



## Obstetrics & Gynaecology Evidence Update (May 2023)

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### Reviews & Meta Analyses:

**Vacuum extraction or caesarean section in the second stage of labour: A systematic review** [OPEN ACCESS]  
Thierens, Stephanie et al, BJOG: An International Journal of Obstetrics & Gynaecology, May 2023 130(6), pp. 586-598 [\[ABSTRACT\]](#)

**Comparing aspirin 75-81 mg vs 150-162 mg for prevention of preterm preeclampsia: Systematic review and meta-analysis**  
Ghesquiere, L.;Guerby, P.;Marchant, I.;Kumar, N.;Zare, M.;Foisy, M. A.;Roberge, S. and Bujold, E American Journal of Obstetrics & Gynecology MFM, May 3 2023 pp. 101000 [\[ABSTRACT\]](#)

**Effect of cesarean section on the risk of autism spectrum disorders/attention deficit hyperactivity disorder in offspring: a meta-analysis** [NHS OPENATHENS LOGIN REQUIRED]  
Chen, Meiling et al, Archives of Gynecology & Obstetrics, May 23 2023 [\[ABSTRACT\]](#)

**The impact of antihypertensive treatment of mild to moderate hypertension during pregnancy on maternal and neonatal outcomes: An updated meta-analysis of randomized controlled trials** [OPEN ACCESS]  
Attar, Armin; Hosseinpour, Alireza and Moghadami, Mana. Clinical Cardiology, May 2023 46(5), pp. 467-476 [\[ABSTRACT\]](#)

**Self-collected versus health-care professional taken swab for identification of vaginal-rectal colonisation with group B streptococcus in late pregnancy: a systematic review** [OPEN ACCESS]  
Odubamowo, Kenny et al European Journal of Obstetrics, Gynecology, & Reproductive Biology, May 22 2023 286, pp. 95-101 [\[ABSTRACT\]](#)

**Transfer of anticonvulsants and lithium into amniotic fluid, umbilical cord blood & breast milk: A systematic review & combined analysis** [OPEN ACCESS]  
Schmidt, C. T et al. Progress in Neuro-Psychopharmacology and Biological Psychiatry, June 2023 124 [\[ABSTRACT\]](#)

## Cohort Studies & Randomised Trials:

### RCTS:

Effect of sterile vs clean gloves for cervical checks in labor on maternal infection at term: a randomized trial  
Morshedi, B et al, American Journal of Obstetrics and Gynecology MFM, March 2023 5(6) [\[ABSTRACT\]](#)

Treatment of Gestational Diabetes Mellitus Diagnosed Early in Pregnancy [NHS OPENATHENS LOGIN REQUIRED]  
Simmons, David et al N Engl J Med, 5 May 2023 [\[ABSTRACT\]](#)

The BISTIM study: a randomized controlled trial comparing dual ovarian stimulation (duostim) with two conventional ovarian stimulations in poor ovarian responders undergoing IVF [OPEN ACCESS]  
Massin, N et al Publication Date: 2023, Human Reproduction, May 2 38(5), pp. 927-937 [\[ABSTRACT\]](#)

### Cohort Studies:

Does induction of labor at 41 weeks (early, mid or late) improve birth outcomes in low-risk pregnancy? A nationwide propensity score-matched study [OPEN ACCESS]  
Ravelli, Anita C.J., Acta Obstetrica Et Gynecologica Scandinavica, May 2023 102(5), pp. 612-625 [\[ABSTRACT\]](#)

Gestational diabetes mellitus and time in active labor: A population-based cohort study [OPEN ACCESS]  
Nevander, S.;Carlhall, S.;Kallen, K.;Lilliecreutz, C. and Blomberg, M., Acta Obstetrica Et Gynecologica Scandinavica, 12 May 2023 [\[ABSTRACT\]](#)

Endometriosis is associated with pregnancy loss: a nationwide historical cohort study  
Boje, Amalie et al, Fertility & Sterility, May 2023 119(5), pp. 826-835 [\[ABSTRACT\]](#)

Multiple sclerosis, disease-modifying drugs and risk for adverse perinatal and pregnancy outcomes: Results from a population-based cohort study [OPEN ACCESS]  
Fink, Katharina et al; Multiple Sclerosis, May 2023 29(6), pp. 731-740 [\[ABSTRACT\]](#)

