

CURRICULUM VITAE

MARIAN KNIGHT

MA MBChB MPH DPhil FFPH FRCPE FRCOG FMedSci
MBE

GMC Number: 3675751

Name: Marian KNIGHT (née FLINN)

Current Positions: NIHR Scientific Director for Research Infrastructure;
Programme Director, NIHR Programme Grants for Applied Research;
Director, National Perinatal Epidemiology Unit, Nuffield Department of
Population Health, University of Oxford;
Principal Investigator, Chinese Academy of Medical Sciences Oxford
Institute;
Cardiovascular Medicine theme co-lead, Oxford Biomedical Research
Centre;
Honorary Consultant in Public Health, Office for Health Improvement
and Disparities, Department of Health and Social Care.

Qualifications:

FFPH	Dec 06	
MPH with Distinction	Dec 01	University of Birmingham
DPhil	Jan 98	Lincoln College, University of Oxford
MChB.	July 92	University of Edinburgh.
BA (Hons)	June 89	Gonville & Caius College, University of Cambridge. Class 2(i)
(MA 1993)		

H-index: 90 (Google Scholar) **i10-index:** 272 (Google Scholar)

Awards:

January 2023	Member of the Order of the British Empire (MBE)
October 2022	Senior Supernumerary Fellowship, Exeter College
November 2021	Hooker Distinguished Visiting Professorship, McMaster University, Hamilton, Ontario, Canada
October 2021	International Federation of Gynecology and Obstetrics Recognition Award to Non-Obstetrician/Gynecologists
May 2021	Fellowship, Academy of Medical Sciences
July 2020	UK Research Paper of the Year 2020, BMJ Awards
July 2020	Highly Commended, University of Oxford Vice-Chancellor's innovation awards for policy engagement
February 2020	NIHR Senior Investigator Award
September 2019	Boerhaave Visiting Professorship, University of Leiden, The Netherlands
September 2017	Fellowship Ad Eundem of the Royal College of Obstetricians and Gynaecologists (RCOG)
October 2014	University professorship, Professor of Maternal and Child Population Health
April 2014	Bronze national Clinical Excellence Award
December 2013	Fellowship by distinction, Royal College of Physicians of Edinburgh
May 2012	NIHR Research Professorship
June 1987-9	Gonville and Caius College Scholarships, Clinical Scholarship, Mitchell Scholarship for Medicine, Tancred Studentship in Physic

Employment:

From Feb. 12	<u>Professor of Maternal and Child Population Health</u> National Perinatal Epidemiology Unit, Nuffield Department of Population Health, University of Oxford (Seconded as NIHR Scientific Director for Research Infrastructure 20% FTE from June 2023)
Nov. 06 to Feb. 12	<u>Senior Clinical Research Fellow/ University Research Lecturer</u> National Perinatal Epidemiology Unit, Old Road Campus, University of Oxford (Part-time 75% to November 2009, full time subsequently)
Feb. 04 to Oct. 06	<u>Specialist Registrar Oxford Deanery Public Health Rotation</u> National Perinatal Epidemiology Unit, Old Road Campus, University of Oxford (Part-time 60%)
Nov. 01 to Jan. 04	Oxfordshire Health Authority/ Cherwell Vale and North East Oxon PCTs. (Part-time 60%, maternity leave Nov 02-June 03)
Jan. 00 to Oct. 01	Health Services Research Unit, Institute of Health Sciences, University of Oxford. (Full time, maternity leave Oct 00-Oct 01)
Feb. 99 to Jan. 00	Department of Public Health and Primary Care, Buckinghamshire Health Authority. (Full time, maternity leave June 99- Dec 99)
Feb. 98 – Feb. 99	<u>Senior House Officer (Full Time)</u> Dept. of Obstetrics and Gynaecology, John Radcliffe Hospital, Oxford.
Feb. 95 - Jan. 98	<u>Clinical Research Fellow (Full Time)</u> Dr. I.L.Sargent and Prof. C.Redman. Nuffield Dept. of Obstetrics and Gynaecology, University of Oxford.
Aug 93 - Jan. 95	<u>Senior House Officer (Full Time)</u> Neonatology (Newcastle) and Obstetrics and Gynaecology (Edinburgh)
Aug 92 - July 93	<u>House Officer (Full Time)</u> Edinburgh Hospitals

