

Maternity, Obstetrics & Gynaecology Evidence Update December 2022

Produced by the Clinical Librarian Service

The Clinical Librarian team endeavours to find as much of the latest evidence in your clinical area as possible, however make no claim as to the exhaustive nature of the update.

For more specific literature searches or training to find evidence please contact Clinical.Librarian@porthosp.nhs.uk or call extension 6042.

Alternatively you can contact one of the team directly:
Rebecca.Howes@portshosp.nhs.uk
Aaron.Razack@porthosp.nhs.uk

**Did you know? We also create a NICU and Paediatric Update.
Contact Rebecca to be added to the mailing list.**

BMJ Best Practice

Click here to access on site

Click here to access from
home with OpenAthens

BMJ Case Reports

Available
at your
institution

casereports.bmj.com



**Email us for the Institution
Code to submit your report**

U UpToDate®

Click here to start search
(Intranet only)

Or via OpenAthens



Would you like your own, tailored evidence updates? [Email the Clinical Librarian team](#) to receive bulletins every two weeks on the topics of your choice.

Contents [\(click title to view\)](#)

[NICE Guidance](#)

[Other Guidance](#)

[Cochrane Systematic Reviews](#)

[Systematic reviews from other sources](#)

[Cochrane clinical answers](#)

[Primary Research](#)

[Online Resources](#)

[Electronic Journals](#)

[BMJ Best Practice](#)

[UptoDate](#)

NICE

National Institute for
Health and Care Excellence

Most recent guidance published:

[Fetal monitoring in labour NG229](#)

[Intrapartum care for healthy women and babies CG190](#)

Other Guidance/Reports

[A guide to prenatal counselling regarding neurodevelopment in congenital heart disease
Prenatal Diagnosis](#)

[Key messages from the UK and Ireland Confidential Enquiries into Maternal Death and
Morbidity 2022
The Obstetrician & Gynaecologist](#)

[What may be the best menopausal hormone treatment?
Archives of Gynecology and Obstetrics](#)



Cochrane
Library

Systematic Reviews and Research Protocols

No new reviews

Reviews from other sources

[A case report of an endometriosis cyst at cesarean scar defect and review of literature
BMC Pregnancy and Childbirth](#)

[A systematic review of the impact of 7-keto-DHEA on body weight
Archives of Gynecology and Obstetrics](#)

[Back to top](#)

[Benefits of physical therapy in improving quality of life and pain associated with endometriosis: Systematic Review and Meta-analysis](#)

International Journal of Gynecology & Obstetrics

[Causes of preterm birth: Genetic factors in preterm birth and preterm infant phenotypes](#)

Journal of Obstetrics and Gynaecology Research

[Computerized cardiotocography analysis during labor – A state-of-the-art review](#)

Acta Obstetrica et Gynecologica Scandinavica

[Effectiveness and safety of prenatal valacyclovir for congenital cytomegalovirus infection: systematic review and meta-analysis](#)

Ultrasound in Obstetrics & Gynecology

[Efficacy and safety of oral and sublingual versus vaginal misoprostol for induction of labour: a systematic review and meta-analysis](#)

Archives of Gynecology and Obstetrics

[Factors affecting low fetal fraction in fetal screening with cell-free DNA in pregnant women: a systematic review and meta-analysis](#)

BMC Pregnancy and Childbirth

[Human papillomavirus-independent cervical cancer and its precursor lesions](#)

The Obstetrician & Gynaecologist

[Hyperammonemia in a pregnant woman with citrullinemia type I: a case report and literature review](#)

BMC Pregnancy and Childbirth

[Impact of the hemostatic approach after laparoscopic endometrioma excision on ovarian reserve: Systematic review and network meta-analysis of randomized controlled trials](#)

International Journal of Gynecology & Obstetrics

[Importance of the early diagnosis of incarcerated gravid uterus: Case report and systematic review](#)

