

## EDITORS-IN-CHIEF

Jin Liu, *West China Hospital of Sichuan University, China*  
Tian-Long Wang, *Xuan Wu Hospital of Capital Medical University, China*

## ASSOCIATE EDITORS-IN-CHIEF

Keith Candiotti, *University of Miami, USA*  
Qu-Lian Guo, *Xiangya Hospital, Central South University, China*  
Li-Ze Xiong, *Xijing Hospital, the Fourth Military Medical University, China*  
Fu-Shan Xue, *Plastic Surgery Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, China*  
Wei-Feng Yu, *Renji Hospital, Shanghai Jiaotong University School of Medicine, China*  
Jun-Ming Zhang, *University of Cincinnati College of Medicine, USA*  
Zhi-Yi Zuo, *University of Virginia, USA*

## MANAGING EDITOR

An-Huai Yu, *JAPM Editorial Office, China*

## EDITORIAL BOARD

Jun-Li Cao, *Xuzhou Medical College, China*  
Guo Chen, *West China Hospital of Sichuan University, China*  
Xiang-Dong Chen, *Union Hospital of Tongji Medical College, Huazhong University of Science and Technology, China*  
Chan Chen, *West China Hospital of Sichuan University, China*  
Hai-Chen Chu, *the Affiliated Hospital, Qingdao University, China*  
Xiao-Ming Deng, *Changhai Hospital, the Second Military Medical University, China*  
Hai-Long Dong, *Xijing Hospital, the Fourth Military Medical University, China*  
Xiang-Ming Fang, *Zhejiang University, China*  
Adrian W Gelb, *University of California San Francisco, USA*  
Zheng Guo, *Shanxi Medical University, China*  
Zi-Qing Hei, *the Third Affiliated Hospital of Sun Yat-sen University, China*  
Philip Hess, *Beth Israel Deaconess Medical Center, USA*  
Jeffrey Huang, *Anesthesiologists of Greater Orlando, USA*  
Chang-Sheng Huang, *Xiangya Hospital of Central South University, China*  
Jia-Peng Huang, *University of Louisville, Jewish Hospital, USA*  
Michael G. Irwin, *the University of Hong Kong, Hongkong, China*  
Bo-Wen Ke, *West China Hospital of Sichuan University, China*  
Chingmuh Lee, *University of California, USA*  
Yun-Ping Li, *Beth Israel Deaconess Medical Center, USA*  
Wen-Zhi Li, *the Second Affiliated Hospital of Harbin Medical University, China*  
Henry Liu, *Drexel University College of Medicine, USA*  
Hong Liu, *University of California Davis Health, USA*  
Ke-Xuan Liu, *Nanfang Hospital, Southern Medical University, China*  
Kai-Zhi Lu, *Southwest Hospital, the Third Military Medical University, China*  
Jie Luo, *the First Affiliated Hospital of Chongqing Medical University, China*  
Carl Lynch III, *University of Virginia Health System, USA*  
Hong Ma, *the First Hospital of China Medical University, China*  
Jun Ma, *Beijing Anzhen Hospital, Capital Medical University, China*  
Zheng-Liang Ma, *Drum Tower Hospital, Nanjing University, China*  
Daqing Ma, *Imperial College London, United Kingdom*  
Wei Mei, *Tongji Hospital, Huazhong University of Science and Technology, China*  
Wei-Dong Mi, *Chinese PLA General Hospital, China*  
Chang-Hong Miao, *Fudan University Shanghai Cancer Center, China*  
Su Min, *the First Affiliated Hospital of Chongqing Medical University, China*  
Dong-Liang Mu, *Peking University First Hospital, China*  
Yang-Wen Ou, *the Third Xiangya Hospital, Central South University, China*  
Xavier Paqueron, *Clinical Centre in Angoulême, France*  
Paolo Pelosi, *University of Genova, Italy*  
Li-Hua Peng, *the First Affiliated Hospital of Chongqing Medical University, China*  
Donald S. Prough, *University of Texas Medical Branch, USA*  
Jacob Raphael, *University of Virginia Health System, USA*  
Norbert Roewer, *University Hospital of Wuerzburg, Germany*  
Xiao-Feng Shen, *Nanjing Maternity and Child Health Care Hospital, China*  
Xue-Yin Shi, *Xinhua Hospital, Shanghai Jiaotong University, China*  
Jian-Zhong Sun, *Thomas Jefferson University, USA*  
Christer H Svensen, *Karolinska Institutet, Sweden*  
Wei-Ke Tao, *University of Texas Southwestern Medical Center, USA*  
Niccolò Terrando, *Duke University, USA*  
Hong Wang, *West Virginia University, USA*  
Ru-Rong Wang, *West China Hospital of Sichuan University, China*  
Dong-Xin Wang, *Peking University First Hospital, China*  
Guo-Lin Wang, *Tianjin Medical University General Hospital, China*  
Ting-Hua Wang, *Sichuan University, China*  
Yun Wang, *Beijing Chaoyang Hospital, Capital Medical University, China*  
Qiang Wang, *the First Affiliated Hospital of Xi'an Jiaotong University, China*  
Ling Wei, *Emory University School of Medicine, USA*  
Robert Whittington, *Columbia University, USA*  
David T. Wong, *Toronto Western Hospital, University of Toronto, Canada*  
Zhong-Yuan Xia, *Remmin Hospital of Wuban University, China*  
Hong-Bing Xiang, *Tongji Hospital, Huazhong University of Science and Technology, China*  
Wei Xiao, *Xuan Wu Hospital of Capital Medical University, China*  
Zhong-Cong Xie, *Massachusetts General Hospital and Harvard Medical School, USA*  
Min Yan, *the Second Affiliated Hospital, Zhejiang University, China*  
Jian-Jun Yang, *Zhongda Hospital, Southeast University, China*  
Huang-Ping Yu, *Chang Gung Memorial Hospital, Taiwan, China*  
Zhang-Sheng Yu, *Indiana University School of Medicine, USA*  
Yun Yue, *Beijing Chaoyang Hospital, Capital Medical University, China*  
Ye Zhang, *the Second Affiliated Hospital, Anhui Medical University, China*  
Jing Zhao, *Peking Union Medical College Hospital, China*  
Hong Zheng, *the First Affiliated Hospital, Xinjiang Medical University, China*  
Cheng Zhou, *West China Hospital of Sichuan University, China*  
Wang-Yuan Zou, *Xiangya Hospital, Central South University, China*

