

# ICU

MANAGEMENT & PRACTICE

@ICU\_Management



2024

VOLUME 24  
ISSUE 1

# Pharmacist in the ICU

**Defining Medicines Optimisation in the Intensive Care Unit,** *B O'Farrell, L Bosma, R Sloss, C McKenzie*

**Critical Care Pharmacists Save Lives,** *A Sikora, B Murray, A Most, G Martin*

**Clinical Pharmacists in Intensive Care in Europe: From Basement to Bedside,** *N Hunfeld, S O'Halloran, A Fischer, C Chapuis, S Guntschnig, I Spriet*

**The Multiple Roles of the Critical Care Pharmacist,** *S Raj, N Gadher, R Shulman*

**Critical Care Pharmacists Contribute to Patient and Economic Outcomes Worldwide,** *J Jacobi*

**Haemoadsorption in Critically Ill Patients: The New Frontier,** *C Ronco*

**Corticosteroids in the Intensive Care Unit: Evidence-Based Recommendations** *RA Reyes-Monge, LM Méndez-Martínez, S González-Sotelo, S Rayo-Rodríguez, L Soto-Muñoz, C Mendiola-Villalobos, OR Pérez-Nieto, E Deloya-Tomas, TO Mondragón-Labelle*

[icu-management.org](http://icu-management.org)

# AGENDA

For a full listing of events visit <https://iii.hm/icievents2024>

## MARCH

19-22 43rd ISICEM Brussels, Belgium  
<https://iii.hm/1orw>

27-30 34th ECCMID 2024  
Barcelona, Spain  
<https://iii.hm/1os4>

28-30 ECTES 2024 -23nd European Congress of Trauma and Emergency Surgery  
Estoril, Portugal  
<https://iii.hm/1os5>

## APRIL

6 SYSCOPE 2024- International Interdisciplinary Symposium  
Berlin, Germany  
<https://iii.hm/1orx>

10-13 ISHLT 2024 - 44th Annual Meeting & Scientific Sessions ,Prague, Czech Republic  
<https://iii.hm/1ory>

24-27 12th EuroELSO 2024  
Krakow, Poland  
<https://iii.hm/1orz>

25-26 20th Annual Critical Care Symposium  
Manchester, United Kingdom  
<https://iii.hm/1os1>

25-26 13th Ultrasound In Acute Care Manchester, United Kingdom  
<https://iii.hm/1os2>

## MAY

10-12 20th Emirates Critical Care Conference  
Dubai, UAE  
<https://iii.hm/1os7>

17-22 ATS 2024: American Thoracic Society  
San Diego, California  
<https://iii.hm/1os8>

25-27 Euroanaesthesia 2024  
Munich, Germany  
<https://iii.hm/1os9>

29-31 35° SMART – Smart Meeting Anesthesia Resuscitation Intensive Care Milan, Italy  
<https://iii.hm/1osa>

### EDITOR-IN CHIEF

Prof Jean-Louis Vincent, Consultant, Department of Intensive Care, Erasme Hospital, Free University of Brussels, Belgium

[jlvincent@intensive.org](mailto:jlvincent@intensive.org)

### EDITORIAL BOARD

Prof Antonio Artigas (Spain)  
Prof Jan Bakker (The Netherlands)  
Prof Richard Beale (United Kingdom)  
Prof Jan de Waele (Belgium)  
Prof Bin Du (China)  
Prof Hans Flaatten (Norway)  
Prof Armand Girbes (Netherlands)  
Prof Theodoros Kyprianou (Cyprus)  
Prof Jeff Lipman (Australia)  
Prof Flavia Machado (Brazil)  
Prof John Marini (United States)  
Prof Paul E. Pepe (United States)  
Prof Paolo Pelosi (Italy)  
Dr Shirish Prayag (India)  
Dr Emma J. Ridley (Australia)  
Prof Gordon Rubenfeld (Canada)  
Dr Francesca Rubulotta

