Edward Mullins

EDUCATION

2009-2014 Imperial College, London

2000-2005 Nottingham University Medical School

1992-1999 St George's School, Harpenden

QUALIFICATIONS

2020 CCT Obstetrics and Gynaecology2015 PhD Imperial College, London

2013 **MRCOG**

2005 BMBS (Honours) Nottingham University 2003 BMedSci (2:1) Nottingham University

POSTS

December 2022 – present, Clinical Senior Lecturer and honorary consultant obstetrician, Imperial College London, The George Institute for Global Health and ICHT. *Clinical activities: Maternity Safety and Risk Management, Labour ward, Maternal Medicine and diabetes.*

February 2021- November 2022, Clinical Lecturer and Locum Consultant O&G, Imperial College London, ICHT and the George Institute for Global Health. *Clinical activities: Maternity Safety and Risk Management, Labour ward, Maternal Medicine and diabetes.*

October 2017-January 2021 NIHR Academic Clinical Lecturer, O&G, Imperial College and Queen Charlotte's and Chelsea Hospital

February 2020-April 2021 Consultant to Anthem Healthcare (USA) Digital Care Delivery team, developing a corporate Women's Health Strategy

February 2020-May 2020 Clinical Advisor to the Chief Medical Officer, Professor Chris Whitty, UK Department of Health and Social Care, acute policy response to COVID-19 providing clinical advice on pregnancy and neonates

October 2016- October 2017 ST6 O&G Mr W Dennes, Queen Charlotte's and Chelsea Hospital

October 2015-October 2016 ST5 Miss N Jackson, Hillingdon Hospital.

October 2014-October 2015 Editor-in-Chief, Chief Medical Officer's annual report, Professor Dame Sally Davies. Scoping, commissioning, writing for and editing the CMO's annual report which in December 2015 focussed on women's health in England. I was based in the Department of Health in Whitehall. The CMO's annual report receives national professional and media attention and made evidence-based recommendations to stakeholders.

October 2013-October 2014 ST4 Mr M Nawar, Northwick Park Hospital.

October 2012-October 2013 ST3 Prof. Dame Lesley Regan, St Mary's Hospital, London.

October 2009-September 2012 Clinical Research Fellow Dr Sailesh Kumar, Queen Charlotte's and Chelsea Hospital and Imperial College London, 2nd supervisor Prof. Irene Roberts, Haematology. Thesis, 'Volumetric blood flow and the maternal and fetal inflammatory response in normal pregnancy and fetal growth restriction: An ultrasound, flow-cytometry and immunoassay study'.

October 2008-October 2009 ST2 Mr DK Edmonds, Miss S Paterson-Brown, Queen Charlotte's and Chelsea Hospital August 2007-September 2008 ST1 Mr K Duncan, Mr M Stafford, Chelsea and Westminster Hospital August 2006-July 2007 FY2 Mr D. Harriss, Mr A. Simm, Mr R. Hammond, Dr S Chan, Nottingham City Hospital August 2005-July 2006 FY1 Mr A. Gee, Dr M. Ghandi, Dr C. Day, Royal Devon and Exeter Hospital

RESEARCH FUNDING AND ACTIVITY https://www.imperial.ac.uk/people/edward.mullins

Parasol Foundation in collaboration with Imperial Health Charity, June 2023, £429,800, Chief Investigator, Blood in Action. Using routine maternal serum samples and linked, anonymised maternity data, I will establish a platform for infection and immunity surveillance, biomarker discovery and health policy evaluation. This grant funds a PhD student, Alison Perry, who will investigate the optimal methods for engagement of women with their healthcare. Imperial BRC legacy funding, October 2021, £185,000, co-Cl, A pilot UK National Maternity Research Database. Using routine clinical data from MSDS and 4 nations' datasets to create multi-purpose resource. I have led the formation of a UK-wide collaboration (Imperial, UCL, QMUL, Birmingham, Edinburgh, Swansea) combining expertise in big data science, real-world data, data linkage, Al and mother and baby clinical trials alongside groups with responsibility for mother and baby patient safety, service improvement and audit. Under the aegis of HDR-UK, this collaboration will deliver a UK Mother and Baby data hub.