## PUBLISHER

Evidence Based Communications (EBC), Hong Kong, China

# CONTENTS

JOURNAL of ANESTHESIA and PERIOPERATIVE MEDICINE

## Original Articles

### 169 Blood Conservation Using Tranexamic Acid versus Epsilon Aminocaproic Acid in Cardiac Surgery: A Randomized Controlled Trial

Jason Gatling, Davinder Ramsingh, Justin Horricks, Ryan Lauer, Stanley Brauer, Johnthan Debooy, Carin Mascetti, and Richard Applegate

### 176 Combined Rifampin and Sulbactam Therapy for Multidrug-Resistant *Acinetobacter Baumannii* Ventilator-Associated Pneumonia in Pediatric Patients

Jinlan Chen, Yifeng Yang, Kun Xiang, David Li, and Hong Liu

## Review Articles

### 186 Heart Failure: Mechanisms, Treatment, and Anesthesia Management

Xianfeng Ren, and Wei Dong Gao

### 200 Evolving Concepts in the Perioperative Management of Acute Stanford Type-A Aortic Dissection

Alexander J. Gregory, Jehangir J. Appoo, Natalia Acero-Martinez, Eric J. Herget, and Albert T. Cheung

### 215 Transcatheter Aortic Valve Implantation: Complications and Anesthetic Management

Gang Zhang, Jun Luo, Xiaoyan Huang, and Guo Chen

### 221 Non-Invasive Cardiac Output Measurement: Where Are We Now?

Mingqiang Li, Longqiu Yang, Liwen Zhou, Jasmine Liu, Srikant Patel, and Henry Liu

## Opinion

### 228 How Do Anesthesiologists Add Value to the Transcatheter Aortic Valve Replacement Program?

Jiapeng Huang