Committees and Positions of responsibility:

NIHR Scientific Director for Research Infrastructure, June 23 to date
 Programme Director, NIHR Programme Grants for Applied Research programme, April 2023 to date
 Member, WHO Technical Advisory Group on Development of Guidance on Best Practices for Clinical Trials, February 2023 to date
 Programme Director, NIHR Research for Patient Benefit programme, March 2022 to July 23
 Scientific Committee member, WHO Maternal Health Research Coordination & Health Emergencies initiative, Sept 2021 to date.
 Chair, NIHR Health Technology Assessment programme commissioning board, January 2021 to March 2022.
 Member, NIHR Multiple Long-term Conditions (Multimorbidity) Oversight Group, January 2020 to date.
 Impact Lead for Unit of Assessment 2, REF 2021, University of Oxford.
 Chair, NIHR Programme Grants for Applied Research funding panel, September 2017 to January 2021.
 Coordinator for Europe, WHO Global Maternal Sepsis Study, Sept 2016 to date
 Chair, NIHR Research for Patient Benefit Programme South Central Regional Funding Committee, January 2014 to December 2017.
 Member, WHO Taskforce to evaluate influenza in pregnancy data to inform vaccine impact and economic modelling, Oct 2014 to Sept 2017
 Member, Strategic Oversight Committee, Nuffield Department of Population Health, June 2014 to date

NIHR: In June 2023 I was appointed as NIHR Scientific Director for Research Infrastructure, one of four NIHR Scientific Directors, responsible for strategic direction of NIHR infrastructure, including Biomedical Research Centres, Applied Research Collaborations and Translational Research Collaboratives, an annual budget of approximately £700m.

In April 2023 I was appointed Programme Director for the Programme Grants for Applied Research programme, overseeing an annual portfolio of around £60 million; my main aim is to make the programme more agile and responsive, enabling multi-methodology approaches and ensuring a more rapid trajectory of programmes through from NIHR infrastructure.

I was Programme Director for the NIHR Research for Patient Benefit Programme from March 2022 to August 2023. I developed new initiatives to strengthen the careers of under-represented disciplines and specialisms, beginning with nurses and midwives and applied health research methodologists who are under-represented as leaders of research.

Public Health: My public health work focusses both on improving the quality of national and international clinical care but also on addressing the wider determinants of health as they pertain to women's and children's health. I lead national surveillance and investigations into all maternal deaths which occur during pregnancy and up to a year after the end of pregnancy as part of the MBRRACE-UK (Mothers and Babies: Reducing Risk through Audits and Confidential Enquiries in the UK) collaboration, including a team of over 100 clinical assessors. I led the expansion of the programme to include investigations into severe morbidity and have achieved notable impacts including the establishment of maternal medicine networks and a national focus on ethnic disparities in maternal health. My MBRRACE-UK work is cited as evidence underlying the national maternity strategy, including expanding access to specialist perinatal mental health services, and new funding of £50 million for perinatal mental health services in Scotland. My work has highlighted that most women who die have multiple and complex health, social and cultural vulnerabilities which are exacerbated by structures not set up to deal with complexity. Actions to change systems to allow seamless health and social care are now a key focus of this work.

As a recognised expert I have contributed to developments in maternity policy internationally, leading to new legislation in the US (the US Congress Preventing maternal deaths act of 2018) regarding maternal mortality surveillance and review, and providing evidence driving World Health Organisation (WHO) initiatives on sepsis, covid-19 and maternal mental health, as well as the health care of pregnant refugee and migrant women and newborn children.

Research: I conduct a range of studies to address key challenges with global relevance in maternal and child health, using a range of epidemiological study designs, including randomised clinical trials, observational studies and qualitative work. My focus has been to develop specific methodologies within the UK context and to then expand these to international settings.

