

Maternity, Obstetrics & Gynaecology Evidence Update November 2022

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Aaron.Razack@porthosp.nhs.uk

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NICE

National Institute for
Health and Care Excellence

Most recent guidance published:

[Balloon disimpaction of the baby's head at emergency caesarean during the second stage of labour IPG7](#)

Other Guidance/Reports

No new guidelines



Systematic Reviews and Research Protocols

[Follicular flushing during oocyte retrieval in assisted reproductive techniques](#)

Reviews from other sources

[A review of monkeypox infection during pregnancy](#)
International Journal of Gynecology & Obstetrics

[Cesarean scar niche: An evolving concern in clinical practice](#)
International Journal of Gynecology & Obstetrics

[Comparative safety of infliximab and adalimumab on pregnancy outcomes of women with inflammatory bowel diseases: a systematic review & meta-analysis](#)
BMC Pregnancy and Childbirth

[Effectiveness and safety of COVID-19 vaccine in pregnant women: a systematic review with meta-analysis](#)
BJOG

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Efficacy and safety of epidural clonidine by continuous infusion or patient-controlled analgesia in labor: A meta-analysis of randomized controlled trials
International Journal of Gynecology & Obstetrics

Engaging in pre-conceptual care: an integrative review
British Journal of Midwifery

Expectant management of viable cesarean scar pregnancies: a systematic review
Archives of Gynecology and Obstetrics

Fentanyl for labour pain management: a scoping review
BMC Pregnancy and Childbirth

Fetal cerebral ventriculomegaly: What do we tell the prospective parents?
Prenatal Diagnosis

Impact of maternal body mass index and gestational weight gain on maternal and neonatal outcomes in twin pregnancies
Acta Obstetrica et Gynecologica Scandinavica

Integrative Review of Mental Health and Feeding Styles in Parents of Bottle-Fed Infants
JOGNN

Maternal and perinatal outcomes following a diagnosis of Hodgkin lymphoma during or prior to pregnancy: a systematic review
BJOG

Mediterranean diet for the prevention of gestational diabetes: a meta-analysis of randomized controlled trials
The Journal of Maternal-Fetal & Neonatal Medicine

Pregnancy and perinatal outcomes of early vs late selective termination in dichorionic twin pregnancy: systematic review and meta-analysis
Ultrasound in Obstetrics & Gynecology

Premenstrual disorders including premenstrual syndrome and premenstrual dysphoric disorder
The Obstetrician & Gynaecologist

Prenatal magnetic resonance imaging of complex female genitourinary system abnormalities, what the fetal medicine specialist needs to know
Prenatal Diagnosis

Reproductive health in Turner syndrome: A narrative review
Prenatal Diagnosis

Survival after minimally invasive radical hysterectomy without using uterine manipulator for early-stage cervical cancer: A systematic review and meta-analysis
BJOG

The effect of vitamin D supplementation on oxidative stress and inflammatory biomarkers in pregnant women: a systematic review and meta-analysis of clinical trials
BMC Pregnancy and Childbirth

The effect of weight loss interventions for obesity on fertility and pregnancy outcomes: A systematic review and meta-analysis
International Journal of Gynecology & Obstetrics

The effectiveness of postpartum interventions aimed at improving women's mental health after medical complications of pregnancy: a systematic review and meta-analysis
BMC Pregnancy and Childbirth

[The effectiveness of skilled breathing and relaxation techniques during antenatal education on maternal and neonatal outcomes: a systematic review](#)

BMC Pregnancy and Childbirth

[The indicators for early blood transfusion in patients with placental abruption with intrauterine fetal death: a retrospective review](#)

BMC Pregnancy and Childbirth

[The link between intrauterine adhesions and impaired reproductive performance: a systematic review of the literature](#)

BMC Pregnancy and Childbirth

[Thromboprophylaxis in gynaecology: a review of current evidence](#)

The Obstetrician & Gynaecologist



This month's clinical questions are...

