

Maternity, Obstetrics & Gynaecology Evidence Update August 2023

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NICE

National Institute for
Health and Care Excellence

Most recent guidance published or updated:

[Caesarean birth NG192](#)

[Ectopic pregnancy and miscarriage: diagnosis and initial management NG126](#)

Other Guidance/Reports

No new guidance



Cochrane
Library

Systematic Reviews and Research Protocols

[Breastfeeding or breast milk for procedural pain in neonates](#)

[High flow nasal cannula for respiratory support in term infants](#)

[Monotherapy treatment of epilepsy in pregnancy: congenital malformation outcomes in the child](#)

[Sucrose analgesia for heel-lance procedures in neonates](#)

Reviews from other sources

[A systematic review of interventions to increase the use of smoking cessation services for women who smoke during pregnancy](#)

ANZOG

[Adverse perinatal outcomes after Roux-en-Y Gastric Bypass vs. Sleeve Gastrectomy: a systematic review](#)

BMC Pregnancy and Childbirth

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[An evaluation of the efficacy and the safety of home blood pressure monitoring in the control of hypertensive disorders of pregnancy in both pre and postpartum periods: a systematic review and meta-analysis](#)

BMC Pregnancy and Childbirth

[Attention to pulmonary arteriovenous fistula in a case of transient hypoxemia and cerebral infarction during pregnancy: a case report and literature review](#)

BMC Pregnancy and Childbirth

[Cancer in pregnancy — The obstetrical management](#)

Acta Obstetrica et Gynecologica Scandinavica

[Cervical neuroendocrine carcinoma in the third trimester: a rare case report and literature review](#)

BMC Pregnancy and Childbirth

[Diagnostic and therapeutic approaches for endometriosis: a patent landscape](#)

Archives of Gynecology and Obstetrics

[Effects of bipolar disorder on maternal and fetal health during pregnancy: a systematic review](#)

BMC Pregnancy and Childbirth

[Effects of hysteroscopic surgery combined with progesterone therapy on fertility and prognosis in patients with early endometrial cancer and atypical endometrial hyperplasia or endometrial intraepithelial neoplasia: a meta-analysis](#)

Archives of Gynecology and Obstetrics

[Enhancing functional recovery following postpartum femoral neuropathy: early neurorehabilitation and multidisciplinary obstetric care](#)

International Journal of Gynecology & Obstetrics

[Environmental sustainability in obstetrics and gynaecology: A systematic review](#)

BJOG

[Fetal cardiac intervention in hypoplastic left heart syndrome with intact or restrictive atrial septum, systematic review, and meta-analysis](#)

Prenatal Diagnosis

[Fetoscopic laser photocoagulation versus expectant management for stage I twin-to-twin transfusion syndrome: A systematic review and meta-analysis](#)

Prenatal Diagnosis

[Hepatocellular carcinoma in pregnancy: A systematic review](#)

Acta Obstetrica et Gynecologica Scandinavica

[HIF-1 \$\alpha\$ is positively associated with endometrial receptivity by regulating PKM2](#)

Journal of Obstetrics and Gynaecology Research

[Iatrogenic bladder injury following gynecologic and obstetric surgery: A systematic review and meta-analysis](#)

Acta Obstetrica et Gynecologica Scandinavica

[Maternal gestational iron status and infant haematological and neurodevelopmental outcomes](#)

BJOG

[Midwives' practice of maternal positions throughout active second stage labour: an integrative review](#)

British Journal of Midwifery

[Perioperative and reproductive outcomes' comparison of mini-laparotomy and laparoscopic myomectomy in the management of uterine leiomyomas: a systematic review](#)

Archives of Gynecology and Obstetrics

Prediction of postnatal abnormal umbilical cord coiling by antenatal evaluation in pregnant women: Diagnostic accuracy study; a systematic review
Journal of Obstetrics and Gynaecology Research

Prenatal assessment of pulmonary vasculature development in fetuses with congenital diaphragmatic hernia: A literature review
Prenatal Diagnosis

Prenatal diagnosis of cleft lip and/or palate: What do we tell prospective parents?
Prenatal Diagnosis

The effects of warm perineal compress on perineal trauma and postpartum pain: a systematic review with meta-analysis and trial sequential analysis
Archives of Gynecology and Obstetrics

The great obstetrical syndromes and the placenta
BJOG

The role of fetal heart rate in first trimester sonograms in prediction of fetal sex: a systematic review and meta-analysis
BMC Pregnancy and Childbirth

Women's experience of polycystic ovary syndrome management: A systematic review and meta-synthesis
International Journal of Gynecology & Obstetrics



This month's clinical questions are...

