Obstetrics & Gynaecology Evidence Update

(October 2017)

**Systematic Reviews & Meta Analyses:**

**Evidence-Based Bundles and Cesarean Delivery Surgical Site Infections: A Systematic Review and Meta-analysis.**
Carter, Ebony B; Temming, Lorene A; Fowler, Susan; Eppes, Catherine; Gross, Gilad; Srinivas, Sindhu K; Macones, George A; Colditz, Graham A; Tuuli, Methodius G
Obstetrics and gynecology; Oct 2017; vol. 130 (no. 4); p. 735-746

**Pregnancy, thrombophilia, and the risk of a first venous thrombosis: systematic review and bayesian meta-analysis**
Croes FN; Nasserinejad K; Duvekot JJ; Kruip MJ; Meijer K; Leebeek FW
BMJ (Clinical research ed.); Oct 2017; vol. 359 ; p. j4452

**Systematic review of first-trimester ultrasound screening for detection of fetal structural anomalies and factors that affect screening performance.**
Karim, J N; Roberts, N W; Salomon, L J; Papageorghiou, A T
Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology; Oct 2017; vol. 50 (no. 4); p. 429-441.

**Diagnostic accuracy of ultrasound in predicting birth-weight discordance in twin pregnancy: systematic review and meta-analysis.**
Leombroni, M; Liberati, M; Fanfani, F; Pagani, G; Familiari, A; Buca, D; Manzoli, L; Scambia, G; Rizzo, G; D’Antonio, F
Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology; Oct 2017; vol. 50 (no. 4); p. 442-450.

**Treatment options for severe pulmonary embolism during pregnancy and the postpartum period: a systematic review.**
Martillotti G; Boehlen F; Robert-Ebadi H; Jastrow N; Righini M; Blondon M

**The incidence of pregnancy-related stroke: A systematic review and meta-analysis.**
Swartz, Richard H; Cayley, Megan L; Foley, Norine; Ladhani, Noor Niyar N; Leffert, Lisa; Bushnell, Cheryl; McClure, J A; Lindsay, M Patrice
International journal of stroke : official journal of the International Stroke Society; Oct 2017; vol. 12 (no. 7); p. 687-697

October 2017
Different methods and settings for glucose monitoring for gestational diabetes during pregnancy
Puvaneswary Raman, Emily Shepherd, Therese Dowswell, Philippa Middleton, Caroline A Crowther

Prenatal administration of progestogens for preventing spontaneous preterm birth in women with a multiple pregnancy
Jodie M Dodd, Rosalie M Grivell, Cecelia M O'Brien, Therese Dowswell, Andrea R Deussen

Planned caesarean section versus planned vaginal birth for severe pre-eclampsia
Melania MR Amorim, Alex Sandro R Souza, Leila Katz

Oral anti-diabetic agents for women with established diabetes/impaired glucose tolerance or previous gestational diabetes planning pregnancy, or pregnant women with pre-existing diabetes
Joanna Tieu, Suzette Coat, William Hague, Philippa Middleton, Emily Shepherd

Acupuncture or acupressure for induction of labour
Caroline A Smith, Mike Armour, Hannah G Dahlen

Lymphadenectomy for the management of endometrial cancer
Jonathan A Frost, Katie E Webster, Andrew Bryant, Jo Morrison

Pain relief for outpatient hysteroscopy
Gaity Ahmad, Sushant Saluja, Helena O'Flynn, Alessandra Sorrentino, Daniel Leach, Andrew Watson

Metformin for endometrial hyperplasia
Naomi S Clement, Thomas RW Oliver, Hunain Shiwani, Juliane RF Sanner, Caroline A Mulvaney, William Atiomo

Nerve-sparing radical hysterectomy compared to standard radical hysterectomy for women with early stage cervical cancer (stage Ia2 to Iia)
Chumnan Kietpeerakool, Apiwat Aue-aungkul, Khadra Galaal, Chetta Ngamjarus, Pisake Lumbiganon

GnRH agonists for uterine fibroids
Ruth Hodgson, Priya Bhave Chittawar, Cindy Farquhar
**Cochrane Clinical Answers:**

How does Doppler ultrasound compare with no ultrasound for improving infant outcomes in high-risk pregnancies?

