

Curriculum Vitae

Name: Dr K Sasidaran MD (Ped), DM (Ped Critical Care), FPN (Ped Nephrology), IDPCCM (Ped Critical Care)

Clinical Position: Consultant Pediatric Intensivist and HOD PICU [Since 18.01.2013 till date]

Mehta Children's Hospital

No 2, Mc Nichols Road, 3rd Lane, Chetpet

Chennai 600031

Academic Position: DNB Pediatrics Teacher

Program Coordinator – IAP Pediatric Intensive Care Fellowship

Program Coordinator – Tamilnadu Dr MGR University Pediatric Intensive Care Fellowship

Program Director – DNB Pediatric Critical Care – National Board of Examinations

Research Position: Principal Investigator & Research Lead

INCLEN – BMGF Pneumonia Project – CENTURI Trial

Pediatric Acute Care Education and Research (PACER) Unit, Chennai

Institution: Mehta Multispecialty Hospital, Chetpet, Chennai

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Date of Birth: 21.02.1981

Educational Qualification:

Degree	Institution	Field	Year
MBBS	Chengalpattu Medical College Tamil Nadu Dr MGR Medical University		1997-2003
MD Pediatrics	PGIMER - Chandigarh	Pediatrics	2004-2007

Fellowship Pediatric Nephrology [International Ped Nephrology Association]	St John's Medical College – Bangalore	Pediatric Nephrology	2008- 2009
DM Pediatric Critical Care	PGIMER – Chandigarh	Pediatric Critical Care	2010-2012
Fellowship in Pediatric Critical Care [IAP - ISCCM]	PGIMER – Chandigarh	Pediatric Critical Care	2010-2011
Fellowship in Acute Blood Purification Therapy in Children (pCRRT)	National Centre for Child Health and Development (NCCHD) – Tokyo – JAPAN	Pediatric Acute Care Nephrology	4 weeks short term fellowship in Feb 2015

Teaching Experience

- Assistant Professor of Pediatrics and PG teacher at MGMC&RI – 2007 to 2009 – 2 years
- DM Pediatric Critical Care at PGIMER – 3 years PG teaching Experience
- DNB Pediatrics Teacher from Jan 2013 –till 2017– 5 years
- FNB & DNB Pediatric Critical Care Teacher – 2017 – Till date – 3 years
- IAP – Pediatric Intensive Care Fellowship Coordinator – 5 years
- Tamilnadu Dr MGR Medical University Fellowship Coordinator – 5 years

Teaching Experience – 12 years (Post MD Pediatrics)

Teaching Experience – 7 years (Post DM Pediatric Critical Care)

Research & Leadership Training:

Duration	Institution	Description
2 weeks	St John's Medical College Hospital – Bangalore	NIH –Mc Master University collaborative Health Research methodology residential training course – 2011
2 weeks	INCLIN Trust International & BMGF & NHRDC – New Delhi	Residential training program on – Research Leadership and Management – INCLIN LAMP Program 2015
2 days	BIRAC & Department of Biotechnology Anna University	Workshop on bio-innovation and Grant writing – Organized by BIRAC
3 days	Clinical Trials Workshop	Clinical epidemiology unit, department of biostatistics, CMC Vellore

Areas of Research interest:

Pediatric Acute Care Respiriology

Major Domain

- Respiratory Viral Infection in Critically ill children*
- Newer Oxygen support methods in critically ill children*

Others

- a. Natural history of Non-RSV Community acquired Viral pneumonia and advanced respiratory support requirement
- b. Ventilation associated Tracheitis and Pneumonia – Early Identification and management
- c. Restrictive fluid strategy in young infants with severe dengue
- d. Severe Sepsis and Multiple organ dysfunction syndrome – Role of Immune-modulator therapy
- e. Innovative methods of respiratory support techniques and their applicability at community level

Pediatric Acute Care Nephrology

Major Domain

- a. *Epidemiology and Distribution of Acute Kidney Injury in Children*
- b. *Application of blood purification therapy measures in Infection associated secondary HLH*
- c. *Acute Kidney injury and RAI (Renal Angina Index) as quality indicators in PICU for outcome analysis*

Others

- a. Role of plasmapheresis as an immune-modulator therapy in Septic MODS
- b. Role of total plasma exchange in Thrombocytopenia associated multiple organ system failure
- c. Role of Early SLEDDf in critically ill children with MODS
- d. *Role of Restrictive maintenance fluid regimen in children presenting with acute respiratory failure*

Research projects undertaken in last 5 years

S. No	Title	Funding Agency	Role	Year	Budget
1	Non-RSV viral pneumonia presenting to pediatric intensive care unit – Etiological evaluation	Self-funded [Viral RtPCR panel was done at National Institute of virology – Pune] (free of cost)	Principal investigator	2013	-

2	Family centred care initiative – Care seekers and Care providers perspectives in multidisciplinary pediatric intensive care unit – A Prospective observational study	Self-funded	Principal Investigator	2014 [Completed]	-
3	Pediatric acute care nursing education and training - its impact on knowledge level and quality of care	International Pediatric Association Foundation	Principal Investigator	2014 [Completed]	\$1000
4	Clinical effectiveness of Early Humidified High Flow Nasal Cannula [HHFNC] oxygen therapy method in 2 months to 59 months age group children attending the pediatric emergency room with severe community acquired pneumonia - A randomized controlled study	Bill and Melinda Gates Foundation & INCLEN Trust International	Principal Investigator	Ongoing	INR 92,00,000

