

Maternity, Obstetrics & Gynaecology Evidence Update February 2023

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NICE

National Institute for
Health and Care Excellence

Most recent guidance published:

[Antenatal care QS22](#)

Other Guidance/Reports

[Non-immune hydrops fetalis: a practical guide for obstetricians](#)

The Obstetrician & Gynaecologist



Cochrane
Library

Systematic Reviews and Research Protocols

[Antenatal dietary supplementation with myo-inositol for preventing gestational diabetes](#)

Reviews from other sources

[Accurate diagnosis of isolated iliac vein thrombosis in third trimester pregnancy with clues on great saphenous vein reflux: a case report and review of literature](#)

BMC Pregnancy and Childbirth

[Acute coronary syndromes in pregnancy: a literature review](#)

The Obstetrician & Gynaecologist

[Efficacy of perineal massage during the second stage of labor for the prevention of perineal injury: a systematic review and meta-analysis](#)

International Journal of Gynecology & Obstetrics

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[Influence of different methods for calculating gestational age at birth on prematurity and small for gestational age proportions: a systematic review with meta-analysis](#)
BMC Pregnancy and Childbirth

[Interventions to increase uptake of influenza vaccination in pregnancy: A systematic review and meta-analysis](#)
International Journal of Gynecology & Obstetrics

[Management of levator ani avulsion: a systematic review and narrative synthesis](#)
Archives of Gynecology and Obstetrics

[McDonald versus Shirodkar cerclage technique in the prevention of preterm birth. A systematic review and meta-analysis.](#)
BJOG

[Missed or delayed diagnosis of anorectal malformations: a review of the literature, current training and practice in the UK in relation to detection via the NIPE programme](#)
ADC Fetal & Neonatal Edition

[Outcome after vaginal delivery of women with a previous medical history of surgically corrected anorectal malformations: a systematic review](#)
BMC Pregnancy and Childbirth

[Placenta accreta spectrum disorders clinical practice guidelines: A systematic review](#)
Journal of Obstetrics and Gynaecology Research

[Pregnancy complications and later life women's health](#)
Acta Obstetrica et Gynecologica Scandinavica

[Psoas abscess in pregnancy: a review of the literature and suggestion of minimally invasive treatment options](#)
Archives of Gynecology and Obstetrics

[Risk Factors for Late Preterm and Term Stillbirth: A Secondary Analysis of an Individual Participant Data Meta-analysis](#)
BJOG

[Successful Eisenmenger Syndrome-Targeted Drug Therapy in Pregnant Women: A Case Series and Literature Review](#)
BJOG

[The deviations of CD4 + T cells during peripheral blood and peritoneal fluid of endometriosis: a systematic review and meta-analysis](#)
Archives of Gynecology and Obstetrics

[The effectiveness of structured exercise intervention in gestational weight gain in pregnant women with overweight and obesity: A Systematic Review with Meta-Analysis](#)
International Journal of Gynecology & Obstetrics

[The role of hysteroscopy in fertility preservation in endometrial cancer and atypical endometrial hyperplasia: a semi-systematic literature review](#)
Archives of Gynecology and Obstetrics

This month's clinical questions are...

For continent women with pelvic organ prolapse (POP), how do different POP surgeries compare?

What are the advantages and disadvantages of the prophylactic human papillomavirus (HPV) vaccination in 15- to 26-year-old women?

Primary Research

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Gynaecology

[A novel technique of vagino-hysteroscopy using alginate gel interface: A proof of concept study](#)
International Journal of Gynecology & Obstetrics

[All-cause and cardiovascular mortality after hysterectomy and oophorectomy in a large cohort \(HUNT2\)](#)
Acta Obstetrica et Gynecologica Scandinavica

[Comparison efficacy of ultrasound-guided HIFU for adenomyosis-associated dysmenorrhea with different signal intensity on T2-weighted MR imaging](#)
Journal of Obstetrics and Gynaecology Research

[Comparison of 2-year follow-up outcomes of laparoscopic lateral suspension and sacrospinous fixation in apical compartment prolapse: an observational study](#)
Archives of Gynecology and Obstetrics

