

# Maternity, Obstetrics & Gynaecology Evidence Update June 2023

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**BMJ** Best Practice

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# NICE

National Institute for  
Health and Care Excellence

### Most recent guidance published or updated:

[Caesarean birth NG192](#)

[Early and locally advanced breast cancer: diagnosis and management NG101](#)

[Pembrolizumab with lenvatinib for previously treated advanced or recurrent endometrial cancer TA904](#)

## Other Guidance/Reports

[Abortion position statement](#)

RCM

[ISUOG Practice Guidelines \(updated\): fetal cardiac screening](#)

Ultrasound in Obstetrics & Gynecology

[Management of Impacted Fetal Head at Caesarean Birth \(Scientific Impact Paper No. 73\)](#)

RCOG

[Postpartum contraception: A matter of guidelines](#)

International Journal of Gynecology & Obstetrics

[Recurrent Miscarriage Green-top Guideline No. 17](#)

BJOG



**Cochrane**  
**Library**

Systematic Reviews and Research Protocols

[Antivirals for prevention of hepatitis B virus mother-to-child transmission in human immunodeficiency virus positive pregnant women co-infected with hepatitis B virus](#)

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Gonadotropin-releasing hormone analogues for endometriosis

Oral contraceptives containing drospirenone for premenstrual syndrome

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## Reviews from other sources

App-based interventions for the prevention of postpartum depression: a systematic review and meta-analysis

BMC Pregnancy and Childbirth

Comparison of vaginoscopic hysteroscopy and traditional hysteroscopy: A systematic review and meta-analysis

International Journal of Gynecology & Obstetrics

Effect of preoperative prophylactic intravenous tranexamic acid on perioperative blood loss control in patients undergoing cesarean delivery: a systematic review and meta-analysis

BMC Pregnancy and Childbirth

Effect of vitamin D supplementation on hormones and menstrual cycle regularization in polycystic ovary syndrome women: A systemic review and meta-analysis

Journal of Obstetrics and Gynaecology Research

Effects of Ramadan fasting on fetal health: A systematic review

ANZOG

Endometriosis and physical activity: A narrative review

International Journal of Gynecology & Obstetrics

Fertility, pregnancy and perioperative outcomes after operative hysteroscopy for uterine septum: a network meta-analysis

Archives of Gynecology and Obstetrics

Glucocorticoid supplementation during ovulation induction for assisted reproductive technology: a systematic review and meta-analysis

The Journal of Maternal-Fetal & Neonatal Medicine

Inositol supplementation for the prevention and treatment of gestational diabetes mellitus: a meta-analysis of randomized controlled trials

Archives of Gynecology and Obstetrics

Maternal intrapartum fluids and neonatal weight loss in the breastfed infant

British Journal of Midwifery

Maternal-neonatal events resulting from medications for preventing hypertensive disorders in high-risk pregnant women: A systematic review and network meta-analysis

International Journal of Gynecology & Obstetrics

Methotrexate versus expectant management for treatment of tubal ectopic pregnancy: An individual participant data meta-analysis

Acta Obstetrica et Gynecologica Scandinavica

Predictive factors for obstetric anal sphincter injury (OASI) in nulliparous women: systematic review and meta-analysis

Ultrasound in Obstetrics & Gynecology

Pregnancy feasibility in women with mild pulmonary arterial hypertension: a systematic review and meta-analysis

BMC Pregnancy and Childbirth

[Prenatal diagnosis and postnatal outcome of fetal congenital knee dislocation: systematic review of literature](#)

Ultrasound in Obstetrics & Gynecology

[Prenatal ultrasound for the diagnosis of the agenesis of corpus callosum: a meta-analysis](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Reliability and agreement in intrapartum fetal heart rate monitoring interpretation: A systematic review](#)

Acta Obstetrica et Gynecologica Scandinavica

[Serological screening for cytomegalovirus during pregnancy: A systematic review of clinical practice guidelines and consensus statements](#)

Journal of Prenatal Diagnosis

[The effectiveness and safety of laparoscopic uterosacral ligament suspension: a systematic review and meta-analysis](#)

BJOG

[The effects of sildenafil citrate on intrauterine growth restriction: a systematic review and meta-analysis](#)

