

CURRICULUM VITAE

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PERSONAL DETAILS

Date of Birth: 24 March 1967
Sex: Female
Nationality: British
GMC Number: 3539060

Medical Society Memberships: Royal College of Paediatrics and Child Health
Royal College of Physicians
British Medical Association
European Society of Paediatric and Neonatal Intensive Care
Paediatric Critical Care Society
Faculty of Intensive Care Medicine

EDUCATION

1985 - 1991 **St. Mary's Hospital Medical School, Imperial College of Science, Technology and Medicine, University of London**

Qualifications

B.Sc. (Hons): Class Iii 1988 Neurosciences
MB BS 1991
MRCP UK (Paediatrics) 1995
MRCPCH 1996
USMLE 2000
CCST awarded May 2002 Paediatrics
ICTPICM – sub-specialisation - PICM
FRCPCH 2004
FFICM 2013

CURRENT POST

Since January 2004

Consultant Paediatric Intensivist.

St. Mary's Hospital, Imperial College Healthcare NHS Trust, London.

PERSONAL STATEMENT

I love working in Paediatric Intensive Care Medicine at St. Mary's Hospital and have several research interests whilst maintaining my clinical post. These include simulation training, nutrition in critically ill children, Post-PICU Psychological morbidity in children and their families and organ donation. I am the Paediatric Clinical Lead for Organ Donation I have been a member of the ICHNT Organ Donation Committee. I am a member of a multi-professional group looking at palliative care pathways in paediatrics at ICHNT. I was on PCCS Council from December 2018 until October 2021 as a Medical Member. I am a member of the ESPNIC

(European Society of Paediatric and Neonatal Intensive Care) simulation group and mentorship committee.

I have a major interest in training and education of the multi-professional team and have leadership roles locally, regionally and nationally. I was the RCPCH College Tutor for Paediatrics at ICHNT for several years until March 2015, and was the Course Director of the MSc in Paediatrics at Child Health at Imperial College from October 2015 until September 2017. I was appointed to the post of Divisional Director of Medical Education for Women and Childrens and Clinical Services in March 2019. I am a Training Programme Director for the London School of Paediatrics and Lead for the London School of Paediatrics Simulation Network, and was Chair of the RCPCH PICM ISAC (Paediatric Intensive Care Medicine Intercollegiate Speciality Advisory Committee) from July 2016 for a five year term, having been a Training Advisor on this committee since 2011.

As PICM ISAC chair, I was involved in all aspects of PICM training and advice for trainees. This included the following: advice for those interested in PICM Grid training (Paediatricians, Anaesthetists, FICM trainees), Grid recruitment, curriculum and syllabus updates (PICM and HDC), guidance for trainees during PICM training, overseeing the CSAC Progression process at annual Summer Masterclass events for trainees, consultant recruitment – review of Job Descriptions and Person Specification and attending consultant interviews. I have interacted with representatives of many organisations as part of this role.

TRAINING POSTS IN PAEDIATRIC CRITICAL CARE MEDICINE

September 2003 – November 2003

Locum Consultant Paediatric Intensivist. The Hospital for Sick Children, Great Ormond Street.

February 2003 – September 2003

Fellow in Paediatric Intensive Care Medicine. The Hospital for Sick Children, Great Ormond Street.

September 2000 – January 2003

Fellow in Pediatric Critical Care Medicine. Children's Hospital, Harvard Medical School, Boston, USA.

October 1997- September 1998

Specialist Registrar in Paediatric Intensive Care Medicine. The Hospital for Sick Children, Great Ormond Street.

RESEARCH

Research in progress

1. I am part of a group looking at the effects of PICU on neuropsychology, and a pilot intervention study commenced in November 2012. We have received funding and have commenced a single centre study for this intervention in June 2021 – 4PICU.
2. Research into the use of Simulation for paediatric trainees and the multi-professional team. This includes my work as Simulation lead for the London School of Paediatrics and as part of the Simulation group for the European Society of Paediatric and Neonatal Intensive Care (ESPNIC).

3. I am involved in recruiting children to multicentre studies in which our unit is participating.
4. I was the PI for St. Mary's PICU for the IgNITE study, which looked at the use of intravenous Immunoglobulin for children with encephalitis. This study was put on hold in 2017.
5. I was the PI for St. Mary's PICU for the PINS3 Nutrition study which is an International study that is collecting data around nutrition in critically ill children (this data collection closed in December 2018).

