

Maternity, Obstetrics & Gynaecology Evidence Update October 2023

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.

Request full text of any article via the [NHS Knowledge and Library Hub](#)

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@porthosp.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

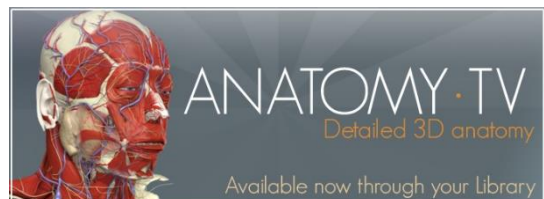


**Email us for the Institution
Code to submit your report**

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 or updated:

[Intrapartum care NG235](#)

[Jaundice in newborn babies under 28 days CG98](#)

[Ovarian cancer: recognition and initial management CG122](#)

[Vaginal transluminal endoscopic hysterectomy and adnexal surgery for benign gynaecological conditions IPG774](#)

Other Guidance/Reports

[Information sharing and communication in management of large for gestational age babies in non-diabetic mothers](#)

[The Obstetrician & Gynaecologist](#)

[What's new in guidance: Faculty of Sexual and Reproductive Healthcare \(FSRH\) update](#)

[The Obstetrician & Gynaecologist](#)



Cochrane
Library

[Systematic Reviews and Research Protocols](#)

[Alternative magnesium sulphate regimens for women with pre-eclampsia and eclampsia](#)

[Different intensities of glycaemic control for women with gestational diabetes mellitus](#)

[Single-incision sling operations for urinary incontinence in women](#)

[Back to top](#)

Reviews from other sources

[A brief overview of obstetric brachial plexus palsy](#)
British Journal of Midwifery

[A focus on progestogens in hormone replacement therapy](#)
The Obstetrician & Gynaecologist

[A meta-analysis of treatment for early-stage cervical cancer: open versus minimally invasive radical trachelectomy](#)
BMC Pregnancy and Childbirth

[Agenesis of the corpus callosum: What to tell expecting parents?](#)
Prenatal Diagnosis

[Are pregnancy and parity associated with telomere length? A systematic review](#)
BMC Pregnancy and Childbirth

[Artificial intelligence for cervical cancer screening: Scoping review, 2009–2022](#)
International Journal of Gynecology & Obstetrics

[Association between disease activity of rheumatoid arthritis and maternal and fetal outcomes in pregnant women: a systematic review and meta-analysis](#)
BMC Pregnancy and Childbirth

[Cardiogenic shock in pregnancy](#)
BJOG

[Cervical pessary to prevent preterm birth and poor neonatal outcome: An integrity meta-analysis of randomized controlled trials focusing on adherence to the European Medical Device Regulation](#)
International Journal of Gynecology & Obstetrics

[Development of preeclampsia in pregnant women with white-coat hypertension: a systematic review and meta-analysis](#)
Archives of Gynecology and Obstetrics

[Endocervical crypt involvement by high-grade cervical intraepithelial neoplasia and its association with high-grade histopathological recurrence after cervical excision in women with negative excision margins: a systematic review and meta-analysis](#)
Archives of Gynecology and Obstetrics

[Extra corporeal membrane oxygenation \(ECMO\) in pregnant and postpartum women](#)
The Obstetrician & Gynaecologist

[Hemolytic disease of the fetus and newborn: rapid review of postnatal care and outcomes](#)
BMC Pregnancy and Childbirth

[Hysteroscopic diode laser myolysis: from a case series to literature review of incisionless myolysis techniques for managing heavy menstrual bleeding in premenopausal women](#)
Archives of Gynecology and Obstetrics

[Identifying the barriers faced by obstetricians and registrars in screening or enquiry of intimate partner violence in pregnancy: A systematic review of the primary evidence](#)
ANZOG

[Imaging and outcomes of fetal adrenal hemorrhage: A systematic review](#)
Prenatal Diagnosis