Awards and Presentations at International Forum

- Received *Travel fellowship from WFPICCS in year 2011* and presented two research papers from PGIMER at *World Congress of Pediatric Intensive Care at Sydney Australia*
- Received *Travel Fellowship from IPNA in 2011* to present a research paper at *IPNA World Congress 2011 at New York –USA*
- Received *Travel Fellowship from International Sepsis Forum* to attend *SEPSIS 2012 at Paris* and presented three research papers from PGIMER
- Attended *World Congress of Pediatric Intensive care 2013 at Istanbul, Turkey* and made 2 oral and 3 poster presentations of our research work from Mehta Children’s Hospital – Chennai
- *Received Travel fellowship from International Sepsis Forum* to attend *SEPSIS 2014 conference in Paris and presented 2 research papers*
- Attended *8th International Pediatric CRRT conference London 2015* and presented a research paper
- Completed *4 weeks fellowship training in ‘Pediatric Blood purification therapy’ at National Centre for Child Health and Development – Tokyo Japan – year 2015*
- Attended *PICC 2016 (World Congress of Pediatric Intensive Care) at Toronto* and presented *6 original research papers*

- *Co-author for research paper on “Levetiracetam Vs Fosphenytoin in benzodiazepine refractory status epilepticus – RCT” presented at NCPCC 2016. This paper got “Best Oral Paper Award” for year 2016*

Publications

Research Paper Publications

1. Clinical effectiveness of levetiracetam compared to Fosphenytoin in the treatment of benzodiazepine refractory convulsive status epilepticus – Indian Journal of Paediatrics Jan 2020 DOI: 10.1007/s12098-020-03221-2
2. Impact of critical care point of care ultrasound short courses on trainee competence – Critical Care Medicine September 2019 DOI: 10.1097/CCM.0000000000003867
3. Psychosocial needs of patient relatives and health care providers in pediatric critical care unit – Indian Journal of Paediatrics: Feb 2017 DOI:10.1007/s12098-017-2324-2
4. Complicated Infective Endocarditis – Indian Journal of Paediatrics: June 2015 DOI:10.1007/s12098-015-1795-2
5. Clinical profile of scrub typhus in children and its association with hemophagocytic lymphohistiocytosis Indian Pediatrics: June 2014 DOI: 10.1007/s13312-014-0470-4
6. Acute upper airway obstruction Indian Journal of Pediatrics January 2011 DOI:10.1007/s12098-011-0414-0
7. Management of Acute Seizure and Status Epilepticus in pediatric emergency Indian Journal of Pediatrics April 2012 DOI:10.1007/s12098-011-0604-9
8. Validity of New Ballard Score until 7th day of post-natal life in moderately preterm neonates Arch Diseases of Childhood Fetal and Neonatal Diseases Feb 2008 DOI: 10.1136/adc.2007.122564
9. Authored book chapters in “Medical Emergencies in children by Dr Mahbarn Singh”

Abstracts published in Journal Pediatric Critical Care Medicine April-2014 supplement

- a) Trans – Thoracic Echocardiographic Assessment of IVC Diameter Variability to determine Fluid Responsiveness in Children with Septic Shock – A Pilot Study **K Sasidaran**, M Jayashree, S Singhi, M Rohit
- b) Do we still accept central venous pressure measurements to assess preload responsiveness in Children with Septic Shock? – A single Centre Experience. **K Sasidaran**, M Jayashree, S Singhi, M Rohit
- c) Intravenous Levetiracetam as a stage II antiepileptic Drug in Pediatric Convulsive Status Epilepticus: A Prospective observational study. **K Sasidaran**, SK Sathish Kumar, S Thangavelu, S Kashyap, VV Vivekanand
- d) Para –Infectious Neurological Manifestations of Mycoplasma Infection in Children – Case Series and Literature Review. **K Sasidaran**, S Thangavelu, U Kashyap, VV Vivekanand, K Shashank, K Ajit
- e) Therapeutic Plasma Exchange (PE) in Children presenting with Dengue Associated Hyperferritinemic Multiple Organ System Failure. **K Sasidaran**, VV Vivekanand, S Thangavelu, S Kashyap, N Prahalad
- f) Levothyroxine Accidental Consumption in Children – An upcoming menace to childhood safety. **K Sasidaran**, VV Vivekanand, S Thangavelu, S Kashyap, J Raman

Abstracts published in Pediatric Critical Care Medicine 2016-June supplement

- a. Prospective Comparison Of “Chloride Liberal Fluid Therapy” And “Chloride Restricted Fluid Therapy” In Critically Ill Children Admitted with Severe Dengue - An Exploratory Pilot Trial
- b. Viral Aetiology of Under 5 Children Admitted with Acute Severe Respiratory Infection In PICU - A Prospective Observational Study
- c. Does High flow (HHHFNC) Oxygen Therapy Perform As 'Equally Effective Respiratory Support' in Under-5 Children with Pneumonia While Comparing Those with Bronchiolitis? - Retrospective Observational Study
- d. Multiple Stakeholders' Perspectives On “Pediatric Critical Care Family Needs” - A Prospective Study from An Indian PICU
- e. Therapeutic Indications and Clinical Outcome of Under-5years Children Received High Flow (HHFNC) Oxygen Respiratory Support Therapy in PICU - A Prospective Observational Study
- f. Clinical Effectiveness of Levetiracetam Compared to Fosphenytoin In the Treatment of Benzodiazepine Refractory Convulsive Status Epilepticus in Pediatric Population Open Label Randomized Pilot Trial

Career Objectives

1. To establish ***high quality advanced pediatric intensive care [Transplant intensive care, Acute Care Respiriology, Acute care Nephrology, Blood purification therapy] services.***
2. To establish “***Advanced centre for pediatric critical care nephrology and extracorporeal therapies***” and initiate “***Critical Care Nephrology***” training program for fellows, trainees and nurses