Book Chapters

An Evidence Based Resource in Perioperative Medicine – published August 2003. Preventing central venous catheter-related complications. M. K. Cooper and A. G. Randolph.

Manual of Neonatal Care – Joint Program in Neonatology, Boston, MA, Fifth Edition. Chapter on Extracorporeal Membrane Oxygenation - published 2004. Mehrengise Cooper and John Arnold.

Problem-based Paediatric Critical Care – published 2004. The Infant with Meningococcal Septicaemia. Mehrengise Cooper and Simon Nadel.

Pediatric Critical Care: Basic Science and Clinical Evidence. Editors – Wheeler, Wong, Shanley. CNS Infections. Mehrengise Cooper and Simon Nadel. Published 2008.

Roger's Textbook of Pediatric Intensive Care Medicine. Fourth Edition. Chapter 83 - Critical Aspects of Intestinal Disorders. Gastrointestinal Bleeding. Mehrengise Cooper. Published 2008.

Pediatric Critical Care: Basic Science and Clinical Evidence. Editors – Wheeler, Wong, Shanley. CNS Infections. Mehrengise Cooper and Simon Nadel. Published 2014.

Publications

R.C.Bourn, D.C.Davies, M.G.Stewart, A.Csillag, M.Cooper. Cerebral glycoprotein synthesis and long term memory formation in the chick (*gallus domesticus*) following passive avoidance training depends on the nature of the aversive stimulus. European Journal of Neurosciences 1991;Vol 3:pp243-248.

M. Cooper, S. Jacobe, V. Novelli, A. Petros. Outcome of HIV-positive children with Pneumocystis carinii pneumonia requiring intensive care. Clinical Intensive Care 2002; 13(2-3):85-87.

Z.Argaman, V.R.Young, N.Noviski, L.Castillo-Rosas, X-M.Lu, D.Zurakowski, M.Cooper, C.Davison, J. F. Tharakan, A.Ajami, L.Castillo. Arginine and Nitric Oxide Metabolism in Critically Ill Septic Pediatric Patients. Critical Care Medicine 2003; 31:591-597.

M. Cooper, M. E. McGraw, D. J. Unsworth, P. Mathieson. Familial Mesangiocapillary Glomerulonephritis with initial presentation as Haemolytic Uraemic Syndrome. *Nephrology, Dialysis, Transplantation* 2004; 19:230-233.

M. K. Cooper, S. T. Bateman. Cisatracurium in "weakening doses" assists in weaning from sedation and withdrawal following extended use of inhaled isoflurane. *Pediatric Critical Care Medicine* 2007; 8:58-60.

Meyer R, Harrison S, Cooper M, Habibi P. Successful placement of nasojunal tubes in paediatric intensive care: impact of training and audit. *Journal of Advanced Nursing* 2007; 60(4)402-408.

M. Cooper, S. Sayani. Self-assessment questions in Paediatrics. *Paediatrics and Child Health*; March 2009.

M. Sawal, M. Cohen, J. E. Irazuzta, R. Kumar, C. Kirton, M. Brundler, C.A Evams, J.A. Wilson, P. Raffeeq, A.Azaz, A. T. Rotta, A. Vora, A. Vohra, P. Abboud, L.D. Birkin, M. Cooper, M.K. Dishop, J. M. Graf, A.Petros, H. Klonin. Fulminant Pertussis: A Multi-center Study with new insights into the Clinico-pathological mechanisms. *Pediatr Pulmonol* 2009;44:970-980.

A. Cunnington, T. Brick, M. Cooper, J. Danin, D. Hunt, A. Jeanes, A.M. Kearnes, M. Nolan, H. Lyall. Severe invasive Panton-Valentine Leucodin positive *Staphylococcus aureus* infections in children in London, UK. *Journal of Infection* 2009;59:28-36.

P.Lister, F. Reynolds, R. Parslow, A. Chan, M. Cooper, A. Plunkett, S. Riphagen, M. Peters. Swine-origin influenza virus H1N1 seasonal influenza virus, and critical illness in children. *Lancet* 2009; 374: 605-607.