How does Doppler ultrasound compare with cardiotocography for improving infant outcomes in high-risk pregnancies?

How does counselling compare with usual care or less intensive interventions for helping women stop smoking during pregnancy?

What are the effects of recombinant luteinizing hormone (rLH) and recombinant follicle-stimulating hormone (rFSH) for ovarian stimulation in IVF/ICSI cycles?

For women undergoing assisted reproduction for subfertility, what are the effects of antioxidants?

In pregnant women with preterm rupture of membranes, how do antibiotics affect outcomes?

For pregnant women with gestational diabetes, do lifestyle interventions help to improve maternal outcomes?

For pregnant women with gestational diabetes, do lifestyle interventions help to improve infant outcomes?

For pregnant women with preterm premature rupture of membranes, how does amnioinfusion affect outcomes?

**Practice Guidance:**

ACOG Practice Bulletin 183 Postpartum Hemorrhage (October 2017) (Replaces Practice Bulletin Number 76, October 2006)

**National Institute for Health Research Signals:**

Aspirin reduces a woman’s chance of developing pre-eclampsia in pregnancy (31 October)

Vaginal cleansing before caesarean delivery reduces risk of infections (31 October)

**Briefings & Reports:**


Summary of the EMA public hearing on valproate in pregnancy – European Medicines Agency
DynaMed Plus Topic Updates:

Incidence of invasive cervical adenocarcinoma about 1% in women with incidentally detected adenocarcinoma in situ during excisional procedure CIN grades 2-3 (Am J Obstet Gynecol 2017 Mar)

Manual fundal pressure during second stage of labor may not reduce risk of operative birth or duration of second stage of labor and may increase risk of cervical and perineal damage in women with singleton cephalic gestations (Cochrane Database Syst Rev 2017 Mar 7)

Spontaneous pushing might increase duration of second stage of labor but may have similar effect on perineal laceration, episiotomy, cesarean section, and spontaneous vaginal delivery compared to directed pushing in women with singleton vertex gestation (Cochrane Database Syst Rev 2017 Mar 26)

Upright position during second stage of labor may reduce risk for assisted delivery, episiotomy, and abnormal fetal heart rate patterns but may increase risk for second-degree perineal tears and blood loss > 500 mL compared to supine position in women without epidural anesthesia (Cochrane Database Syst Rev 2017 May 25)

Prenatal co-exposure to psychotropic medications and opioid analgesics during 45 days prior to delivery associated with increased risk of neonatal abstinence syndrome (BMJ 2017 Aug 2)

First trimester exposure to penicillins, nitrofurantoin, and cephalosporins does not appear to increase risk of major congenital malformations, but exposure to other antibiotics may increase risk of overall or system-specific malformations (Br J Clin Pharmacol 2017 Jul 19 early online)

Beta blocker use during first trimester may not be associated with increased risk of congenital cardiovascular anomalies (JAMA Intern Med 2017 Jun 1)

Maternal vaccination with 2009 pH1N1-containing inactivated influenza vaccine might be associated with increased spontaneous abortion within 28 days (Vaccine 2017 Sep 25)

Hormone therapy with conjugated equine estrogen with or without medroxyprogesterone acetate does not appear to increase long-term mortality in postmenopausal women (JAMA 2017 Sep 12)

NHS Behind the Headlines – Media Stories Explained:

Pregnant women should avoid sleeping on the their back in last trimester (13 October)

Hormonal fertility tests ‘waste of time and money’ (12 October)

Study links vegetarian diet in pregnancy to substance abuse in offspring (4 October)

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