[Delayed postrenal failure due to progression of asymptomatic hydronephrosis following hysterectomy](#)
Journal of Obstetrics and Gynaecology Research

[Effect of anterior vaginal wall prolapse repair by modified transvaginal mesh surgery: a retrospective cohort study](#)
Archives of Gynecology and Obstetrics

[FIGO recommendations: Use of midurethral slings for the treatment of stress urinary incontinence](#)
International Journal of Gynecology & Obstetrics

[Immediate versus delayed urinary catheter removal following non-hysterectomy benign gynecological laparoscopy: a randomised trial](#)
BJOG

[Inflammatory invasion on human vaginal mucosa correlated with combined drug treatment and recurrence in recurrent vulvovaginal candidiasis](#)
Journal of Obstetrics and Gynaecology Research

[Investigation of predictive factors for the presence of voiding dysfunction after transvaginal mesh surgery—Can the flow curve shape on uroflowmetry be a predictor?](#)
Journal of Obstetrics and Gynaecology Research

[Low molecular weight heparin treatment reduced apoptosis and oxidative cytotoxicity in the thrombocytes of patients with recurrent pregnancy loss and thrombophilia: Involvements of TRPM2 and TRPV1 channels](#)

Journal of Obstetrics and Gynaecology Research

[Modeling the risk factors of women with very severe menopausal symptoms](#)

Journal of Obstetrics and Gynaecology Research

[New concepts on the etiology of endometriosis](#)

Journal of Obstetrics and Gynaecology Research

[Outcomes of Manchester procedure combined with high uterosacral ligament suspension for uterine prolapse](#)

Journal of Obstetrics and Gynaecology Research

[Prevalence of deep and ovarian endometriosis in women attending a general gynecology clinic: prospective cohort study](#)

Ultrasound in Obstetrics & Gynecology

[Quality of life and clinical factors in women with endometriosis, the role of dienogest vs EE/dienogest over time: a single-center study](#)

Archives of Gynecology and Obstetrics

[Relationship between urethral motion profile and parity assessed by translabial ultrasound imaging](#)

Archives of Gynecology and Obstetrics

[Surgical outcomes in patients aged 70 years and older following uterosacral ligament suspension: a comparative study](#)

Archives of Gynecology and Obstetrics

[The impact of diagnostic method on sense of *control and powerlessness* and *social support* in endometriosis patients—A retrospective cohort study](#)

Acta Obstetrica et Gynecologica Scandinavica

[The use of sealing hemostat patch \(HEMOPATCH®\) in laparotomic myomectomy: a prospective case-control study](#)

Archives of Gynecology and Obstetrics

[Whole body vibration versus supervised aerobic exercise on hormonal parameters and inflammatory status in females with premenstrual syndrome: A randomized controlled trial](#)

International Journal of Gynecology & Obstetrics

Maternity/Obstetrics

[Antenatal corticosteroids-to-delivery interval associates cord blood S100B levels](#)

Journal of Obstetrics and Gynaecology Research

[Anxiety and depression in pregnant women who have experienced a previous perinatal loss: a case-cohort study from Scandinavia](#)

BMC Pregnancy and Childbirth

[Arterial Stiffness for the Early Prediction of Preeclampsia Compared to Blood Pressure, Uterine Artery Doppler, and Angiogenic Biomarkers: a Prospective Cohort Study](#)

BJOG

[Association between duration of intrapartum oxytocin exposure and obstetric hemorrhage](#)

Archives of Gynecology and Obstetrics

[Azithromycin treatment for short cervix with or without amniotic fluid sludge: A matched cohort study](#)
ANZOG

[Breastfeeding difficulties in the first 6 weeks postpartum among mothers with chronic conditions: a latent class analysis](#)
BMC Pregnancy and Childbirth

[Cesarean section in the second stage of labor is associated with early-term and late preterm birth in subsequent pregnancies](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Clinical characteristics and predictors of impaired neonatal outcomes in chorioamnionitis in deliveries at term: A retrospective cross-sectional cohort study](#)
BJOG