International Journal of Gynecology & Obstetrics

[Insulin resistance in women with recurrent miscarriage: a systematic review and meta-analysis](#)

BMC Pregnancy and Childbirth

[Issues associated with possible implementation of Non-Invasive Prenatal Testing \(NIPT\) in first-tier screening: A rapid scoping review](#)

Prenatal Diagnosis

[Magnetic resonance imaging in late pregnancy to improve labour and delivery outcomes – a systematic literature review](#)

BMC Pregnancy and Childbirth

[Pitfalls of prenatal diagnosis associated with mosaicism](#)

The Obstetrician & Gynaecologist

[Pregnancy management and outcome after uterus transplantation](#)

Ultrasound in Obstetrics & Gynecology

[Publication trends and usefulness of research in hysteroscopic myomectomy for heavy menstrual bleeding: A review of the published literature](#)

International Journal of Gynecology & Obstetrics

[Safety, effectiveness, women's experience, and economic costs of outpatient induction in women with uncomplicated pregnancies: a systematic review and meta-analyses.](#)
International Journal of Gynecology & Obstetrics

[Scoping Review of Education for Women About Return to Driving After Abdominal Surgery](#)
JOGNN

[The incidence of post-traumatic stress disorder following traumatic childbirth: a systematic review and meta-analysis](#)
International Journal of Gynecology & Obstetrics

[Transvaginal ultrasound versus magnetic resonance imaging for diagnosing adenomyosis: A systematic review and head-to-head meta-analysis](#)
International Journal of Gynecology & Obstetrics

[Treatment for mild hypertension in pregnancy with different strategies: A systematic review and meta-analysis](#)
International Journal of Gynecology & Obstetrics

[Valvular heart disease in pregnancy](#)
The Obstetrician & Gynaecologist



This month's clinical questions are...

Archive question:

[How does antibiotic prophylaxis compare with placebo for women undergoing elective hysterectomy?](#)

Primary Research

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

Gynaecology

[A randomized controlled trial comparing combined medical and mechanical method for early mid-trimester abortion \(13–20 weeks\)](#)
International Journal of Gynecology & Obstetrics

[Cervical bleeding with cervical stabilization during IUD placement: allis clamp versus single-tooth tenaculum, a randomized control trial](#)
Archives of Gynecology and Obstetrics

[Clinical predictors of residual disease in hysterectomy following a loop electrosurgical excision procedure for cervical intraepithelial neoplasia grade 3](#)
BMC Pregnancy and Childbirth

[Comparing Vitamin B2 versus 5% Dextrose in Water for Optimal Ureteric Jet Visualization at the Time of Pelvic Reconstructive Surgery: A Randomized Controlled Trial](#)
BJOG

[Demographic and clinical characteristics determining patient-centeredness in endometriosis care](#)
Archives of Gynecology and Obstetrics

[Back to top](#)

[Effect of obesity on the time to a successful medical abortion with misoprostol in first-trimester missed abortion](#)

Archives of Gynecology and Obstetrics

[Effects on heavy menstrual bleeding and pregnancy of uterine artery embolization \(UAE\) or myomectomy for women with uterine fibroids wishing to avoid hysterectomy: The FEMME randomized controlled trial](#)

International Journal of Gynecology & Obstetrics

[Gynaecological care of women with chronic pelvic pain: Patient perspectives and care preferences](#)

BJOG

[High-risk HPV testing vs liquid-based cytology for cervical cancer screening among 25- to 30-year-old women: A historical cohort study](#)

Acta Obstetrica et Gynecologica Scandinavica

[Histological results of HPV genotyping from a colposcopy center](#)

Archives of Gynecology and Obstetrics

[Immediate surgical mesh-free implant-based breast reconstruction with fascial flap in breast cancer patients after mastectomy](#)

Archives of Gynecology and Obstetrics

[Is posterior compartment prolapse associated with anal incontinence?](#)