BMC Pregnancy and Childbirth

[The relationship between incidence of cesarean section and physical activity during pregnancy among pregnant women of diverse age groups: Dose–response meta-analysis](#)

International Journal of Gynecology & Obstetrics

[The significance of nonsurgical therapies for cervical infection of high-risk human papilloma virus: A systematic review and meta-analysis](#)

Journal of Obstetrics and Gynaecology Research

[Training and capacity building in obstetric fistula repair: A scoping review](#)

International Journal of Gynecology & Obstetrics

[Vaccination in pregnancy](#)

International Journal of Gynecology & Obstetrics

[When time is brain: a systematic review about Wernicke encephalopathy as a dramatic consequence of thiamin deficiency in hyperemesis gravidarum](#)

The Journal of Maternal-Fetal & Neonatal Medicine



**This month's clinical questions are...**

[How does breastfeeding support compare with usual care for preventing cessation of breastfeeding in healthy mothers with healthy term babies?](#)

[How does immediate postpartum insertion of contraceptive implants and intrauterine devices \(IUDs\) compare with delayed insertion for women needing contraception?](#)

# Primary Research

OpenAthens login may be required to read the full text, or request it from the library

## Gynaecology

[Assessment of the clinical outcomes and complications of hysteroscopic and laparoscopic approaches in the treatment of symptomatic isthmocele: An observational study](#)  
International Journal of Gynecology & Obstetrics

[Diagnostic study of human papillomavirus DNA detection in cervical and vaginal samples using the filter paper card](#)  
International Journal of Gynecology & Obstetrics

[Fecal incontinence and associated pelvic floor dysfunction during and one year after the first pregnancy](#)  
Acta Obstetrica et Gynecologica Scandinavica

[Gauze packing may be a better hemostatic method to protect ovarian reserve during laparoscopic endometrioma cystectomy than conventional hemostatic methods](#)  
Archives of Gynecology and Obstetrics

[Image-guided drainage management of tubo-ovarian abscess and the role of C-reactive protein measurements in monitoring treatment response: a single-center experience](#)  
Archives of Gynecology and Obstetrics

[Is there a relationship between internalized misogyny and premenstrual syndrome and dysmenorrhea in young women? A descriptive-relational study](#)  
Journal of Obstetrics and Gynaecology Research

[Menopause and mental health](#)  
The Obstetrician and Gynaecologist

[Meta-ethnography on Chest Dysphoria and Liberating Solutions for Transmasculine Individuals](#)  
JOGNN

[Patient-initiated follow-up in women with early-stage endometrial cancer: a long-term follow-up of the OPAL trial](#)  
BJOG

[Pelvic floor ultrasound evaluation in the diagnosis of exposure of synthetic implanted materials in the lower urinary tract](#)  
International Journal of Gynecology & Obstetrics

[Post-cesarean section laparoscopic cholecystectomy: a case report](#)  
BMC Pregnancy and Childbirth

[Sacrolpopexy after sub-total hysterectomy vs. sacral hysteropexy for advanced urogenital prolapse: A propensity-matched study](#)  
International Journal of Gynecology & Obstetrics

[Sonographic postpartum anal sphincter defects and the association with pelvic floor pain and dyspareunia](#)  
Acta Obstetrica et Gynecologica Scandinavica

[The effect of duloxetine on female sexual functions in the treatment of stress incontinence](#)  
Archives of Gynecology and Obstetrics

[The EnPlace® sacrospinous ligament fixation—A novel minimally invasive transvaginal procedure for apical pelvic organ prolapse repair: Safety and short-term outcome results](#)  
International Journal of Gynecology & Obstetrics

The role of systemic immune inflammation index in predicting treatment success in tuboovarian abscesses

Archives of Gynecology and Obstetrics

## Maternity/Obstetrics

A prediction model for cesarean delivery based on the glycemia in the second trimester: a nested case control study from two centers

The Journal of Maternal-Fetal & Neonatal Medicine

A survey and stakeholder consultation of Independent Domestic Violence Advisor (IDVA) programmes in English maternity services

BMC Pregnancy and Childbirth

Abdominal pregnancy secondary to uterine horn pregnancy: a case report

BMC Pregnancy and Childbirth

Accuracy of prenatal detection of facial clefts and relation between facial clefts, additional malformations and chromosomal abnormalities: a large referral-center cohort