### Obstetric Ultrasound:

The impact of a universal late third-trimester scan for fetal growth restriction on perinatal outcomes in term singleton births: A prospective cohort study [NHS OPENATHENS LOGIN REQUIRED]  
Aderoba, Adeniyi et al, BJOG: An International Journal of Obstetrics & Gynaecology, June 2023 130(7), pp. 791-802 [\[ABSTRACT\]](#)

Diagnostic accuracy of ultrasound in the diagnosis of Placenta accreta spectrum: systematic review and meta-analysis [OPEN ACCESS]  
Maged, A. M et al, BMC Pregnancy and Childbirth, May 15 2023 23(1):354 [\[ABSTRACT\]](#)

Application and Progress of Artificial Intelligence in Fetal Ultrasound [OPEN ACCESS]  
Xiao, S et al, Journal of Clinical Medicine May 2023 12(9) [\[ABSTRACT\]](#)

## Midwifery:

[Tender loving care following recurrent miscarriages: a review of a dedicated antenatal clinic](#) [NHS OPENATHENS LOGIN REQUIRED]

Cullen, Sarah et al, British Journal of Midwifery, 2023 31(5), pp. 248-251

[Midwives' and women's understanding of cytomegalovirus infection during pregnancy](#) [NHS OPENATHENS LOGIN]

Kerr, Ashling and Hughes, Clare British Journal of Midwifery, 2023 31(5), pp. 268-276

[Interventions to improve enablers and/or overcome barriers to seeking care during pregnancy, birthing and postnatal period for women living with vulnerabilities in high-income countries: A systematic review and meta-analysis](#) [OPEN ACCESS]

Bowden, Emily R.;Chang, Anne B. and McCallum, Gabrielle B, Midwifery, May 2023 121, pp. 103674 [\[ABSTRACT\]](#)

[The barriers and needs of transgender men in pregnancy and childbirth: A qualitative interview study](#) [OPEN ACCESS]

van Amesfoort, J. E.et al, Midwifery, May 2023 120, pp. 103620 [\[ABSTRACT\]](#)

## Covid-19:

[Association between SARS-CoV-2 vaccination and healthcare contacts for menstrual disturbance and bleeding in women before and after menopause: nationwide, register based cohort study](#) [OPEN ACCESS]

Ljung, Rickard et al, BMJ , 3 May 2023 pp. e074778 [\[ABSTRACT\]](#)

[Covid-19 vaccination and postmenopausal bleeding](#) [OPEN ACCESS]

Taylor, Angela and Male, Victoria, BMJ, 17 May 2023 381, pp. p1122

[COVID-19 Booster Vaccination in Early Pregnancy and Surveillance for Spontaneous Abortion](#) [OPEN ACCESS]

Kharbanda, Elyse O et al, JAMA Network Open, 19 May 2023 6(5), pp. e2314350 [\[ABSTRACT\]](#)

[The risk of miscarriage following COVID-19 vaccination: a systematic review and meta-analysis](#) [OPEN ACCESS]

Rimmer, Michael P.;Teh, Jhia J.;Mackenzie, Scott C. and Al Wattar, Bassel H., Human Reproduction, 2 May 2023 38(5), pp. 840-852 [\[ABSTRACT\]](#)

[Medically Attended Acute Adverse Events in Pregnant People After Coronavirus Disease 2019 \(COVID-19\) Booster Vaccination](#) [OPEN ACCESS]

DeSilva, Malini et al, Obstetrics & Gynecology, 11 May 2023 [\[ABSTRACT\]](#)

## New & Updated Cochrane Systematic Reviews

### Pregnancy & Childbirth:

[Interventions from pregnancy to two years after birth for parents experiencing complex post-traumatic stress disorder and/or with childhood experience of maltreatment](#)

Kimberley A Jones; Isabella Freijah; Sue E Brennan; Joanne M McKenzie; Tess M Bright; Renee Fiolet; Ilias Kamitsis; Carol Reid; Elise Davis; Shawana Andrews; Maria Muzik; Leonie Segal; Helen Herrman; Catherine Chamberlain

[Cephalic version by moxibustion for breech presentation](#)

Meaghan E Coyle; Caroline Smith; Brian Peat

### Reproductive & Sexual Health:

[Risk of thromboembolism in patients with COVID-19 who are using hormonal contraception](#)

Shaalini Ramanadhan; Katie Hansen; Jillian T Henderson; Megan A Cohen; Robin Paynter; Alison Edelman

