



## Obstetrics & Gynaecology Evidence Update

### (April 2023)

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#### Reviews & Meta Analyses:

The 2017 American College of Cardiology and American Heart Association blood pressure categories in the second half of pregnancy-a systematic review of their association with adverse pregnancy outcomes [OPEN ACCESS]

Slade, L. J. et al American Journal of Obstetrics and Gynecology, January 2023 [\[ABSTRACT\]](#)

Treatments and outcomes in high-risk gestational trophoblastic neoplasia: A systematic review and meta-analysis [NHS OPENATHENS LOGIN REQUIRED]

Albright, Benjamin B et al A., BJOG: An International Journal of Obstetrics & Gynaecology, April 2023 130(5), pp. 443-453 [\[ABSTRACT\]](#)

New insights on labor progression: a systematic review [OPEN ACCESS]

Xiaoqing He, MM et al, American Journal of Obstetrics and Gynecology, 16 March 2023 [\[ABSTRACT\]](#)

Hydroxychloroquine significantly decreases the risk of preeclampsia in pregnant women with autoimmune disorders: a systematic review and meta-analysis [NHS OPENATHENS LOGIN REQUIRED]

Liu, Yingnan; Wei, Yumei; Zhang, Yueyi and Yang, Huixia, Clinical Rheumatology, May 2023 42(5), pp. 1223-1235 [\[ABSTRACT\]](#)

Is blood pressure 120-139/80-89 mmHg before 20 weeks a risk factor for hypertensive disorders of pregnancy? A meta-analysis

Sisti, Giovanni European Journal of Obstetrics, Gynecology, & Reproductive Biology, May 2023 284, pp. 66-75 [\[ABSTRACT\]](#)

Postpartum relapse risk in multiple sclerosis: A systematic review and meta-analysis [NHS OPENATHENS LOGIN REQUIRED]

Schubert, C.;Steinberg et al, Journal of Neurology, Neurosurgery and Psychiatry, February 2023 [\[ABSTRACT\]](#)

**The risk of congenital heart defects associated with corticosteroids use during the first trimester of pregnancy: a systematic review and meta-analysis** [NHS OPENATHENS LOGIN REQUIRED]

Wei, Jiehua;Xia, Fan;Miao, Junxiang;Wang, Tingting;Chen, Lizhang and Yan, Xuemei, European Journal of Clinical Pharmacology, Jan 79(1), pp. 1-11 [\[ABSTRACT\]](#)

**Risk of Recurrence and Reintervention After Uterine-Sparing Interventions for Symptomatic Adenomyosis: A Systematic Review and Meta-Analysis** [OPEN ACCESS]

Liu, Lu; Tian, Hongyan; Lin, Dongmei; Zhao, Liang; Wang, Hui and Hao, Yi: Obstetrics & Gynecology, April 1 2023 141(4), pp. 711-723 [\[ABSTRACT\]](#)

## **Cohort Studies & Randomised Trials:**

### **RCTS:**

**Fezolinetant for treatment of moderate-to-severe vasomotor symptoms associated with menopause (SKYLIGHT 1): a phase 3 randomised controlled study** [AVAILABLE FROM THE LIBRARY]

Lederman, Samuel et al, Lancet, 1 April 2023 401(10382), pp. 1091-1102 [\[ABSTRACT\]](#)

**Clinical outcomes of uninterrupted embryo culture with or without time-lapse-based embryo selection versus interrupted standard culture (SelectIMO): a three-armed, multicentre, double-blind, randomised controlled trial** [AVAILABLE FROM THE LIBRARY]

Kieslinger, D. C et al, Lancet, 29 April 2023 401(10386), pp. 1438-1446 [\[ABSTRACT\]](#)

**Insulin degludec versus insulin detemir, both in combination with insulin aspart, in the treatment of pregnant women with type 1 diabetes (EXPECT): an open-label, multinational, randomised, controlled, non-inferiority trial**

