



PACCMAN

# NEWSLETTER

2023 Edition Issue 1



## Who are we ...

PACCMAN (Pediatric Acute & Critical Care Medicine Asian Network) is a collaborative research network formed in 2015 by pediatric intensive care providers. Currently, pediatric intensive care research is inadequate and poorly coordinated in Asia due to variations in clinical practice, institutional systems and resources. With conditions like sepsis, ARDS and myocarditis which carry high mortality rates, the scarcity of trends and research in this area underscores the need for collaboration and good quality interventional trials. The primary aim of PACCMAN is to promote collaboration by bringing together individuals to share experience and develop best practices for this diverse region.

PACCMAN serves as a platform to support and stimulate research into effective strategies to improve survival in critically ill children. This allows connectivity with all countries throughout Asia who can then participate/contribute as a community in meaningfully research whether they are observational or randomized. As a first step, PACCMAN has identified pediatric ARDS as one of its main areas of interest. The network will gather data to deepen understanding and gain insights to develop new strategies to improve outcome.

To know more about us, [About PACCMAN | SCRI - Singapore Clinical Research Institute](#)

# PACCMAN at a glance ...

84 Members



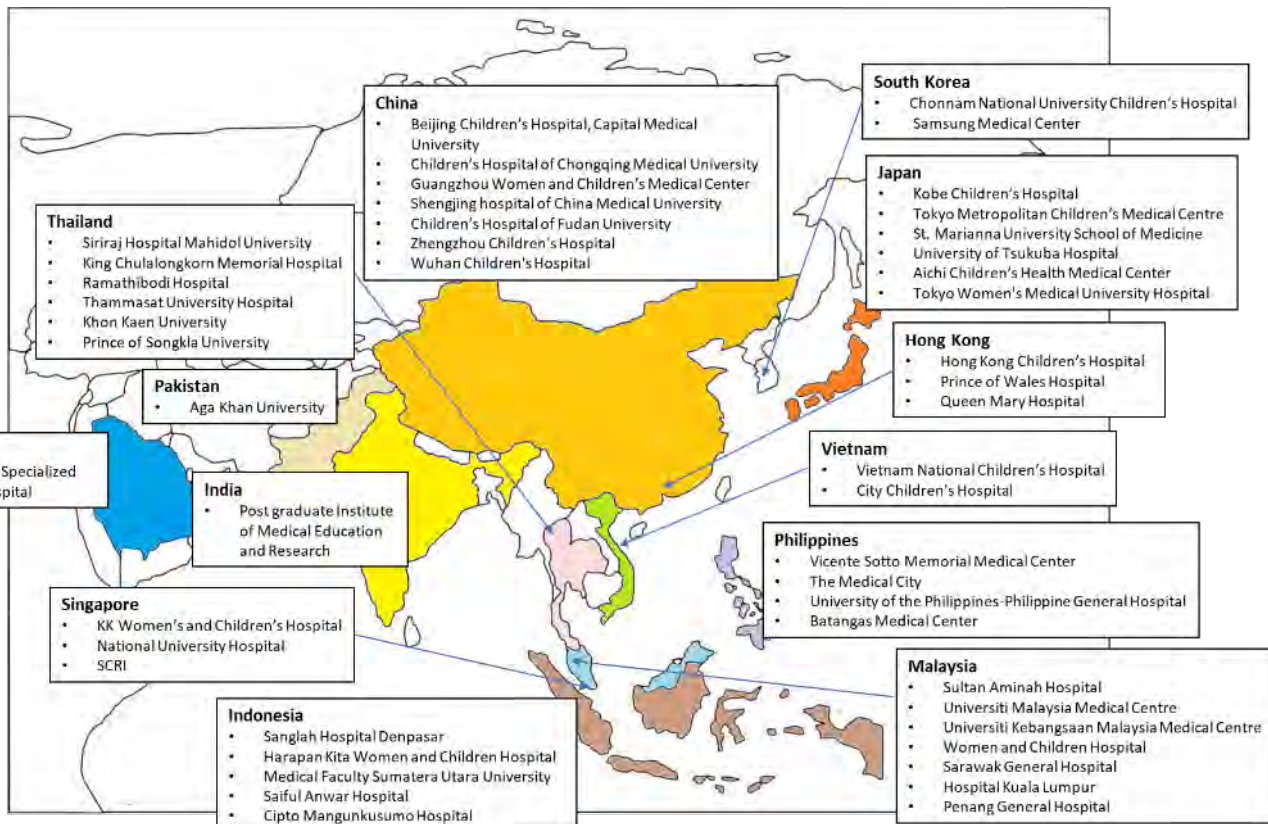
49 sites



13 Countries



15 Publications



# Announcement ...



## Election of new Executive and Scientific Committee in May 2023

More details will be send out soon

**A special thanks to our current members for their contribution to PACCMAN!**

### ~ Executive Committee Members ~



Dr. Lee Jan Hau  
PACCMAN Chair  
Senior consultant  
Children's intensive care unit  
KK Women's and Children's Hospital