[Intravenous fluid rate of 250 mL/h versus 125 mL/h in nulliparous women: A systematic review and meta-analysis of randomized controlled trials](#)
International Journal of Gynecology & Obstetrics

[Late third trimester diagnosis of congenital giant hemangioma complicated by the Kasabach-Merritt phenomenon: a case report and literature review](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[mHealth interventions to improve self efficacy and exclusive breastfeeding: a scoping review](#)
British Journal of Midwifery

[Obesity in prenatal medicine: a game changer?](#)
Archives of Gynecology and Obstetrics

[Prevalence and factors of urinary incontinence among postpartum: systematic review and meta-analysis](#)
BMC Pregnancy and Childbirth

[Skin-to-skin contact for the prevention of neonatal hypoglycaemia: a systematic review and meta-analysis](#)
BMC Pregnancy and Childbirth

[Successful perinatal management of a woman with congenital factor XIII deficiency using recombinant factor XIII: A case report and literature review](#)
Journal of Obstetrics and Gynaecology Research

[Successful pregnancy and delivery in a female with pituitary stalk interruption syndrome following in vitro fertilization and embryo transfer: A case report and literature review](#)
International Journal of Gynecology & Obstetrics

[The role of the multidisciplinary team in surgical management of intractable tubo-ovarian abscess as a late sequelae of challenging Crohn's disease in the modern era: A case report and review of current literature](#)
International Journal of Gynecology & Obstetrics

[The pregnant traveller: An overview of common preventable infections](#)
ANZOG

[Transplacental non-steroidal anti-inflammatory drugs versus expectant management in fetal Ebstein anomaly with circular shunt: Systematic review and meta-analysis](#)
Prenatal Diagnosis

[Treatments for hyperemesis gravidarum: A systematic review](#)
Acta Obstetrica et Gynecologica Scandinavica



This month's clinical questions are...

[For women with uterine prolapse, how does vaginal hysterectomy compare with vaginal hysteropexy or with sacral hysteropexy/cervicopexy?](#)

[For women with vaginal prolapse, how do vaginal procedures/hysteropexy compare with sacral colpopexy/hysteropexy for prolapse repair?](#)

Primary Research

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

Gynaecology

[Acceptability of using the Raising Awareness Tool for Endometriosis \(RATE\) in general practice: a mixed methods pilot study](#)

ANZOG

[Anxiety and depression among women with newly diagnosed vulvar cancer – A nationwide longitudinal study](#)

Acta Obstetrica et Gynecologica Scandinavica

[Assessment of the differences in oncologic outcomes between patients with high-grade serous ovarian carcinoma and uterine serous carcinoma](#)

Journal of Obstetrics and Gynaecology Research

[Comparison of clinical outcomes and second-look hysteroscopy of the complete and incomplete septate uterus after hysteroscopic septoplasty](#)

Archives of Gynecology and Obstetrics

[Developing a set of patient-centered outcomes for routine use in endometriosis: An international Delphi study](#)

Acta Obstetrica et Gynecologica Scandinavica

[Early age at menarche is associated with an increased risk of preeclampsia and adverse neonatal outcomes: a 6-year retrospective study](#)

Archives of Gynecology and Obstetrics

[How well do we truly understand clitoral anatomy? An Irish maternity hospital's perspective](#)

ANZOG

[Hysteroscopy-assisted suction curettage for early pregnancy loss: does it reduce retained products of conception and postoperative intrauterine adhesions?](#)

Archives of Gynecology and Obstetrics

[Influence of pelvic floor disorders on sexuality in women](#)

International Journal of Gynecology & Obstetrics

[Menstruation-related acute watery diarrhoea: Understanding the impact of hormonal fluctuations on digestive health](#)

Reproductive, Female and Child Health

[Pulmonary metastasectomy for recurrent metastatic ovarian cancer](#)

Journal of Obstetrics and Gynaecology Research

[Retrospective comparative study of robot-assisted surgery, laparoscopic surgery, and laparotomy for endometrial cancer in patients with a low risk of recurrence](#)

