

Aparna Hoskote

*Specialty Lead, Cardiac Intensive Care Unit
Great Ormond Street Hospital for Children NHS
Foundation Trust, London, WC1N 3JH, UK*

Qualifications

- MRCP (Paediatrics), Royal College of Physicians of London, June 1996
- M.D (Paediatrics), The TN Medical College & BYL Nair Charitable Hospital, University of Bombay, India, January 1994
- D.N.B (Diplomate of National Board – Paediatrics) National Board of Examinations, New Delhi, India, January 1995
- F.C.P.S (Fellow of College of Physicians and Surgeons of Bombay), January 1995

Employment

- Consultant in Paediatric Cardiac Intensive Care and ECMO
Great Ormond Street Hospital for Children NHS Foundation
Trust, London, WC1N 3JH, UK 1st January 2004 to date
- Honorary Associate Professor, Institute of Cardiovascular Science,
University College London, UK 11th January 2022 to date
- Honorary Senior Lecturer, UCL Great Ormond Street Institute of
Child Health 30, Guilford Street, London, WC1N 1EH 1st January 2004 to 11th Jan
2022
- Clinical Associate (Junior consultant post) Department of Critical
Care Medicine, The Hospital for Sick Children, Toronto, Canada 1st July 2003 to 31st Dec
2003

Experience

I am a consultant paediatric cardiac intensivist and the Specialty Lead responsible for the care of the patients on the cardiac intensive care unit at Great Ormond Street Hospital, a quaternary referral centre for children with congenital heart disease (before and after congenital heart surgery including heart and heart-lung transplantation), for infants and children with intractable respiratory or cardio-respiratory failure needing ECMO or mechanical circulatory support as bridge to heart transplantation, as well as for children with severe primary pulmonary hypertension and severe large airway disease. I lead on a theme of neuromonitoring, neuroprotection and neurodevelopmental outcome in children with congenital heart defects and those supported on mechanical circulatory support including ECMO and VAD with the aim to improve patient care, service delivery and ultimately quality of life. My current research focus is to establish measures to identify neurological impairment and neurodisability pre and post major cardiac surgery and establish structured, longitudinal follow-up for ECMO survivors, to study the effect of neuroprotective interventions and outcome and to study cerebral NIRS as an early marker of brain ischaemia. I have developed expertise and led on clinical governance, patient safety and quality improvement within cardiothoracic division over the last 15 years.

I have been recently re-elected as the Chair of the Cardiac ICU & Mechanical Circulatory Support section in European Society of Paediatric and Neonatal Intensive care (ESPNIC) (June 2021), and member of the ESPNIC Education Board since October 2020. Within ESPNIC, I have aspired to engage and empower like-minded intensivists, nursing and allied professionals in the promotion of cardiac intensive care ensuring the best possible outcomes for children with cardiac disease by establishing a strong, sustainable and effective platform for Paediatric Cardiac Intensive Care in Europe and worldwide.

I am the member of the Euro ELSO Steering Committee & chair of the Working Group on Neurological Monitoring and Outcome (November 2017). I am Co-Chair of the ELSO Scientific Oversight Committee (ELSO Organisation – September 2021) and a steering committee member of the Pedi-ECMO Research Group (January 2021).

Professional Roles

- Member of the Steering Committee, EuroELSO Organisation.
- Co-Chair of the Extracorporeal Life Support Organisation (ELSO) Scientific Oversight Committee, September 2021 – Reviewing scientific proposals for the ELSO Registry.
- Chair of the Cardiac ICU & Mechanical Circulatory Support section in European Society of Paediatric and Neonatal Intensive Care (ESPNIC) – re-elected to a 3-year term in June 2021
- Steering Committee Member, International Pedi-ECMO Research Group, January 2021
- Member of the Extracorporeal Life Support Organisation (ELSO) Scientific Oversight Committee, January 2019 to September 2021.
- Chair of the Working Group on Neurological Monitoring and Outcome, November 2017
- Deputy chair of the Euro ELSO Scientific Committee – I have helped organise the Paediatric part of the annual conference - scientific content, pre-conference workshops of the Euro ELSO Conference for 2018 (Prague), 2019 (Barcelona), 2020 (Online), 2021 (Online), 2022 (London) and 2023 (Lisbon).

