Obstetrics & Gynaecology Evidence Update
(November 2017)

Systematic Reviews & Meta Analyses:

Discontinuing Oxytocin Infusion in the Active Phase of Labor: A Systematic Review and Meta-analysis.
Saccone, Gabriele; Ciardulli, Andrea; Baxter, Jason K; Quiñones, Joanne N; Diven, Liany C; Pinar, Bor; Maruotti, Giuseppe Maria; Martinelli, Pasquale; Berghella, Vincenzo
Obstetrics and gynecology; Nov 2017; vol. 130 (no. 5); p. 1090-1096.

Leiomyomas in Pregnancy and Spontaneous Abortion: A Systematic Review and Meta-analysis.
Sundermann, Alexandra C; Velez Edwards, Digna R; Bray, Michael J; Jones, Sarah H; Latham, Sanura M; Hartmann, Katherine E
Obstetrics and gynecology; Nov 2017; vol. 130 (no. 5); p. 1065-1072.

Prophylactic Negative Pressure Wound Therapy for Obese Women After Cesarean Delivery: A Systematic Review and Meta-analysis.
Smid, Marcela C; Dotters-Katz, Sarah K; Grace, Matthew; Wright, Sarah T; Villers, Margaret S; Hardy-Fairbanks, Abbey; Stamilio, David M
Obstetrics and gynecology; Nov 2017; vol. 130 (no. 5); p. 969-978.

Aune, D; Schlesinger, S; Henriksen, T; Saugstad, O D; Tonstad, S
BJOG : an international journal of obstetrics and gynaecology; Nov 2017; vol. 124 (no. 12); p. 1816-1826.

Vitamin D supplementation during pregnancy: state of the evidence from a systematic review of randomised trials.
Roth, Daniel E; Leung, Michael; Mesfin, Elnathan; Qamar, Huma; Watterworth, Jessica; Papp, Eszter
BMJ (Clinical research ed.); Nov 2017; vol. 359 ; p. j5237

Postpartum management of hypertensive disorders of pregnancy: a systematic review.
Cairns, Alexandra E; Pealing, Louise; Duffy, James M N; Roberts, Nia; Tucker, Katherine L; Leeson, Paul; MacKillop, Lucy H; McManus, Richard J
BMJ open; Nov 2017; vol. 7 (no. 11); p. e018696

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Risk of Cesarean scar defect following single- vs double-layer uterine closure: systematic review and meta-analysis of randomized controlled trials
Di Spiezio Sardo, A; Saccone, G; McCurdy, R; Bujold, E; Bifulco, G; Berghella, V
Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology; Nov 2017; vol. 50 (no. 5); p. 578-583.

Cerclage for sonographic short cervix in singleton gestations without prior spontaneous preterm birth: systematic review and meta-analysis of randomized controlled trials using individual patient-level data.
Berghella, V; Ciardulli, A; Rust, O A; To, M; Otsuki, K; Althuisius, S; Nicolaides, K H; Roman, A; Saccone, G
Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology; Nov 2017; vol. 50 (no. 5); p. 569-577.

Outcome of monochorionic twin pregnancy with selective intrauterine growth restriction according to umbilical artery Doppler flow pattern of smaller twin: systematic review and meta-analysis.
Buca, D; Pagani, G; Rizzo, G; Familiari, A; Flacco, M E; Manzoli, L; Liberati, M; Fanfani, F; Scambia, G; D'Antonio, F
Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology; Nov 2017; vol. 50 (no. 5); p. 559-568.

New & Updated Cochrane Systematic Reviews:

Pregnancy & Childbirth:

**Epidural therapy for the treatment of severe pre-eclampsia in non labouring women**
Amita Ray, Sujoy Ray

**Cervical cerclage in combination with other treatments for preventing preterm birth in singleton pregnancies**
George U Eleje, Joseph I Ikechebelu, Ahizechukwu C Eke, Princeston C Okam

**Routine antibiotic prophylaxis after normal vaginal birth for reducing maternal infectious morbidity**
Mercedes Bonet, Erika Ota, Chioma E Chibueze, Olufemi T Oladapo

**Combined diet and exercise interventions for preventing gestational diabetes mellitus**
Emily Shepherd, Judith C Gomersall, Joanna Tieu, Shanshan Han, Caroline A Crowther, Philippa Middleton

**Genomics-based non-invasive prenatal testing for detection of fetal chromosomal aneuploidy in pregnant women**
Mylène Badeau, Carmen Lindsay, Jonatan Blais, Leon Nshimyumukiza, Yemisi Takwoingi, Sylvie Langlois, France Légaré, Yves Giguère, Alexis F Turgeon, William Witteman,

**Regimens of ultrasound surveillance for twin pregnancies for improving outcomes**
Jane G Woolcock, Rosalie M Grivell, Jodie M Dodd

**Insulin for the treatment of women with gestational diabetes**
Julie Brown, Luke Grzeskowiak, Kathryn Williamson, Michelle R Downie, Caroline A Crowther