Archives of Gynecology and Obstetrics

Accuracy of sonographic fetal weight estimation and birth-weight discordance in twin pregnancies: large single-center study

Ultrasound in Obstetrics & Gynecology

Adverse pregnancy outcomes in women at increased risk of preterm pre-eclampsia on first-trimester combined screening

BJOG

Association between pre-pregnancy body mass index and the risk of preterm birth: a mediating effect of hypertensive disorders of pregnancy

The Journal of Maternal-Fetal & Neonatal Medicine

Association between social vulnerability profiles, prenatal care use and pregnancy outcomes

BMC Pregnancy and Childbirth

Association of sickle cell trait with adverse pregnancy outcomes in a population-based cohort

Acta Obstetrica et Gynecologica Scandinavica

Biomarkers at 6 weeks' gestation in the prediction of early miscarriage in pregnancy following assisted reproductive technology

Acta Obstetrica et Gynecologica Scandinavica

Comparing the effect of CTG+STan with CTG alone on emergency Cesarean section rate: STan Australian Randomized controlled Trial (START)

Ultrasound in Obstetrics & Gynecology

Comparison of the efficacy between controlled-release dinoprostone delivery system (PROPESS) and Cook's double balloon catheter plus oxytocin: A retrospective single-center study in Japan

Journal of Obstetrics and Gynaecology Research

Comparative study between oxytocin and combination of tranexamic acid and ethamsylate in reducing intra-operative bleeding during emergency and elective cesarean section after 38 weeks of normal pregnancy

BMC Pregnancy and Childbirth

[Conventional manual technique of post placental IUD insertion versus intra-cesarean post placental introducer withdrawal IUD insertion technique: a new standardized technique for IUD insertion during cesarean section: a randomized controlled trial](#)

BMC Pregnancy and Childbirth

[Decision-to-delivery interval and neonatal outcomes in intrapartum umbilical cord prolapse](#)

BMC Pregnancy and Childbirth

[Diagnosis, management and training in perineal trauma: a national survey of UK midwives](#)

British Journal of Midwifery

[Differences in the incidence of obstetric complications depending on the extent and location of adenomyosis lesions](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Digital health technologies for peripartum depression management among low-socioeconomic populations: perspectives from patients, providers, and social media channels](#)

BMC Pregnancy and Childbirth

[Effect of infrared belt and hot water bag on labor pain intensity among primiparous: a randomized controlled trial](#)

BMC Pregnancy and Childbirth

[Effects of flexible sacrum position at birth on maternal and neonatal outcomes: A retrospective cohort study](#)

International Journal of Gynecology & Obstetrics

[Ending preventable stillbirths and improving bereavement care: a scorecard for high- and upper-middle income countries](#)

BMC Pregnancy and Childbirth

[Evaluation of a termination of pregnancy education programme in the Republic of Ireland: part 1](#)

British Journal of Midwifery

[Heat stable carbetocin or oxytocin for prevention of postpartum hemorrhage among women at risk: A secondary analysis of the CHAMPION trial](#)

International Journal of Gynecology & Obstetrics

[Hyperlipidaemia and severe hypertriglyceridaemia in pregnancy](#)

The Obstetrician and Gynaecologist

[I-PREGNO – prevention of unhealthy weight gain and psychosocial stress in families during pregnancy and postpartum using an mHealth enhanced intervention: a study protocol of two cluster randomized controlled trials](#)

BMC Pregnancy and Childbirth

[Impact of fetal growth restriction on pregnancy outcome in women undergoing expectant management for preterm pre-eclampsia](#)

Ultrasound in Obstetrics & Gynecology

[Intra-abdominal umbilical venous diameter and abdominal circumference discordance at 15–20 weeks' gestation: simple markers in transverse abdominal plane to predict adverse pregnancy outcomes in monochorionic diamniotic twins](#)

Archives of Gynecology and Obstetrics

[Lack of an association between first-trimester concentration of mid-regional pro-atrial natriuretic peptide and risk of early-onset preeclampsia <34 weeks' gestation](#)

Journal of Obstetrics and Gynaecology Research

[Longitudinal assessment of angiogenic markers in prediction of adverse outcome in women with confirmed pre-eclampsia](#)  
Ultrasound in Obstetrics & Gynecology