Journal of Obstetrics and Gynaecology Research

[Sacral neuromodulation in endometriosis – A promising treatment option for chronic pelvic pain](#)

Acta Obstetrica et Gynecologica Scandinavica

Treatment of rectosigmoid endometriosis by laparoscopic reverse submucosal dissection (LRSD): The Sydney partial thickness discoid excision technique
ANZOG

Treatment outcomes of early-stage endometrial cancer patients: A propensity score matching of vaginal brachytherapy versus pelvic radiotherapy
Journal of Obstetrics and Gynaecology Research

Ultrasonographic diagnosis of adnexal masses: interobserver agreement in the interpretation of videos, using IOTA terminology
Archives of Gynecology and Obstetrics

Unilateral levator avulsion increases the risk of de novo stress urinary incontinence after cystocele repair
Journal of Obstetrics and Gynaecology Research

Vaginal malignant peripheral nerve sheath tumor treated with complete surgical resection and postoperative radiation therapy
Journal of Obstetrics and Gynaecology Research

Vaginal microflora following the use of a disposable home-use vaginal device and a commercially available ring pessary for pelvic organ prolapse management: a randomized controlled trial
Archives of Gynecology and Obstetrics

vNOTES (vaginal natural orifice transluminal surgery) gynecologic procedures in morbidly and super-morbidly obese women: five year experience
Archives of Gynecology and Obstetrics

Maternity/Obstetrics

A comparative study of CTG monitoring one hour before labor in infants born with and without asphyxia
BMC Pregnancy and Childbirth

A point-of-care urine test to predict adverse maternal and neonatal outcomes in Asian women with suspected preeclampsia
Archives of Gynecology and Obstetrics

Accuracy of a portable hemoglobinometer (HemoCue) to measure fetal hemoglobin values during *in utero* transfusion
The Journal of Maternal-Fetal & Neonatal Medicine

Assessment of the association between ambient air pollution and stillbirth in the UK: Results from a secondary analysis of the MiNESS case-control study
BJOG

Assessment of the bearing-down manoeuvre in pregnancy and detection of paradoxical levator ani muscle contraction using 2D transperineal ultrasound and vaginal palpation: a concurrent validity and inter-rater reliability study
BJOG

Assessment of utero-cervical angle and cervical length as predictors for threatened preterm delivery in singleton pregnancies
Journal of Obstetrics and Gynaecology Research

C-section technique vs minilaparotomy after minimally invasive uterine surgery: a retrospective cohort study
Archives of Gynecology and Obstetrics

[Changes in cervical elastography, cervical length and endocervical canal width after cerclage for cervical insufficiency: an observational ultrasound study](#)

BMC Pregnancy and Childbirth

[Comparing outcomes of fetal growth restriction defined by estimated fetal weight versus isolated abdominal circumference](#)

Archives of Gynecology and Obstetrics

[Complications of unintentional dural puncture during labour epidural analgesia: a 10-year retrospective observational study](#)

Journal of Anesthesia, Analgesia and Critical Care

[Duration of the active first stage of labour and severe perineal lacerations and maternal postpartum complications: a population-based cohort study](#)

BJOG

[Effectiveness and safety of prophylactic abdominal aortic balloon occlusion for patients with type III caesarean scar pregnancy: a prospective cohort study](#)

BMC Pregnancy and Childbirth

[Effects of prepregnancy dietary patterns on infant birth weight: a prospective cohort study](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Feasibility and acceptability of an online mental health intervention for pregnant women and their partners: a mixed method study with a pilot randomized control trial](#)

BMC Pregnancy and Childbirth

[Fetal cortical development and neurosonographic findings in obese pregnant women: a case control study from a tertiary hospital](#)

Archives of Gynecology and Obstetrics

[Fetal sex and the development of gestational diabetes mellitus in gravidae with multiple gestation pregnancies](#)