Prof Rujipat Samransamruajkit  
PACCMAN Deputy Chair  
Chief of PICU  
King Chulalongkorn Memorial Hospital



Dr. Jacqueline Ong  
Member  
Head & Senior consultant  
Division of Paediatric Critical Care  
National University hospital



Prof Qian Suyun  
Member  
Professor  
Department of PICU  
Beijing Children's Hospital



Prof Jayashree M  
Member  
Chief of PICU  
Post Graduate Institute of Medical Education and Research

# Announcement ...



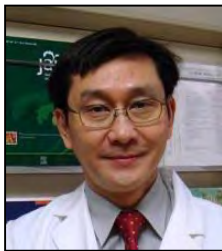
## ~ Scientific Committee Members ~



Dr. Judith Wong  
Critical Care Chair  
Consultant  
Children's intensive care unit  
KK Women's and Children's Hospital



Prof Naoki Shimizu  
Acute Medicine Chair  
Professor  
Department of Paediatrics  
St. Marianna University School of Medicine



Prof Ellis Hon  
Member  
Professor  
Paediatric Intensive Care Unit  
Hong Kong Children's Hospital



Dr. Phan Huu Phuc  
Member  
Deputy Head  
Paediatric Critical care medicine  
Vietnam national Children's Hospital

# TBI Academic Pipeline



## Published papers!

- Moderate TBI: What is the best way forward? *Pediatric Critical Care Medicine* 2022 (review article)
- Early posttraumatic seizures in pediatric traumatic brain injury: a multicenter analysis. *JNS Peds* 2021
- Early coagulopathy in pediatric traumatic brain injury: A Pediatric Acute and Critical Care Medicine Asian Network (PACCMAN) retrospective study. *Neurosurgery* 2021
- Traumatic Brain Injury Outcomes in 10 Asian Pediatric ICUs: A Pediatric Acute and Critical Care Medicine Asian Network Retrospective Study. *Pediatric Critical Care Medicine* 2020

## Manuscripts Accepted:

- Decompressive Craniectomy in paediatric TBI (Dual Centre)
- Emergency Department Site Survey (PACCMAN and LARed)
- Metabolic Disturbances in paediatric TBI: Hyperglycemia, hyperlactatemia and acidosis (PACCMAN)

## Manuscripts in submission (PACCMAN and LARed)

1. Dysnatraemias in TBI – Clinical Characteristics and Outcomes
2. Moderate Traumatic Brain Injury

## Manuscripts being drafted: Abusive Head Trauma (LARed)

### Primary Analysis for Hypertonic Saline versus Mannitol

## New Grant Awarded in 2022 (SGD 50k)

**Project Title:** Predictors of raised intracranial pressure (ICP) in children with severe Traumatic Brain Injury – Guidance when the ICP monitor is not available **Funding Agency:** SingHealth Duke-NUS Global Health Institute (SDGHI)

## Conference Abstracts – SCCM 2023 and SEMS 2023

# ***TBI Recruitment is now closed – Thank you!***



## **Prospective pTBI cohort: Does 3% hypertonic saline decrease mortality and improve long-term neurological outcomes among children with traumatic brain injury?**