Research Grants

- **Comparison of Extracorporeal Membrane Oxygenation (ECMO) Use between European and North American Centers for International Collaborative Learning** - ELSO Grant – PI- \$5000 2020-2022
- **Neurodevelopmental outcome at 2 years in children with congenital heart disease** – GOSH Charity Grant Co-I £109,639. 2018-2022
- **NIHR-HSDR** Development of Brief Developmental Assessment (BDA) Neurological Morbidity for the study on ‘Selection, definition and evaluation of important early morbidities associated with paediatric cardiac surgery’ Co-I, £1,170,000. 2014-2018
- Near Infra-red Spectroscopy research in collaboration with Medical Physics UCL, London. Multichannel NIRS on ECMO, Collaborator 2008-2012

Publications

1. Cucchi M, Mariani S, De Piero ME, Ravoux JM, Kawczynski MJ, Di Mauro M, Shkurka E, **Hoskote A**, Lorusso R. Awake extracorporeal life support and physiotherapy in adult patients: A systematic review of the literature. *Perfusion*. 2023 Jul;38(5):939-958
2. Francesca Sperotto, Addison Gearhart, **Aparna Hoskote**, Peta MA Alexander, Jessica A Barreto, Victoria Habet, Eleonore Valencia, Ravi R Thiagarajan. Cardiac arrest and cardiopulmonary resuscitation in pediatric patients with cardiac disease: a narrative review. *Eur J Pediatr*. 2023 Jun 19. doi: 10.1007/s00431-023-05055-4.
3. Cvetkovic M, Antonini MV, Rosenberg A, Meadows CI, Dąbrowski M, Puslecki M, Fawzy Hassan I, Fowles JA, O’Callaghan M, Stefaniak S, Riera J, Barrett NA, Bělohávek J, Di Nardo M, **Hoskote A**, Swol J. Bridging the Gap" international ECLS training and simulation - evaluation of the 10th educational corner on EuroELSO congress 2022 in London, United Kingdom. *Perfusion*. 2023 May;38(1_suppl):3-12.
4. **Hoskote A**, Hunfeld M, O’Callaghan M, IJsselstijn H. Neonatal ECMO survivors: The late emergence of hidden morbidities - An unmet need for long-term follow-up. *Semin Fetal Neonatal Med*. 2022 Dec;27(6):101409.