[For women with subfertility, how does tubal flushing with oil-soluble contrast media \(OSCM\) compare with water-soluble contrast media \(WSCM\)?](#)

[What are the effects of taxane monotherapy regimens for women with recurrent epithelial ovarian cancer?](#)

Primary Research

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

Gynaecology

[Association of preoperative conization with recurrences after laparoscopic radical hysterectomy for FIGO 2018 stage IB1 cervical cancer](#)

Archives of Gynecology and Obstetrics

[Clinical outcomes of conventional HDR intracavitary brachytherapy combined with complementary applicator-guided intensity modulated radiotherapy boost in patients with bulky cervical tumour](#)

BJOG

[Dostarlimab for recurrent mismatch repair-deficient endometrial cancer: A cost-effectiveness study](#)

BJOG

[Drospirenone 4 mg in a 24 + 4 regimen in women with contraindications to oestrogen use for contraception: bleeding patterns according to previous menstrual characteristics](#)

Archives of Gynecology and Obstetrics

[Evaluation and comparison of the accuracy of transvaginal ultrasound and MRI for the diagnosis of deep rectal endometriosis: A cross-sectional study](#)

International Journal of Obstetrics & Gynecology

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[Expert opinion on the use of transvaginal sonography for presurgical staging and classification of endometriosis](#)

Archives of Gynecology and Obstetrics

[Frequency and associated symptoms of isthmoceles in women 6 months after caesarean section: a prospective cohort study](#)

Archives of Gynecology and Obstetrics

[Impact of lymphadenectomy in patients with locally recurrent or persistent cervical cancer treated with salvage hysterectomy](#)

Journal of Obstetrics and Gynaecology Research

[Influence of interdisciplinary frailty screening on perioperative complication rates in elderly ovarian cancer patients: results of a retrospective observational study](#)

Archives of Gynecology and Obstetrics

[Laser versus sham for genitourinary syndrome of menopause: A randomised controlled trial](#)

BJOG

[Medical management of small uterocutaneous fistulae with gonadotrophin releasing hormone analogs: Case report and literature review](#)

Journal of Obstetrics and Gynaecology Research

[Multidisciplinary view on uterine junctional zone in uteri affected by adenomyosis: explaining discrepancies between MRI and transvaginal ultrasound images on a microscopic level](#)

Ultrasound in Obstetrics & Gynecology

[Pelvic pain and venous congestion revisited: prospective study examining relationship between chronic pelvic pain and uterine venous size and blood flow](#)

Ultrasound in Obstetrics & Gynecology

[Recurrent torsion of otherwise normal adnexa: oophoropexy does not prevent recurrence](#)

Archives of Gynecology and Obstetrics

[Role of C-type natriuretic peptide in polycystic ovary syndrome](#)

International Journal of Obstetrics & Gynecology

[Saliva miRNA signature to diagnose endometriosis: a cost-effectiveness evaluation of the Endotest®](#)

BJOG

[Short-term outcomes after an enhanced recovery after surgery protocol in abdominal hysterectomies for leiomyomas in a teaching hospital](#)

International Journal of Obstetrics & Gynecology

[Uterine allograft removal by total laparoscopic hysterectomy after successful cesarean delivery in a living-donor uterus recipient with uterovaginal agenesis \(MRKHS\)](#)

Archives of Gynecology and Obstetrics

Maternity/Obstetrics

[Accuracy of ultrasound for the detection of placenta accreta spectrum in a universal screening population](#)

International Journal of Obstetrics & Gynecology

[Analysis of risk factors related to extremely and very preterm birth: a retrospective study](#)

BMC Pregnancy and Childbirth

[Antenatal corticosteroids and outcomes of small for gestational age infants born at 24–31 gestational weeks: a population-based propensity score matching analysis](#)

Archives of Gynecology and Obstetrics

[Antenatal corticosteroids and perinatal outcome in late fetal growth restriction: analysis of prospective cohort](#)

Ultrasound in Obstetrics & Gynecology

[Association between Marked Fetal Heart Rate Variability and Neonatal Acidosis: A Prospective Cohort Study](#)

