





BUILDING PEM RESEARCH CAPACITY IN INDIA - **PREDICT**



26 OCT 2023 - HYDERABAD

**EMCON 2023 - Preconference
workshop at HICC Novotel**

Contact to  **+91 90593 40232**
register  **+91 90593 70232**



Paediatric Research in
Emergency Departments
International Collaborative



Large multi-centre studies are required to answer the “big questions” in acute paediatric care. In the last 20 years, there has been rapid growth in national and international research networks. There are now established PEM research networks in the USA (PEM-CRC and PECARN), Canada (PERC), Australia and New Zealand (PREDICT), the United Kingdom and Ireland (PERUKI), Europe (REPEM), Spain (RISE-Up / SPERG) and Central and South America (RIDEPLA). There is a strong collaboration between networks, coordinated through the global Pediatric Emergency Research Network (PERN).

**Currently, India does not have a PEM research network...
... but there is now an opportunity to change this!**



This one-day practical workshop for front-line paediatric emergency medicine clinicians aims to lay a solid foundation for the development of a national research network to improve the care of children presenting to emergency departments across India

By the end of this workshop, participants will

- Understand the steps necessary to design and conduct high-quality paediatric emergency medicine research.
- Understand the processes involved in setting up and running a successful multi-centre research network
- Have learned about and been given the opportunity to contribute to multinational research projects
- Have developed a prioritised set of research questions relevant to PEM in India





Paediatric Research in
Emergency Departments
International Collaborative

The workshop will be conducted by experienced faculty from the Australia / NZ PREDICT network. The PREDICT network has conducted a number of landmark multicentre studies in paediatric emergency care, including:

- Paediatric Acute Respiratory Intervention Studies on high-flow nasal oxygen therapy
 - PARIS 1 study, published in NEJM, which randomised 1472 hypoxic infants with bronchiolitis to initial treatment with low-flow nasal oxygen or high-flow nasal oxygen.
 - PARIS 2 study, published in JAMA, which randomised 1567 children with acute hypoxaemic respiratory failure to either low-flow or high-flow nasal oxygen.
- A randomised controlled trial of phenytoin vs levetiracetam in 233 children with convulsive status epilepticus (CONCEPT study), published in Lancet.
- A prospective observational study of 20,137 children and adolescents presenting to emergency departments with head injury (APHIRST study), published in Lancet
- A randomised controlled trial of apnoeic oxygenation for emergency intubation, which recruited 960 children (THRIVE study), results yet to be published.

PREDICT – International faculty



Professor Franz Babl is a paediatric emergency physician and the Professor of Paediatric Emergency Medicine at the University of Melbourne, Australia. He is the director of research at the emergency department of the Royal Children's Hospital in Melbourne, Australia, and head of emergency research at the Murdoch Children's Research Institute, Australia. He is the founding chair of PREDICT and an executive committee member of PERN, the global collaboration of emergency research networks. His research focus is on multi-centre randomized controlled trials and large observational studies in emergency conditions in children. He has sourced \$40 million (AUD) in grant funding and has published over 300 peer-reviewed papers.

Professor Simon Craig is a Paediatric Emergency Physician working at Monash Medical Centre in Melbourne. He has a strong interest in clinical research, and is currently chair of the PREDICT network and the Australasian College for Emergency Medicine ED Epidemiology Network. Simon has received over \$20 million (AUD) in research funding and has over 100 peer-reviewed publications across a wide range of emergency topics. He has also authored a number of paediatric emergency medication textbooks, is an editor of the most recent two editions of the Textbook of Paediatric Emergency Medicine. He is a co-editor (along with Prof Indumathy Santhanam) of the Paediatric Emergency Medication Book: India, and the forthcoming textbook Pediatric Resuscitation and Emergency Medicine (PREM) for Low-Middle Income Countries.



Professor Stuart Dalziel is the Cure Kids Chair of Child Health Research at the University of Auckland, New Zealand, where he is also a Professor of Paediatrics and Emergency Medicine. Clinically he works as a Paediatric Emergency Medicine Physician in the Children's Emergency Department at Starship Children's Hospital, Auckland, NZ, where he is also the Director of Emergency Medicine Research. Stuart is a past chair of PREDICT, as well as a founder and past chair of PERN. He remains an executive member of both.

Stuart's research is strongly aligned to his everyday clinical practice as a Paediatric Emergency Medicine Physician. It focuses on both medical emergencies, such as status epilepticus, and common paediatric conditions, such as asthma, bronchiolitis, and the use of paracetamol and ibuprofen. Stuart has received over \$NZ55 million in research support and has published over 200 peer-reviewed papers.

Associate Professor Elliot Long is a clinician-researcher working as a paediatric emergency physician at The Royal Children's Hospital and Murdoch Children's Research Institute in Melbourne, Victoria. He completed most of his paediatric training in Australia, and a fellowship in critical care in Vancouver, British Columbia.

Elliot's clinical and research interests are sepsis, airway management, and trauma. Elliot is an ultrasound enthusiast, and recently completed PhD studies looking at the use of ultrasound for fluid resuscitation in sepsis.

Elliot is the vice-chair of the PREDICT Network, a member of the Australian Sepsis Network Paediatric Sepsis Advisory Group, and teaches Advanced Paediatric Life Support and Emergency Trauma Management. He is the Australian Chief Principal Investigator for the international PROMPT Bolus randomised controlled trial on fluids in sepsis and is also leading SENTINEL a bi-national prospective observational sepsis research study.



Schedule

8:00 – 9:00	Registration
9:00 – 10:30	<p>Introduction, welcome and overview of the day – Simon Craig The knowledge pipeline (idea to clinical trial to change in practice) – Franz Babl Developing a research idea – Stuart Dalziel Interactive session (small groups) – developing research priorities Planning retrospective studies – Simon Craig Prospective observational studies – Elliot Long Planning a clinical trial – Stuart Dalziel</p>
10:30 – 11:00	Morning Tea
11:00 – 12:00	<p>A brief introduction to statistics. – Simon Craig Reporting guidelines (CONSORT, STROBE, etc) – Stuart Dalziel Managing data – Franz Babl Communication and keeping people engaged – Elliot Long (+/- Cate Wilson) Interactive session – discussion / clarification of research priorities</p>
12:00 – 1:00	Lunch
1:00 – 2:30	<p>International collaboration in PEM research: the PERN network – Stuart Dalziel Lessons from the PREDICT network. Getting started: structure and governance – Franz Babl 20 minutes – voting on research ideas The first projects for a network: surveys and retrospective chart reviews (examples from PREDICT) – Franz Babl Current PREDICT projects – open to collaboration from India (e.g. burns, sepsis, asthma)</p>
2:20 – 2:40	Afternoon tea
2:40 – 4:00	<p>Presentation of prioritised PEM research topics for India Interactive session – small groups focused on the top 5 research priorities (each with PREDICT faculty member and Indian PEM faculty member) Discuss / plan / workshop projects Interactive session – each working group gives brief presentation on research priority Next steps: where to from here? Meeting close</p>