[Clinical efficacy and re-pregnancy outcomes of patients with previous cesarean scar pregnancy treated with either high-intensity focused ultrasound or uterine artery embolization before ultrasound-guided dilatation and curettage: a retrospective cohort study](#)
BMC Pregnancy and Childbirth

[Clinical outcome in newborns of perinatally COVID-19 infected women](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Clinical utility of expanded non-invasive prenatal screening compared with chromosomal microarray in over 8000 pregnancies without major structural anomalies](#)
Ultrasound in Obstetrics & Gynecology

[Combined first trimester screening for trisomy 21: Assessment of excess risk in case of free \$\beta\$ -human chorionic gonadotrophin between 5 and 10 multiples of the median](#)
International Journal of Gynecology & Obstetrics

[Comparison between neonatal outcomes of labor and delivery with labor neuraxial analgesia and without analgesia: A propensity score-matched study](#)
Journal of Obstetrics and Gynaecology Research

[Comparison of pregnancy outcomes between IVF-ET pregnancies and spontaneous pregnancies in women of advanced maternal age](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Confined placental mosaicism: placental size and function evaluated by magnetic resonance imaging](#)
Ultrasound in Obstetrics & Gynecology

[Congenital hypotonia: systematic approach for the antenatal detection of an elusive condition](#)
Ultrasound in Obstetrics & Gynecology

[Effect of individual nutrition education on perceptions of nutritional iron supplementation, adherence to iron - folic acid intake and Hb levels among a cohort of anemic South Indian pregnant women](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Effectiveness of episiotomy to prevent OASIS in nulliparous women at term](#)
International Journal of Gynecology & Obstetrics

[Effectiveness of prophylactic carbetocin versus oxytocin following vaginal delivery for preventing severe postpartum hemorrhage](#)
International Journal of Gynecology & Obstetrics

Efficacy and safety of double balloon catheter and dinoprostone for labor induction in multipara at term

Archives of Gynecology and Obstetrics

Emotional and psychosexual wellbeing is influenced by ethnicity and birthplace in women and individuals with polycystic ovary syndrome in the UK and India

BJOG

Evaluation of Doppler indices (MCA & UA) and fetal outcomes: a retrospective case-control study in women with hypertensive disorders of pregnancy

The Journal of Maternal-Fetal & Neonatal Medicine

Evaluation of maternal serum SERPINC1, E-selectin, P-selectin, RBP4 and PP13 levels in pregnancies complicated with preeclampsia

The Journal of Maternal-Fetal & Neonatal Medicine

Evaluation of two rapid commercial assays for detection of *Streptococcus agalactiae* from vaginal samples

Acta Obstetrica et Gynecologica Scandinavica

Fetal heart biventricular diameter/foot length index as a diagnostic marker of fetal macrosomia in the second and third trimester of pregnancy

The Journal of Maternal-Fetal & Neonatal Medicine

Halo sign in fetal cytomegalovirus infection: cerebral imaging abnormalities and postmortem histopathology in cohort of 35 infected fetuses

Ultrasound in Obstetrics & Gynecology

HELLP syndrome, intracerebral hemorrhage, and hemophagocytic syndrome after cesarean section in a pregnant patient with severe preeclampsia: a case report

BMC Pregnancy and Childbirth

Impact of maternal late hospital arrival on adverse outcome of offspring affected by placental abruption: A regional multicenter nested case-control study in Japan

Journal of Obstetrics and Gynaecology Research

Incidence and ultrasonographic characteristics of cesarean scar niches after uterine closure by double-layer barbed suture: a prospective comparative study

International Journal of Gynecology & Obstetrics

Information about fetal movements and stillbirth trends: analysis of time series data

BJOG

Investigating antenatal pelvic floor training using a vaginal balloon device in Czech women

British Journal of Midwifery

Is it possible to reduce the rate of vertical transmission and improve perinatal outcomes by inclusion of remdesivir in treatment regimen of pregnant women with COVID-19?