Acta Obstetrica et Gynecologica Scandinavica

[Fetal surgery using fetoscopic endoluminal tracheal occlusion for severe congenital diaphragmatic hernia: a single-center experience](#)

Archives of Gynecology and Obstetrics

["I had given up on being a mother": a survey of 183 women's experience of transabdominal cerclage \(TAC\)](#)

BMC Pregnancy and Childbirth

[Impact of experiencing multiple vulnerabilities on fetal growth and complications in women with hyperglycemia in pregnancy](#)

BMC Pregnancy and Childbirth

[Intertwin nuchal translucency difference predicts the chance of co-twin death after fetal reduction in dichorionic triplet pregnancies: a retrospective analysis study](#)

BMC Pregnancy and Childbirth

[Investigation of serum isthmin 1 concentration in pregnant women diagnosed with gestational diabetes mellitus; a case-control study](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[Is the fetus fit for labor? Introducing fast-and-frugal trees \(FFTrees\) to simplify triage of women for STAN monitoring: An interobserver agreement comparison with traditional classification](#)

Acta Obstetrica et Gynecologica Scandinavica

[Knowledge, attitude, and practice toward postpartum depression among the pregnant and lying-in women](#)
BMC Pregnancy and Childbirth

[Making the cut on caesarean section: a logistic regression analysis on factors favouring caesarean sections without medical indication in comparison to spontaneous vaginal birth](#)
BMC Pregnancy and Childbirth

[Maternal complications and risk factors associated with assisted vaginal delivery](#)
BMC Pregnancy and Childbirth

[Maternal outcomes of a cohort of pregnancies affected by non-immune hydrops fetalis](#)
International Journal of Gynecology & Obstetrics

[Materno-fetal outcome with PIGF above or below cutoff during second half of pregnancy in high-risk women](#)
International Journal of Gynecology & Obstetrics

[Missed opportunities in aspirin prescribing for preeclampsia prevention](#)
BMC Pregnancy and Childbirth

[Noninvasive prenatal screening with conventional sequencing depth to screen fetal copy number variants: A retrospective study of 19 144 pregnant women](#)
Journal of Obstetrics and Gynaecology Research

[Ophthalmic artery doppler and biomarkers of impaired placentation at 36 weeks' gestation in pregnancies with small fetuses](#)
Ultrasound in Obstetrics & Gynecology

[Optimal cervical-ripening method for labor induction in Japan after the era of controlled-release dinoprostone vaginal insert](#)
Journal of Obstetrics and Gynaecology Research

[Optimal timing of delivery for growth restricted fetuses with gastroschisis: A decision analysis](#)
Prenatal Diagnosis

[Oral health during pregnancy: an analysis of interprofessional guideline awareness and practice behaviors among prenatal and oral health providers](#)
BMC Pregnancy and Childbirth

[Parents' descriptions of labouring with an antepartum fetal death: Findings from the Birthing in Grief study](#)
ANZOG

[Perinatal outcomes following uterine rupture during a trial of labor after cesarean: A 12-year single-center experience](#)
International Journal of Gynecology & Obstetrics

[Perinatal outcomes in patients undergoing repeat cerclage: A retrospective case series study](#)
International Journal of Gynecology & Obstetrics

[Periostin promotes extensive neovascularization in placenta accreta spectrum disorders via Notch signaling](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Placental biomarkers and fetoplacental Dopplers in combination reliably predict preterm birth in pregnancies complicated by fetal growth restriction](#)
Ultrasound in Obstetrics & Gynecology

[Placental size at gestational week 36: Comparisons between ongoing pregnancies and deliveries](#)

Acta Obstetrica et Gynecologica Scandinavica

[Postpartum antihypertensive treatment: Is there a correlation to placental lesions?](#)

Archives of Gynecology and Obstetrics

[Prenatal features of aneurysm of the posterior cerebral artery: a case report](#)