5. Kucera F, Laurence C, Simmonds J, Gavela J, Bodnar T, Brogan P, **Hoskote A**, Skellett S, Moshal K, Bamford A, Khambadkone S. Cardiac outcomes in severe acute respiratory syndrome coronavirus-2-associated multisystem inflammatory syndrome at a tertiary paediatric hospital. *Cardiol Young*. 2022 Oct;32(10):1585-1591
6. Laurence C, Nachum E, Henwood S, Berman M, Large SR, Messer S, Kaul P, Baxter J, Quigley R, Osman M, Muthialu N, Davies B, Bohuta L, Kostolny M, Burch M, Fenton M, Andrews R, Thiruchelvam T, **Hoskote A**, Simmonds J. Pediatric heart transplantation following donation after circulatory death, distant procurement, and ex-situ perfusion. *J Heart Lung Transplant*. 2022 Aug;41(8):1104-1113.
7. Read J, Ridout D, Johnson S, **Hoskote A**, Sheehan K, Wellman P, Jones A, Wray J, Brown K. Postoperative morbidities with infant cardiac surgery and toddlers' neurodevelopment. *Arch Dis Child*. 2022 Jul 6: archdischild-2021-322756. doi: 10.1136/archdischild-2021-322756. Online ahead of print
8. K Brown, S Agrawal, M Kirschen, C Traube, A Topjian, R Pressler, C Hahn, B Scholefield, H Kanthimathinathan, **A Hoskote**, F D'Arco, M Bembea, J C Manning, M Hunfeld, C Buysse, R Tasker. The brain in pediatric critical care: unique aspects of assessment, monitoring, investigations, and follow-up. *Intensive Care Med*. 2022 May;48(5):535-547. doi: 10.1007/s00134-022-06683-4. Epub 2022 Apr 21.
9. Cucchi M, Mariani S, De Piero ME, Ravaux JM, Kawczynski MJ, Di Mauro M, Shkurka E, **Hoskote A**, Lorusso R. Awake extracorporeal life support and physiotherapy in adult patients: A systematic review of the literature. *Perfusion*. 2022 Jun 27:2676591221096078. doi: 10.1177/02676591221096078. Online ahead of print.
10. Di Nardo M, De Piero ME, **Hoskote A**, Belohlavek J, Lorusso R; Extracorporeal membrane oxygenation in children with COVID-19 and PIMS-TS during the second and third wave. EuroECMO neonatal and paediatric COVID-19 Working Group and EuroELSO Steering Committee. *Lancet Child Adolesc Health*. 2022 Apr;6(4):e14-e15. doi: 10.1016/S2352-4642(22)00065-7
11. Cavallaro G, Di Nardo M, **Hoskote A**, Tibboel D. Editorial: Neonatal ECMO in 2019: Where Are We Now? Where Next? *Front Pediatr*. 2022 Jan 4;9:796670. doi: 10.3389/fped.2021.796670. eCollection 2021
12. Cvetkovic M, Chiarini G, Belliati M, Delnoij T, Zanatta P, Taccone FS, Miranda DDR, Davidson M, Matta N, Davis C, IJsselstijn H, Schmidt M, Broman LM, Donker DW, Vlasselaers D, David P, Di Nardo M, Muellenbach RM, Mueller T, Barrett NA, Lorusso R, Belohlavek J, **Hoskote A**. International survey of neuromonitoring and neurodevelopmental outcome in children and adults supported on extracorporeal membrane oxygenation in Europe. *Perfusion*. 2021 Sep 22:2676591211042563.
13. **Hoskote A**, Stiller B, Thiagarajan RR What's new in mechanical support strategies for the intensivist in children with severe cardiac failure. *Intensive Care Med*. 2021 Aug 19. doi: 10.1007/s00134-021-06500-4. Online ahead of print.