PI for ICHT, PregCov trial, COVID vaccination in pregnancy, October 2021-present. Recruitment target for ICHT met. Jameel Community Imperial College COVID-19 Excellence Fund, June 2020, £147,000, Community Seroprevalence of SARS-CoV-2 in NW London (COM-SARS-2): historical study using stored maternal booking serum samples, co-Cl, Christl Donnelly, September 2020-February 2021, 11,000 routinely collected residual maternal booking serum samples from NW London for SARS-CoV-2 IgG/IgM from June 2020 back to December 2019. Pilot for national study.

Innovate Imperial inaugural grant, April 2020, £83,727, 'Contraception at delivery in NW London: equal access for all women,' **co-CI** with Charity Khoo. This project will deliver education and training to deliver reliable contraception to women immediately after delivering their baby.

UKRI/NIHR COVID-19 rapid response call 2, March 2020 £253,257, 'A global registry for women affected by COVID-19 in pregnancy,' **co-CI** with Christoph Lees, provide detailed clinical registry to understand natural history and guide treatment and prevention. Urgent Public Health research priority, to date recruited 1283 women from 152 sites worldwide.

2020-2024 – UK and European co-ordinator, Trial Management Group member, TRUFFLE 2 RCT, Optimum strategy to time delivery in late pre-term fetal growth restriction, CI Christoph Lees

2020-present Imperial NIHR BRC CL grant £4000, **PI**, 'Health in Pregnancy', feasibility study of app-based monitoring tool for health before, during and after pregnancy'. Commercial collaboration with Medopad. Recruitment complete, study completion August 2020, CI Christoph Lees

2019-present ICHT Women and Children's divisional grant, £10,312, CI, 'Determining the normal range for Intrapartum glycaemia in non-diabetic women'. Recruitment to commence August 2020.

2019-present ICHT Women and Children's divisional grant, £36,058, Co-applicant with C Lees, CONCEIVE 2; Preconception interventions to improve Blood Pressure, a feasibility RCT'. Recruitment to commence February 2020. **2018-present, local investigator**, Guar gum to prevent recurrent GDM, recruitment completion March 2020 **2019-present, PI ICHT**, OPHELIA study, Observational study in Pregnancy Hyperglycaemia: Endocrine causes, Lipids, Insulin and Autoimmunity, CI Claire Meek, Cambridge. Recruitment target met.

2018 Imperial NIHR BRC PPI grant £1500, PI, Preconception focus group which planned CONCEIVE 2 study, below. **2017** Imperial College European Partners Fund, £5000, co-PI, supported development TRUFFLE 2 RCT, NIHR HTA funded for £2.5m, CI Christoph Lees

PUBLICATIONS https://www.imperial.ac.uk/people/edward.mullins/publications.html

Pinho-Gomes A-C, **Mullins E**, 2023, Inequalities in smoking among pregnant women in North West London, *Journal of Public Health*.