Mathiesen, E. R et al. The Lancet Diabetes and Endocrinology, February 2023 11(2), pp. 86-95 [\[ABSTRACT\]](#)

**Tranexamic Acid to Prevent Obstetrical Hemorrhage after Cesarean Delivery** [NHS OPENATHENS LOGIN REQUIRED]

Pacheco, Luis D et al. N Engl J Med 388(15), 13 April 2023 pp. 1365-1375 [\[ABSTRACT\]](#)

**Bivalent Prefusion F Vaccine in Pregnancy to Prevent RSV Illness in Infants** [NHS OPENATHENS LOGIN REQUIRED]

Kampmann, Beate, et al, N Engl J Med, April 5 2023 [\[ABSTRACT\]](#)

**Operative Hysteroscopy vs Vacuum Aspiration for Incomplete Spontaneous Abortion: A Randomized Clinical Trial**

Huchon, C et al, JAMA, April 2023 329(14), pp. 1197-1205 [\[ABSTRACT\]](#)

### **Cohort Studies:**

**Cesarean section in the second stage of labor is associated with early-term and late preterm birth in subsequent pregnancies** [OPEN ACCESS]

Sapir, Aviad ;Friedrich, Lior; Gat, Roni and Erez, Offer, Journal of Maternal-Fetal & Neonatal Medicine, 26 February 2023 36(1), pp. 2175658 [\[ABSTRACT\]](#)

**Third trimester re-screening for gestational diabetes in morbidly obese women despite earlier negative test can reveal risks for obstetrical complications** [NHS OPENATHENS LOGIN REQUIRED]

Abu Shqara, R.;Or, S.; Nakhleh Francis, Y.;Wiener, Y.;Lowenstein, L. and Wolf, M. F., Journal of Obstetrics and Gynaecology Research, March 2023 49(3), pp. 852-862 [\[ABSTRACT\]](#)

**Prolonged pregnancy and stillbirth among women with overweight or obesity - a population-based study in Sweden including 64,632 women** [OPEN ACCESS]

Akselsson, Anna; Rossen, Jenny; Storck-Lindholm, Elisabeth and Radestad, Ingela, BMC Pregnancy & Childbirth, 12 January 2023 23(1), pp. 21 [\[ABSTRACT\]](#)

**Latent phase duration and associated outcomes: a contemporary, population-based observational study** [OPEN ACCESS]

Tilden, E. L. et al, American Journal of Obstetrics and Gynecology, 15 March 2023 [\[ABSTRACT\]](#)

**Glucose intolerance in pregnancy and risk of early-onset type 2 diabetes: a population-based cohort study**

Bardugo, A et al , The Lancet Diabetes & Endocrinology, 31 Mar 2023 [\[ABSTRACT\]](#)

## **Obstetric Ultrasound:**

**Impact of point-of-care ultrasound and routine third trimester ultrasound on undiagnosed breech presentation and perinatal outcomes: An observational multicentre cohort study** [OPEN ACCESS]

Knights, Samantha; Prasad, Smriti; Kalafat, Erkan; Dadali, Anahita; Sizer, Pam; Harlow, Françoise and Khalil, Asma, PLoS Medicine / Public Library of Science, April 2023 20(4), pp. e1004192 [\[ABSTRACT\]](#)

**"It has been the most difficult time in my career": A qualitative exploration of UK obstetric sonographers' experiences during the COVID-19 pandemic** [OPEN ACCESS]

Skelton, E.; Smith, A.; Harrison, G.; Rutherford, M.; Ayers, S. and Malamateniou, C. Radiography, 21 March 2023 29(3), pp. 582-589 [\[ABSTRACT\]](#)

**Reference ranges of uterine artery pulsatility index from first to third trimester based on serial Doppler measurements: longitudinal cohort study** [OPEN ACCESS]

Cavoretto, P. I.; Salmeri, N.; Candiani, M. and Farina, A. Ultrasound in Obstetrics & Gynecology : The Official Journal of the International Society of Ultrasound in Obstetrics and Gynecology, April 2023 61(4), pp. 474-480 [\[ABSTRACT\]](#)