ACRE Trial collaborators. Effect of collaborative requesting" on consent rate for organ donation: randomised controlled trail (ACRE trial). *BMJ* 2009; 339:b3911

Comparison of Pandemic and Seasonal Influenza Reveals Higher Mortality and Increased Prevalence of Shock in Children with Severe H1N1/09 Infection. J.A. Herberg, K.D. Jones, S. Paulus, S. Gormle, D. Muir, M. Cooper, M. Levin. *Pediatr Infect Dis J* 2011; 30(5):438-440

Consistency between guidelines and reported practice for reducing the risk of catheter-related infection in British paediatric intensive care units. K. Harron, G. Ramachandra, Q. Mok, R. Gilbert; CATCH Team. *Intensive Care Med* 2011;37(10): 1641-7. Participating centre.

Making co-enrolment feasible for randomized controlled trials in paediatric intensive care. K. Harron, T. Lee, T. Ball, Q. Mok, C. Gamble, D. Macrae, R. Gilbert; CATCH team. *PLoS One* 2012; 7(8): e41791. Epub 2012 Aug 3. Review. Participating centre.

The challenge of developing a new predictive formula to estimate energy requirements in ventilated critically ill children. R. Meyer, E. Kulinskaya, G. Briassoulis, R. M. Taylor, M. Cooper, N. Pathan, P. Habibi. *Nutr Clin Pract* 2012; 27(5): 669-76.

Isoflurane for Life-Threatening Bronchospasm: A 15 Year Single Center Experience. D.A Turner, D. Heitz, M.K. Cooper, P. B. Smith, J. H. Arnold, S. T. Bateman. *Respir Care* 2012;57(11): 1857-64.

The Imperial Paediatric Emergency Training Toolkit (IPETT) for use in paediatric emergency training: Development and evaluation of feasibility and validity. S. Lamden, C. De Munter, A. Dowson, M. Cooper, S. Gautama, N. Sevdalis. *Resuscitation* 2012 – Epub.

Neuropsychological function three to six months following admission to paediatric intensive care with meningo-encephalitis, sepsis, and other disorders: A prospective study of school-aged children. L. Als, S. Nadel, M. Cooper, C. M. Pierce, B.J. Sahakian, M. E. Garralda. *Crit Care* 2013; 41(4): 1094-1103.

How in situ simulation affects paediatric nurses' clinical confidence. Dowson A., Russ S., Sevdalis N., Cooper M., de Munter C. *Br J Nurs* 2013; 22(11); 612-7.

Characteristics and outcomes of human parechovirus infection in infants (2008–2012). S. Vergnano, S.Kadambari, K.Whalley, E. Menson, N.Martinez-Alier, M. Cooper, E. Sanchez, P. T. Heath, H. Lyall. *European Journal of Pediatrics* 2015, E. Pub 10th January.

Persistence of Neuropsychological Deficits Following Paediatric Critical Illness. L. Als, A. Tennant, S. Nadel, M. Cooper, C. M. Pierce, M. E. Garralda. *Crit Care Med* 2015; 43(8):e312-5

Mental and physical wellbeing following admission to paediatric intensive care. L. Als, M. D. Picouto, S-M.Hau, S. Nadel, M. Cooper, C.M. Pierce, T. Kramer, M. E. Garralda. *Paedr Crit Care Med* 2015; 16(5):e141-9

A supported psycho-educational intervention to improve family mental health following discharge from paediatric intensive care: feasibility and pilot randomized controlled trial. L.Als, S. Nadel, M. Cooper, B. Vickers, M.E. Garalda. *BMJ Open* 2015 Dec: e009581

Pragmatic randomized controlled trial of impregnated central venous catheters for preventing blood stream infection in children. R. Gilbert, Q. Mok, K. Dwan, K. Harron, T. Moitt, M. Millar et al. *Lancet* 2016, March. PI at participating centre.

Stress hormones and posttraumatic stress symptoms following paediatric critical illness: an explanatory study. L.C. Als, M.D. Picouto, K.J. O'Donnell, S. Nadel, M. Cooper, C.M. Pierce, T. Kramer, V.A.S. Glover, M.E. Garralda. *Eur Child Adolesc Psychiatry*. May 2017;26(5):511-519.