I developed the UK Obstetric Surveillance System (UKOSS) to undertake national studies of uncommon and severe disorders of pregnancy and the British Association of Paediatric Surgeons Congenital Anomalies Surveillance System (BAPS-CASS) and subsequently Children's Surgery Outcomes Reporting (CSOR) programme to study the surgical management of uncommon neonatal conditions. All UK hospitals participate in these surveillance systems; I thus manage collaborations of over 700 clinicians from multiple disciplines. I have demonstrated the effectiveness of studies using these systems to answer questions relating to disease incidence and prevalence, audit guidelines and changes in practice, investigate risk factors, describe and evaluate management techniques, including investigating cost-effectiveness, and describe outcomes. The results of these studies are widely cited in national (e.g. National Institute for Health and Care Excellence) and International (e.g. WHO) policy and guidelines. I demonstrated the effectiveness of using the system to generate important information to guide policy and practice in the context of international public health emergencies, the 2009/H1N1 influenza pandemic, following concerns about Zika virus in pregnancy in response to a request from Public Health England, and I activated a study of SARS-CoV-2 in pregnancy three days after the request from the Department of Health and Social Care. I have successfully linked this work with the UK Confidential Enquiry into Maternal Deaths to expand the national focus on morbidity, and with the RECOVERY RCT of therapies for COVID-19 to enable participation of pregnant women in the trial and detailed follow-up of pregnancy outcomes.

The model I developed for UKOSS has now been taken up and similar systems launched in 22 countries, including low- and middle-income country settings. The work in Assam, a region in the North-East of India, was established using pump-priming funding from the University of Oxford John Fell Fund, and has now been successfully taken forward as part of her MRC post-doctoral research fellowship by my researcher Dr Manisha Nair. The rapid activation and utility of the UKOSS Covid-19 in pregnancy study has led to the model being used by the WHO and Gates Foundation to develop a new system for rapid pregnancy surveillance in future pandemics. In order to maximise the benefit of studies of uncommon conditions internationally, I set up the International Network of Obstetric Survey Systems (INOSS) to facilitate multinational collaborative and comparative studies. Members of the collaboration have recently been awarded an NIHR Global Health Research Group award to optimise maternal and perinatal death surveillance and response to prevent future deaths. The model of UKOSS to conduct national observational studies is also being taken forward in other specialties, including paediatric orthopaedic surgery, towards which I have been mentoring an NIHR Clinician Scientist, now appointed as an NIHR Professor, based at the University of Liverpool.

My work in maternal and child health has led to other research focussed on the wider global research agenda, including evaluation of influenza data to inform vaccination in pregnancy impact and economic modelling, investigation of the increasing international trend in incidence of postpartum haemorrhage, and investigation of the global burden and management of maternal sepsis in order to develop future intervention studies.

I am the maternal cardiovascular medicine subtheme co-lead for the NIHR Oxford Biomedical Research Centre, bringing together my strengths in population health with discovery science expertise to address acquired cardiovascular disease which is the leading cause of death during and after pregnancy in the UK. Drawing on work across the theme, we are aiming to understand which mothers are at greatest risk of developing cardiovascular disease in future, what interventions might reduce that risk, and which new therapies have the potential to translate into use in the NHS after clinical trials.

My focus within the Chinese Academy of Medical Sciences (CAMS) Oxford Institute is on prevention and treatment of maternal infection, which remains a leading cause of mortality and morbidity globally. Pregnant and postpartum women are known to be at risk of severe infection with a number of pathogens, for example influenza, SARS-CoV-2 and Group A Streptococcus. Infection severity tends to increase with duration of pregnancy and may reflect physical changes such as the impact of the gravid uterus on respiratory capacity, or routes of ingress for pathogens after rupture of membranes or childbirth, or pregnancy associated immune-metabolic changes. Distinct pathophysiology and predictive markers are increasingly recognised for subphenotypes in non-pregnant adults but the extent to which these occur in pregnancy is unknown. The vaginal microbiome is increasingly thought to be related to infection susceptibility as well as pathologies such as preterm birth, but there have been few studies of host-pathogen interactions, nor of maternal immune function and genetic or epigenetic variation which might be associated with infection susceptibility. This work brings together my population health expertise with genomic medicine collaborators to use these new approaches to tackle this important disease area.