## National Institute for Health Research Alerts:

[Assisted vaginal births: women who tear or have a surgical cut need prompt antibiotics](#) (3 May 2023)

This alert is based on: HUMPHREYS, A.B.C., LINSELL, L. and KNIGHT, M., 2023. Factors associated with infection after operative vaginal birth-a secondary analysis of a randomized controlled trial of prophylactic antibiotics for the prevention of infection following operative vaginal birth. *American Journal of Obstetrics & Gynecology*, 228(3), pp. 328.e1-328.e11 [\[OPEN ACCESS\]](#)

[Black women around the world have worse pregnancy outcomes](#) (25 May 2023)

This alert is based on: SHEIKH, J et al 2022. Effects of race and ethnicity on perinatal outcomes in high-income and upper-middle-income countries: an individual participant data meta-analysis of 2 198 655 pregnancies. *The Lancet*, 400(10368), pp. 2049-2062 [\[OPEN ACCESS\]](#)

[Midwives need support to involve women in decision-making during labour](#) (25 May 2023)

This alert is based on: ANNANDALE, E., BASTON, H., BEYNON-JONES, S., BRIERLEY-JONES, L., BRODRICK, A., CHAPPELL, P., GREEN, J., JACKSON, C., LAND, V. and STACEY, T., 2022. Shared decision-making during childbirth in maternity units: the VIP mixed-methods study. *Health & Social Care Delivery Research (HSDR)*, 10(36), pp. v-159. [\[OPEN ACCESS\]](#)

[NHS Quality Improvement programme reduces the risk of cerebral palsy in newborns](#) (30 May 2023)

This alert is based on: HANNAH B EDWARDS et al 2023. National PReCePT Programme: a before-and-after evaluation of the implementation of a national quality improvement programme to increase the uptake of magnesium sulfate in preterm deliveries. *Archives of Disease in Childhood - Fetal and Neonatal Edition*, , pp. fetalneonatal-324579 [\[NHS OPENATHENS LOGIN REQUIRED\]](#)

## Practice Guidelines & Consensus:

**2023 HRS Expert Consensus Statement on the Management of Arrhythmias During Pregnancy** [OPEN ACCESS]  
Joglar, Jose et al, Heart Rhythm, May 16 2023 [\[ABSTRACT\]](#)

**Australian inflammatory bowel disease consensus statements for preconception, pregnancy and breast feeding** [NHS OPENATHENS LOGIN REQUIRED]

Laube, Robyn et al. Gut, June 2023 72(6), pp. 1040-1053 [\[ABSTRACT\]](#)

**Consensus recommendations for the assessment and treatment of perinatal obsessive-compulsive disorder (OCD): A Delphi study** [OPEN ACCESS]

Mulcahy, M.; Long, C.; Morrow, T.; Galbally, M.; Rees, C. and Anderson, R. Archives of Women's Mental Health 2023 Jun;26(3):389-399 [\[ABSTRACT\]](#)

**High-intensity exercise during pregnancy – A position paper by the European Board and College of Obstetrics and Gynaecology (EBCOG)** [OPEN ACCESS]

Harmsworth, Marlon; Savona-Ventura, Charles and Mahmood, Tahir, European Journal of Obstetrics & Gynecology and Reproductive Biology, 30 March 2023 285, pp. 56-58 [\[ABSTRACT\]](#)

**Prevention and Therapy of Preterm Birth. Guideline of the DGGG, OEGGG and SGGG (S2k-Level, AWMF Registry Number 015/025, September 2022) - Part 1 with Recommendations on the Epidemiology, Etiology, Prediction, Primary and Secondary Prevention of Preterm Birth** [OPEN ACCESS]

Berger, Richard et al, Geburtshilfe Und Frauenheilkunde, May 2023 83(5), pp. 547-568 [\[ABSTRACT\]](#)

**Prevention and Therapy of Preterm Birth. Guideline of the DGGG, OEGGG and SGGG (S2k Level, AWMF Registry Number 015/025, September 2022) - Part 2 with Recommendations on the Tertiary Prevention of Preterm Birth and on the Management of Preterm Premature Rupture of Membranes** [OPEN ACCESS]

Berger, Richard, et al Geburtshilfe Und Frauenheilkunde. May 2023 83(5), pp. 569-601 [\[ABSTRACT\]](#)

**Recommendations of the AGG (Working Group for Obstetrics, Department of Maternal Diseases) on How to Treat Thyroid Function Disorders in Pregnancy** [OPEN ACCESS]