**Study lead:** Dr Chong Shu Ling, Department of Emergency Medicine, KK Women's and Children's Hospital

PACCMAN and LARed recruitment summary as of **05 January 2023**--

| <b>No.</b> | <b>Country</b>   | <b>Recruited</b> |
|------------|--|------------------|
| 1          | China, Beijing (Beijing Children's Hospital)                               | 60               |
| 2          | China, Chongqing (Children's Hospital of Chongqing Medical University)     | 33               |
| 3          | Singapore, KK Women's and Children's Hospital                              | 28               |
| 4          | Malaysia, KL (University Malay Medical Centre)                             | 33               |
| 5          | Pakistan, Karachi (Aga Khan University)                                    | 28               |
| 6          | China, Shanghai (Children's Hospital of Fudan University)                  | 10               |
| 7          | Singapore, National University Hospital                                    | 10               |
| 8          | Thailand, Bangkok (Ramathibodi Hospital)                                   | 4                |
| 9          | Thailand, Bangkok (Chulalongkorn University)                               | 4                |
| 10         | China, Shenyang (Shengjing hospital, China Medical University)             | 6                |
| 11         | Malaysia, Sarawak (Sarawak General Hospital)                               | 3                |
| 12         | Malaysia, KL (Universiti Kebangsaan Malaysia Medical Centre)               | 3                |
| 13         | Japan, Kobe (Kobe Children's Hospital)                                     | 8                |
| 14         | Saudi Arabia, Riyadh (King Abdullah International Medical Research Centre) | 21               |
| 15         | Paraguay, Trauma Hospital in Asunción                                      | 16               |
| 16         | Colombia, Clinical UROS  | 23               |
| 17         | Colombia, Fundación Valle del Lili   | 11               |
| 18         | Colombia, Hospital General de Medellín                                     | 4                |
| 19         | Argentina, Hospital de Niños Sor María Ludovica de La Plata                | 8                |
| 20         | Colombia, Hospital Infantil Los Angeles                                    | 30               |
| 21         | Bolivia, Hospital del Niño Manuel Ascencio Villarroel                      | 39               |
| 22         | Mexico, Hospital Juarez De Mexico  | 3                |
| 23         | Mexico, Hospital Civil de Guadalajara                                      | 32               |
| 24         | Argentina, Hospital de Pediatría Garrahan                                  | 12               |
| 25         | Costa Rica, Hospital Nacional de Niños                                     | 13               |
| 26         | Argentina, Hospital de Niños Ricardo Güiterre                              | 3                |
| 27         | Spain, Hospital Universitario Virgen de la Arrixaca                        | 18               |
| 28         | Peru, Hospital Nacional Hipólito Unanue                                    | 19               |

**Total**

**483**

# Study Updates 3 ...



## **Pediatric Acute Respiratory Distress Syndrome in Asia (PARDS study subgroup of PACCMAN)**

**Study lead:** Dr Judith Wong, KK Women's and Children's Hospital, Singapore

| <b>Study Phases</b>   | <b>Target sample size</b>      |
|---|--------------------------------|
| <b>PARDS Prospective Multi-centre Study in Asia</b>   | <b>Achieved</b>                |
| KK Women's and Children's Hospital, Singapore   | 11                             |
| National University Hospital, Singapore   | 7                              |
| National Hospital of Pediatrics, Vietnam  | 42                             |
| Guangzhou Women and Children's Medical Center, China  | 16                             |
| Universiti Kebangsaan Malaysia , Malaysia   | 4                              |
| Sarawak General Hospital, Malaysia  | 32                             |
| Children's Hospital of Chongqing Medical University, China  | 96                             |
| Harapan Kita Children and Women hospital, Indonesia   | 18 (7)                         |
| Hong Kong Children's Hospital   | 3                              |
| Shengjing hospital of China Medical University, China   | 19                             |
| Sanglah Hospital Denpasar, Indonesia  | 22                             |
| Sultanah Aminah Hospital, Malaysia  | 16                             |
| Ramathibodi Hospital, Thailand  | 30                             |
| Children's Hospital of Fudan University , China   | 8                              |
| Post Graduate Institute of Medical Education and Research, India  | 19                             |
| University Malaya Medical Centre, Malaysia  | 33                             |
| Penang General Hospital, Malaysia   | 8 (3)                          |
| Hospital Tunku Azizah Kuala Lumpur, Malaysia  | 11                             |
| Kobe Children's Hospital, Japan   | 5                              |
| <b>Lung Protective Mechanical Ventilation Strategies in PARDS; A Before-and-After Comparison Study Design</b> | <b>On target by March 2023</b> |
| KK Women's and Children's Hospital, Singapore   | 143                            |
| National University Hospital, Singapore   | 5                              |
| National Hospital of Pediatrics, Vietnam  | 21                             |
| Universiti Kebangsaan Malaysia , Malaysia   | 3                              |
| University Malaya Medical Centre, Malaysia  | 38                             |
| Children's Hospital of Chongqing Medical University, China  | 35                             |
| Kobe Children's Hospital, Japan   | 2 (29)                         |
| Hospital Tengku Ampuan Rahimah , Malaysia   | 16                             |