Teaching:

I was the module co-champion for the Maternal and Child Health module in the University of Oxford Global Health MSc course since its inception in 2009-10 until 2021. I supervise masters students undertaking dissertations for this course as well as the MSc in epidemiology at the London School of Hygiene and Tropical Medicine. I am currently supervising five PhD students and am the educational trainer for an NIHR Academic Clinical Fellow in public health and academic supervisor for an academic clinical lecturer in paediatric surgery. I teach on several different postgraduate courses including for the RCOG and Obstetric Anaesthetists Association. I tutor undergraduate medical students in epidemiology and study design, as well as supervising medical students undertaking University of Oxford Final Honours School projects and final year research placements.

Impact:

I led the national Urgent Public Health surveillance study of hospitalisation with SARS-CoV-2 infection in pregnancy; data collection began March 2020, 3 days after activation. I conducted weekly analyses until March 2022 for the Department of Health and Social Care, the devolved nations, the World Health Organisation and the Royal College of Obstetricians and Gynaecologists (RCOG). This informed regularly updated RCOG guidance (2020-2022) for maternity services as well as NHS England recommendations. I presented this work to the Joint Committee on Vaccination and Immunisation in Dec 2021, showing that most pregnant women who died or became seriously ill were unvaccinated, leading to a change in policy and pregnant women being

included as a priority group for vaccination (Dec 2021). Under my leadership the study also identified significant disparity in outcomes for women from ethnic minority groups, leading the Chief Midwife in England to instruct all maternity units to take actions to minimise the additional risk of COVID-19 for minority women and babies (June 2020).

My work leading the MBRRACE-UK Confidential Enquiries into Maternal Deaths and Morbidity and the UK Obstetric Surveillance System has driven changes in maternity strategy across the 4 UK nations, for example it is cited as evidence underlying the national maternity strategy, including expanding access to specialist perinatal mental health services in the NHS England Long Term Plan (January 2019), and the Scottish Government's Women's Health Plan (Aug 2021), including a focus on heart health and the need to recognise cardiovascular disease in younger women. Under my leadership, through a renewed communication strategy including use of summary infographics, the Confidential Enquiry findings of large disparities in maternal mortality amongst women from different ethnic and socioeconomic groups (Nov 2018-date) have led to many national impacts to drive quality improvement, for example:

- a. The NHS England Long Term Plan (2019) now specifies a target of 75% of Black, Asian and other ethnic minority women and those from deprived areas receiving an enhanced and targeted continuity of carer model to help improve outcomes for the most vulnerable mothers and babies.
- b. My identification of worsening disparity in outcomes between women from Black ethnic groups compared to White women has led to new advocacy campaigns, including 'fivexmore' who held the first Black women's health awareness week in September 2020, and establishment of the RCOG race equality taskforce (Jul 2020).
- c. Establishment of a Department of Health and Social Care (DHSC) Maternity Disparities Taskforce (Feb 2022) of which I am an expert member.
- d. Inclusion of maternity as one of the five key clinical priorities in the NHS England "CORE20PLUS5" approach to reducing healthcare inequalities (Dec 2021).
- e. Introduction of NHS England "Equity and equality guidance for local maternity systems" (Sept 2021).
- f. A focus on reducing maternity outcomes disparities in the DHSC "Women's Health Strategy (Jul 2022).
- g. This has led to a year-on-year reduction in the disparity in maternal mortality rates between Black and White women in the UK from 5 times higher (Nov 2018) to 3.7 times higher (Nov 2022).

The ANODE RCT I led showed that a single dose of prophylactic antibiotic after forceps/ventouse birth decreased postnatal infections in women from 19% to 11% and led to an overall decrease in antibiotic use (published Lancet 2019). Awarded 'UK Research Paper of the Year' BMJ awards 2020. Prophylaxis is now recommended as standard practice in UK guidelines (2020) (8000 infections prevented annually) and WHO guidelines (2021) (estimated 100,000-1.5 million infections prevented annually).