14. IJsselstijn H, Schiller RM, Holder C, Shappley RKH, Wray J, **Hoskote A**, Raman L, MacLaren G, Peek G, Bembea MM, Guerguerian AM Extracorporeal Life Support Organization (ELSO) Guidelines for Follow-up After Neonatal and Pediatric Extracorporeal Membrane Oxygenation. *ASAIO J*. 2021 Jul 22.
15. Nguyen DA, De Mul A, **Hoskote AU**, Cogo P, da Cruz EM, Erickson S, Lasa JJ, Thiagarajan RR, Bembea MM, Karam O; PALISI, ESPNIC, ANZICS PSG. Factors Associated With Initiation of Extracorporeal Cardiopulmonary Resuscitation in the Pediatric Population: An International Survey. *ASAIO J*. 2021 Jun 1. doi: 10.1097/MAT.0000000000001495.
16. Bhaskar P, Davila S, **Hoskote A**, Thiagarajan R. Use of ECMO for Cardiogenic Shock in Pediatric Population. *J Clin Med*. 2021 Apr 8;10(8):1573. doi: 10.3390/jcm10081573.
17. Brown G, Moynihan KM, Deatrck KB, Hoskote A, Sandhu HS, Aganga D, Deshpande SR, Menon AP, Rozen T, Raman L, Alexander PMA. Extracorporeal Life Support Organization (ELSO): Guidelines for Pediatric Cardiac Failure. *ASAIO J*. 2021 May 1;67(5):463-475. doi: 10.1097/MAT.0000000000001431.
18. Di Nardo M, **Hoskote A**, Thiruchelvam T, Lillie J, Horan M, Belda Hofheinz S, Dupic L, Gimeno R, de Piero ME, Lo Coco V, Roeleveld P, Davidson M, Jones T, Broman LM, Lorusso R, Belohlavek J; EuroELSO Neonatal & Pediatric Working Group & collaborators on COVID-19. Extracorporeal Membrane Oxygenation in Children with Coronavirus Disease 2019: Preliminary Report from the Collaborative European Chapter of the Extracorporeal Life Support Organization Prospective Survey. *ASAIO J*. 2021 Feb 1;67(2):121-124.
19. Rimensberger PC, Kneyber MCJ, Deep A, Bansal M, **Hoskote A**, Javouhey E, Jourdain G, Latten L, MacLaren G, Morin L, Pons-Odena M, Ricci Z, Singh Y, Schlapbach LJ, Scholefield BR, Terheggen U, Tissières P, Tume LN, Verbruggen S, Brierley J. Caring for Critically Ill Children With Suspected or Proven Coronavirus Disease 2019 Infection: Recommendations by the Scientific Sections' Collaborative of the European Society of Pediatric and Neonatal Intensive Care. *European Society of Pediatric and Neonatal Intensive Care (ESPNIC) Scientific Sections' Collaborative Group. Pediatr Crit Care Med*. 2021 Jan 1;22(1):56-67.
20. **AU Hoskote**, DA Ridout, V Banks, S Kakat, M Lakhanpaul, C Pagel, R Franklin, T Witter, R Brimmell, S Tibby, D Anderson, V Tsang, J Wray, KL Brown. Neurodevelopmental status and follow-up in pre-school children with heart disease in London, UK. *Arch Dis Child*. 2021 Mar;106(3):263-271. doi: 10.1136/archdischild-2019-317824. Epub 2020 Sep 9.
21. Brown KL, Pagel C, Ridout D, Wray J, Tsang VT, Anderson D, Banks V, Barron DJ, Cassidy J, Chigaru L, Davis P, Franklin R, Grieco L, **Hoskote A**, Hudson E, Jones A, Kakat S, Lakhani R, Lakhanpaul M, McLean A, Morris S, Rajagopal V, Rodrigues W, Sheehan K, Stoica S, Tibby S, Utley M, Witter T. Early morbidities following paediatric cardiac surgery: mixed methods model. Southampton (UK): NIHR Journals Library; 2020 Jul.