## Study Updates 3 ...



# PARDS Asia Timeline

Stop recruitment March 2023



Complete data entry March 2023



Final round of data cleaning April 2023



Final data analysis May 2023



Publication of main study findings  
December 2023



Publication of sub-findings 2024





# Study Updates 4 ...



## Severe Pneumonia in Children (S-PIC) Study: A Comparative Effectiveness Study of Children with Severe Pneumonia in Asia

**Study lead:** Dr Lee Jan Hau, Children's Intensive Care Unit, KK Women's and Children's Hospital, Singapore

**ABSTRACT:** Severe pneumonia is a leading cause of mortality and morbidity in children worldwide. Mortality rates from paediatric severe pneumonia are three times higher in South East Asia compared to the Western hemisphere. The lack of description of epidemiology, current management strategies and outcomes of children with severe pneumonia admitted to paediatric intensive care units (PICUs) in Asia is a barrier to improving paediatric critical care in the region. The lack of a sustainable paediatric critical care network in Asia makes multinational PICU studies challenging.

**AIM:** To estimate the burden of paediatric patients admitted to Asian PACCMAN PICUs due to severe pneumonia that develop paediatric acute respiratory distress syndrome; To characterize etiologies, identify risk factors associated with morbidity and mortality, and develop prognostic prediction models.



**Recruitment closed**  
**Total patients 931**  
**Analysis in progress**

**Abstract will be presented at the 52<sup>nd</sup> Annual  
Critical Care Congress of the Society of Critical  
Care Medicine 2023**

# Upcoming Event ...



**APICC2023**  
PHUKET, THAILAND

## 4<sup>TH</sup> ASIAN PEDIATRIC INTENSIVE CARE MEDICINE CONGRESS

IN CONJUNCTION WITH  
ANNUAL THAI PEDIATRIC PULMONARY & CRITICAL CARE 2023

**MAY 10-12, 2023**  
NOVOTEL PHUKET CITY PHOKEETHRA, PHUKET, THAILAND



# STRENGTHENING CARE OF CRITICALLY ILL CHILDREN



## WWW.APICC2023.COM

### HIGHLIGHTS

- PEDIATRIC ARDS
  - SEDATION, ANALGESIC, AND DELIRIUM
  - COVID-19
  - FLUID AND NUTRITION
  - SEPSIS AND SEPTIC SHOCK
  - RESUSCITATION
  - NEURO CRITICAL CARE
  - RESPIRATORY INFECTION
  - TRANSPORTATION AND RAPID RESPONSE SYSTEM
  - ULTRASOUND: POCUS
  - CARDIAC CRITICAL CARE
  - EXTRACORPOREAL ORGAN SUPPORT
  - ASIAN AND GLOBAL IN PEDIATRIC CRITICAL CARE RESEARCH COLLABORATION
- 
- PEDIATRIC CRITICAL CARE YEAR IN REVIEW 2023
  - MEET THE EXPERTS
  - ROUND TABLE IN PEDIATRIC CRITICAL CARE CASES

### OUR WORLD RENOWNED GUEST SPEAKERS

- 1. PROF. VINAY NADKARNI, MD**  
THE MEDICAL DIRECTOR OF THE CENTER FOR SIMULATION, ADVANCED EDUCATION AND INNOVATION AT CHILDREN'S HOSPITAL OF PHILADELPHIA. PRESIDENT ELECT OF SCCM
- 2. PROF. IRA CHEIFETZ, MD**  
DIVISION CHIEF, PEDIATRIC CRITICAL CARE MEDICINE, PEDIATRIC CARDIOLOGY UH RAINBOW BABIES AND CHILDREN'S HOSPITAL
- 3. PROF. NILESH MEHTA, MD**  
PROFESSOR OF ANESTHESIA (CRITICAL CARE), HARVARD MEDICAL SCHOOL
- 4. PROF. RAVI THIAGARAJAN, MD**  
CHIEF EMERITUS, DIVISION OF CARDIOVASCULAR CRITICAL CARE; CALLAGHAN FAMILY CHAIR IN CARDIAC INTENSIVE CARE
- 5. PROF. KAREN CHOONG, MD**  
PROFESSOR IN THE DEPARTMENTS OF PEDIATRICS AND CRITICAL CARE, MCMASTER UNIVERSITY
- 6. PROF. SATOSHI NAKAGAWA, MD**  
PAST PRESIDENT WFPICCS, DIVISION CHIEF, CRITICAL CARE MEDICINE, NATIONAL CENTER FOR CHILD HEALTH AND DEVELOPMENT, TOKYO
- 7. ASSOC. PROF. LEE JAN HAU, MD**  
KK WOMEN'S AND CHILDREN'S HOSPITAL, SINGAPORE
- 8. PROF. RANJIT SUCHITRA**  
DIRECTOR OF PICU AT APOLLO CHILDREN'S HOSPITAL, CHENNAI, INDIA
- 9. ASSOC. PROF. DEBRA WEINER MD, PHD**  
ASSOCIATE PHYSICIAN IN MEDICINE, DIVISION OF EMERGENCY MEDICINE; DIRECTOR, PEDIATRIC EMERGENCY MEDICINE HARVARD MEDICAL SCHOOL