## **Midwifery:**

**How does social media influence expectations, decision making and experiences of childbirth?** [NHS OPENATHENS LOGIN REQUIRED]

Lawrence, Victoria; Richardson, Sonia and Philp, Lauren: British Journal of Midwifery, April 2023 31(4), pp. 210-219

**Peripartum severe acute maternal morbidity in low-risk women: A population-based study**

AA, Chantry, P, Peretout, C, Chiesa-Dubruille, C, Crenn-Hébert, F, Vendittelli, C, Le Ray and C, Deneux-Tharaux, Midwifery April 2023, 119, pp.103602. [\[ABSTRACT\]](#)

**Optimising maternity care for a subsequent pregnancy after a psychologically traumatic birth: A scoping review.**

Pidd, D.; Newton, M.; Wilson, I. and East, C., Women and Birth, 4 April 2023 [\[ABSTRACT\]](#)

## Practice Update:

[Recognition and initial management of ovarian torsion](#) [NHS OPENATHENS LOGIN REQUIRED]

Ashmore, Ayisha A.; Blackstock, Sarah; Kenny, Conor and Ismail, Aemn, BMJ 28 April 2023 381, pp. e074514

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

Khairudin, Delima; Alfirevic, Zarko; Mone, Fionnuala and Navaratnam, Kate, The Obstetrician & Gynaecologist, April 2023 25(2), pp. 110-120

[Monkeypox disease and pregnancy. Where are we today? A review of literature](#) [OPEN ACCESS]

Kopanou Taliaka, P.; Tsantes, A. G.; Konstantinidi, A.; Liakou, P.; Tavoulari, E. F.; Piovani, D.; Bonovas, S.; Iacovidou, N.; Tsantes, A. E. and Sokou, R., Journal of Perinatology, April 2023 43(4), pp. 417-423 [\[ABSTRACT\]](#)

## New & Updated Cochrane Systematic Reviews

### Pregnancy & Childbirth:

[Mechanical methods for induction of labour](#)

Marieke DT de Vaan; Mieke LG ten Eikelder; Mara Jozeiaz; Kirsten R Palmer; Miranda Davies-Tuck; Kitty WM Bloemenkamp; Ben Willem J Mol; Michel Boulvain

### Gynaecology:

[Angiogenesis inhibitors for the treatment of epithelial ovarian cancer](#)

Kezia Gaitskell; Ewelina Rogozinska; Sarah Platt; Yifan Chen; Mohamed Abd El Aziz; Abigail Tattersall; Jo Morrison

## Cochrane Clinical Answers:

[For pregnant women with a singleton pregnancy who are at risk of preterm birth, how does insertion of a cervical pessary compare with vaginal progesterone?](#)

[How do levonorgestrel intrauterine devices \(IUDs\) compare with copper IUDs for emergency contraception?](#)

[How does letrozole compare with other agents for subfertile women with polycystic ovary syndrome \(PCOS\)?](#)

## **Practice Guidelines & Consensus:**

**Hypertension in pregnancy: diagnosis and management (updated 17 April) – NICE**

**Syphilis: managing infection in pregnancy – NHS England**

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

Laube, R et al Gut, March 2023 [ABSTRACT]

**British Society for Rheumatology guideline on prescribing drugs in pregnancy and breastfeeding: immunomodulatory anti-rheumatic drugs and corticosteroids [OPEN ACCESS]**

Russell, Mark D, et al, Rheumatology, April 3 2023 62(4), pp. e48-e88 [ABSTRACT]

**British Society for Rheumatology guideline on prescribing drugs in pregnancy and breastfeeding: comorbidity medications used in rheumatology practice [OPEN ACCESS]**

Schreiber, Karen et al, Rheumatology 62(4) April 3 2023, pp. e89-e104 [ABSTRACT]