22. **Hoskote A**, Wray J, Banks V, Brown K, Lakhanpaul M. A referral pathway for potentially abnormal neurodevelopment in children with heart disease in the United Kingdom: a Delphi consensus. *BMJ Paediatr Open*. 2020 Apr 21;4(1):e000587.
23. Shekar K, Badulak J, Peek G, Boeken U, Dalton HJ, Arora L, Zakhary B, Ramanathan K, Starr J, Akkanti B, Antonini MV, Ogino MT, Raman L; **ELSO Guideline Working Group***. Extracorporeal Life Support Organization COVID-19 Interim Guidelines. *ASAIO J*. 2020 Apr
24. Wray J, Kakat S, Brown K, O'Callaghan M, Thiruchelvam T, **Hoskote A**. Childhood Extracorporeal Membrane Oxygenation Survivors: Parents highlight need for structured follow-up and support after hospital discharge. *Pediatr Crit Care Med*. 2020 May;21(5):461-468.
25. H Dalton, **A Hoskote**. There and back again. Roller pump versus centrifugal technology in infants on Extracorporeal Membrane Oxygenation. *Pediatr Crit Care Med*. 2019 Dec;20(12):1195-1196.
26. Rogers L, Ray S, Johnson M, Feinstein Y, Dominguez TE, Peters MJ, **Hoskote A**, Brown KL. Inadequate oxygen delivery index and low cardiac output syndrome score as predictors of adverse events associated with low cardiac output syndrome early after cardiac bypass. *Pediatr Crit Care Med*. 2019 April.
27. Maclaren G, **Hoskote A**. Resuscitating Hearts and Minds: 1-Year Outcomes Following Extracorporeal Membrane Oxygenation for Cardiac Arrest. *Crit Care Med*. 2019 Mar;47(3):476-477.
28. Bembea MM, Hoskote A, Guerguerian AM. Pediatric ECMO Research. The case for collaboration. *Front Pediatr*. 2018 Sep 10;6:240
29. Schiller R, IJsselstijn H, **Hoskote A**, White T, Verhulst F, Van Heijst A, Tibboel D. Memory deficits following neonatal critical illness: a common neurodevelopmental pathway. *Lancet Child Adolesc Health*. 2018 Apr; 2(4):281-289.
30. IJsselstijn H, Hunfield M, Schiller RM, Houmes RJ, **Hoskote A**, Tibboel D, van Heijst AFJ. Improving long-term outcomes after extracorporeal membrane oxygenation: from observational Follow-up programs toward risk stratification. *Front Pediatr*. 2018 Jun 26;6:177.
31. CDH EURO Consortium Group. Defining outcomes following congenital diaphragmatic hernia using standardised clinical assessment and management plan (SCAMP) methodology within the CDH Euro Consortium. *Pediatr Res*. 2018 May 29. doi: 10.1038/s41390-018-0063-3.
32. **Hoskote A**. Neurodevelopmental outcomes in congenital heart disease: The role of peri-operative neuroimaging. *Dev Med Child Neurol*. Apr. 2018
33. Katherine L Brown, Deborah A Ridout, Christina Pagel, Monica Lakhanpaul, Suzan Kakat, Victoria Banks, Rodney Franklin, Thomas Witter, Rhian Lakhani, Shane Tibby, David Anderson, Victor Tsang, **Aparna U Hoskote**, Jo Wray. Validation of the brief developmental assessment in pre-school children with heart disease. *Cardiology in the Young*. 2018 Apr;28(4):571-581.
34. Wray J, Brown KL, Ridout DA,, Lakhanpaul M, Smith L, Scarisbrick A, O'Curry S, **Aparna U Hoskote**. Development and preliminary testing of the Brief Developmental Assessment: an early recognition tool for children with heart disease. *Cardiology in the Young*. 2018 Apr;28(4):582-591.
35. Kakat S, O'Callaghan M, Smith L, Hreiche R, Ridout DA, Wray J, Thiruchelvam T, Brown KL, **Hoskote AU**. The 1-year Follow-up Clinic for neonates and children after respiratory extracorporeal membrane oxygenation: A 10-year single institution experience. *Pediatr Crit Care Med*. 2017 Nov;18(11):1047-1054.
36. Lorusso R, Taccone FS, Belliato M, Delnoij T, Zanatta P, Cvetkovic M, Davidson M, Belohlavek J, Matta N, Davis C, IJsselstijn H, Mueller T, Muellenbach R, Donker D, David P, Di Nardo M, Vlasselaers D, Dos Reis Miranda D, **Hoskote A**. Brain monitoring in adult and pediatric ECMO patients: the importance of early and late assessments. *Minerva Anesthesiol*. 2017 Jun 22. Doi: 10.23736/S0375-9393.17.11911-5.
37. Munoz-Lopez M, **Hoskote A**, Chadwick MJ, Dzieciol AM, Gadian DG, Chong K, Banks T, de Haan M, Baldeweg T, Mishkin M, Vargha-Khadem F. Hippocampal damage and memory impairment in congenital cyanotic heart disease. *Hippocampus*. 2017 Apr 27(4):417-424.
38. Raman S, Prince NJ, **Hoskote A**, Ray S, Peters MJ. Admission PaO₂ and mortality in critically ill children: A cohort study and systematic review. *Pediatr Crit Care Med*. 2016 Oct; 17(10):e444-e450.
39. Brown KL, Pagel C, Brimmell R, Bull K, Davis P, Franklin RC, **Hoskote A**, Khan N, Rodrigues W, Thorne S, Smith L, Chigaru L, Utey M, Wray J, Tsang V, Mclean A. Definition of early morbidities related to paediatric cardiac surgery. *Cardiol Young*. 2016 Sep 29:1-10.
40. Muthialu N, Joshi S, **Hoskote A**, Bhole V. rare cause of central cyanosis: right pulmonary artery to left atrial fistula. *Interact Cardiovasc Thorac Surg* 2016 June.
41. **Aparna Hoskote**, Lyvonne Tume, Uwe Trieschmann, Christoph Menzel, Paola Cogo, Katherine Brown, Michael W Broadhead. A cross-sectional survey of Near Infrared Spectroscopy use in Paediatric Cardiac Intensive Care Units in UK and Ireland, Italy and Germany. *Pediatric Critical Care Medicine*. 2016 Jan;17(1):36-44
42. Tsang V, **Hoskote A**. Invited commentary. *Ann Thorac Surg*: 2015 Jun;99(6):2132-3.
43. Simmonds J, Dominguez T, Longman J, Shastri N, O'Callaghan M, **Hoskote A**, Fenton M, Burch M, Tsang V, Brown K. Predictors and Outcome of Extracorporeal Life Support After Pediatric Heart Transplantation. *Ann Thorac Surg*. 2015 Jun;99(6):2166-72.
44. **Aparna Hoskote**, Michael Burch. Peri-operative kidney injury and long-term chronic kidney disease following orthotopic heart transplantation in children. *Pediatric Nephrology* 2015 Jun;30(6):905-18. Epub 2014 Aug 14.