### AND INVITED SPEAKERS FROM ASIAN PACCMAN SPEAKERS

LEE JH, ARUN BANSAL, JAYASHREE M, CHIN SENG GAN, PHUC PHAN, JACQUELINE ONG AND MANY MORE

### REGISTRATION

#### INTERNATIONAL RATE

200 USD FELLOW IN TRAINING  
250 USD FOR EARLY BIRD LIKE UP TO MARCH 15, 2023  
380 USD INTERNATIONAL NORMAL RATE

#### อัตราคนไทย

แพทย์ ๗,๐๐๐ บาท

พยาบาล ๕,๐๐๐ บาท

แพทย์ประจำบ้านและ

แพทย์ต่อยอด

### VENUE



#### NOVOTEL PHUKET CITY PHOKEETHRA

[HTTPS://WWW.NOVOTEL-PHUKET-PHOKEETHRA.COM/](https://www.novotel-phuket-phokeethra.com/)

LOCATED IN THE CULTURAL CAPITAL OF THAILAND'S LARGEST AND MOST FAMOUS ISLAND, KNOWN FOR ITS BEAUTIFUL SINO-COLONIAL ARCHITECTURE, AWARD-WINNING RESTAURANTS, ART GALLERIES AND MORE, THE NOVOTEL PHUKET CITY PHOKEETHRA OFFERS TRAVELLERS THE ULTIMATE SANCTUARY TO EXPLORE HISTORIC PHUKET OLD TOWN.



### CONTACT US



[INFO@APICC2023.COM](mailto:INFO@APICC2023.COM)  
[WWW.APICC2023.COM](http://WWW.APICC2023.COM)

# Upcoming Event ...



**PRE-CONGRESS WORKSHOP**  
ULTRASOUND IN PEDIATRIC RESPIRATORY & CRITICAL CARE & PED MECHANICAL VENTILATION

May 8-9, 2023  
Novotel Phuket City Phokeethra,  
Phuket, Thailand

**COURSE DIRECTORS**

**RUJIPAT SAMRANSAMRUAJKIT, MD**  
PEDIATRIC CRITICAL CARE DIVISION,  
DEPARTMENT OF PEDIATRICS,  
FACULTY OF MEDICINE,  
CHULALONGKORN UNIVERSITY

**CHALERMTHAI AKSILP, MD**  
PEDIATRIC PULMONARY & CRITICAL CARE DIVISION  
DEPARTMENT OF PEDIATRICS  
QUEEN SIRIKIT NATIONAL INSTITUTE OF CHILD HEALTH

**HIGHLIGHTS:**

- US PHYSICS & KINOBIOLOGY
- BASIC ECHOCARDIOGRAPHY NORMAL & ABNORMAL
- LUNG US: NORMAL AND PATHOLOGIC FINDINGS BY US
- ABDOMINAL & EMERGENCY US
- US VASCULAR CATHETERIZATION – SPECIAL CONSIDERATIONS
- US-COMPAI HEMODYNAMIC MONITORING
- ADVANCED APPLICATION OF US IN PICU
- THE BASIC MECHANISM OF NIV/INVASIVE MECHANICAL VENTILATION
- THE ROLE OF NIV/HFNC IN MANAGEMENT OF PED BF
- WHAT IS NEW FOR PED ARDS 2023 AND BEYOND ?
- LUNG RECRUITMENT IN PED ARDS: WHAT WOULD BE THE BEST?
- HFNC IN PEDIATRIC BF: IS IT THE END OF THE ROAD?
- THE ROLE PRONE POSITION IN PED ARDS
- FLUID MANAGEMENT IN CHILDREN ON MV
- VENTILATOR STRATEGIES IN MANAGEMENT OF PEDIATRIC AIRWAY OBSTRUCTION
- WEANING STRATEGIES
- BASIC & ADVANCED RESPIRATORY MONITORING DURING MV
- THE ROLE OF ECMO IN MANAGEMENT OF SEVERE REFRACTORY PED BF WHEN AND HOW?