Post-traumatic stress after PICU and corticosteroid use. G. Corbet Burcher, M.D. Picouto, L. Als, M. Cooper, C.M. Pierce, S. Nadel, E. Garralda. *Arch Dis Child* 2017 Nov 25 (Epub).

Inflammation and psychopathology in children following PICU admission: an exploratory study. G. Caspani, G. Corbet Burcher, E. Garralda, M. Cooper, C.M. Pierce, L. C. Als, S. Nadel. *Evidence Based Mental Health* 2018 Nov: 21(4): 139-144.

Conference contributions and presentations

M.Cooper, C.Kennedy, B.D.Spiedel D. de Berker. Normal Hair Microscopy in the Neonate. British Journal of Dermatology 1997; Vol 137: Supplement 50, p45

M.Cooper, M.E.McGraw, P.Mathieson, J.Unsworth. Familial Haemolytic Uraemic Syndrome with Hypocomplementaemia - Presented at Royal Society of Medicine Paediatric Registrar's Prize Competition - November 1997.

M.Cooper, S.Jacobe, V.Novelli, A.J.Petros. Survival of HIV Positive children with Pneumocystis Carinii Pneumonia following admission to Paediatric Intensive Care. Intensive Care Medicine 1998; Vol. 24: Supplement 1, S 180

M.Cooper, J.Franklin, P.J.Oades. High Dependency Care for Critically Ill Children – Making the case for Service Development. Poster presentation, NICE Conference -November 2000.

M.Cooper, L.Castillo. Simultaneous Independent Lung ventilation in a child with a Broncho-colonic fistula and differential lung compliance. ECMO 2002; A. (Abstract).

M. Cooper, N. Noviski, A. Lu, V.R. Young, L. Castillo. Transulfuration rates in septic patients. Faseb J 2002; 16:A214.3.

M.K. Cooper, S.T. Bateman. Efficacy for Isoflurane for severe status asthmaticus. Am J Resp Crit Care 2002; 165:A 158.

M.Cooper, N.Noviski, A.Lu, X-M.Lu,V.R.Young, L.Castillo. Sulfur Amino Acid metabolism in septic children. Am J Resp Crit Care 2002; 165: B27

M.K. Cooper, S.T. Bateman. Mechanical Ventilation in Children with Status Asthmaticus. Pediatric Critical Care Medicine 2003; 4(3):A31

S. Revanna, M. Montgomery, M. Cooper, D. Macrae, A. Petros, M. Peters. Reducing the risks of interfacility Paediatric Critical Care Transport. Poster presentation at ESPNIC meeting 2004.

A. Deep, G. Sideri, C. de Munter, S. Nadel, M. Cooper, M. Bloch, P. Habibi. Non-Invasive Respiratory support in Bronchiolitis. Poster presentation at ATS meeting 2005.

R. Meyer, S. Harrison, L. Archibald, C. Elwig, M. Cooper. Continuous successful blind placement of nasojejunal tubes (NJ) facilitated by training and audit. Poster presentation at 9th Congress of the World Federation of Societies of Intensive and Critical Care Medicine August 2005.

R. Meyer, S. Harrison, L. Archibald, C. Elwig, M. Cooper. Extubation: are we keeping patient NBM for excessive periods – prospective audits on practice. Poster presentation at 9th Congress of the World Federation of Societies of Intensive and Critical Care Medicine August 2005.

R. Meyer, S. Harrison, L. Archibald, C. Elwig, M. Cooper. The impact of ongoing audit on time taken to initiate enteral nutrition. Poster presentation at 9th Congress of the World Federation of Societies of Intensive and Critical Care Medicine August 2005.

R. Meyer, G. Briassoulis, M. Cooper, P. Habibi. The impact of temperature on energy expenditure in critically ill children. Poster presentation at European Society of Parenteral and Enteral Nutrition October 2006.

Tareen A, Gledhill J, Garralda E, Cooper M, Nadel S. Joint Paediatric and psychiatric follow-up for families following Paediatric Intensive Care Unit Admission. The Royal College of Psychiatrists – Faculty of Child and Adolescent Psychiatry Residential Meeting. September 2006.

R. Meyer, M. Cooper, P. Habibi. Does the use of Indirect Calorimetry improve energy delivery in the critically ill child? Oral presentation at the 5th World Congress on Paediatric Critical Care June 2007.