Can antenatal supplementation with myo-inositol during pregnancy improve outcomes in women at risk of gestational diabetes?

How does intermittent phototherapy compare with continuous phototherapy for newborn infants with non-hemolytic jaundice?

What is the diagnostic test accuracy of non-invasive transcutaneous bilirubin measurement devices for detecting hyperbilirubinemia in newborns?

Primary Research

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Gynaecology

Age and postoperative opioid use in women undergoing pelvic organ prolapse surgery
Acta Obstetrica et Gynecologica Scandinavica

Analysis of questions by patients with pelvic organ prolapse about vaginal pessaries resulting in a checklist for their physicians
Archives of Gynecology and Obstetrics

Analysis of the anatomical and biomechanical characteristics of the pelvic floor in cystocele
Acta Obstetrica et Gynecologica Scandinavica

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[Association of normalization of postoperative carbohydrate antigen 125 levels with treatment failure following uterine artery embolization for adenomyosis](#)

Journal of Obstetrics and Gynaecology Research

[Disturbances of menstrual cycle after immunization against SARS-CoV-2 and their risk factors: Cross-sectional clinical study](#)

International Journal of Gynecology & Obstetrics

[Does vaginal cleansing with iodine decreases infection rate in office hysteroscopy?](#)

Archives of Gynecology and Obstetrics

[Evaluation of the effect of previous endometriosis surgery on clinical and surgical outcomes of subsequent endometriosis surgery](#)

Archives of Gynecology and Obstetrics

[Former long-term use of combined hormonal contraception and glucose metabolism disorders in perimenopausal women: A prospective, population-based cohort study](#)

Acta Obstetrica et Gynecologica Scandinavica

[Impact of approval of home use of misoprostol in England on access to medical abortion: An interrupted time series analysis](#)

International Journal of Gynecology & Obstetrics

[Intra- and interobserver reproducibility of transvaginal ultrasound for the detection and measurement of endometriotic lesions of the bowel](#)

Acta Obstetrica et Gynecologica Scandinavica

[Living donor uterus transplant in the UK: A case report](#)

BJOG

[Multicenter evaluation of blood-based biomarkers for the detection of endometriosis and adenomyosis: A prospective non-interventional study](#)

International Journal of Gynecology & Obstetrics

[Nomogram for predicting pulmonary embolism in gynecologic inpatients with isolated distal deep venous thrombosis](#)

International Journal of Gynecology & Obstetrics

[One-year follow-up after standardized perineal reconstruction in women with deficient perineum after vaginal delivery](#)

Acta Obstetrica et Gynecologica Scandinavica

[Outcomes of incomplete abortion related to treatment modality](#)

Archives of Gynecology and Obstetrics

[Postoperative outcomes and urodynamic findings after continence mesh removal](#)

International Journal of Gynecology & Obstetrics

[Reflections on access to care for heavy menstrual bleeding: Past, present, and in times of the COVID-19 pandemic](#)

International Journal of Gynecology & Obstetrics

[Robotic single-port hysterectomy versus robotic multisite hysterectomy in benign gynecologic diseases: A retrospective comparison of clinical and surgical outcomes](#)

Journal of Obstetrics and Gynaecology Research

[Therapeutic options for the management of abnormal uterine bleeding](#)

International Journal of Gynecology & Obstetrics

[Vascular- and nerve-sparing bowel resection for deep endometriosis: A retrospective single-center study](#)

International Journal of Gynecology & Obstetrics

[Vulvar endometriosis: a rare primary location in adolescence](#)

Archives of Gynecology and Obstetrics

Maternity/Obstetrics

[A network analysis of nutritional markers and maternal perinatal mental health in the French EDEN cohort](#)

BMC Pregnancy and Childbirth

[Admission ultrasonography as a means of identifying unrecognized fetal compromise in term singleton pregnancies at the onset of labor – a feasibility study](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Analysis of risk factors and construction of nomograph model for critical condition of patients with hypertension during pregnancy](#)