AND HANDS ON WORKSHOP

**REGISTRATION FEE**  
USD 150 FOR INTERNATIONAL PARTICIPANT (ONSITE ONLY)  
4,000 BAHT FOR LOCAL PARTICIPANT (ONSITE & LIMIT AT 40 PAC)  
1,000 BAHT FOR LOCAL PARTICIPANT (ONLINE)

**REGISTRATION WEBSITE**  
[WWW.APICC2023.COM](http://WWW.APICC2023.COM)



**INVITED SPEAKERS**

**DHIREN GUPTA**  
CO-DIRECTOR PICU SENIOR CONSULTANT  
SIR GAN GIDARAM HOSPITAL, NEW DELHI, INDIA

**MEHAK BANSAL**  
SENIOR CONSULTANT  
PED CARDIAC INTENSIVIST  
ILICHIANA, PANJAB, INDIA

**EE TEIN TAY,**  
PEDIATRIC EMERGENCY & ULTRASOUND SPECIALIST  
NYU/NYC HEALTH + HOSPITALS/BELLEVUE

**AND MORE**



The main congress will be held on **10-12 May 2023**.

There will also be a **2-day Pre congress workshop** on US/Ped Mechanical Ventilation on **8-9 May 2023**.

**PACCMAN meeting** will be held in conjunction with the main conference. Details to be release at later date.

More information available through the website

<https://www.apicc2023.com>

# ***Our publications ...***



1. Wong JJ, Phan HP, Phumeetham S, et. al. **Risk Stratification in Pediatric Acute Respiratory Distress Syndrome: A Multicenter Observational Study.** 2017 Nov;45(11):1820-1828.
2. Gan CS\*, Wong JJ\*, Samransamruajkit R, et. el. **Differences Between Pulmonary and Extrapulmonary Pediatric Acute Respiratory Distress Syndrome: A Multicenter Analysis.** *Pediatr Crit Care Med.* 2018 Oct;19(10):e504-e513.
3. Jian Sheng Zeng, Su Yun Qian, Judith JM Wong, et. al. **Non-Invasive Ventilation in Children with Paediatric Acute Respiratory Distress Syndrome.** *Ann Acad Med Singapore* 2019;48:224-32.
4. Wong JJ, Liu S, Dang H, et. al. **The Impact of High Frequency Oscillatory Ventilation on Mortality in Paediatric Acute Respiratory Distress Syndrome.** *Crit Care.* 2020 Jan 31;24(1):31.
5. Chong SL, Dang H, Ming M, et. al. ; Pediatric Acute & Critical Care Medicine Asian Network (PACCMAN). **Traumatic Brain Injury Outcomes in 10 Asian Pediatric ICUs: A Pediatric Acute and Critical Care Medicine Asian Network Retrospective Study.** *Pediatr Crit Care Med.* 2020 Oct 7. doi: 10.1097/PCC.0000000000002575. Online ahead of print. PMID: 33027240.