R. Meyer, M. Cooper, P. Habibi. The impact of severity of disease on energy expenditure in critically ill children. Poster presentation at the 5th World Congress on Paediatric Critical Care June 2007.

Turner DA, Heitz D, Cooper M, Bateman ST. Isoflurane in the PICU for Life-threatening bronchospasm: a Case series. Crit Care Med 2007; 35:No.12 (Supplement): A231.

A. Cunnington, T. Brick, M. Cooper, H. Lyall, M. Nolan. Severe Invasive Disease Caused by Panton-Valentine Leucocidin Toxin Producing Staphylococcus Aureus. V Poster presentation at European Society of Paediatric Infectious Disease May 2008.

R. Meyer, G. Briassoulis, N. Pathan, M. Cooper, P. Habibi. A New Predictive Formula to Calculate Energy Requirements in Critically Ill Children. Poster presentation at ESPNIC 2008.

T. Dawson, M. Cooper. PICU Junior Doctors Nursing Shift – a useful introduction? Poster presentation at 1st International Interprofessional Educational and Practice Conference July 2008 and at PICS annual meeting November 2008.

C. De Munter, M. Cooper, S. Gautama. The Efficiency of a Paediatric Simulation Programme. Presented at Second International Paediatric Simulation Symposium and Workshops 2009, April 2009.

L. Als, J. Gledhill, M. Cooper, S. Nadel, E. Garralda. Neuropsychological function in children following paediatric intensive care admission. Poster presentation at ESPNIC 2009.

L. Als, S. Nadel, M. Cooper, C. Pierce, S. Hau, M. Picouto, E. Garralda. Neuropsychological Function in Children Following Acute Severe Illness. Poster presentation at Meningitis and Septicaemia in Children and Adults International Conference November 2009.

M. Picouto, L. Als, K. O'Donnell, V. Glover, S. Nadel, M. Cooper, C. Pierce, S. Hau, T. Kramer, E. Garralda. Salivary Cortisol and Alpha-Amylase Levels Following admission to Paediatric Intensive Care. Poster presentation at RCPCH meeting April 2010.

J. Herberg, S. Paulus, M. Cooper, S. Gormley, K. Jones, M. Lewin. Characteristics of H1N1 infection in Children admitted to St. Mary's Hospital, London. Oral presentation at ESPID 2010.

Integrating Simulation Training into the Paediatric Curriculum in London: Collaborative and Uniform Training. M. Cooper, M. Watson on behalf of the London Deanery Specialty School of Paediatrics. Oral presentation at 3rd International Paediatric Simulation Symposium and Workshops, September 2010.

Detailed Evaluation of the Efficiency of In-situ Paediatric Multi-disciplinary Simulation as a Learning Tool. C. De Munter, M. Cooper, S. Lamden, A. Dowson, S. Gautama, N. Sevdalis. Poster presentation at 3rd International Paediatric Simulation Symposium and Workshops, September 2010.

Incorporating Reflective Practice into Simulation Evaluation: Evaluating the London School of Paediatrics Simulation Programme. J. Runnacles, M. Fine-Goulden, A. Roueche, M. Cooper. Poster presentation at 3rd International Paediatric Simulation Symposium and Workshops, September 2010.

Debriefing in Paediatric Simulation: Development of guidelines and assessment for best practice. J. Runnacles, S. Arora, M. Cooper, N. Sevdalis, R. Kneebone. Oral presentation at 3rd International Paediatric Simulation Symposium and Workshops, September 2010.

Neuropsychological Outcome Following Admission to Paediatric Intensive Care. C. Pierce, L.C. Als, S. Nadel, M. Cooper, S. Hau, S. Vezir, M.D. Picouto, B. Sahakain, M.E. Garalda. Poster presentation at 6th World Congress on Paediatric Critical Care, March 2011.

More than becoming a Simulation Trainer: The perspective of a Paediatric Simulation Faculty Programme Candidate. Amutha Anpananthar, Mando Watson, Mehrengise Cooper. Poster presentation at 5th International Paediatric Simulation Symposium and Workshops, April 2013.

The London School of Paediatrics ST3 Simulation Programme: Evaluating the Long term impact and trainees experiences. Holly Boyd, Melanie Menden, Jane Runnacles, Mando Watson, Mehrengise Cooper. Poster presentation at 5th International Paediatric Simulation Symposium and Workshops, April 2013.