[aartigas@cspt.es](mailto:aartigas@cspt.es)  
[jan.bakker@erasmusmc.nl](mailto:jan.bakker@erasmusmc.nl)  
[richard.beale@gstt.sthames.nhs.uk](mailto:richard.beale@gstt.sthames.nhs.uk)  
[jan.dewaete@ugent.be](mailto:jan.dewaete@ugent.be)  
[dubin98@gmail.com](mailto:dubin98@gmail.com)  
[hans.flaatten@helse-bergen.no](mailto:hans.flaatten@helse-bergen.no)  
[arj.girbes@vumc.nl](mailto:arj.girbes@vumc.nl)  
[tkyprian@gmail.com](mailto:tkyprian@gmail.com)  
[j.lipman@uq.edu.au](mailto:j.lipman@uq.edu.au)  
[frmachado@unifesp.br](mailto:frmachado@unifesp.br)  
[john.j.marini@healthpartners.com](mailto:john.j.marini@healthpartners.com)  
[paul.pepe@utsouthwestern.edu](mailto:paul.pepe@utsouthwestern.edu)  
[ppelosi@hotmail.com](mailto:ppelosi@hotmail.com)  
[shirishprayag@gmail.com](mailto:shirishprayag@gmail.com)  
[emma.ridley@monash.edu](mailto:emma.ridley@monash.edu)  
[gordon.rubenfeld@sunnybrook.ca](mailto:gordon.rubenfeld@sunnybrook.ca)  
[francesca.rubulotta@nhs.net](mailto:francesca.rubulotta@nhs.net)

### REGIONAL AMBASSADORS

Dr Adrian Wong, UK  
Dr Audrey de Jong, France

[avkwong@mac.com](mailto:avkwong@mac.com)  
[a-de\\_jong@chu-montpellier.fr](mailto:a-de_jong@chu-montpellier.fr)

### GUEST AUTHORS

Liesbeth Bosma, Claire Chapuis, Ernesto Deloya-Tomas, Andreas Fischer, Nishma Gadhur, Samir González-Sotelo, Sonja Guntschnig, Nicole Hunfeld, Judith Jacobi, Greg Martin, Cathrine McKenzie, Lourdes Monserrat Méndez-Martínez, Carlos Mendiola-Villalobos, Tania Olga Mondragón-Labelle, Amoreena Most, Brian Murray, Bryan O Farrell, Sinead O'Halloran, Orlando Rubén Pérez-Nieto, Sandeep Rai, Saúl Rayo-Rodríguez, Rafael Alfonso Reyes-Monge, Claudio Ronco, Andrea Sikora, Rhona Sloss, Leonardo Soto-Muñoz, Isabel Spriet, Rob Shulman, Jean-Louis Vincent

### EXECUTIVE DIRECTOR

Christian Marolt

[c@icu-management.org](mailto:c@icu-management.org)

### VP CLIENT SERVICE

Katya Mitreva

[k.m@icu-management.org](mailto:k.m@icu-management.org)

### MANAGING EDITOR

Samna Ghani

[editorial@icu-management.org](mailto:editorial@icu-management.org)

### VP MARCOM

Anastazia Anastasiou

[marcom@icu-management.org](mailto:marcom@icu-management.org)

### COMMUNICATIONS TEAM

Tania Farooq  
Mahjabeen Ahmed

[gdpr@mindbyte.eu](mailto:gdpr@mindbyte.eu)  
[office@mindbyte.eu](mailto:office@mindbyte.eu)

### AUDIO-VISUAL

Andreas Kariofillis

[studio@mindbyte.eu](mailto:studio@mindbyte.eu)

### ICU MANAGEMENT AND PRACTICE IS PUBLISHED BY

MindByte Communications Ltd  
Kosta Ourani, 5 Petoussis Court, 5th floor, CY-3085 Limassol Cyprus  
Email [office@icu-management.org](mailto:office@icu-management.org)  
Website [icu-management.org](http://icu-management.org)

### SUBSCRIPTION RATES

One year 55 Euros + 5% VAT if applicable  
Two years 90 Euros + 5% VAT if applicable  
Note: For a free digital subscription please contact Samna Ghani, [editorial@icu-management.org](mailto:editorial@icu-management.org)

### PRODUCTION, FULFILMENT AND DISTRIBUTION

Total distribution: 21,500  
ISSN = 1377-7564

© ICU Management & Practice is published five times per year. The publisher is to be notified of cancellations six weeks before the end of the subscription. The reproduction of [parts of] articles without consent of the publisher is prohibited. The publisher does not accept liability for unsolicited materials. The publisher retains the right to republish all contributions and submitted material via the Internet and other media.

### LEGAL DISCLAIMER

The Publishers, Editor-in-Chief, Editorial Board, Correspondents and Editors make every effort to see that no inaccurate or misleading data, opinion or statement appears in this publication. All data and opinions appearing in the articles and advertisements herein are the sole responsibility of the contributor or advertiser concerned. Therefore the publishers, Editor-in-Chief, Editorial Board, Correspondents, Editors and their respective employees accept no liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.

### VERIFIED CIRCULATION

according to the standards of International Business Press Audits.

ICU Management & Practice is independently audited by Top Pro CY.



# ICU

MANAGEMENT & PRACTICE

For a full listing of events visit <https://iii.hm/icievents2024>