BMC Pregnancy and Childbirth

[Association between socioeconomic status with pregnancy and neonatal outcomes: An international multicenter cohort](#)

Acta Obstetrica et Gynecologica Scandinavica

[Associations between the size and duration of asymptomatic subchorionic hematoma and pregnancy outcomes in women with singleton pregnancies](#)

BMC Pregnancy and Childbirth

[Associations of characteristics of previous induced abortion with different grades of current placenta accreta spectrum disorders](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Association of Maternal Cigarette Smoking with Neonatal Death: A Population-Based Cohort Study](#)

Neonatology

[Beyond body mass index: a synthesis of lifestyle factors that may influence in vitro fertilisation outcomes](#)

British Journal of Midwifery

[Case Report of Umbilical Artery Thrombosis in a Patient With a History of Heparin-Induced Thrombocytopenia](#)

JOGNN

[Causal association between gut microbiota and intrahepatic cholestasis of pregnancy: mendelian randomization study](#)

BMC Pregnancy and Childbirth

[Chest CT scan predictors of intensive care unit admission in hospitalized pregnant women with COVID-19: a case–control study](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Chromosomal polymorphisms and susceptibility to menstrual disorders: a retrospective analysis of 24,578 women](#)

Archives of Gynecology and Obstetrics

[Clinical analysis of the regimens for terminating the second-trimester pregnancy in cesarean section women](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Clinical efficacy and risk factors for suction curettage and hysteroscopy in patients with type I and II cesarean scar pregnancy](#)

International Journal of Gynecology & Obstetrics

[Clinical features and prognosis of pregnancy-related renal damage and pregnancy after chronic kidney disease](#)

BMC Pregnancy and Childbirth

[Comparing elective and emergency caesarean section by using bioimpedance method](#)

Archives of Gynecology and Obstetrics

[Consensus protocols for management of early and late twin-twin transfusion syndrome: Delphi study](#)

Ultrasound in Obstetrics & Gynecology

[Continuous interstitial glucose monitoring for term newborns: analysis of the first day of life](#)

ADC Fetal and Neonatal edition

[Contraception and sterilization selection at delivery among pregnant patients with malignancy](#)

Acta Obstetrica et Gynecologica Scandinavica

[Development and evaluation of the psychometric properties of a digital questionnaire for the self-management of health and well-being in the postpartum period](#)

BMC Pregnancy and Childbirth

[Diabetes and pregnancy study \(DAPSY\): a 10-year single-center cohort study of pregnancies affected by diabetes](#)

Archives of Gynecology and Obstetrics

[Does fetal size affect maternal perception of fetal movements? Evidence from an individual participant data meta-analysis](#)

Acta Obstetrica et Gynecologica Scandinavica

[Does sonographic assessment of fetal head flexion in occiput posterior fetuses at start of second stage of labor predict persistent occiput posterior position?: prospective study](#)

Ultrasound in Obstetrics & Gynecology

[Essential Nursing Actions to Reduce Inequities for Black Women in the Perinatal Period](#)

JOGNN

[Evaluation of an online education program for healthcare professionals on best practice management of perinatal deaths: IMPROVE eLearning](#)

ANZOG

[Evaluation of nitric acid donor, transdermal glycerol trinitrate patches for facilitating cervical ripening: a randomised controlled trial](#)

Archives of Gynecology and Obstetrics

[Evaluation of screening performance of first trimester competing risk prediction model for small for gestational age in Asian population](#)

Ultrasound in Obstetrics & Gynecology

[Exhaled CO₂ monitoring to guide non-invasive ventilation at birth: a systematic review](#)

ADC Fetal and Neonatal edition

[Factors associated with the intention of pregnant women to give birth with epidural analgesia: a cross-sectional study](#)

BMC Pregnancy and Childbirth

[First trimester SHARP1 and second-trimester uterine artery Doppler to predict preeclampsia](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Glycosylated fibronectin improves first trimester prediction of pre-eclampsia](#)
Ultrasound in Obstetrics & Gynecology

[Health literate-sensitive shared decision-making in maternity care: needs for support among maternity care professionals in the Netherlands](#)
BMC Pregnancy and Childbirth

[How safe is the treatment of pregnant women with fear of childbirth using eye movement desensitization and reprocessing therapy? Obstetric outcomes of a multi-center randomized controlled trial](#)
Acta Obstetrica et Gynecologica Scandinavica