Sustaining a Successful Simulation Training Programme for Paediatric Trainees in London. Mehrengise Cooper, Mando Watson on behalf of the London School of Paediatrics Simulation Network. Oral presentation at 5th International Paediatric Simulation Symposium and Workshops, April 2013.

Latent Errors and Strengths in Paediatric Simulation. Andrew Jones, Bhanu Williams, Mando Watson, Mehrengise Cooper. Oral presentation at 5th International Paediatric Simulation Symposium and Workshops, April 2013.

Paediatric Faculty Development Training Programme: Training the Faculty of the Future. Mehrengise Cooper, Mando Watson on behalf of the London School of Paediatrics Simulation Network. Oral presentation at 5th International Paediatric Simulation Symposium and Workshops, April 2013.

Simulation Faculty Development Programme in Paediatrics. Dani Hall, Holly Boyd, Mando Watson, Mehrengise Cooper. Oral presentation at 3rd Annual Educational Excellence Conference for Postgraduate Education in NWL London, April 2014.

A brief intervention to improve parent post-traumatic stress symptoms following paediatric critical illness: A pilot randomized controlled trial. L.C. Als, B. Vickers, S. Nadel, M. Cooper, M.E. Garralda. Oral presentation at EAPS 2014.

Paediatric Faculty Development Training Programme – Setting up a culture of Facilitation. Mehrengise Cooper, Mando Watson. Oral presentation at 7th International Paediatric Simulation Symposium and Workshops, May 2015.

High fidelity simulation for trainees returning to acute clinical practice in Paediatrics – a multi-professional pilot. Alli Ward, Sarita Depani, Trisha Radia, Chrysothemis Brown, Amutha Anpananthar, Megan Hall-Jackson, Susie Minson, Alex Brightwell, Mehrengise Cooper. Poster presentation at 7th International Paediatric Simulation Symposium and Workshops, May 2015.

Preparing trainees for the registrar leadership role: evaluation of the London simulation programme Jane Runnacles, Mehrengise Cooper, Amutha Anpananthar, Mando Watson. Poster presentation at 7th International Paediatric Simulation Symposium and Workshops, May 2015.

Adherence Feasibility with DoH Guidance on Antimicrobial Stewardship in an Electronic (Paperless) Prescribing System. D. Zeitlin, L. O’Dea, S. Greenough, P. Fletcher, M. Cooper. Poster presentation at PICS conference, September 2015.

Paediatric Return to Acute Clinical Practice. A “working example” of a simulation based return to work programme. Why you need one in your region! M. D’Souza, T. Radia, S. Depani, C. Massey, M. Cooper, C. Kingdon. Poster presentation at RCPCH conference 2017.

Developing a simulation based return to work programme: 5 year experience of London PRACP course. M. D’Souza, T. Radia, C. Kingdon, M. Cooper. Workshop at International Paediatric Simulation Symposium and Workshops, June 2017.

Nutrition on PICU – Too much of a good thing? R. Mitting, R. Tripp, S. Meah, M. Cooper. Poster presentation at PICS conference, September 2017.

Internet accessed publications

M.Cooper. Evidence Based Medicine Review – The PedsCCM Evidence Based Journal Club (accessed via the Internet). The risk of the hemolytic-uremic syndrome after antibiotic

treatment of Escheria coli 0157:H7 infection. NEJM 2000 342 (26)1930. Review posted February 2001.

M.Cooper. Evidence Based Medicine Review – The PedsCCM Evidence Based Journal Club (accessed via the Internet). A randomised comparison of helium-oxygen mixture (heliox) and racemic ephinephrine for the treatment of moderate to severe croup. Peds. 2001 107(6):E96. Review posted November 2001.

M.Cooper. Evidence Based Medicine Review – The PedsCCM Evidence Based Medicine Journal club (accessed via the Internet). Efficacy or recombinant human erythropoietin in critically ill patients: a randomized controlled trial. JAMA 2002; 228(22):2827. Review posted March 2003.

Nastouli E, Ijland M, Inwald D, Cooper M, Muir D. Myocarditis in Children. Electronic letter. April 2nd 2008.

REFEREES

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