Hamza, Amr et al Geburtshilfe Und Frauenheilkunde, May 2023 83(5), pp. 504-516 [\[ABSTRACT\]](#)

## News, Briefings & Reports:

### News:

**New mums missing out on mental health services, report finds** – BBC (3 May)

**UK guidelines for treating multiple sclerosis symptoms during pregnancy** – Multiple Sclerosis Trust (15 May)

**RCM welcomes new research strategy but cautions it must be backed up with resources** – RCM (25 May)

## Reports:

[Saving babies lives 2023: a report on progress](#) – Sands and Tommy's Policy Unit

[Specialist perinatal mental health care in the UK 2023](#) – Maternal Mental Health Alliance

[Maternity services: evidence to support improvement](#) – NIHR

## DynaMed Plus Topic Updates: (NHS OPENATHENS LOGIN required to access DynaMed topics)

**Abdominal trauma in pregnancy:** Among adults who experience blunt abdominal trauma after 23 weeks gestation, abdominal pain or tenderness or vaginal bleeding may not be associated with increased preterm delivery ([J Matern Fetal Neonatal Med 2022 Dec](#))

**Breech presentation:** Addition of moxibustion to usual care may reduce noncephalic presentation at birth in patients with singleton breech presentation ([Cochrane Database Syst Rev 2023 May 9](#))

**Caesarean section:** Tranexamic acid immediately after umbilical cord clamping may not reduce risk of maternal death and blood transfusion in adults having cesarean delivery ([N Engl J Med 2023 Apr 13](#))

Scheduled IV ketorolac for 6 doses reduces postoperative opioid use at 72 hours compared to 2 doses in patients  $\geq 16$  years old having cesarean delivery ([Obstet Gynecol 2023 Apr 1](#))

Among adults with full-term singleton pregnancy having elective cesarean delivery with epidural anesthesia, esketamine IV before incision improves sedation but may not decrease pain immediately after delivery ([JAMA Netw Open 2023 Apr 3](#))

**Cervical ripening for labor induction with unfavourable cervix:** Addition of single-dose propranolol orally to vaginal misoprostol may shorten time to delivery but may not increase rate of vaginal delivery in primiparous persons with singleton pregnancy at full term in cephalic presentation ([BMC Pregnancy Childbirth 2023 Apr 4](#))

**Covid-19 in pregnant patients:** mRNA COVID-19 vaccine booster dose in pregnancy may increase risk of medically attended acute malaise or fatigue at 7 days and lymphadenopathy or lymphadenitis at 21 and 42 days ([Obstet Gynecol 2023 May 11 early online](#))

**Hysterectomy:** Bilateral salpingo-oophorectomy during benign hysterectomy associated with increased mortality and increased risks of cancer and cardiovascular disease in adults age  $\geq 20$  years ([Ann Intern Med 2023 Apr 18 early online](#))

**Menopause:** Fezolinetant 45 mg once daily may reduce frequency and severity of daily vasomotor symptoms in patients  $\leq 65$  years old with moderate-severe vasomotor symptoms due to menopause ([J Clin Endocrinol Metab 2023 Feb 3 early online](#))

**Treatment of infertility in women:** Duostim protocol for ovarian stimulation may not increase oocyte retrieval or live births compared to single stimulation in 2 consecutive cycles in patients with poor ovarian response having IVF ([Hum Reprod 2023 May 2](#))

Prednisone starting at onset of endometrial preparation for frozen-thawed embryo transfer with good-quality blastocyst or embryo does not improve live birth rate in patients with recurrent implantation failure ([JAMA 2023 May 2](#))

Among couples with unexplained or mild male subfertility, IUI performed within 90 minutes of semen processing may decrease likelihood of ongoing pregnancy compared to IUI performed at  $\geq 180$  minutes of semen processing ([Hum Reprod 2023 May 2](#))

**Trial of labour after caesarean section (TOLAC):** Higher intrauterine pressure, greater cervical dilation, and younger gestational age at birth associated with increased likelihood of successful VBAC in patients with 1-2 prior cesarean deliveries ([BJOG 2022 May](#))

**Vasa previa:** Combination of transabdominal and transvaginal color Doppler ultrasound has good predictive value for diagnosing vasa previa with velamentous cord insertion in adults with singleton pregnancy at 22-36 weeks gestation ([J Environ Public Health 2022](#))

**Comments or Suggestions? Please contact the Library & Knowledge Service:**

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