Smith ER, Oakley E, Grandner GW, Rukundo G, Farooq F, Ferguson K, Baumann S, Waldorf KA, Afshar Y, Ahlberg M, Ahmadzia H, Akelo V, Aldrovandi G, Bevilacqua E, Bracero N, Brandt JS, Broutet N, Carrillo J, Conry J, Cosmi E, Crispi F, Crovetto F, Gil MDM, Delgado-López C, Divakar H, Driscoll AJ, Favre G, Buhigas IF, Flaherman V, Gale C, Godwin CL, Gottlieb S, Gratacós E, He S, Hernandez O, Jones S, Joshi S, Kalafat E, Khagayi S, Knight M, Kotloff K, Lanzone A, Longo VL, Le Doare K, Lees C, Litman E, Lokken EM, Madhi SA, Magee LA, Martinez-Portilla RJ, Metz TD, Miller ES, Money D, Moungmaithong S, Mullins E, Nachega JB, Nunes MC, Onyango D, Panchaud A, Poon LC, Raiten D, Regan L, Sahota D, Sakowicz A, Sanin-Blair J, Stephansson O, Temmerman M, Thorson A, Thwin SS, Tippett Barr BA, Tolosa JE, Tug N, Valencia-Prado M, Visentin S, von Dadelszen P, Whitehead C, Wood M, Yang H, Zavala R, Tielsch JMet al., 2023, Clinical risk factors of adverse outcomes among women with COVID-19 in the pregnancy and postpartum period: A sequential, prospective meta-analysis, American Journal of Obstetrics and Gynecology, Vol: 228, Pages: 161-177. Smith ER, Oakley E, Grandner GW, Ferguson K, Farooq F, Afshar Y, Ahlberg M, Ahmadzia H, Akelo V, Aldrovandi G, Barr BAT, Bevilacqua E, Brandt JS, Broutet N, Buhigas IF, Carrillo J, Clifton R, Conry J, Cosmi E, Crispi F, Crovetto F, Delgado-Lopez C, Divakar H, Driscoll AJ, Favre G, Flaherman VJ, Gale C, Gil MM, Gottlieb SL, Gratacos E, Hernandez O, Jones S, Kalafat E, Khagayi S, Knight M, Kotloff K, Lanzone A, Le Doare K, Lees C, Litman E, Lokken EM, Laurita Longo V, Madhi SA, Magee LA, Martinez-Portilla RJ, McClure EM, Metz TD, Miller ES, Money D, Moungmaithong S, Mullins E, Nachega JB, Nunes MC, Onyango D, Panchaud A, Poon LC, Raiten D, Regan L, Rukundo G, Sahota D, Sakowicz A, Sanin-Blair J, Soderling J, Stephansson O, Temmerman M, Thorson A, Tolosa JE, Townson J, Valencia-Prado M, Visentin S, von Dadelszen P, Waldorf KA, Whitehead C, Yassa M, Tielsch JMet al., 2023, Adverse maternal, fetal, and newborn outcomes among pregnant women with SARS-CoV-2 infection: an individual participant data meta-analysis, BMJ Global Health, Vol: 8, Pages: 1-19.

Fantasia I, Zamagni G, Lees C, Mylrea-Foley B, Monasta L, **Mullins E**, Prefumo F, Stampalija Tet al., 2022, Current practice in the diagnosis and management of fetal growth restriction: An international survey, *Acta Obstetricia et Gynecologica Scandinavica*, Vol: 101, Pages: 1431-1439,

Zielinska AP, **Mullins E**, Magni E, Zamagni G, Kleprlikova H, Adams O, Stampalija T, Monasta L, Lees Cet al., 2022, Remote multimodality monitoring of maternal physiology from the first trimester to postpartum period: study results., *Journal of Hypertension*, *Vol: 40, Pages: 2280-2291*,

Mullins E*, McCabe R*, Bird SM, Randell P, Pond MJ, Regan L, Parker E, McClure M, Donnelly CA, 2022, Tracking the incidence and risk factors for SARS-CoV-2 infection using historical maternal booking serum samples, *PLoS One, Vol:* 17, Pages: e0273966-e0273966, ISSN: 1932-6203

Smith ER, Oakley E, Grandner GW, ... **Mullins E**, et al., 2022, Clinical risk factors of adverse outcomes among women with COVID-19 in the pregnancy and postpartum period: A sequential, prospective meta-analysis, *American Journal of Obstetrics and Gynecology, ISSN: 0002-9378*

Womersley K, Hockham C, **Mullins E**, 2022, The Women's Health Strategy: ambitions need action and accountability., *The BMJ, Vol: 378, Pages: o2059-o2059*

Zielinska AP*, **Mullins E***, et al., 2022, Remote multimodality monitoring of maternal physiology from the first trimester to postpartum period: study results., *Journal of Hypertension, ISSN: 0263-6352*

Mullins E*, Perry A*, Banerjee J, Townson J, Grozeva D, Milton R, Kirby N, Playle R, Bourne T, Lees C, PAN-COVID Investigatorset al., 2022, Pregnancy and neonatal outcomes of COVID-19: The PAN-COVID study., *European Journal of Obstetrics Gynecology and Reproductive Biology, Vol. 276, Pages: 161-167, ISSN: 0301-2115*

Zielinska A*, **Mullins E***, Lees C, 2022, The feasibility of multi-modality remote monitoring of maternal physiology during pregnancy, *Medicine*, *Vol: 101, ISSN: 0025-7974*