6. Rujipat Samransamruajkit, Judith Ju-Ming Wong, Chutima Smathakane, et. al., Pediatric Sepsis Asian Collaboration (PEDSAC) Investigators and on behalf of the Pediatric Acute and Critical Care Medicine Asian Network (PACCMAN). **Pediatric Severe Sepsis and Shock in Three Asian Countries: A Retrospective Study of Outcomes in Nine PICUs.** *Pediatr Crit Care Med.* 2021 Mar 1. doi: 10.1097/PCC.0000000000002680. Online ahead of print.
7. Judith J. M. Wong, Qalab Abbas, Nattachai Anantasit, et. al., Pediatric Acute Critical Care Medicine Asian Network. **Changes Adopted in Asian Pediatric Hospitals during the COVID-19 Pandemic: A Report from the Pediatric Acute and Critical Care COVID-19 Registry of Asia.** *Journal of Pediatric Intensive Care.* Published online: 2021-01-19.
8. Shu-Ling Chong, Gene Yong-Kwang Ong, Charles Qishi Zheng, et. al. **Early Coagulopathy in Pediatric Traumatic Brain Injury: A Pediatric Acute and Critical Care Medicine Asian Network (PACCMAN) Retrospective Study.** *Neurosurgery.* 2021 Apr 29;nyab157. doi: 10.1093/neuros/nyab157.
9. Judith Ju Ming Wong, Qalab Abbas, Soo Lin Chuah, et. al., PACCOVRA Investigators of the PACCMAN Research Group. **Comparative Analysis of Pediatric COVID-19 Infection in Southeast Asia, South Asia, Japan, and China.** *Am J Trop Med Hyg.* 2021 Jun 15;tpmd210299. doi: 10.4269/ajtmh.21-0299.
10. Shu-Ling Chong, Samuel Enci Quek, Jan Hau Lee. **Moderate Pediatric Traumatic Brain Injury: What Is the Best Way Forward?** *Pediatr Crit Care Med.* 2022 Jun 1;23(6):e300-e301.

11. Shu-Ling Chong, Suyun Qian, Sarah Hui Wen Yao, et. al. **Early Posttraumatic Seizures in Pediatric Traumatic Brain Injury: A Multicenter Analysis.** J Neurosurg Pediatr. 2021 Oct 29;1-7. doi: 10.3171/2021.8.PEDS21281.
12. Wong JJM\*, Abbas Q\*, Liauw F, Malisie RF, Gan CS, Abid M, Efar P, Gloriana J, Chuah SL, Sultana R, Thoon KC, Yung CF, Lee JH; PACCOVRA Investigators of the PACCMAN research group. **Development and validation of a clinical predictive model for severe and critical pediatric COVID-19 infection.** PLoS One. 2022 Oct 27;17(10):e0275761. doi: 10.1371/journal.pone.0275761. eCollection 2022. PMID: 36301941
13. Pei-Fen Poh, Qian Wen Sng, Jos M Latour, Linxi He, Mei Fung Fong, Jayashree Muralidharah, Qalab Abbas, Yujiro Matsuishi, Jan Hau Lee, Pediatric Acute & Critical Care Medicine Asian Network (PACCMAN). **Pediatric Critical Care Nursing Research Priorities in Asia: An eDelphi Study.** Pediatr Crit Care Med. 2022 Nov 1;23(11):e498-e506. doi: 10.1097/PCC.0000000000003023. Epub 2022 Jul 14.
14. Judith Ju Ming Wong\*, Chin Seng Gan\*, Sanghvi Heli Kaushal, Soo Lin Chuah, Rehena Sultana, Natalie Woon Hui Tan, Kah Peng Eg, Thoon Koh Cheng, Jan Hau Lee, Chee Fu Yung. **Pediatric COVID-19 Risk Factors in Southeast Asia-Singapore and Malaysia; A Test-Negative Case-Control Study.** American Journal of Tropical Medicine and Hygiene. 2022 Feb 15;tpmd211000. doi: 10.4269/ajtmh.21-1000.

15. Angela Hui Ping Kirk, Shu-Ling Chong, Kai-qian Kam, Huang Weili, Linda Su Ling Ang, Jan Hau Lee, Rehena Sultana, Kam Lun Hon, Judith Ju Ming Wong. **Psychosocial Impact of the COVID-19 Pandemic on Paediatric Healthcare Workers.** Annals, Academy of Medicine, Singapore 2021 Mar;50(3):203-211

## Calling for new research ideas

If you have any new research ideas, please pen it down in the proposal form and submit it to

[patricia.tay@scri.cris.sg](mailto:patricia.tay@scri.cris.sg).

You may download the form from this [link](#).



# Join Us ...



To join us, please go to:

<https://www.scri.edu.sg/crn/pediatric-acute-critical-care-medicine-asian-network/members/> to download the registration form. Kindly submit the completed form to [patricia.tay@scri.cris.edu.sg](mailto:patricia.tay@scri.cris.edu.sg).

If you have any feedback or would like to feature updates from your country in the PACCMAN newsletter, kindly write to Ms Patricia Tay, PACCMAN secretariat, at [patricia.tay@scri.cris.sg](mailto:patricia.tay@scri.cris.sg).



We welcome anyone who is keen to collaborate and share common goal of developing best practices to improve survival in critically ill children in Asia. If you have any colleagues or friends who are interested, please do refer them to us.