[Maternal and obstetrical factors associated with short cervical length at midtrimester in women with no history of preterm delivery](#)  
The Journal of Maternal-Fetal & Neonatal Medicine

[Maternal and perinatal outcomes of prolonged second stage of labour: a historical cohort study of over 51,000 women](#)  
BMC Pregnancy and Childbirth

[Maternal cardiac disease and perinatal outcomes in a single tertiary care center](#)  
The Journal of Maternal-Fetal & Neonatal Medicine

[Meconium-stained amniotic fluid and neonatal morbidity in nulliparous patients with prolonged pregnancy](#)  
Acta Obstetrica et Gynecologica Scandinavica

[Modification and Psychometric Analyses of Stress and Coping Scales for the Extended Postpartum Period](#)  
JOGNN

[Neonatal outcomes associated with time from a high fetal blood lactate concentration to operative delivery](#)  
Acta Obstetrica et Gynecologica Scandinavica

[Obstetric and perinatal outcome in short-stature patients](#)  
International Journal of Gynecology & Obstetrics

[Oxycodone does not affect placental circulatory physiology during the early first stage of labor—A randomized trial](#)  
Acta Obstetrica et Gynecologica Scandinavica

[Physical examination-indicated cerclage in twin pregnancies compared with singleton pregnancies](#)  
The Journal of Maternal-Fetal & Neonatal Medicine

[Postpartum readmission for hypertension and pre-eclampsia: development and validation of a predictive model](#)  
BJOG

[Prediction of adverse perinatal outcome at mid-gestation](#)  
Ultrasound in Obstetrics & Gynecology

[Prediction of complications of pre-eclampsia using the fullPIERS high risk predictive model](#)  
International Journal of Gynecology & Obstetrics

[Prediction of hypertensive disorders after screening at 35-36 weeks' gestation: comparison of angiogenic markers with competing-risks model](#)  
Ultrasound in Obstetrics & Gynecology

[Predictors of vaginal delivery following balloon catheter for labor induction in women with one previous cesarean](#)  
BMC Pregnancy and Childbirth

[Prenatal wellbeing of mothers, their partners, and couples: a cross-sectional descriptive study](#)  
BMC Pregnancy and Childbirth

[Psychometric Testing of the Caregiver Attitudes on Substance Use in Pregnancy Instrument](#)  
JOGNN



Quantification of blood loss in obstetric haemorrhage: implications on intervention and transfusion

The Obstetrician and Gynaecologist

Rapid urine screening for ethyl glucuronide from pregnant women as a tool for detecting prenatal alcohol exposure

BMC Pregnancy and Childbirth

Risk factors associated with stillbirth and adverse perinatal outcomes in dichorionic twin pregnancies complicated by selective fetal growth restriction: a cohort study

BJOG

Risk prediction of gestational diabetes mellitus in women with polycystic ovary syndrome based on a nomogram model

BMC Pregnancy and Childbirth

Sleep-disordered breathing and pregnancy outcomes: The impact of maternal oxygen saturation

International Journal of Gynecology & Obstetrics

The association between maternal iron, zinc, copper levels in serum and pregnancy outcomes

Journal of Obstetrics and Gynaecology Research

The association between trial of labor after cesarean in obese patients and adverse maternal outcomes

Archives of Gynecology and Obstetrics

The associations of ferritin, serum lipid and plasma glucose levels across pregnancy in women with gestational diabetes mellitus and newborn birth weight

BMC Pregnancy and Childbirth

The contribution of hypertensive disorders of pregnancy to late preterm and term admissions to neonatal units in the UK 2012–2020 and opportunities to avoid admission: A population-based study using the National Neonatal Research Database

BJOG

Time to reconsider antibiotic prophylaxis in women with prolonged rupture of membranes: The trend of *Enterobacteriaceae* in peripartum infections

International Journal of Gynecology & Obstetrics

Timing of intra-abdominal aortic balloon occlusion for prevention of hemorrhage in patients with placenta previa and placenta accreta spectrum

International Journal of Gynecology & Obstetrics

Trends and patterns of antiseizure medication prescribing during pregnancy between 1995 and 2018 in the United Kingdom: A cohort study

BJOG

Watermelon and dietary advice compared to dietary advice alone following hospitalization for hyperemesis gravidarum: a randomized controlled trial