Ultrasound in Obstetrics & Gynecology

[Low-dose clomiphene citrate does not reduce implantation and live birth rates in otherwise unstimulated modified natural cycle IVF—retrospective cohort study](#)

Archives of Gynecology and Obstetrics

[Maintenance dienogest therapy following adjuvant gonadotropin-releasing hormone agonist treatment after uterus-sparing surgery in adenomyosis: A retrospective cohort study](#)

International Journal of Gynecology & Obstetrics

[New AMH cutoff values for warning of decreased ovarian response based on MCL characteristics in young women: a retrospective study using a propensity score-matching analysis](#)

BMC Pregnancy and Childbirth

[Preferences for deinfibulation \(opening\) surgery and female genital mutilation service provision: A qualitative study](#)

BJOG

[Sexual function in heterosexual couples undergoing assisted reproductive technology \(ART\) cycles with donor sperm](#)

Archives of Gynecology and Obstetrics

[Single-visit long-acting reversible contraception provision and pregnancy rates within 3 months](#)

International Journal of Gynecology & Obstetrics

[Sonographic findings and effect of sling procedures for stress urinary incontinence](#)

Ultrasound in Obstetrics & Gynecology

[Study of postoperative complications after the implementation of a multidisciplinary care pathway for patients with digestive endometriosis](#)

Archives of Gynecology and Obstetrics

[The clinical relevance of human papillomavirus negative status in unsatisfactory cervical cytology](#)
Archives of Gynecology and Obstetrics

[The diagnostic performance of antimullerian hormone for polycystic ovarian syndrome and polycystic ovarian morphology](#)
Archives of Gynecology and Obstetrics

[The effectiveness of single ultrasound-guided high-intensity focused ultrasound \(USgHIFU\) ablation in managing placenta accreta spectrum \(PAS\) disorder](#)
Archives of Gynecology and Obstetrics

[Three-dimensional vs two-dimensional endoscopic approach in urogynecology: A retrospective cohort study of laparoscopic sacrocolpopexy](#)
Journal of Obstetrics and Gynaecology Research

[Trigger point injections followed by immediate myofascial release in the treatment of pelvic floor tension myalgia](#)
Archives of Gynecology and Obstetrics

[Utilizations and characteristics of ovarian conservation at hysterectomy for cervical carcinoma in situ](#)
International Journal of Gynecology & Obstetrics

[Vaginal micronized progesterone versus the levonorgestrel-releasing intrauterine system for treatment of non-atypical endometrial hyperplasia: A randomized controlled trial](#)
International Journal of Gynecology & Obstetrics

Maternity/Obstetrics

[A critical analysis of a tripartite clinical decision involving a student, midwife and client](#)
British Journal of Midwifery

[A new modified obstetric early warning score for prognostication of severe maternal morbidity](#)
BMC Pregnancy and Childbirth

[A qualitative exploration of influences on eating behaviour throughout pregnancy](#)
BMC Pregnancy and Childbirth

[Adverse pregnancy and birth outcomes in sexual minority women from the National Survey of Family Growth](#)
BMC Pregnancy and Childbirth

[Analysis of the guidance and predictive value of uterine artery flow parameters in patients with recurrent spontaneous abortion](#)
Journal of Obstetrics and Gynaecology Research

[Antenatal prediction models for outcomes of extremely and very preterm infants based on machine learning](#)
Archives of Gynecology and Obstetrics

[Assessing the efficacy of magnesium oxide and riboflavin as preventative treatment of migraines in pregnancy](#)
Archives of Gynecology and Obstetrics

[Assessment of fetal cardiac morphology and functional changes in early-onset and late-onset fetal growth restriction](#)
International Journal of Gynecology & Obstetrics

[Atypicality index: avoiding false reassurance in prenatal screening](#)
Ultrasound in Obstetrics & Gynecology

[Buprenorphine-naloxone, buprenorphine, and methadone throughout pregnancy in maternal opioid use disorder](#)

