methods within 7 days of delivery.*</td>
<td>97%</td>
</tr>
<tr>
<td>Percentage of postnatal women who have chosen a LARC method who are offered a bridging method when immediate access to their chosen method is not possible.</td>
<td>97%</td>
</tr>
<tr>
<td>Percentage of postnatal women choosing LARC who are provided with their chosen method before discharge from hospital.</td>
<td>50%</td>
</tr>
<tr>
<td><strong>Abortion</strong></td>
<td></td>
</tr>
<tr>
<td>Percentage of women who request an abortion who discuss contraception with a healthcare practitioner and are offered a choice of all appropriate contraceptive methods before discharge.*</td>
<td>97%</td>
</tr>
<tr>
<td>Percentage of women having an abortion who receive their chosen method at the time of abortion.</td>
<td>97%</td>
</tr>
<tr>
<td><strong>Ectopic pregnancy or miscarriage</strong></td>
<td></td>
</tr>
<tr>
<td>Percentage of women with ectopic pregnancy or miscarriage who are given an opportunity to discuss their fertility intentions, contraception and preconceptual counselling by their provider.</td>
<td>97%</td>
</tr>
<tr>
<td>Percentage of women with ectopic pregnancy or miscarriage who wish to defer subsequent pregnancy who are given information about, and offered a choice of, all appropriate contraceptive methods within 7 days of treatment.</td>
<td>97%</td>
</tr>
<tr>
<td><strong>Gestational trophoblastic disease (GTD)</strong></td>
<td></td>
</tr>
<tr>
<td>Percentage of women having GTD who are advised to avoid subsequent pregnancy until GTD monitoring is complete.</td>
<td>97%</td>
</tr>
<tr>
<td>Percentage of women having GTD who are given information about, and offered a choice of, all appropriate contraceptive methods within 7 days of uterine evacuation.</td>
<td>97%</td>
</tr>
</tbody>
</table>

*Adapted from [NICE Contraception Quality Standards](https://www.nice.org.uk/guidance/qs66/).
Comments and Feedback on Published Guideline

All comments on this published guideline can be sent directly to the Clinical Effectiveness Unit (CEU) of the Faculty of Sexual & Reproductive Healthcare (FSRH) via the FSRH website www.fsrh.org.

The CEU may not respond individually to all feedback. However, the CEU will review all comments and provide an anonymised summary of comments and responses, which are reviewed by the Clinical Effectiveness Committee and any necessary amendments made subsequently.