BMC Pregnancy and Childbirth

Is mid-gestational uterine artery doppler still useful in a setting with routine first trimester preeclampsia screening? A Cohort study

BJOG

Lack of beneficiary effect of levothyroxine therapy of pregnant women with subclinical hypothyroidism in terms of neurodevelopment of their offspring

Archives of Gynecology and Obstetrics

Large maternal waist circumference in relation to height is associated with high glucose concentrations in an early-pregnancy oral glucose tolerance test—A population-based study

Acta Obstetrica et Gynecologica Scandinavica

Mifepristone priming and subsequent misoprostol for second trimester medical abortion in women with previous caesarean delivery

ANZOG

Neonatal morbidity associated with maternal Group B Streptococcal colonization in individuals undergoing planned cesarean delivery

The Journal of Maternal-Fetal & Neonatal Medicine

New onset MDA-5 positive dermatomyositis and massive perivillous fibrin deposition in third trimester of pregnancy: A case report

Journal of Obstetrics and Gynaecology Research

Novel qualitative and quantitative ultrasound markers to facilitate prenatal diagnosis of congenital duodenal obstruction

The Journal of Maternal-Fetal & Neonatal Medicine

Obstetric outcomes in Jehovah's Witnesses: case series over nine years in a London teaching hospital

Archives of Gynecology and Obstetrics

Obstetrical and neonatal outcomes among pregnancies complicated by hyperparathyroidism

The Journal of Maternal-Fetal & Neonatal Medicine

Oral glucose tolerance test and continuous glucose monitoring for gestational diabetes diagnosis: a survey study of women and health care professionals

Archives of Gynecology and Obstetrics

Outpatient management of preterm prelabor rupture of membranes before 34 weeks: Maternal and neonatal outcomes

International Journal of Gynecology & Obstetrics

Oxidative status in colostrum and mature breast milk related to gestational age and fetal growth

The Journal of Maternal-Fetal & Neonatal Medicine

Prediction of preterm birth by transvaginal ultrasound and magnetic resonance imaging measurements of cervical length in pregnancies complicated by twin-twin transfusion and treated with laser surgery

Ultrasound in Obstetrics & Gynecology

Predictive factors for successful external cephalic version with regional anesthesia

Journal of Obstetrics and Gynaecology Research

Predictors for histological chorioamnionitis among women with preterm prelabour rupture of membranes after dexamethasone treatment: a retrospective study

BJOG

Proteomic profile of extracellular vesicles in maternal plasma of women with fetal death

The Journal of Maternal-Fetal & Neonatal Medicine

Receiving uncertain results from prenatal Chromosomal Microarray Analysis: Women's decisions on continuation or termination of pregnancy

Prenatal Diagnosis

Recurrence of hypertensive disorders of pregnancy: results from a nationwide prospective cohort study (CONCEPTION)

BJOG

Safety of performing classical versus low transverse caesarean sections in extremely preterm and very preterm births: Maternal and neonatal complications
ANZOG

Severity of SARS-CoV-2 infection in pregnant women and their neonates during the Omicron period compared to the pre-Omicron period: A retrospective cohort study
Journal of Obstetrics and Gynaecology Research

Short-term outcome after the prenatal diagnosis of right aortic arch
Prenatal Diagnosis

Spontaneous bilateral tubal ectopic pregnancy preoperatively diagnosed by the ultrasound: a case report
BMC Pregnancy and Childbirth

Sustainability of Entonox in obstetrics: a qualitative study
British Journal of Midwifery

Students stand at the door: exploring views on professionalism in midwifery spaces
British Journal of Midwifery

Symptoms of postural orthostatic tachycardia syndrome in pregnancy: a cross-sectional, community-based survey.
BJOG

The impact of assisted reproductive technology on the risk of postpartum hemorrhage: Difference by the mode of delivery and embryo transfer
Journal of Obstetrics and Gynaecology Research

The levels of peripheral blood TNF- α , Decorin and neutrophils MAPK1 mRNA levels of patients with preeclampsia and their clinical significance
The Journal of Maternal-Fetal & Neonatal Medicine

The use of the double uterine segment tourniquet in obstetric hysterectomy for bleeding control in patients with placenta accreta spectrum
International Journal of Gynecology & Obstetrics