BJOG

[Association of maternal, fetal and labor variables with a low Apgar score in the fifth minute in term pregnancy: a case–control study](#)

Archives of Gynecology and Obstetrics

[Association of serum folate levels during pregnancy and prenatal depression](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Artificial rupture of membranes as a mode for induction of labor in women with a previous cesarean section- a retrospective cohort study](#)

BMC Pregnancy and Childbirth

[Cesarean versus vaginal delivery for breech presentation is an independent risk factor for long-term pediatric respiratory hospitalization of the offspring](#)

International Journal of Gynecology & Obstetrics

[Changes in fetal presentation in the preterm period and the prediction of non-cephalic delivery](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Cortical maturation assessed by magnetic resonance imaging in unaffected/mildly affected fetuses with cytomegalovirus infection](#)

Ultrasound in Obstetrics & Gynecology

[Cultural influence on the expression of labour-associated pain](#)

BMC Pregnancy and Childbirth

[Descriptive Exploratory Study to Understand Postpartum Anxiety Using Multiple Measures](#)

JOGNN

[Different azithromycin protocols for management of preterm prelabour rupture of membranes: a randomized clinical trial](#)

BMC Pregnancy and Childbirth

[Different pathways for preterm birth between singleton and twin pregnancies: a population-based registry study of 481 176 nulliparous women](#)

BJOG

[Does Maternal Stature Modify the Association Between Small- and Large-For-Gestational Age Infants and Adverse Perinatal Outcomes? A Retrospective Cohort Study](#)

BJOG

[Does the type of pushing at delivery influence pelvic floor function at 2 months postpartum? A pragmatic randomized trial—The EOLE study](#)

Acta Obstetrica et Gynecologica Scandinavica

[Effect of implementing a birth plan on maternal and neonatal outcomes: a randomized controlled trial](#)

BMC Pregnancy and Childbirth

[Effect of internet-based cognitive behaviour therapy among women with negative birth experiences on mental health and quality of life - a randomized controlled trial](#)

BMC Pregnancy and Childbirth

[Effect of low dose aspirin application during pregnancy on fetal congenital anomalies](#)
BMC Pregnancy and Childbirth

[Effects of a structural simulation curriculum for the repair of obstetrical anal sphincter injuries \(OASIS\)](#)
International Journal of Gynecology & Obstetrics

[Effects of the Omicron variant on perinatal outcomes in full-term neonates](#)
BMC Pediatrics

[Endometriosis-related spontaneous hemoperitoneum in pregnancy: A case series](#)
Journal of Obstetrics and Gynaecology Research

[Evaluation of nausea and vomiting in the first trimester on the risk of adverse birth outcomes and the contribution of genetic polymorphisms: a pilot prospective study](#)
Archives of Gynecology and Obstetrics

[Evaluation of the effects of COVID-19 disease and the trimester in which the disease is diagnosed on obstetric and neonatal outcomes: A retrospective cohort study](#)
Journal of Obstetrics and Gynaecology Research

[Fetal pancreas size and maternal serum biomarkers glycated albumin and insulin-regulated aminopeptidase provide no potential for early prediction of gestational diabetes mellitus](#)
Archives of Gynecology and Obstetrics

[Hormone replacement cycles are associated with a higher risk of hypertensive disorders: Retrospective cohort study in singleton and twin pregnancies](#)
BJOG

[Human femur development in fetal growth restriction as observed on prenatal magnetic resonance imaging](#)
Ultrasound in Obstetrics & Gynecology

[Increased incidence of shoulder dystocia but a declining incidence of obstetric brachial plexus palsy in vaginally delivered infants](#)
Acta Obstetrica et Gynecologica Scandinavica

[Labor induction in term gravidas with prelabor rupture of membranes and unfavorable cervixes: Oxytocin versus vaginal misoprostol](#)
International Journal of Gynecology & Obstetrics

[Learning from a crisis: a qualitative study of the impact on mothers' emotional wellbeing of changes to maternity care during the COVID-19 pandemic in England, using the National Maternity Survey 2020](#)
BMC Pregnancy and Childbirth