45. Goodwin S, Randle E, Iguchi A, Brown K, **Aparna Hoskote**, Calder A. Chest computed tomography in children undergoing extracorporeal membrane oxygenation - 9 year single centre experience and pictorial review. *Pediatric Radiology*. 2014 Jun;44(6):750-60.
46. Janine Cooper, David G. Gadian, Sebastian Jentschke, Allan Goldman, Monica Munoz, Georgia Pitts, Tina Banks, W. Kling Chong, **Aparna Hoskote**, John Deanfield, Torsten Baldeweg, Michelle de Haan, Mortimer Mishkin, F Vargha-Khadem. Neonatal hypoxia, hippocampal atrophy, and memory impairment: Evidence of a causal sequence. *Cerebral Cortex*. Epub Dec 13.
47. Neonatal ECMO Study of temperature (NEST): a randomized controlled trial. Field D and NEST Study Collaborative Group. *Pediatrics*. 2013 Nov;132(5):e1247-56. Epub 2013 Oct 21.
48. Cassidy J, Dominguez TE, Haynes S, Burch M, Kirk R, **Aparna Hoskote**, Smith J, Fenton M, Griselli M, Hsia TY, Ferguson LP, Van Doorn C, Hasan A, Karimova A. A longer waiting game: Bridging Children to Heart Transplant with the Berlin Heart EXCOR device - the UK experience. *Journal of Heart and Lung Transplantation* 2013 Nov;32(11):1101-6.
49. Lammers AE, Burch M, Brown KL, Hoschtitzky JA, Lunnon-Wood T, Wray J, van Doorn C, Goldman AP, **Aparna Hoskote**. ECLS for children with late (post-discharge) rejection after heart transplantation. *Pediatric Transplant*. 2013 Jun;17(4):336-42. Epub Apr 2013.
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51. Papademetriou M, Tachtsidis I, Elliott MJ, **Aparna Hoskote**, Elwell CE. Wavelet cross-correlation to investigate regional variations in cerebral oxygenation in infants supported on extracorporeal membrane oxygenation. *Adv Exp Med Biol*. 2013;765:203-9.
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53. **Aparna Hoskote**, Raghu Ramaiah, Catherine Cale, John Hartley, Katherine Brown. Role of immunoglobulin supplementation for secondary immunodeficiency associated with chylothorax after pediatric cardiothoracic surgery. *Pediatr Crit Care Med*. 2012 Sep;13(5):535-41.
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64. Kate L Brown, Deborah A Ridout, **Aparna Hoskote**, Lynda Verhulst, Marco Ricci, Catherine Bull Delayed diagnosis of congenital heart disease worsens pre-operative condition and outcome of surgery in neonates. *Heart* 92(9):1298-302 Sep 2006.
65. **Aparna Hoskote**, Desmond Bohn, Colleen Gruenwald, David Edgell, Sally Cai, Ian Adatia, Glen Van Arsdell. Extracorporeal Life Support (ECLS) following staged palliation of functional single ventricle: subsequent morbidity and survival. *Journal of Thoracic and Cardiovascular Surgery* 131(5): 1114-1121 May 2006.

