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EDITORIAL
Educational Papers

Acute cardiovascular and intensive care chronicles: crossing new frontiers in advanced cardiovascular therapeutics

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Welcome to the June 2024 edition of the *European Heart Journal Acute Cardiovascular Care*, in which we delve into groundbreaking research and insights driving progress in acute cardiovascular and intensive care medicine.

In this issue, we focus on critical topics that have recently captured the attention of the general cardiology community. We highlight with the results from the FlowTriever for Acute Massive Pulmonary Embolism (FLAME) trial (1) and two landmark trials evaluating mechanical circulatory support (MCS) for cardiogenic shock following myocardial infarction: the Extracorporeal Life Support in Cardiogenic Shock (ECLS-SHOCK) trial (2), and the recently published landmark Danish German (DanGer) Cardiogenic Shock trial (3), heralding a new era in MCS. Additionally, Delnoij *et al.*[1] present intriguing findings from the INCEPTION study, conducting a cost-effectiveness analysis comparing hospital-based extracorporeal cardiopulmonary resuscitation (ECPR) to conventional CPR for refractory out-of-hospital cardiac arrest, providing essential insights into the economics of this emerging strategy being contemplated for more widespread development of new programmes.

Van Edom *et al.*[2] shed light on European practices in antithrombotic management during percutaneous MCS in adults, revealing significant variability and opportunity for the implementation of standardized protocols. Meanwhile, Hu *et al.*[3] introduce CShock, a dynamic risk score utilizing deep learning techniques to predict cardiogenic shock onset, offering early intervention opportunities.

Yuriditsky *et al.*[4] uncover insights into the relationship between the CO_2 gap and cardiac index in acute pulmonary embolism, while Konstantinides *et al.*[5] explore the potential economic impact of an expanding use of catheter-directed treatment for acute pulmonary embolism in European healthcare systems.

Finally, we hope that our readers may adopt tips for managing frailty in the Cardiac Intensive Care Unit with Moumneh *et al.*'s[6] educational paper. Moumneh *et al.* shed light on the bidirectional relationship between frailty and cardiovascular disease, offering invaluable insights into identifying and managing frail patients in the CICU.

Embark on a journey through the latest research and insights shaping acute cardiovascular care in this month's edition of the *European Heart Journal Acute Cardiovascular Care*. Explore groundbreaking studies, unlock transformative insights, and revolutionize your approach to patient care.

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