PROCEEDING BOOK

THE 2nd ASIAN PEDIATRIC MECHANICAL VENTILATION FORUM (APMVF) 2019
in conjunction with
THE 3rd PEDIATRIC ACUTE AND CRITICAL CARE MEDICINE ASIAN NETWORK (PACCUMAN) MEETING 2019

Sunan Hotel, Surakarta
21st - 24th March 2019
PROCEEDING BOOK
From Diversity to Unity

The 2nd Asian Pediatric Mechanical Ventilation Forum (APMVF) 2019

In conjunction with
THE 3rd PEDIATRIC ACUTE AND CRITICAL CARE MEDICINE ASIAN NETWORK (PACCMAN) MEETING 2019
PROCEEDING BOOK
From Diversity to Unity

THE 2nd ASIAN PEDIATRIC MECHANICAL VENTILATION FORUM (APMVF) 2019

In conjunction with
THE 3rd PEDIATRIC ACUTE AND CRITICAL CARE MEDICINE ASIAN NETWORK (PACCMAN) MEETING 2019

Editor:
DR. Dr. Ririe Fachrina Malisie, Sp.A(K)
Dr. Abdul Latief, Sp.A(K)

Reviewer:
DR. Dr. Antonius H. Pudjiadi, Sp.A(K)
Satoshi Nakagawa, MD

All rights reserved
No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic methods, without the prior written permission of the publisher.

The publisher doesn't take any responsibility to the content

Published by:
Badan Penerbit Ikatan Dokter Anak Indonesia
Jl. Salemba I No. 5, Jakarta

Dear colleagues,

On behalf of the Organizing Committee, I am pleased to welcome you all to the 2nd Asian Pediatric Mechanical Ventilation (APMV) Forum at the Sunan Hotel Surakarta on 21st - 24th March 2019. The congress is a joint operation of Indonesian Pediatric Society with World Federation of Pediatric Intensive and Critical Care Societies (WFPICCS). WFPICCS has made an enormous effort to build a pediatric critical care networking in the world. It is a great honor for the Working Group of Emergency and Pediatric Intensive Care Medicine on behalf of The Indonesian Pediatric Society to be the host of this prestigious meeting in Indonesia.

I hope this Forum will be able to help the experts and physicians in critical care medicine sharing the knowledge and build the power of diversity to unity around Asian countries. A diverse array of opportunities for knowledge exchange and professional networking between colleagues will be provided. The congress also will be more productive with conjoint the 3rd Pediatric Acute and Critical Care Medicine Asia Network (PAACCMAN) Meeting 2019 whereas scientific program consist of pre-congress workshops, plenary, Symposium, debate session, lunch symposium, and oral & poster presentations.

Delegates will be able to gain novel knowledge through our sessions, as well as getting the latest updates on topics presented by domestic and international prominent’s speakers in pediatric critical care.

We do believe that the 2nd Asian Pediatric Mechanical Ventilation Forum (APMV) 2019 in conjunction with the 3rd Pediatric Acute and Critical Care Medicine Asia Network (PAACCMAN) Meeting 2019 in Surakarta - Indonesia, will be a successful one. We hope this event can
achieve the great success with expected attendees around 400 national and international practitioner and experts from the pediatric societies, pediatrician, other specialist, general practitioners and nurse.

My special thanks to all of our honorable invited speakers for your active role and contribution to this important event.

Highest appreciation extended to the kind contribution of industrial companies to this remarkable symposium and exhibition. I do believe that with your participation and valuable support, this important event will be a successful one.

Ririe Fachrinas Malisie, MD, PhD
Chairman of the 2nd APMV Forum 2019
Dear colleagues,

It is a great honor to welcome you all to the 2nd Asian Pediatric Mechanical Ventilation Forum (APMVF) 2019. It is a pleasant privilege to be able to host this prestigious event for the first time in Indonesia.

Pediatric critical care is an essential part in pediatric healthcare. We hope that participants gain substantial benefits since many updates are available from distinguished speakers from all over the world. Needless to say, critical care is an important skill for medical staffs. However, the importance of evidence-based, up-to-date critical illness management is not only aimed at saving lives, but also in minimizing sequelae as much as possible, in hope that patients may fully recover and reach optimal growth and development later on. This mindset is in accordance with SDGs 3, good health and well-being: to ensure a healthy life and improve well-being for all ages.