66. **Aparna Hoskote**, Cohen G, Goldman A, Shekerdemian L. Tracheostomy in infants and children after cardiothoracic surgery: indications, associated risk factors, and timing. *Journal of Thoracic and Cardiovascular Surgery* 130 (4): 1086-1093, October 2005.
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70. **Aparna Hoskote**. Severe Traumatic Brain Injury and Spinal Cord Injury in Children. *Hospital Medicine* August 2004 65(8):489-492.
71. Brown K, Ridout D, Goldman A, **Aparna Hoskote**, Penny D. Risk factors for long intensive care unit stay after cardiopulmonary bypass in children. *Crit Care Med* 2003 32(1):28-33
72. **Aparna Hoskote**, Martin K, Hormbrey P, Burns EC. Fractures in infants: 1 in 4 is non-accidental. *Child Abuse Review* 2003 12:384-391.
73. **Aparna Hoskote**, Richards P, Anslow P, McShane T. Subdural haematoma and non-accidental head injury in children. *Childs Nerv Syst* 2002 Jul;18(6-7):311-7.
74. **Aparna Hoskote**, Chessells J, Pierce C. Transient abnormal myelopoiesis (TAM) causing multiple organ failure. *Intensive Care Med* 2002 Jun;28(6):758-62.

Invited Speaker at Conferences and Training Experience

- ESPNIC Conference, Athens, June 2023
- EuroELSO Conference Lisbon, April 2023
- European Postgraduate School, Bern, March 2023
- EuroELSO Conference London, May 2022
- ECMO – 2 talks and ECMO workshop 15th European Conference on Pediatric and Neonatal Mechanical Ventilation EPNV October 2021, Montreux, Switzerland
- ESPNIC, EuroELSO & ELSO & international Webinars. **2020** - April, May, June, August, September October, Nov. **2021** - February, March, May, June, September, October, November.
- ECMO Workshop. ESPNIC Winterschool, Champéry, March, 2019
- ESPNIC Workshop on ‘Paediatric Heart failure and Mechanical Circulatory Support’, Lisbon, 2017
- Annual NIRS Workshop in Cardiology in the Young, UCL, Institute of Child Health, London.
- Great Ormond Street Hospital ECMO Course – international audience - three times/year.
- Pan Thames Cardiac Intensive Care Multidisciplinary Core Curriculum Teaching – 3-4 times/year.

Academic experience

- PhD assessor, Francesca Sperotto, PhD on ‘Improving Resuscitation and **Extracorporeal Membrane Oxygenation Outcomes** in Critically Ill Pediatric Cardiac Patients: from big data, to bench, to bedside’. University of Padua, November 2021
- PhD Supervisor, Marta Cucchi, PhD on **Nursing Management and Mobilisation Pediatric ECMO** Patients. University of Maastricht, February 2021

- PhD assessor, Line Marie Holst PhD on 'Neurodevelopmental outcome after congenital heart surgery'. University of Copenhagen, Denmark, January 2021

Book Chapters

- **Red Book 6th Edition, ELSO, USA** - 2 chapters on ECMO Follow-up - neonates and cardiac ECMO - Sep 2022 at the ELSO Conference in Boston.
- **Rogers's Textbook of Paediatric Intensive Care Update, 2021**
Chapter Title: Cardiomyopathy, Myocarditis, Mechanical Circulatory Support
- **Textbook: Extracorporeal Membrane Oxygenation: An Interdisciplinary Problem Based Learning Approach. Oxford Press, 2021**
Chapter Title: Neurodevelopmental outcome after pediatric cardiac Extracorporeal Membrane Oxygenation support.
- **Acute CardioVascular Care (ACVC) Handbook on Mechanical Circulatory Support, 2021**
Chapter Title: Mechanical Circulatory Support in Children
- **Fuhrman and Zimmerman's Pediatric Critical Care, Edition 6, 2020.**
Chapter Title: Extracorporeal Life Support.

Other Interests and experience

- Building networks - national and international collaboration through ESPNIC, ELSO & EuroELSO
- Neurological outcome on Mechanical Circulatory Support
- Humanitarian work – paediatric cardiac surgery missions in India