Mentorship: Mentor for the Academy of Medical Sciences.
Mentor for an NIHR advanced fellow (non-clinical) and Clinician Scientist fellow (Clinical).

Management training: NIHR Leadership Development and Support Programme, Ashridge Business School 2011-15.
Chartered Management Institute Level 3 Introductory Certificate in Management August 2007.

Athena SWAN activities:

Member of National Perinatal Epidemiology Unit Self Assessment team from its inception to 2020. Silver award renewed.

Member of career development working group.

Consultancy: Previously Clinical Advisor to Amgen Ltd. A Multinational Observational Study to Evaluate the Safety of Repatha® in Pregnancy. 2015 to 2019.

Competitive Grants Held:

Totals: £22,169,437 as principal investigator, £120,934,067 as co-investigator

M Willcox, Manu A, Islam N, Palestra F, Tura AK, Mubangizi V, Murokora D, **Knight M (co-investigator)** et al. Optimising Maternal and Perinatal Death Surveillance and Response to prevent future deaths. Four-year NIHR Global Health Research Group grant. Awarded October 2023, £2,999,998.

M Knight (Co-Director), F Alderdice, C Carson, J Douglas, C Gale, A Heazell, S Kenyon, J Kurinczuk, N Modi, R Plachinski, M Quigley, O Rivero-Arias, R Rowe, J Sanders, L Smith, A Stein. NIHR PRP. Policy Research Unit in Maternal and Neonatal Health and Care five year grant. Awarded May 2023, £5,499,139.

J Hippisley-Cox, Hirst J, Coupland C, Dixon S, **Knight M (co-investigator)** et al. Safety of medications in pregnancy - a novel approach to improving shared decision making. NIHR PGfAR 60 month grant. Awarded April 2023. £2,605,680.

Knight M (co-principal investigator), Duhig K, Hyrich K, Myers J, Ralston S, Hardy P, Ashcroft D, Gale C, Frise C, Johnson S, Dakin H, Kelly D, Murphy J, Skrybant M. The Monoclonal Antibody Medications in inflammatory Arthritis: stopping or continuing in pregnancy (MAMA) trial. NIHR HTA 72 month grant. Awarded March 2023, to commence March 2024, £3,058,558.

Knight M (co-principal investigator), Watkinson P, Kelly T, Banerjee A, Sandall J, Collins G, Clifton G, Gerry S, Redfern O, Stanford S, Igwe S, Rivero-Arias O. Defining, Recognising and Escalating Maternal Early Deterioration (DREaMED): Decreasing inequality through improved outcomes. NIHR PGfAR 60-month programme grant. March 2023, £2,684,110.

H McShane, **M Knight (co-theme lead cardiovascular medicine)** et al. NIHR Oxford Biomedical Research Centre five year grant. Dec 22 £86,619,750

A Heazell, J Kurinczuk, **M Knight (co-investigator)**, O Rivero-Arias, C Bevan, M Adams, S Igwe, A Wittkowski. NIHR Policy Research Programme 18-month project grant. Evaluating Maternity Investigations from the Perspective of Individuals, Resources and Endpoints to improve outcomes for mothers and babies (EMPIRE Mother and Baby). November 2022, £383,851

RK Morris, L Jones, V Hodgetts, S Webb, J Maltby, S Hillman, N Adderley, A Stich, OL Aiyegbusi, C Macarthur, **M Knight (co-investigator)**, K