Time from insertion to expulsion of cervical ripening balloon in preterm versus term inductions of labor
Archives of Gynecology and Obstetrics

Tranexamic acid, as an adjunct to oxytocin prophylaxis, in the prevention of postpartum hemorrhage in women undergoing elective caesarean section: a single centre double-blind randomised controlled trial
BJOG

Transient osteoporosis of the hip in pregnancy – a case series
The Journal of Maternal-Fetal & Neonatal Medicine

Transvaginal Ultrasound Parameters to Evaluate Cervical Favorability and Predict the Outcome of Induction of Labor
International Journal of Gynecology & Obstetrics

Ultrasonographic evaluation of the fetal thymic-thoracic ratio in preeclampsia
The Journal of Maternal-Fetal & Neonatal Medicine

Umbilical cord blood gases sampling in low-risk vaginal deliveries as a predictor of adverse neonatal outcome
Archives of Gynecology and Obstetrics

Uterine tamponade in postpartum hemorrhage with handmade balloons: Comparison of manufacturing, infusion, and total times
International Journal of Gynecology & Obstetrics

Walking or jogging during pregnancy increases the success rate of VBAC: A multicenter, retrospective cohort study
International Journal of Gynecology & Obstetrics

Women and partners' experience of major postpartum haemorrhage – A qualitative study
BJOG

Women's preconception health in England: a report card based on cross-sectional analysis of national maternity services data 2018/19
BJOG

BMJ Best Practice

- **23 Feb 2023**Topic: [Cervical cancer](#)
 - **21 Feb 2023**Topic: [Urinary tract infections in women](#)
 - **17 Feb 2023**Topic: [Assessment of vaginal discharge](#)
 - **16 Feb 2023**Topic: [Rh incompatibility](#)
-

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

Prophylactic antibiotics before vaginal birth (February 2023)

Antibiotic prophylaxis to reduce the risk of postpartum maternal infection is standard practice before cesarean birth but not for laboring patients planning to give birth vaginally. However, in a randomized trial among nearly 30,000 patients ≥ 28 weeks of gestation in early labor planning a vaginal birth in seven low- and middle-income countries (LMIC), a single 2-gram oral dose of [azithromycin](#) reduced the composite risk of maternal sepsis or death compared with placebo (1.6 versus 2.4 percent) [15]. Neonatal sepsis and death rates were unchanged. Based on these findings, we would consider use of azithromycin prophylaxis in LMIC and clinical settings that mirror the trial settings, but not in other countries or settings. (See "[Labor and delivery: Management of the normal first stage](#)", section on '[Interventions unlikely to be beneficial](#)'.)

Romiplostim for ITP during pregnancy (February 2023)

Initial therapies for immune thrombocytopenia (ITP) during pregnancy (glucocorticoids and intravenous [immune globulin](#) [IVIG]) are usually effective and considered safe. In contrast, data on thrombopoietin receptor agonists (TPO-RAs) has been lacking. In a new study involving 92 pregnancies with [romiplostim](#) exposure, adverse pregnancy outcomes were similar to the general population [3]. In pregnant individuals, we generally reserve TPO-RAs for refractory ITP or for those who cannot take glucocorticoids or IVIG. Individuals who become pregnant while taking a TPO-RA should have an individualized risk assessment. (See "[Thrombocytopenia in pregnancy](#)", section on '[ITP therapies](#)'.)

Screening for alcohol use during pregnancy (February 2023)

Although universal screening for alcohol use during pregnancy is advised, evidence suggests that screening and follow-up care remain suboptimal. An analysis of 2017 and 2019 United States Behavioral Risk Factor Surveillance Systems data noted that approximately 20 percent of pregnant patients were not asked about alcohol consumption at their most recent visit and, of those who were asked and reported alcohol use, only 16 percent were advised to stop or reduce their consumption [4]. We advise continued education for both patients and clinicians about the risks of alcohol use during pregnancy and encourage universal screening for pregnant persons. (See "[Alcohol intake and pregnancy](#)", section on '[Screening during pregnancy](#)'.)

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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