Acta Obstetrica et Gynecologica Scandinavica

[Cervical change times during induction in nulliparas using vaginal or buccal misoprostol](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Challenges in scar pregnancy evolution: a Gordian Knot](#)

Archives of Gynecology and Obstetrics

[Clinical features at the time of non-hysteroscopic myomectomy before pregnancy, which affect adverse pregnancy outcomes: a retrospective cohort study](#)

BMC Pregnancy and Childbirth

[Clinical implications of uterine cultures obtained during urgent caesarean section](#)

ANZOG

[Clinical presentation, investigation, underlying causes, and subsequent pregnancy outcomes among different phenotypes of second trimester miscarriage](#)

Journal of Obstetrics and Gynaecology Research

[Clinical value and cost analysis of the sFit-1/PIGF ratio in addition to the spot urine protein/creatinine ratio in women with suspected pre-eclampsia: PREPARE cohort study](#)

BMC Pregnancy and Childbirth

[Dads in Distress: symptoms of depression and traumatic stress in fathers following poor fetal, neonatal, and maternal outcomes](#)

BMC Pregnancy and Childbirth

[Distribution of endotoxin in maternal and fetal body with intrahepatic cholestasis of pregnancy and its association with adverse fetal outcome](#)

BMC Pregnancy and Childbirth

[Do maternal albumin levels affect post-operative complications after cesarean delivery?](#)

BMC Pregnancy and Childbirth

[Does a short luteal phase correlate with an increased risk of miscarriage? A cohort study](#)

BMC Pregnancy and Childbirth

[Does an educational video for aneuploidy screening improve informed choice among pregnant women? A randomised controlled trial](#)

Prenatal Diagnosis

[Does lack of exposure to individual antidepressants at different points during pregnancy associate with reduced risk of adverse newborn outcomes?](#)

BMC Pregnancy and Childbirth

[Elevated HbA1c on universal prenatal screening is associated with decreased postpartum weight retention](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Evaluation of first trimester ultrasound fetal biometry ratios femur length/biparietal diameter, femur length/abdominal circumference and femur length/foot for the screening of skeletal dysplasia](#)

Prenatal Diagnosis

[Evaluation of independent risk factors associated with surgical site infections from caesarean section](#)

Archives of Gynecology and Obstetrics

[Exploring the acceptability and experience of receiving diabetes and pregnancy care via telehealth during the COVID-19 pandemic: a qualitative study](#)
BMC Pregnancy and Childbirth

[Expression of Concern: Carbetocin versus oxytocin for prevention of postpartum hemorrhage after vaginal delivery in high risk women](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Expression of Concern: Fetal middle cerebral and umbilical artery Doppler after 40 weeks gestational age](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Fetal Malpresentation Following Mechanical Labor Induction](#)
International Journal of Gynecology & Obstetrics

[Fetoscopic laser surgery for twin-to-twin transfusion syndrome in DCTA triplets compared to MCDA twins: collaborative study and literature review](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[First-trimester glycosylated hemoglobin \(HbA1c\) and maternal characteristics in the prediction of gestational diabetes: An observational cohort study](#)
Acta Obstetrica et Gynecologica Scandinavica

[Impact of middle cerebral artery pulsatility index on donor survival in twin-twin transfusion syndrome](#)
Prenatal Diagnosis

[Impact of placenta accreta spectrum \(PAS\) pathology on neonatal respiratory outcomes in cesarean hysterectomies](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Interactions Between Ultrasonographic Cervical Length and Placenta Accreta Spectrum on Severe Postpartum Hemorrhage in Women with Placenta Previa](#)
International Journal of Gynecology & Obstetrics

[Isolated oligohydramnios in previous pregnancy is a risk factor for a placental related disorder in subsequent delivery](#)
BMC Pregnancy and Childbirth