BMC Pregnancy and Childbirth

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## BMJ Best Practice

- **22 Jun 2023** Topic: [Vitamin D deficiency](#)
- **21 Jun 2023** Topic: [Herpes simplex virus infection](#)
- **20 Jun 2023** Topic: [Gonorrhoea infection](#)
- **20 Jun 2023** Topic: [Ectopic pregnancy](#)

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## UptoDate

### What's new in obstetrics and gynecology

#### **Cabergoline after second-trimester pregnancy loss or termination (June 2023)**

Breast symptoms (engorgement, tenderness, milk leakage) after second-trimester pregnancy loss or termination are common, but pharmacotherapy to suppress engorgement and lactation is limited. In a randomized placebo-controlled trial of approximately 70 patients with pregnancy loss or termination at 18 to 26 weeks of gestation, [cabergoline](#) (1 mg orally within four hours of fetal expulsion/extraction) substantially reduced breast symptoms on days 2 through 14 of follow-up [37]. Side effects were similar between groups, but the trial was not powered to detect small differences. When counseling patients about breast symptoms after second-trimester pregnancy loss or termination, we discuss the option of cabergoline as well as nonpharmacologic measures (eg, ice, compression with a tight sports bra, avoiding breast stimulation). (See "[Overview of second-trimester pregnancy termination](#)", section on 'Postprocedure considerations' and "[Overview of the postpartum period: Normal physiology and routine maternal care](#)", section on 'Breast engorgement'.)

#### **Early pregnancy diagnosis of gestational diabetes (June 2023)**

The benefit of treating gestational diabetes ([table 1](#)) diagnosed before 20 weeks of gestation has not been established. In a trial comparing immediate treatment of such patients versus retesting at 24 to 28 weeks and starting treatment at that time if diagnostic criteria are met, immediate treatment did not reduce rates of large-for-gestational age infants or pregnancy-related hypertension [2]. These findings have prompted stakeholders to review their early pregnancy diabetes screening protocols. Treatment of overt diabetes ([table 2](#)) diagnosed in early pregnancy is still recommended. (See "[Gestational diabetes mellitus: Screening, diagnosis, and prevention](#)", section on 'Management of patients after an early pregnancy GTT'.)

#### **Anticoagulation does not prevent recurrent pregnancy loss in patients with inherited thrombophilia (June 2023)**

Increasing data support the lack of benefit of anticoagulation for improving live birth rates among patients with an inherited thrombophilia who have experienced recurrent pregnancy loss. In one of the largest randomized trials, which included 326 such patients, treatment with low molecular weight heparin (LMWH) throughout pregnancy did not improve live birth, miscarriage, preterm birth, or small for gestational age birth rates compared with standard care [3]. In pregnant patients with an inherited thrombophilia, we use LMWH to prevent venous thromboembolism, as described in the tables ([table 3A-B](#)). (See "[Inherited thrombophilias in pregnancy](#)", section on 'Anticoagulation'.)

#### **Disease relapse among pregnant SLE patients (June 2023)**

Patients with systemic lupus erythematosus (SLE) are known to have a higher risk of relapse during pregnancy. In a multivariate analysis of pregnancies in patients with SLE, patients with a low C4 prior to conception had an increased risk of relapse during pregnancy [4]. Moreover, patients who experienced flare during pregnancy were more likely to have a low C4 during each trimester compared with patients who did not flare. Pregnant SLE patients with a low C4 may benefit from closer disease monitoring throughout pregnancy. (See "[Pregnancy in women with systemic lupus erythematosus](#)", section on 'Exacerbation of SLE'.)

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## Online Resources

[BestBETs](#) - BETs bring the evidence one step closer to the bedside, by providing answers to very specific clinical problems, using the best available evidence.

[BNF](#) – British National Formulary

[Royal College of Midwives](#) – clinical practice and guidelines (members only access)

## Journals & table of contents alerts

The Clinical Librarian team can help set up table of content alerts to the journal of your choice.

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<a href="#">Archives of Gynecology and Obstetrics</a>	<a href="#">BJOG : an International Journal of Obstetrics and Gynaecology</a>
<a href="#">British Journal of Midwifery</a>	<a href="#">European Journal of Obstetrics &amp; Gynaecology</a>
<a href="#">Midwifery</a>	<a href="#">MIDRS</a>

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