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Aspirin or heparin or both for improving pregnancy outcomes in women with persistent antiphospholipid antibodies and recurrent pregnancy loss
Luuk JJ Scheres, Mauritia C Marijnen, Saskia Middeldorp

Antibiotic prophylaxis for episiotomy repair following vaginal birth
Mercedes Bonet, Erika Ota, Chioma E Chibueze, Olufemi T Oladapo

Gynaecology:

Insulin-sensitising drugs (metformin, rosiglitazone, pioglitazone, D-chiro-inositol) for women with polycystic ovary syndrome, oligo amenorrhoea and subfertility
Lara C Morley, Thomas Tang, Ephia Yasmin, Robert J Norman, Adam H Balen

Anti-adhesion therapy following operative hysteroscopy for treatment of female subfertility
Jan Bosteels, Steven Weyers, Thomas M D'Hooghe, Helen Torrance, Frank J Broekmans, Su Jen Chua, Ben Willem J Mol

Probiotics for vulvovaginal candidiasis in non-pregnant women
Huan Yu Xie, Dan Feng, Dong Mei Wei, Ling Mei, Hui Chen, Xun Wang, Fang Fang

Hysterectomy with salpingectomy versus hysterectomy alone
Laura A M van Lieshout, Miranda P Steenbeek, Joanne A De Hullu, M Caroline Vos, Saskia Houterman, Jack Wilkinson, Jurgen MJ Piek

Postoperative interventions for preventing bladder dysfunction after radical hysterectomy in women with early-stage cervical cancer
Apiwat Aue-aungkul, Chumnan Kietpeerakool, Khadra Galaal, Teerayut

Preoperative medical therapy before surgery for uterine fibroids
Anne Lethaby, Lucian Puscasiu, Beverley Vollenhoven

Ovarian surgery for symptom relief in women with polycystic ovary syndrome
Sam Lepine, Junyoung Jo, Mostafa Metwally, Ying C Cheong

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Obstetric outcomes after conservative treatment for cervical intraepithelial lesions and early invasive disease
Maria Kyrgiou, Antonios Athanasiou, Ilkka E J Kalliala, Maria Paraskevaidi, Anita Mitra, Pierre PL Martin-Hirsch, Marc Arbyn, Phillip Bennett, Evangelos Paraskevaidis

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Oral medications including clomiphene citrate or aromatase inhibitors with gonadotropins for controlled ovarian stimulation in women undergoing in vitro fertilisation
Mohan S Kamath, Abha Maheshwari, Siladitya Bhattacharya, Kar Yee Lor, Ahmed Gibreel

Cochrane Clinical Answers:

What are the benefits and harms of administering antenatal corticosteroids to pregnant women who are at risk of preterm birth?

For women in the third stage of labour, is active or expectant management more effective in improving outcomes?

Can assessment and support during early labour improve maternal and neonatal outcomes?

What are the effects of vitamin A supplementation for reducing the risk of mother-to-child transmission of HIV infection?

What are the effects of perineal techniques on perineal trauma during the second stage of labour?

In women undergoing assisted reproductive technologies, does metabolomic analysis of embryos help to improve pregnancy outcomes?

Practice Guidance:

ACOG Practice Bulletin 185 Pelvic Organ Prolapse (November 2017) (Replaces Practice Bulletin Number 176, April 2017) (Interim Update)


Royal College of Nursing. Clinical Nurse Specialist in Early Pregnancy Care

World Health Organization. Protecting, promoting and supporting breastfeeding in facilities providing maternity and newborn services
**National Institute for Health Research Signals:**

Aerobic exercise moderately reduces depressive symptoms in new mothers

**Briefings & Reports:**

National Maternity and Perinatal Audit: Clinical report 2017 Health Quality Improvement Partnership

Agency, bank and overtime spending in UK maternity units in 2016 Royal College of Midwives


**DynaMed Plus Topic Updates:**

Lying down position during second stage of labour may increase likelihood of spontaneous vaginal birth compared to upright position in nulliparous women with low-dose epidural (BMJ 2017 Oct 18)

Standardized red clover extract ≥ 80 mg/day (Promensil, Menoflavon) may reduce hot flush frequency and improve overall menopausal symptoms (PhytoMedicine 2017 Jan 15)

Yoga in third trimester may reduce labour pain, duration of labour, and risk of cesarean section (Complement Ther Clin Pract 2017 May)

Ovarian cyst rupture (new topic)

Continuous glucose monitoring improves glycemic control and neonatal outcomes in pregnant women with type 1 diabetes using intensive insulin therapy (Lancet 2017 Sep 15 early online)

**NHS Behind the Headlines – Media Stories Explained:**

Pre-pregnancy obesity linked to childhood ADHD and autism
Monday 27 November

Older mothers may benefit from being induced on their due date
Thursday 16 November

Group B streptococcus vaccine estimated to prevent 100,000 newborn deaths
Monday 6 November 2017

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