[Is the first-trimester combined screening result associated with the phenotype of Down syndrome? A population-based cohort study](#)
Prenatal Diagnosis

[Late preterm antenatal corticosteroids in singleton and twin gestations: a retrospective cohort study](#)
BMC Pregnancy and Childbirth

[Machine-learning-based prediction of pre-eclampsia using first-trimester maternal characteristics and biomarkers](#)
Ultrasound in Obstetrics & Gynecology

[Malformation of cortical development with abnormal cortex: early ultrasound diagnosis between 14 and 24 weeks of gestation](#)
Ultrasound in Obstetrics & Gynecology

[Maternal and neonatal outcomes following the introduction of the Fetal Pillow at a tertiary maternity hospital: A retrospective cohort study](#)
ANZOG

[Mental health symptom changes in pregnant individuals across the COVID-19 pandemic: a prospective longitudinal study](#)
BMC Pregnancy and Childbirth

[Midwife empathy and its association with the childbirth experience: a cross-sectional study](#)
BMC Pregnancy and Childbirth

[Minoritised ethnic women's experiences of inequities and discrimination in maternity services in North-West England: a mixed-methods study](#)
BMC Pregnancy and Childbirth

[New advances in prediction and surveillance of preeclampsia: role of machine learning approaches and remote monitoring](#)
Archives of Gynecology and Obstetrics

[Oral and general health conditions involved in periodontal status during pregnancy: a prospective cohort study](#)
Archives of Gynecology and Obstetrics

[Parental information about the option to apply for pregnancy termination after the detection of a congenital abnormality and factors influencing parental decision-making: a cohort study](#)
BMC Pregnancy and Childbirth

[Percentage of change and increment of the glucose level after a normal oral tolerance curve between 24 and 28 weeks of pregnancy](#)
Journal of Obstetrics and Gynaecology Research

[Perception of the impact of maternal weight on pregnancy outcomes in overweight and obese women](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Pertussis and influenza immunization: perceived attitude and decision of postpartum patients](#)
BMC Pregnancy and Childbirth

[Postoperative infections after non-elective cesarean section – a retrospective cohort study of prevalence and risk factors at a single center in Denmark administering prophylactic antibiotics after cord clamping](#)
BMC Pregnancy and Childbirth

[Postpartum Severe Acute Maternal Morbidity According to Gestational Age at Delivery in Twin Pregnancies: a Prospective Cohort Study](#)
International Journal of Gynecology & Obstetrics

[Preanesthetic ultrasonography assessment of inferior vena cava diameter in the supine position, left lateral tilt position, and with the left uterine displacement maneuver in full-term pregnant women: A randomized cross-over design study](#)
Journal of Obstetrics and Gynaecology Research

[Preterm and term pre-eclampsia: relative burdens of maternal and perinatal complications](#)
BJOG

[Psychological impact of simple scoring system for predicting early pregnancy outcome in pregnancy of uncertain viability: randomized controlled trial](#)
Ultrasound in Obstetrics & Gynecology

[Qualitative Study of the Experience of Caring for Women During Labor and Birth During the First Wave of the COVID-19 Pandemic](#)
JOGNN

[Recurrent miscarriage in a woman with congenital factor V deficiency: a case report](#)
BMC Pregnancy and Childbirth

[Risk of postpartum depressive symptoms is influenced by psychological burden related to the COVID-19 pandemic and dependent of individual stress coping](#)

Archives of Gynecology and Obstetrics

[Risk prediction models of gestational diabetes mellitus before 16 gestational weeks](#)

BMC Pregnancy and Childbirth

[Screening vs. no screening for preterm delivery in low-risk singleton pregnancies: comparison by propensity score analysis](#)

Archives of Gynecology and Obstetrics

[The acceptability of cervical electrical impedance spectroscopy within a multi-modal preterm birth screening package: a mixed methods study](#)

BMC Pregnancy and Childbirth

[The association between spontaneous preterm birth and maternal hypertension in the fifth decade of life: a retrospective case–control study](#)