[In vivo measurement of the elastic properties of pelvic floor muscles in pregnancy using shear wave elastography](#)
Archives of Gynecology and Obstetrics

[Induction of labor and risk of postpartum hemorrhage in women with vaginal delivery: A propensity score analysis](#)
International Journal of Gynecology & Obstetrics

[Inpatient versus outpatient management of pregnancies with vasa previa: A historical cohort study](#)
Acta Obstetrica et Gynecologica Scandinavica

[Interprofessional obstetric simulation training improves postpartum haemorrhage management and decreases maternal morbidity: a before-and-after study](#)
BJOG

[Intravenous tranexamic acid vs. sublingual misoprostol in high-risk women for postpartum haemorrhage following cesarean delivery; a randomised clinical trial](#)
BMC Pregnancy and Childbirth

[Investigation of human papilloma virus frequency in pregnant women](#)
Journal of Obstetrics and Gynaecology Research

[Is an episiotomy always necessary during an operative vaginal delivery with vacuum? A longitudinal study](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[MAGIC \(maternal glucose in pregnancy\) understanding the glycemic profile of pregnancy, intensive CGM glucose profiling and its relationship to fetal growth: an observational study protocol](#)
BMC Pregnancy and Childbirth

[Maternal BMI changes from the prepregnancy to postpartum period are associated with postpartum cardiometabolic risk factors: a longitudinal study](#)
Archives of Gynecology and Obstetrics

[Mid-trimester uterine artery Doppler for aspirin discontinuation in pregnancies at high risk for preterm pre-eclampsia: Post-hoc analysis of StopPRE trial](#)
BJOG

[Non-invasive cell-free DNA-based approach for the diagnosis of clinical miscarriage: A retrospective study](#)
BJOG

[Obstetric anal sphincter injuries: are defunctioning colostomies required?](#)
British Journal of Midwifery

[One-year follow up of contraceptive use and pregnancy rates after early medical abortion: Secondary outcomes from a randomized controlled trial of immediate post-abortion placement of intrauterine devices](#)

Acta Obstetrica et Gynecologica Scandinavica

[Ophthalmic artery Doppler at 36 weeks' gestation in the prediction of pre-eclampsia: validation and update of previous model](#)

Ultrasound in Obstetrics & Gynecology

[Parental perspectives about information and deferred versus two-stage consent in studies of neonatal asphyxia](#)

ADC Fetal and Neonatal edition

[Prediction of imminent pre-eclampsia by serum glycosylated fibronectin in women with new onset hypertension](#)

Ultrasound in Obstetrics & Gynecology

[Predictive value of crossover sign on treatment outcomes of ultrasound-guided vacuum aspiration in women with Cesarean scar pregnancy](#)

Ultrasound in Obstetrics & Gynecology

[Pre-induction cervical ripening and hygroscopic cervical dilators in pre-labor induction](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Prenatal ultrasound manifestations of partial urorectal septum malformation sequence from the first trimester to postnatal: a case report](#)

BMC Pregnancy and Childbirth

[Qualitatively exploring the application of the necessity concerns framework to antenatal physical activity](#)

BMC Pregnancy and Childbirth

[Randomized Controlled Trial on the Effect of Group Versus Individual Prenatal Care on Psychosocial Outcomes](#)

JOGNN

[Reducing vaccine hesitancy in pregnancy by the health literacy model inclusive of modern communication tools](#)

Archives of Gynecology and Obstetrics

[Retroperitoneal ectopic pregnancy: successful expectant management in condition of early pregnancy failure](#)

BMC Pregnancy and Childbirth

[Risk of major congenital heart disease in maternal diabetes is modified by hemoglobin A1c](#)

Ultrasound in Obstetrics & Gynecology

[Serologic evolution and follow-up to IgG antibodies of infants born to mothers with gestational COVID](#)

BMC Pregnancy and Childbirth

[Shock index as a predictor of postpartum haemorrhage after vaginal delivery: Secondary analysis of a multicentre randomised controlled trial](#)

BJOG

[Sleep quality in women with diabetes in pregnancy: a single-center retrospective study](#)

BMC Pregnancy and Childbirth

[Sonographic confirmation of placental detachment during placental delivery for uterine inversion prevention](#)