- Nirantharakumar, J Whitehurst, A Wilson, L Magill. NIHR PGfAR 48-month programme grant. Optimising the care of women following childbirth related perineal trauma. Awarded Sept 2021, £1,199,331.
- E Chakkarapani, J Kurinczuk, C Gale, **M Knight (co-investigator)**, S Johnson, R Cornish. Action Medical Research 18 month project grant. Impact of SARS-CoV-2 exposure during pregnancy and the neonatal period on infants' neurodevelopment and social-emotional outcomes. Awarded Dec 2020, £151,287.
- N Hall, I Yardley, E Juszczak, **M Knight (co-investigator)**, L Linsell, K Woolfall, C Roeher, O Rivero-Arias, G Parker, J Pierce. NIHR HTA 90 month project grant. Treating Oesophageal Atresia to prevent Stricture (TOAST). Awarded June 2020, £2,017,358.
- M Knight (Principal Investigator)**, NIHR Senior Investigator award (4 years). Awarded February 2020, £80,000
- M Knight (Principal Investigator)**, S Kenny, B Allin, N Lansdale, L Hinton, J Shepherd, O Rivero-Arias, N Hall, P Badger, C Opondo, A Long, C Jenkinson, A Bibby. NIHR HS&DR five year project grant. Improving unwarranted variation in outcomes of children's surgery through a new Children's Surgery Outcome Reporting system using routinely available data (CSOR). Awarded August 2019, £2,177,431.
- S Stanworth, **M Knight (co-Principal Investigator)**, H Thomas, J Murray, S Lax, D Churchill, A Deary, H Spiiby, F Lorencatto, C Gale, N Roy. NIHR PGfAR five year programme grant. The PANDA research programme: Primary prevention of maternal anaemia to avoid preterm delivery and other adverse outcomes. Awarded August 2019, £2,369,105.
- L Chitty, M Hill, **M Knight (co-investigator)**, M Parker, J Ledger, N Fulop, M Kroese, S Ellard, J Fisher, D McMullan, D Tapon, A McEwan, K Leeson-Beevers, S Morris. NIHR HS&DR three-year project grant. Optimising Exome Prenatal Sequencing Services – EXPRESS. Awarded August 2019, £1,198,842
- N Lansdale, N Hall, K Woolfall, **M Knight (co-investigator)**, C Gale, G Penman, C Battersby, L Linsell, L Flanagan, R Goldacre. NIHR HTA two year project grant. Timing of Stoma Closure in Neonates. Awarded August 2019, £395,406.
- K Walker, N Jones, N Tempest, R Ogollah, E Mitchell, L Bradshaw, P Pallotti, R Plachcinski, J Thornton, J Dorling, **M Knight (co-investigator)**, S Ayers. NIHR HTA Two year project grant. Management of an impacted fetal head during emergency caesarean section. Awarded Feb 2019, £194,263.
- M Knight (Principal investigator)**, D Churchill, M Strachan, M O'Connor, DG Ayman, K Bunch. NIHR RfPB two-year project grant. A national case-control study and confidential case review to examine the incidence, aetiology, significant risk factors, management and outcomes of diabetic ketoacidosis in pregnancy. Awarded July 2018, £149,415.
- J Kurinczuk, F Alderdice, C Bevan, P Brocklehurst, C Carson, E Draper, C Gale, A Heazell, S Kenyon, **M Knight (co-investigator)**, N Modi, R Plachinski, M Quigley, O Rivero-Arias, R Rowe, J Sanders, D Siassakos, A Stein. NIHR PRP. Policy Research Unit in Maternal and Neonatal Health and Care five year grant. Awarded July 2018, £4,999,199.
- M Knight (Principal investigator)**, S Oddie, P Buchanan, C Carter, A Long, M Quigley, O Rivero-Arias, E Juszczak. NIHR HTA three-year project grant. FROSTTIE: A multicentre randomised controlled trial of Frenotomy Or breastfeeding Support for babies with Tongue-TIE. April 2018, £1,012,344.
- JJ Kurinczuk, **M Knight (Principal investigator, maternal programme)**, P Brocklehurst, ES Draper, et al. Healthcare Quality Improvement Partnership on behalf of NHS England, Departments of Health England, NHS Wales, the