**Consensus Statement No. 434: Simulation in Obstetrics and Gynaecology**

Sansregret, Andree et al, Journal of Obstetrics & Gynaecology Canada: JOGC, March 2023 45(3), pp. 214-226.e1 [ABSTRACT]

**Indicated Opioids in Pregnancy: Guidance on Providing Comprehensive Care**

Cleary, Erin M.;Smid, Marcela C.;Bokat, Christina;Costantine, Maged M. and Rood, Kara M., American Journal of Perinatology, April 2023 40(6), pp. 602-611 [ABSTRACT]

**Diabetes mellitus and pregnancy. Updated clinical practice guideline 2021. Executive summary**

Goya, Maria and Codina, Merce, : Endocrinologia Diabetes Y Nutricion, March 2023 70(Suppl 1), pp. 1-6 [ABSTRACT]

**Canadian Pediatric & Perinatal HIV/AIDS Research Group consensus recommendations for infant feeding in the HIV context [OPEN ACCESS]**

Khan, Sarah et al, Journal of the Association of Medical Microbiology and Infectious Disease, March 2023 8(1), pp. 7-17 [ABSTRACT]

## News, Briefings & Reports:

### News:

[‘Safety concerns’ key to Covid-19 vaccination hesitancy in pregnancy](#) - University of York (20 April)

[Diet high in fruit and vegetables linked to lower miscarriage risk](#) – University of Birmingham (19 April)

[Government isn’t doing enough to end “shameful” inequality in maternal mortality, MPs say](#) – BMJ (18 April)

[Tranexamic acid does not appear to prevent maternal haemorrhage after caesarean delivery](#) – National Institutes for Health (13 April)

[7 year low in maternal whooping cough vaccine uptake puts newborns at serious risk of hospitalisation](#) – Department of Health and Social Care (4 April)

[New national preceptorship framework for midwifery](#) – NHS Employers (3 April)

[Women much less likely to seek preconception advice for mental health compared to physical conditions, study shows](#) – Tommy’s (31 March)

[NHS rolls out specialist medical care centres for women during pregnancy](#) – NHS England (23 March)

### Reports:

[Black maternal health](#) – House of Commons Women and Equalities Commission

[Infertility prevalence estimates, 1990-2021](#) – World Health Organization

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

**Diagnostic cystoscopy for gynaecological conditions:** Preoperative oral riboflavin might increase accurate detection of ureteric jets but increases catheter use at 10 days compared to intraoperative bladder distention with D5W in adults having female pelvic reconstruction surgery requiring intraoperative cystoscopy ([BJOG 2023 May](#))

**Early pregnancy bleeding:** Single serum progesterone measurement may help determine pregnancy viability in patients with symptoms of first trimester pregnancy loss ([CJEM 2022 Sep](#))

**Ethnic disparities in obstetric and gynecologic care:** Black race and Hispanic ethnicity may each be associated with decreased likelihood of laparoscopic approach and increased risk of salpingectomy compared to White race in patients having surgical management of tubal ectopic pregnancy ([F S Rep 2022 Dec](#))

**Nutrition in pregnancy:** Vitamin C supplementation in pregnant persons who smoke may improve some measures of pulmonary function in infants at age 3 months and wheezing in children at age 5 years ([JAMA Pediatr 2023 Jan 1](#))

**Respiratory syncytial virus (RSV) in infants and children:** Single dose of bivalent RSV prefusion F protein-based (RSVpreF, Pfizer) vaccine during pregnancy may have 69% efficacy at 180 days after birth to prevent medically attended severe RSV-associated lower respiratory tract illness and 51% efficacy at 180 days after birth to prevent medically attended RSV-associated lower respiratory tract illness in infants ([N Engl J Med 2023 Apr 5 early online](#))

**Uterine adenomyosis:** Uterine-sparing techniques for treatment of symptomatic uterine adenomyosis associated with 15% recurrence rate and 7% reintervention rate ([Obstet Gynecol 2023 Apr 1](#))

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