BJOG

[The impact of the COVID-19 pandemic on physical activity and sedentary behavior during pregnancy: a prospective study](#)

BMC Pregnancy and Childbirth

[The importance of the user voice in clinical decision making: a reflective account](#)

British Journal of Midwifery

[Third trimester re-screening for gestational diabetes in morbidly obese women despite earlier negative test can reveal risks for obstetrical complications](#)

Journal of Obstetrics and Gynaecology Research

[Training on cultural competency for perinatal mental health peer supporters](#)

British Journal of Midwifery

[Women's views on moderate and low alcohol consumption: stages of the subjective transition from pregnancy to postpartum](#)

BMC Pregnancy and Childbirth

BMJ Best Practice

- **29 Dec 2022**Topic: [HELLP syndrome](#)
- **21 Dec 2022**Topic: [Assessment of abdominal pain in pregnancy](#)

UptoDate

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

First trimester treatment of malaria with artemisinin derivatives (December 2022)

Artemisinin combination therapy (ACT) has become the preferred treatment for uncomplicated malaria in most patients, but use for treatment of chloroquine-resistant malaria in the first trimester has been avoided because of limited safety data. However, in a 2022 meta-analysis of prospective data from >700 pregnancies with confirmed first trimester exposure to ACT and >1000 pregnancies with confirmed first trimester exposure to non-ACTs, adverse pregnancy outcomes occurred less often among those who received ACT, although the result was not statistically significant (5.7 versus 8.9 percent; adjusted hazard ratio [aHR] 0.71, 95% CI 0.49-1.03) [1]. [Artemether-lumefantrine](#) accounted for 70 percent of the ACT exposures and was associated with a lower risk of adverse pregnancy outcome compared with oral [quinine](#) (4.8 versus 9.2 percent; aHR 0.58, 95% CI 0.36-0.92). Based on these data, we now suggest

[Back to top](#)

artemether-lumefantrine for treatment of chloroquine-resistant malaria during the first trimester. (See "[Malaria in pregnancy: Prevention and treatment](#)", section on 'Drug safety'.)

Ibrexafungerp for recurrent vulvovaginal candidiasis (December 2022)

Treatment of recurrent vulvovaginal candidiasis (RVVC) has mainly consisted of long-term use of azole drugs such as [fluconazole](#). In a phase 3 trial evaluating extended treatment with either [ibrexafungerp](#), a novel triterpenoid antifungal, or placebo after initial fluconazole treatment in patients with RVVC, more patients receiving extended ibrexafungerp remained without evidence of RVVC four weeks from final dose (65 versus 53 percent). Based on this trial, the US Food and Drug Administration recently approved RVVC as a new indication for use of ibrexafungerp [16]. Although the duration of treatment benefit and efficacy against non-*Candida* species are not yet known, ibrexafungerp offers patients with RVVC another treatment option. (See "[Candida vulvovaginitis: Treatment](#)", section on 'Triterpenoid extended treatment'.)

Genomic endometrial testing does not improve live birth rates with IVF (December 2022)

Use of gene expression to evaluate endometrial receptivity and optimize timing of embryo transfer has been proposed to improve live birth rates during in vitro fertilization cycles, particularly for patients with prior unsuccessful implantations. However, a multicenter randomized trial evaluating outcomes of euploid blastocyst transfers based on endometrial receptivity testing or standard timing practices reported similar live birth rates for the two groups [17]. These findings add to the observational evidence that routine use of genomic endometrial receptivity testing does not improve live birth rates. (See "[In vitro fertilization: Procedure](#)", section on 'Endometrial preparation for frozen-thawed embryo transfer'.)

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

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

Archives of Gynecology and Obstetrics	BJOG : an International Journal of Obstetrics and Gynaecology
British Journal of Midwifery	European Journal of Obstetrics & Gynaecology
Midwifery	MIDRS