- Health and Social Care Division of the Scottish government, The Department of Health, Social Services and Public Safety (DHSSPS), Northern Ireland, the States of Jersey, Guernsey, and the Isle of Man four year grant. National Maternal, Newborn and Infant Clinical Outcomes Review Programme (MBRRACE-UK). Oct 2017, £3,482,067.
- J Bamber, **M Knight (co-investigator)**. Obstetric Anaesthetists Association one-year project grant. Development of quality indicators for obstetric anaesthetic care. Sept 2017, £4,000.
- P Sharpe, N Lucas, G Stocks, **M Knight (co-investigator)**. Obstetric Anaesthetists Association three-year project grant. High spinal block as a consequence of obstetric regional anaesthesia / analgesia. Sept 2017, £15,500.
- C Williamson, **M Knight (co-investigator)**. Lauren Page Trust three-year project grant, UKOSS Cirrhosis in pregnancy study. June 2017, £15,000.
- JJ Kurinczuk, ES Draper, D Field, **M Knight (co-investigator)** et al. Healthcare Quality Improvement Partnership 67 month grant. National Perinatal Mortality Review Tool. February 2017, £2,359,380.
- A Long, A Morabito, **M Knight (co-investigator)**. Newlife 24 month project grant, Short Bowel Syndrome. Oct 2016, £14,668.
- K Morris, M Kilby, **M Knight (co-investigator)**. British Maternal Fetal Medicine Society/Twins and Multiple Births Association 24 month bursary. A national study of the incidence, management and outcomes of single twin demise. Nov 2015, £20,000
- B Allin, NIHR three-year Doctoral Fellowship. **M Knight (lead supervisor)**. Improving outcomes through development and implementation of Core Outcome Sets in paediatric surgical research. Oct 2015, £407,941
- M Knight (Principal Investigator)**, K Ismail et al. NIHR HTA 38 month project grant: ANODE trial: Antibiotic prophylaxis for Operative vaginal DELivery. March 2015, £1,303,026
- S Goodacre, F Lecky, ... **M Knight (Co-investigator)** et al. NIHR HTA 30 month project grant. DiPEP: Diagnosis of Pulmonary Embolism in Pregnancy. Oct 2014, £646,855
- S Vause, B Clarke, C Tower, C Hay, **M Knight (Co-investigator)**. Wellbeing of Women three year project grant. Pregnancy outcomes in women with prosthetic heart valves. July 2012, £15,195
- M Knight (Principal Investigator)**. NIHR Research Professorship. May 2012 £1,304,649
- J Kurinczuk, **M Knight (Co-investigator)**, M Redshaw, R Gray, E Draper, D Field, L Smith, B Manktelow, P Brocklehurst, J Neilson, S Kenyon, N Modi, J Shakespeare, J Scott, C Bevan. Healthcare Quality Improvement Partnership three year grant (extended for a further two years). Maternal Newborn and Infant Clinical Outcomes Review Programme. May 2012. £2,142,660 + £1,428,440.
- M Knight (Principal Investigator)**, J Kurinczuk, P Brocklehurst, M Quigley, P O'Brien. NIHR HTA eighteen month project grant. Maternal and perinatal outcomes of pandemic influenza in pregnancy. Feb 2012, £64,916 + £10,346 + £69,051 (Nov 2106 to extend to seasonal influenza, Mar 2020 to activate for Covid-19).
- V Beckett, P Sharpe, L McCarthy, **M Knight (Co-investigator)**. Wellbeing of Women three year project grant. Cardiac Arrest in Pregnancy Study. July 2011, £13,500
- G Walker, T Bradnock, **M Knight (Co-investigator)**, S Kenny, J Kurinczuk, E Draper, P Johnson. Newlife two year project grant. Hirschsprung's Disease in the UK: A prospective, national observational study to determine incidence, presentation, current management strategies and outcomes at one year. October 2010, £49,591