Smith ER, Oakley E, He S, **Mullins E**, et al., 2022, Protocol for a sequential, prospective meta-analysis to describe coronavirus disease 2019 (COVID-19) in the pregnancy and postpartum periods, PLoS One, Vol: 17, ISSN: 1932-6203 B Mylrea-Foley, J Thornton, **E Mullins** Perinatal and 2-year neurodevelopmental outcome in late preterm fetal compromise: the TRUFFLE 2 randomised trial protocol, *BMJ Open. 2022 Apr 15;12(4):e055543. doi: 10.1136/bmjopen-2021-055543.*

O Naji, V Souter, **E Mullins**, Y Diab, E Fitzgerald, T Bourne, E Morris, The Blind Spot- Value Based Health Care in Obstetrics and Gynaecology, *24 November 2021*

Girardelli S, **Mullins E**, Lees CC, COVID-19 and pregnancy: Lessons from 2020., *Early Human Development*, *November 2021*, *Vol:162*, *ISSN:0378-3782*, *Pages:1-6*

E Mullins, S Sharma, A McGregor, Postnatal exercise interventions: a systematic review of adherence and effect, *BMJ Open. 2021 Sep 30;11(9)*

H Laycock, **E Mullins**, The role of anaesthetists in women's health, *Anaesthesia Volume 76*, *Supplement 4*, *April 2021* **E Mullins***, ML. Hudak*, J Banerjee, T Getzlaff, J Townson, K Barnette, R Playle, T Bourne, C Lees, Pregnancy and neonatal outcomes of COVID-19 – co-reporting of common outcomes from the PAN-COVID and AAP SONPM registry, *Ultrasound Obstet Gynecol. 2021 Feb 23*.

J Banerjee*, **E Mullins***, J Townson et al. Pregnancy and Neonatal Outcomes in COVID-19: Study protocol for a global registry of women with suspected or confirmed SARS-CoV-2 infection in pregnancy and their neonates, understanding natural history to guide treatment and prevention. *BMJ Open 2021;11:e041247. doi:10.1136/bmjopen-2020-041247*

T Stampalija et al. Fetal cerebral Doppler changes and outcome in late preterm fetal growth restriction: prospective cohort study *Ultrasound Obstet Gynecol. 2020 Aug;56(2):173-181 (collaborating author)*

B Mylrea-Foley, A Bhide, **E Mullins**, J Thornton, N Marlow, T Stamalija, R Napolitano, C Lees, Building consensus: thresholds for delivery in the TRUFFLE 2 randomized intervention study, *Ultrasound Obstet Gynecol*, *2020 Jun 13* N Mehta, O Mytton, **E Mullins**, T Fowler, C Falconer, O Murphy, C Langenberg, W Jayatunga, D Eddy, J Nguyen-Van-Tam SARS-CoV-2 (COVID-19): What Do We Know About Children? A Systematic Review *Clin Infect Dis. 2020 May 11;ciaa556*

E Mullins, D Evans, R M Viner, P O'Brien, E Morris, Coronavirus in Pregnancy and Delivery: Rapid Review, *Ultrasound Obstet Gynecol.* 2020 May;55(5):586-592.

Mullins E, Lees C Brocklehurst, Is continuous electronic fetal monitoring useful for all women in labour? *BMJ. 2017 Dec 5;359:j5423.*

Hanson, M, Mullins E, Modi N, Time for the UK to commit to tackling child obesity. BMJ. 2017 Feb 22;356:j762.

Mullins E, Murphy O, **Davies SC**, Pre-conception public health to address maternal obesity. *BJOG. 2016 Jan;123(2):159-60.*

Davies, S.C. "Annual Report of the Chief Medical Officer, 2014, The Health of the 51%:

Women" London: Department of Health (2015) Editor-in-Chief, Mullins E

Mullins E, Agarwal N, Oliver R, Odejinma F, Significance of Perihepatic adhesions in women undergoing laparoscopic surgery for ectopic pregnancy, *Int J Gynaecol Obstet. 2015 Jun 3.*

Story L, Sankaran S, **Mullins E**, Tan S, Russell G, Kumar S, Kyle P. Survival of pregnancies with small for gestational age detected before 24 weeks gestation. *Eur J Obstet Gynecol Reprod Biol. 2015 May;188:100-3.*

Prior T, **Mullins E**, Bennett P, Kumar S, Prediction of fetal compromise in labor. *Obstet Gynecol. Obstet Gynecol. 2014 Jun;123(6):1263-71*.