BMC Pregnancy and Childbirth

[Probability of second live birth after first natural and medically assisted reproduction-mediated live birth: A historical cohort study](#)

Acta Obstetrica et Gynecologica Scandinavica

[Reference range for glycated haemoglobin in full term non diabetic pregnant women: a multicentric cross sectional study](#)

Archives of Gynecology and Obstetrics

[Replacement of watching television with physical activity and the change in gestational diabetes mellitus risk: A case-control study](#)

International Journal of Gynecology & Obstetrics

[Risk of adverse pregnancy outcomes in twin- and singleton-born women: An inter-generational cohort study](#)

BJOG

[Risk of stillbirth and adverse pregnancy outcomes in a third pregnancy when an earlier pregnancy has ended in stillbirth](#)

Acta Obstetrica et Gynecologica Scandinavica

[Role of neutrophil / lymphocyte ratio, uric acid / albumin ratio and uric acid / creatinine ratio as predictors to severity of preeclampsia](#)

BMC Pregnancy and Childbirth

[Screen-positive rate in cell free DNA screening for trisomy 21](#)

Prenatal Diagnosis

[Severe maternal morbidity surveillance, temporal trends and regional variation: A population-based cohort study](#)

BJOG

[Shoulder dystocia in deliveries of neonates <3500 grams](#)

International Journal of Gynecology & Obstetrics

[Silent fundal pre-labor term scar uterine rupture after corporeal cesarean section](#)

Archives of Gynecology and Obstetrics

[Sonographer-guided frozen embryo transfer vs ultrasound-assisted frozen embryo transfer – A randomised controlled study](#)

ANZOG

[The association between emotion regulation and pain during the immediate postpartum period](#)

Archives of Gynecology and Obstetrics

[The associations of gestational weight gain and midpregnancy lipid levels with placental size and placental-to-birth weight ratio: findings from a chinese birth cohort study](#)

BMC Pregnancy and Childbirth

[The interaction effect of pre-pregnancy body mass index and maternal age on the risk of pregnancy complications in twin pregnancies after assisted reproductive technology](#)

The Journal of Maternal-Fetal & Neonatal Medicine

[The relationship between body mass index and perceived control over labor](#)
BMC Pregnancy and Childbirth

[The role of the partner in the support of a pregnant woman's healthy diet: an explorative qualitative study](#)
BMC Pregnancy and Childbirth

[The Salivary Microbiome During Pregnancy - Associations With Clinical and Sociodemographic Characteristics](#)
The Journal of Perinatal & Neonatal Nursing

[Two different regimens of outpatient Foley catheter induction of labor in nulliparas: A randomized trial](#)
International Journal of Gynecology & Obstetrics

[Unexplained recurrent pregnancy loss and markers of arterial vascular health: An experimental case-control study](#)
BJOG

[Usefulness of a low-cost simulation model for teaching internal manual aortic compression. A survey-based mannequin evaluation](#)
International Journal of Gynecology & Obstetrics

[Value of post-cerclage transvaginal ultrasound in predicting preterm birth at <28 weeks in twin pregnancy with ultrasound-indicated cerclage](#)
The Journal of Maternal-Fetal & Neonatal Medicine

[Women's experiences of induction of labour during the COVID-19 pandemic: a cross-sectional survey](#)
British Journal of Midwifery

BMJ Best Practice

- **26 Oct 2023**Topic: [Assessment of dysuria](#)
- **19 Oct 2023**Topic: [Urinary incontinence in women](#)
- **17 Oct 2023**Topic: [Assessment of breast mass](#)

UptoDate

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

Valacyclovir for prevention of congenital cytomegalovirus infection (October 2023)

Emerging evidence suggests that maternal administration of [valacyclovir](#) for primary cytomegalovirus (CMV) infection substantially reduces the risk of congenital CMV infection, especially if begun prior to 14 weeks of gestation and within 8 weeks of the maternal infection. In a 2023 individual patient data meta-analysis (one randomized trial, two observational studies), maternal valacyclovir administration upon diagnosis of periconception or first-trimester primary CMV infection was associated with a 66 percent reduction in congenital CMV (11 versus 25 percent) [1]. We suggest high-dose oral valacyclovir (8g per day) for patients with a primary CMV infection in early pregnancy after a comprehensive discussion of the potential benefits and risks (eg, 2 percent risk of reversible maternal kidney failure). (See "[Cytomegalovirus infection in pregnancy](#)", section on '[Antiviral medication](#)'.)