I would also like to express my warm gratitude to Pediatric Emergency and Intensive Care Working Group of Indonesian Pediatric Society and Indonesian Pediatric Society Central Java Chapter as well as Surakarta Representative, together with all related partners who have been working hard to make this event possible. Last but not least, I sincerely wish all participants get a balanced experience between learning and adventure, since Solo is a beautiful travel destination with a lot to offer.

Welcome to Indonesia and looking forward to seeing you in Solo.

Aman B Pulungan, MD, PhD, FAAP
President of Indonesian Pediatric Society
## ORGANIZING COMMITTEE

### Steering Committee
- Satoshi Nakagawa (Japan)
- Board Member of Director WFPICCS Asia
- Aman B. Pulungan (Indonesia)
- Antonius H. Pudjiadi (Indonesia)
- Fitri Hartanto (Indonesia)
- Hari Wahyu Nugroho (Indonesia)

### Organizing Committee
- **Chairman**: Ririe Fachrina Malisie
- **Vice Chairman**: Abdul Latief
- **Secretary I**: Sri Martuti
- **Secretary II**: M. Supriatna TS
- **Treasurer I**: Pudiastuti
- **Treasurer II**: Rosalina Dewi

### Scientific Committee
- Satoshi Nakagawa (Japan)
- Lee Jan Hau (Singapore)
- Tang Swee Fong (Malaysia)
- Antonius H. Pudjiadi (Indonesia)
- Ririe Fachrina Malisie (Indonesia)
- Rujipat Samransamruajkit (Thailand)
- Phan Huu Puc (Vietnam)

### Registration
- Annang Girimoelya

### Accommodation
- Muhammad Riza

### Venue-Exhibition-Equipment
- Andika Trisna Putra

### Fund and Partnership
- Dewi Ratih Priyatiningtsih

### Pre-congress Workshop Coordinator
- Member
- Yusrina Istanti
- Lilik

### Scientific Program Coordinator
- Member
- Dharma G. Moelyo
- Neurinda Permata Kusumastuti
Oral and Paper Presentation
Coordinator
   Member
Transportation
Permit and Security
Publication & Documentation
Coordinator
   Member
Food and Beverages

Rismala Dewi
Dadang Hudaya
Aridamuriany D. Lubis
Sandi Nugraha
Ony Sapto Pramana
Tressa Bayu Bramantyo
Nurdin Aji Iskandar
Husnia Auliyaatul Umma
Anis Marfuah
CONTENTS

Welcome Message
  - Chairperson of The Organizing Committee ......................................... iii
  - President of Indonesian Pediatric Society ........................................ v

Organizing Committee ................................................................................ vii

Plenary .......................................................................................................... 1

Symposium .................................................................................................. 5

Oral Presentation ....................................................................................... 25

Poster Presentation .................................................................................... 37
Interpretation of Blood Gas Analysis and Nutritional Status in Severe Bronchopneumonia Patients in the Pediatric Intensive Care Unit of the RSUD Prof. DR. RD. Kandou, Manado

Ari L. Runtunuwu, Jose M Mandei, Holly Sanusi, Jeanette I. Ch. Manoppo
Pediatric Division of Sam Ratulangi University, Manado

Background: Bronchopneumonia is a medical emergency in children that often occurs in Indonesia, because mortality and morbidity are still high.

Methods: We used a retrospective cohort study using data taken from medical records of severe bronchopneumonia patients and examined for AGD treated in the Pediatric Intensive Care Unit (PICU) of RSUD Prof. Dr. RD. Kandou, Manado from 1 January 2018 to 31 December 2018. Data collected consisted of gender, age, BGA results and nutritional status.

Objective: This study aims to determine the description of Blood Gas Analysis (BGA) and description of nutritional status in children with severe bronchopneumonia.

Results: The samples obtained were 82 patients diagnosed with severe bronchopneumonia and examined by BGA. Obtained 4 patients with overweight, 11 malnutrition, and 67 good nutrition. There were 18 using a ventilator and 64 without a ventilator. In patients with ventilators, 10 died with 8 accompanied by sepsis and 2 without sepsis (6 respiratory alkalosis, 1 respiratory acidosis, 1 metabolic acidosis and 2 within normal limits) and 8 cured (3 respiratory acidosis and 5 Normal). In patients without ventilators, 55 were cured, accompanied by 2 sepsis and 53 without sepsis (6 respiratory acidosis and 49 normal), and 9 died with 4 sepsis and 5 without sepsis (2 respiratory acidosis, 3 of respiratory alkalosis, and 4 normal).
Conclusion: In severe bronchopneumonia patients with respiratory alkalosis, the prognosis is worse.

Keywords: Ventilator bronchopneumonia Blood gas analysis