- P Brocklehurst, R Gray, **M Knight (Co-investigator)**, J Kurinczuk, R McCandlish, S Petros, M Quigley, M Redshaw. Department of Health Policy Research Programme five year Policy Research Unit grant (extended for a further three years). Maternal Health and Care Research Unit. August 2010, £4,997,573 + £1,999,029.
- C Williamson, V Geenes, **M Knight (Co-investigator)**. Wellbeing of Women two year project grant. Obstetric Cholestasis. Feb 2010, £15,000.
- M Knight (Principal Investigator)**, JJ Kurinczuk, P Brocklehurst, A Burton, S Sellers, M Jokinen, L Locock, D Regier, S Golightly, G Lewis, J Walker, J Furniss, M Quigley, S Wiltshire. NIHR five year programme grant. Beyond maternal death: Improving the quality of maternity care through national studies of "near-miss" maternal morbidity. Jan 2010, £1,914,947.
- S Thomas, S Stephens, L Yates, **M Knight (Principal Investigator, secondary care component)**, P Brocklehurst, J Kurinczuk. NIHR HTA Themed call: pandemic influenza six month grant. Influenza AH1N1v in pregnancy. Sept 2009, £87,119.
- C Williamson, K Lambert, D McCance, **M Knight (Co-investigator)**. SPARKS three year project grant. Pituitary and Adrenal Tumours in pregnancy. Aug 2009, £26,000.
- JJ Kurinczuk, **M Knight (Co-investigator)**, D Howe, P Johnson, P Losty, J Rankin, E Draper, S Marven, P Brocklehurst. Action Medical Research three year project grant. Before, during and after birth – how does care affect the future health prospects of infants with congenital diaphragmatic hernia? April 2009, £77,076.
- M Knight (Principal Investigator)**, JJ Kurinczuk, Z Alfrevic, P Brocklehurst. Wellbeing of Women two year project grant. Uterine Rupture: estimating absolute risks and quantifying risk factors. A UK national study. Aug 2008, £19,505.
- M Knight (Principal Investigator)**, JJ Kurinczuk, D Burge, P Johnson, S Marven, N Schenker, E Draper. BDF Newlife two year Project grant. A national observational study to assess the incidence, surgical management and outcomes of neonates with oesophageal atresia in the United Kingdom. April 2008, £9,998.
- E Sullivan, M Peek, **M Knight (Co-investigator)**, D Ellwood, L Jackson Pulver, C Homer. Australian NHMRC three year project grant. The Australian Maternity Outcomes Surveillance System (AMOSS): Improving safety and quality of maternity care in Australia. Nov 2007, Aus\$773,500 (£330,000).
- M Knight (Principal Investigator)**, JJ Kurinczuk, Z Alfrevic, P Brocklehurst. Wellbeing of Women two year project grant. Severe peripartum haemorrhage: an investigation of the use of specific therapies and subsequent maternal and fetal outcomes. Aug 2007, £36,410.
- M Knight (Principal Investigator)**, JJ Kurinczuk, S Marven, A Owen, E Draper, P Brocklehurst. BDF Newlife two year Project grant. Gastroschisis: A national observational study to assess the infant outcomes following different surgical closure techniques. Oct 2006, £9,885.
- M Knight (Principal Investigator)**, JJ Kurinczuk, P Brocklehurst, P Boyd, E Draper. BDF Newlife two year Project grant. Gastroschisis: An investigation of the national birth prevalence, antenatal management and outcomes of affected pregnancies. Oct 2006, £9,985.

M Knight (Principal Investigator). NIHR National Coordinating Centre for Research Capacity Development, four year Postdoctoral Award 2006. Developing new methods to study rare disorders of pregnancy. Oct 2006. £386,617.

J Kurinczuk, **M Knight (Co-investigator)**, M Murphy, P Brocklehurst, P Hurley. Wellbeing of Women, two year grant. Fetomaternal Alloimmune thrombocytopenia (FMAIT): An investigation of the incidence, management and outcomes of affected pregnancies. Aug 2006. £22,508.

Publications:

Peer reviewed papers

1. Singhal G, Ramakrishnan R, Goldacre R, Battersby C, Hall NJ, Gale C, **Knight M**, Lansdale N. UK neonatal stoma practice: a population study. Arch Dis Child Fetal Neonatal Ed. 2024 Jun 19:fetalneonatal-2024-327020. doi: 10.1136/archdischild-2024-327020. Epub ahead of print. PMID: 38897635.
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