Respiratory syncytial virus vaccination in pregnancy (April 2023, Modified October 2023)

Respiratory syncytial virus (RSV) is a major cause of morbidity and mortality in infants. In October 2023, the United States Centers for Disease Control and Prevention, American College of Obstetricians and Gynecologists, and Advisory Committee on Immunization Practices

endorsed RSV vaccination of pregnant individuals to reduce severe RSV infections in their infants [2-4]. [Nirsevimab](#), a monoclonal antibody that can be given to infants postnatally to reduce the risk of severe RSV, has also been recently approved and endorsed by expert guidance panels. In settings where nirsevimab is not available, we suggest vaccination of pregnant individuals between 32 and 36 weeks of gestation during RSV season with inactivated nonadjuvanted recombinant RSV vaccine (RSVPreF; Abrysvo). In settings where both maternal vaccination and nirsevimab are available, the optimal preventive strategy remains uncertain, and, in most cases, it will not be possible to use both. For such patients, both options should be discussed and shared decision-making undertaken. (See [“Immunizations during pregnancy”](#), [section on ‘Choosing the optimal strategy’](#).)

Racial disparities in anemia during pregnancy (October 2023)

A new study has found that racial disparities in anemia during pregnancy persist and may be increasing. This analysis involved nearly four million births in the state of California from 2011 to 2020 [21]. Antepartum anemia was most common in Black individuals (22 percent), followed by Pacific Islanders (18 percent), Native American and Alaska Native peoples (14 percent), multiracial individuals (14 percent), Hispanic individuals (13 percent), Asian individuals (11 percent), and White individuals (10 percent). Antepartum anemia is associated with an increase in severe maternal morbidity. The reasons for disparities are multifactorial. (See ["Anemia in pregnancy"](#), [section on 'Racial disparities'](#).)

Intrapartum magnesium sulfate before preterm birth and cerebral palsy (October 2023)

[Magnesium sulfate](#) is typically administered to pregnant women with impending preterm birth <32 weeks of gestation to decrease the incidence and severity of cerebral palsy in offspring. However, the recent MAGENTA trial comparing the effects of magnesium sulfate versus placebo administered before impending preterm birth between 30 and 34 weeks of gestation found that it did not prevent cerebral palsy among surviving infants [22]. These findings do not change our current practice because the trial used a single 4 g bolus of magnesium sulfate alone, whereas we also provide an ongoing 1 g/hour infusion until delivery and do not use the medication after 32 weeks; the trial was likely underpowered to find a significant difference. (See ["Neuroprotective effects of in utero exposure to magnesium sulfate"](#), [section on 'Lower and upper gestational age'](#).)

Use of vaginal estrogen in breast cancer patients taking aromatase inhibitors (October 2023)

Use of vaginal estrogen to manage symptoms of genitourinary syndrome of menopause (GSM) may be harmful in patients with breast cancer on aromatase inhibitors (AIs). In a claims-based analysis, vaginal estrogen therapy was associated with a higher rate of breast cancer recurrence in patients taking versus not taking an AI [29]. Time to recurrence in the AI group was approximately 140 days. While this study had many limitations, these data support our general practice of avoiding vaginal estrogen for the management of GSM in most patients with breast cancer taking AIs. (See ["Genitourinary syndrome of menopause \(vulvovaginal atrophy\): Treatment"](#), [section on 'Patients with breast cancer'](#).)

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