Journal of Obstetrics and Gynaecology Research

[Specialized Prenatal Care for Women With IBD Makes a Difference](#)

Inflammatory Bowel Diseases

[The association between a low 50-gram, 1-hour glucose challenge test value and neonatal morbidity](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[The association between indications for cesarean delivery and surgery time](#)

International Journal of Gynecology & Obstetrics

[The effect of postpartum skin-to-skin contact on the pain of the first intramuscular injection to the Newborn: A randomized controlled trial](#)

Journal of Neonatal Nursing

[The effect of supportive intrapartum care during birth in Jordan: a quasi-experimental study](#)

British Journal of Midwifery

[The initial number of fetuses in multiple pregnancy before reduction affects perinatal outcomes](#)

Journal of Obstetrics and Gynaecology Research

[The risk factors of procedure-related complications after amniocentesis in twin pregnancies: a retrospective analysis](#)

BMC Pregnancy and Childbirth

[Three-dimensional echocardiography and strain cardiac imaging in women with pre-eclampsia with follow up to six months postpartum](#)

Ultrasound in Obstetrics & Gynecology

[Timing of antenatal corticosteroid administration in pregnancies with increased risk for premature birth: A retrospective cohort study](#)

International Journal of Gynecology & Obstetrics

[Timing of antibiotic prophylaxis in term prelabor rupture of membranes: A retrospective cohort study using propensity-score matching](#)

International Journal of Gynecology & Obstetrics

[Transvaginal cerclage for prevention of preterm birth in twin pregnancies with cervical dilatation or shortening: A prospective observational study](#)

International Journal of Gynecology & Obstetrics

[Trialling an expressed breast milk management video for pregnant women in Indonesia](#)

British Journal of Midwifery

[Unscarred uterine rupture with catastrophic hemorrhage immediately after vaginal delivery: diagnosis and management of six consecutive cases](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Uterus-preserving surgical management of placenta accreta spectrum disorder: a large retrospective study](#)

BMC Pregnancy and Childbirth

[Value of proteinuria in evaluating the severity of HELLP and its maternal and neonatal outcomes](#)

BMC Pregnancy and Childbirth

[What makes an excellent labour ward co-ordinator? Insights from the multidisciplinary team](#)

British Journal of Midwifery

BMJ Best Practice

- 24 Aug 2023 Topic: [Ovarian cancer](#)
-

UptoDate

What's new in obstetrics and gynecology

Respectful, equitable, supportive maternity care (August 2023)

Respectful, equitable, and supportive maternity care is a basic human right that is not always achieved. In a recent survey of mothers in the United States, 90 percent of respondents were satisfied with the care they received during pregnancy, but 20 percent overall reported mistreatment, including requests for help refused or not responded to, physical privacy violated, and verbal abuse [1]. Approximately 30 percent of all respondents and 40 percent of Black, Hispanic, and multiracial respondents reported discrimination during maternity care. Multiple organizations have developed strategies that encourage a culture of respectful, equitable, and supportive maternity care. These strategies can be useful to providers, patients, and health care systems. (See "[Prenatal care: Second and third trimesters](#)", [section on 'Respectful, equitable, and supportive maternity care'](#).)

Mifepristone for treatment of adenomyosis (August 2023)

Symptomatic uterine adenomyosis is typically treated with nonsteroidal anti-inflammatory drugs, the 52 mg levonorgestrel-releasing intrauterine device, or surgery, but use of other hormonal medications (eg, oral contraceptive pills, gonadotropin-releasing hormone analogs, [mifepristone](#)) has been described. In a randomized trial including over 130 premenopausal patients with adenomyosis based on imaging, mifepristone (10 mg orally daily) resulted in greater improvement in dysmenorrhea, blood loss, and uterine volume compared with placebo after 12 weeks of treatment [31]. Further studies are needed to determine the long-term efficacy of mifepristone in such patients before it can be used routinely for this indication. (See "[Uterine adenomyosis](#)", [section on 'Alternative hormone strategies'](#).)

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)

[The Royal Marsden Manual of Clinical Procedures](#) – available via your Athens login

Journals & table of contents alerts

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[Archives of Gynecology and Obstetrics](#)

[BJOG : an International Journal of Obstetrics and Gynaecology](#)

[British Journal of Midwifery](#)

[European Journal of Obstetrics & Gynaecology](#)

[Midwifery](#)

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