Prior T, **Mullins E**, Bennett P, Kumar S, Are 1st-trimester β -human chorionic gonadotrophin and pregnancy-associated plasma protein A levels predictive of intrapartum fetal compromise in a selected normal population? *Aust N Z J Obstet Gynaecol. 2014 Oct;54(5):418-23*.

Prior T, **Mullins E**, Bennett P, Kumar S, The influence of parity on fetal haemodynamics and amniotic fluid volume at term. *Ultrasound Obstet Gynecol. 2014 Dec;44(6):688-92*.

Prior T, **Mullins E**, Bennett P, Kumar S, Umbilical venous flow rate in term fetuses: can variations in flow predict intrapartum compromise? *Am J Obstet Gynecol. 2014 Jan;210(1):61.e1-8*

Prior T, Wild M, **Mullins E**, Bennett P, Kumar S, Sex specific differences in fetal middle cerebral artery and umbilical venous Doppler, *PLoS One. 2013;8(2):e56933*.

Mullins, E, Prior, T, Roberts, I, Kumar, S, Changes in the fetal and neonatal cytokine profile in pregnancies complicated by fetal growth restriction, 2013 May;69(5):441-8. Dec 24. Review

Prior, T, **Mullins, E**, Bennett, P, Kumar, S, Prediction of intra-partum fetal compromise using the cerebro-umbilical ratio: a prospective observational study, *Am J Obstet Gynecol*. 2013 Feb;208(2):124.e1-6.

Saha E, **Mullins E**, Paramasivam G, Kumar S, Lakasing L: Perinatal outcomes of fetal echogenic bowel. *Prenat Diagn* 2012; 32: 758-64.

Mullins E, Prior T, Roberts I, Kumar S: Changes in the maternal cytokine profile in pregnancies complicated by fetal growth restriction. *Am J Reprod Immunol 2012; 68: 1-17.*

Mullins E, Kumar S: Older mothers do not confer greater perinatal risk to dichorionic diamniotic twins. *Acta Obstet Gynecol Scand 2012; 91: 153-4.*

Mullins E, Wales N, Domoney C: Incontinence associated with Childbirth. *General Practice Update,* August 2008, Elsevier.

Mullins E, Kumar S, Older mothers do not confer greater perinatal risk to dichorionic diamniotic twins. *Arch Dis Child Fetal Neonatal Ed June 2011, Volume 96, Suppl 1*

EDITORIAL, AUTHORSHIP

Editorial board, PLOS ONE, Academic editor, 2020-present

Guest Editor, by invitation, Special Edition, Women's Health, Anaesthesia, March 2021

Editor and contributor, RCOG, 'Better for Women,' report, launched House of Lords, December 2019

E Mullins, L. Regan, 'Women's Health', Kumar and Clark's Clinical Medicine, 9th edition, revised chapter for 10th edition in press

Editor-in-Chief, Chief Medical Officer's Annual Report (England), The Health of the 51%: Women, December 2015 Chapter author, B Leigh, E Mullins, L Regan, 'A human rights approach to women's health,' in Davies, S.C. "Annual Report of the Chief Medical Officer, 2014, The Health of the 51%: Women" London: Department of Health (2015) Chapter Author, E Mullins, 'Basic Embryology', chapter in ibook, 'Reproductive Medicine', for Year 2 medical students at Lee Kong Chian School of Medicine (LKC Medicine)/Imperial College, Singapore.

AWARDS, ORAL AND INVITED PRESENTATIONS

Invited presentations

E Mullins, Invited speaker at the Association of Anaesthetists' Annual Congress, 'Bias and Women's health outcomes,' September 2022.

E Mullins, Invited speaker at the **All Party Parliamentary Group**, **Sexual and Reproductive Health**, October 2021 meeting on women's lifecourse health, presenting the new NW post-birth contraception service, which I lead.