[Maternal anxiety forecasts shorter prolongation of pregnancies complicated by early-onset preeclampsia](#)
Archives of Gynecology and Obstetrics

[Maternal colonization with extended-spectrum \$\beta\$ -lactamase-producing *Enterobacteriaceae* in term versus preterm pregnancies](#)
International Journal of Gynecology & Obstetrics

[Maternal infections during pregnancy and child cognitive outcomes](#)
BMC Pregnancy and Childbirth

[Micturition in the toilet compared with bedpan in laboring Nulliparas: a randomized controlled trial](#)
BMC Pregnancy and Childbirth

[Midwives' decision making during normal labour and birth: a decision making framework](#)
British Journal of Midwifery

[Mobile phone-based postnatal follow up and maternal health outcomes for low risk mothers](#)
British Journal of Midwifery

[Neonatal eyelid penetration from insertion of a fetal scalp electrode: a case report](#)
BMC Pregnancy and Childbirth

[Neurodevelopmental outcomes after antenatal therapy for fetal supraventricular tachyarrhythmias: 3-year follow-up of a multicenter trial](#)
Ultrasound in Obstetrics & Gynecology

[Noninvasive prenatal screening for cystic fibrosis using circulating trophoblasts: Detection of the 50 most common disease-causing variants](#)
Prenatal Diagnosis

[Outcomes of acute type A aortic dissection repair during pregnancy](#)
International Journal of Gynecology & Obstetrics

[Pelvic inlet area is associated with birth mode](#)
Acta Obstetrica et Gynecologica Scandinavica

[Predictors of efficacy for cervical ripening among the Bishop score criteria in nulliparous women at term](#)
International Journal of Gynecology & Obstetrics

[Pregnancy, delivery and neonatal outcomes among women with diabetic retinopathy](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Pregnancy outcomes and risk factors for preeclampsia in dichorionic twin pregnancies after in vitro fertilization: a five-year retrospective study](#)
BMC Pregnancy and Childbirth

[Prenatal and fetal diagnosis of trisomy 18 after low-risk cell-free fetal DNA screening: A report of four cases](#)
Prenatal Diagnosis

[Prenatal intracranial hypotension syndrome in congenital cephalocele: Insights into pathophysiologic mechanisms and importance of defect coverage](#)
Prenatal Diagnosis

[Reduction of adverse outcomes from caesarean section by surgical site infection prevention care bundles in maternity](#)
International Journal of Gynecology & Obstetrics

[Relationship between placental hemodynamics and placental histological analysis in third trimester](#)
Journal of Obstetrics and Gynaecology Research

[Repair of Uterine Rupture Following Vaginal Delivery: A Comparison between Minimally invasive and Open Repair](#)
International Journal of Gynecology & Obstetrics

[Risk factors and outcomes in people with stroke associated with pregnancy: A retrospective single-center cohort](#)
International Journal of Gynecology & Obstetrics

[Risk factors for bladder injury during placenta accreta spectrum surgery](#)
International Journal of Gynecology & Obstetrics

[Secundiparas following a failed vacuum delivery—factors associated with a successful vaginal delivery: a historical prospective cohort](#)
BMC Pregnancy and Childbirth

[Spontaneous preterm birth risk among HPV vaccinated and unvaccinated women: a nationwide retrospective cohort study of over 240 000 singleton births](#)
BJOG

[Supporting pregnant women not ready to quit smoking: an economic evaluation](#)
BMC Pregnancy and Childbirth

[Termination of pregnancy after a prenatal diagnosis of congenital diaphragmatic hernia: Factors influencing the parental decision process](#)
Prenatal Diagnosis

[The association of iron status, supplement iron in the first-trimester pregnancy with gestational diabetes mellitus: A nested case–control study](#)
Journal of Obstetrics and Gynaecology Research