E Mullins, Stuart Campbell lecture, after my rapid review on coronavirus and pregnancy was the highest-cited article in the journal for 2020/21 (249 citations). International Society of Ultrasound in Obstetrics and Gynaecology World Congress, October 2021

E Mullins, Invited speaker presenting the health economic case for post-birth contraception services in England, National Commissioner's meeting, Sexual and Reproductive Health, August 2021

E Mullins, 'Contraception and diabetes,' and, 'Pre-conception counselling and gestational diabetes aftercare for primary care.' Invited speaker, Diabetes UK Professional Conference, April 2021

E Mullins, The case of fetal monitoring in labour: What is the research evidence? Royal Society of Medicine, Invited Speaker: Is continuous electronic fetal monitoring useful for all women in labour? March 2021.

E Mullins, Evidence for Post-delivery contraception, Post-delivery contraception Online Conference, 16th December, 2020

E Mullins, Putting checks and balances in place to ensure maternity care for women with diabetes is safe in any future epidemic, Diabetes UK Webinar 28th October 2020

E Mullins, Testing reliably for SARS-CoV-2, International Society for Ultrasound in Obstetrics and Gynaecology, 14th April 2020

E Mullins, Can we accurately predict macrosomia and should this affect timing of birth? Diabetes UK Professional Conference, 7th March, 2019

E Mullins, CMO annual report and Immediate Post-Partum Contraception, *National Labour Ward Leads Meeting*, 19th *June*, 2016, *Invited*

E Mullins, 'Medical Complications in Pregnancy', *Obstetrics and Gynaecology study day, Royal Society of Medicine,* 27th February, 2016, **Invited**

E Mullins, Women's Health in 2015, Speaker and chair of session at Public Health England's 'Gender in health,' round table meeting, 20th February 2015, **Invited**

<u>Oral presentations</u> F Jan, **E Mullins**, Evaluation of pregnancy-related information-seeking behaviour & utilising YouTube to innovatively deliver maternity information, *Royal College of Obstetricians and Gynaecologists Annual Congress*, *February 2022*.

E Mullins PAN-COVID data, the impact of SARS-CoV-2 on pregnancy and neonates, *International Society of Ultrasound in Obstetrics and Gynaecology World Congress, October 2021*

E Mullins, Preventing neonatal hypoglycaemia: targets in intrapartum glycaemia, *CRN NW London Diabetes Research Symposium*, *February 2020 Invited*

R Scott, **E Mullins**, P Pantelidis, B Jones, J Terry, C Yu, A Dornhorst, S Robinson, R Agha-Jaffar, S Misra, A Waiting Game - Progression of Autoantibody Positive Gestational Diabetes to Type 1 Diabetes. *Oral presentation, Diabetes UK Professional Conference, March 2019*

E Mullins, Obstetrics for general physicians, Obstetric Medicine for GIM Physicians, *Imperial College, January 2019* **E Mullins**, Violence against women and pregnancy, *British Society of Biopsychosocial Obstetrics and Gynaecology Annual Conference, September 2018 <i>Invited*

E Mullins, The health consequences of violence against women, *Cumberland Lodge, Violence Against Women: A Determinant of Health Conference, 6-7th February, 2017 Invited*

B Karavadra, **E Mullins**, E Prosser-Snelling, E Morris, A mixed qualitative and quantitative analysis on the impact of endometriosis on women in the United Kingdom; a silent disease? *Oral presentation, RCOG Annual Congress, 20-22nd July, 2016*

E Mullins, T Prior, K Skogstrand, I Roberts, S Kumar, Cord blood and post-delivery cytokines, chemokines and neurotrophins in infants affected by fetal growth restriction, *ISUOG 2012*

E Mullins, L Story, T Prior, S Kumar, Distribution of cardiac output and vessel diameters in growth restricted fetuses – Is the fetal brain really protected? *ISUOG 2012*

E Mullins, G Paramasivam, T Prior, S Kumar, B Jones, M Noori, R Wimalasundera, Dichorionic Tri-Amniotic triplets (DCTA): conservative and interventional management and outcomes, *Short oral presentation, ISUOG 2012*

E Mullins, Intra-Uterine Growth Restriction: Not a small problem. *Annual conference of the British Medical Ultrasound Society, London, 2011.*

E Mullins, Story, S, Damodarum, M, Kumar, S, Fetal arteries show global vasodilation in Intra-Uterine Growth Restriction. *Oral presentation at 9th RCOG International Scientific meeting, Athens 2011*

E Mullins, Macrae, C, Kumar, S, The perinatal outcome of pregnancies complicated with very low first trimester PAPP-A levels. *Oral presentation at London Speciality School of Obstetrics and Gynaecology Conference, 2010*

<u>Prizes</u> E Mullins, Stuart Campbell Lecture, 'COVID and Pregnancy,' *International Society of Ultrasound in Obstetrics and Gynaecology World Congress, October 2021*

E Mullins, N Agarwal, J Odenjinme, How to interpret the presenting symptoms of ectopic pregnancy? The triad associated with major haemorrhage, *Prize - Best oral presentation at conference, BSGE silver jubilee meeting, June 4/5th 2015.*

T. Prior, **E. Mullins**, P. Bennett, S. Kumar Prediction of intra-partum fetal distress using the fetal cerebro-umbilical ratio, DOI: 10.1002/uog.11314, *Oral presentation, ISUOG 2012 Prize - Best oral presentation in session*

E Mullins, L Story, T Prior, Kumar, S, Intra-Uterine Growth Restriction and fetal circulation: It's not all going to their heads. *Oral presentation at Herbert Reiss Prize meeting, Royal Society of Medicine, 2012.* (Herbert Reiss Prize for best oral presentation)

E Mullins, Roberts I, Kumar, S, Maternal and Fetal Peripheral Blood Mononuclear Cells produce altered pro- and antiinflammatory cytokines in Intra-Uterine Growth Restriction. *Oral presentation at 9th RCOG International Scientific meeting, Athens 2011* (*Prize – Best oral presentation in session*) Clinical Advisor CMO (England), Professor Chris Witty, DHSC, February 2020, acute policy response to COVID-19 outbreak. Prepared briefing, 'Coronavirus: Impact on Pregnancy,' for CMO, DHSC and AoMRCs. Presented rapid reviews to SAGE. Supported setup up New and Emerging Respiratory Virus Threats Advisory Group (NERVTAG) therapeutics committee.

Invited policy advisor to RCOG by Prof. Lesley Regan, 2018-2019

Member of Public Health England's (PHE), 'Reproductive Health consensus', 2016-2017

Rapportuer at, 'A Global Roadmap for Tackling Childhood Obesity Within and across countries,' St Geoge's house Consultation, Windsor Castle, June 2-3rd 2016 in association with the RCPCH.

Briefed Minister for Public Health PS(PH), on amendment to serious crime bill relating to restricting sex-selective abortion, CMO's annual report, menopausal health in the workplace

Briefed Minister for Women, Equalities and Family justice on menopausal health in the workplace

Member of PHE, 'Women who have sex with women,' advisory group, 2015.

Member of PHE, 'Missed Opportunities in Pregnancy,' advisory group on contraception pathways post-pregnancy, 2015.

Invited speaker and chair of session, PHE 'Gender in health,' round table meeting, 20th February, 2015
Attended monthly Chief Medical Officer's Public Health meetings, where regional directors of public health, leaders of PHE and invited speakers discuss current and emerging issues in public health 2015/2016

NHS SERVICE IMPROVEMENT

I lead the NW London post-birth contraception service, which I worked with colleagues in obstetrics, midwifery, SRH, commissioning and the local authority to set up before and during the pandemic. Women in NW London can now leave maternity services with their choice of reliable contraception including Long-Acting Reversible Contraception (LARC). The aims of the service are equitable access to contraception in maternity services, to reduce short inter-pregnancy intervals (associated with pre-term birth and neonatal death), and to educate and train maternity staff in contraception counselling and delivery.

I led bids to win £100k in charitable funding from Imperial Health charity and CW+ charity to create two midwife posts and fund a training programme in contraception counselling and delivery for the 6 maternity centres in NW London. We have trained 36 HCPs in fitting LARC and embedded contraception counselling and LARC provision in maternity services for 29,000 women a year. I chair the steering group and have presented our experience and evaluations to the National SRH commissioners' group, the APPG for SRH and to multiple regional commissioners to support national introduction of this essential service.