[The cerebroplacental ratio and prediction of fetal growth restriction in twin pregnancies](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[The effect of pre-pregnancy obesity on gut and meconium microbiome and relationship with fetal growth](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[The effects of pregnancy discrimination on postpartum depressive symptoms: a follow-up study](#)
BMC Pregnancy and Childbirth

[The human right to safely give birth: data from 193 countries show that gender equality does affect maternal mortality](#)
BMC Pregnancy and Childbirth

[The influence of maternal respiratory allergy on obstetrics and perinatal outcomes: A nested case–control study](#)
International Journal of Gynecology & Obstetrics

[The perinatal outcomes by gestational weight gain range at 30 weeks of gestation among pre-pregnancy underweight women](#)
Journal of Obstetrics and Gynaecology Research

[To weigh or not to weigh in pregnancy: a retrospective study](#)
British Journal of Midwifery

[Tricky TRIC: A replication study using trophoblast retrieval and isolation from the cervix to study genetic birth defects](#)
Prenatal Diagnosis

[Usefulness of angiogenic factors in prenatal counseling of late-onset fetal growth-restricted and small-for-gestational-age gestations: a prospective observational study](#)
Archives of Gynecology and Obstetrics

[Uterine contraction may not be an independent risk factor for spontaneous preterm birth before 35 weeks in women with cervical shortening](#)
International Journal of Gynecology & Obstetrics

[Utero-vaginal anastomosis in cases of cervical malformations: long-term follow-up and fertility challenges](#)
Archives of Gynecology and Obstetrics

[Validation of a novel birth simulator for impacted fetal head at cesarean section: An observational simulation study](#)

Acta Obstetrica et Gynecologica Scandinavica

[Weight gain trajectories patterns from pregnancy to early postpartum: identifying women at risk and timing to prevent weight regain](#)

BMC Pregnancy and Childbirth

[Which part of cervical length is predictive of preterm birth in women with cerclage?](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Women's perceptions of cardiovascular risk after preeclampsia: a qualitative study](#)

BMC Pregnancy and Childbirth

BMJ Best Practice

- **29 Nov 2022**Topic: [Urethritis](#)
- **22 Nov 2022**Topic: [Assessment of recurrent miscarriage](#)
- **22 Nov 2022**Topic: [Assessment of dyspareunia](#)

UptoDate

[What's new in obstetrics and gynecology](#)

Dose of LMW heparin for VTE prevention in pregnancy (November 2022)

Low molecular weight (LMW) heparin is used for venous thromboembolism (VTE) prophylaxis during pregnancy and postpartum, but optimal dosing has been unclear. The Highlow trial evaluated dosing in 1110 pregnant individuals with a prior VTE receiving LMW heparin for VTE prophylaxis from the first trimester to six weeks postpartum [16]. Compared with weight-adjusted intermediate dosing, those assigned to daily fixed low-dose (60 mg) LMW heparin had a slightly higher rate of VTE (1 percent in both groups antepartum, 2 versus 1 percent postpartum); the difference did not reach statistical significance. Bleeding risk was 4 percent in each group. While we continue to perform an individualized risk assessment for each patient, this trial provides reassurance for the efficacy of fixed low-dose LMH heparin, especially antenatally. (See "[Use of anticoagulants during pregnancy and postpartum](#)", section on 'LMW heparin'.)

Disparities in infant mortality after assisted reproductive technology (November 2022)

Existing racial and ethnic disparities in infant health outcomes appear to be increased for children conceived with assisted reproductive technology (ART). In a study in the United States comparing infant mortality in singleton births between 2016 and 2017, non-Hispanic Black children had double the risk of infant death compared with non-Hispanic White children when conceived naturally, but four times greater risk when conceived by ART [19]. Further study is warranted as these differences could not be accounted for by available maternal demographic data and underlying medical conditions alone. (See "[Assisted reproductive technology: Infant and child outcomes](#)", section on 'Stillbirth and perinatal mortality'.)

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

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Journals & table of contents alerts

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British Journal of Midwifery	European Journal of Obstetrics & Gynaecology
Midwifery	MIDRS