TEACHING AND SUPERVISION

Thesis Progression Committee member, A Hurrell, PhD candidate, Placental growth factor-based repeat testing in suspected preterm pre-eclampsia, Kings College London

Late stage reviewer, 2019, M Gerval, MD candidate, Imperial College

Supervisor -PhD, Beatrice Ope, No Woman Deserves to Die While Giving Life: An Assessment of Maternal Healthcare Utilization in Nigeria

Alison Perry, A Realist review and evaluation of engagement of women with their healthcare

- -8 BSc students (2018,19, 20), Imperial College Reproductive Sciences course. Developed a YouTube channel for pregnancy information, PPI into preconception health and diabetes, achieving a 1st and 2:1s.
- -3 MRes (2019-present, obesity and nutrition) students (2019) in related projects;

'The use of a fibre supplement to reduce risk of recurrent GDM in pregnancy,' (completed, August 2019-78% for project and 1st)

'The subjective and objective evaluation of diet in women with previous and recurrent GDM,' (ongoing)

Lectures Diabetes in Pregnancy, Obesity in Pregnancy, PPI and Pre-conception health, Imperial College Reproductive Sciences BSc, 2017, 2018 and 2019.

Education Member, development group for revised syllabus for Imperial College Reproductive Sciences BSc

REVIEWER

NIHR HTA

MRC CRTF, MRC Research Grant scheme

Lancet, BJOG, BMC Pregnancy and Childbirth, Ultrasound in Obstetrics and Gynaecology, Canadian Medical Journal

I, Fantasia, C Lees, B Mylrea-Foley, L Monasta, **E Mullins**, F Prefumo, G Zamagni, T Stampalija Current practice in the diagnosis and management of fetal growth restriction: an international survey, World Congress on Ultrasound in Obstetrics and Gynecology, 16–18 September 2022, London, UK & Virtual September 2022

Y Mulji, **E Mullins,** 'Post Birth Contraception,' *Royal College of Obstetricians and Gynaecologists Annual Congress, February 2022.*

E Mullins, R Delgado, P Carnduff, A Dornhorst, Gestational diabetes and type-2 diabetes in women in North West London, *accepted, Diabetes UK Professional Conference, March 2020*

AJ Shonfeld, **E Mullins**, S Malhotra, Maternal positioning during caesarean section – wedge or tilt? *Obstetric Anaesthetists' Association conference, 2013* (Winner, best poster in caesarean section category)

G Paramasivam, **E Mullins**, T Prior, R Wimalasundera, S Kumar: Perinatal outcomes following radiofrequency ablation in monochorionic pregnancies. *ISUOG 2012*

S Sankaran, **E Mullins**, L Story, S Kumar, PM Kyle: Outcome of pregnancies with severe IUGR detected by ultrasound scan at or before 24 weeks. *British Maternal and Fetal Medicine Society 15th Annual Conference, Glasgow, 2012.*

E Mullins, MS Damodaram, L Story, T Prior, S Kumar, Fetal circulatory redistribution in normal and intra-uterine growth restriction pregnancies by volume blood flow, *BMFMS 2012*

E Mullins, L Story, T Prior, S Kumar, Fetal renal artery volume blood flow is altered in early-onset intra-uterine growth restriction and has a non-linear relationship with AFI, *BMFMS 2012*

T Prior, **E Mullins**, P Bennett, S Kumar, Pre-labour fetal cerebro-umbilical ratio is predictive of intra-partum fetal distress, *BMFMS 2012*

T Prior, M Wild, **E Mullins**, P Bennett, S Kumar, Emergency caesarean section for fetal distress in labour is associated with smaller babies than spontaneous vaginal delivery, *BMFMS 2012*

E Mullins, L Story, M Damadoram,T Prior, S Kumar, IUGR and blood flow redistribution. *Annual Academic Meeting RCOG 2011 (Blair Bell research meeting)*

T Prior, **E Mullins**, P Bennett, S Kumar, Prediction of intra-partum fetal compromise using the cerebro-umbilical ratio. *Annual Academic Meeting RCOG 2011 (Blair Bell research meeting)* (*Prize- Best poster*)

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