



JOURNEE DES FILIERES « ARRET CARDIAQUE » et « COEUR »

4 rue René Charre – 42800 Saint-Martin-la-Plaine
11 décembre 2025

Arrêt cardiaque : Prise en charge post RACS immédiat





Intensive Care Unit – Cochin University Hospital (AP-HP)
Paris Cité University (medical school) – INSERM U970 (France)







COI disclosure

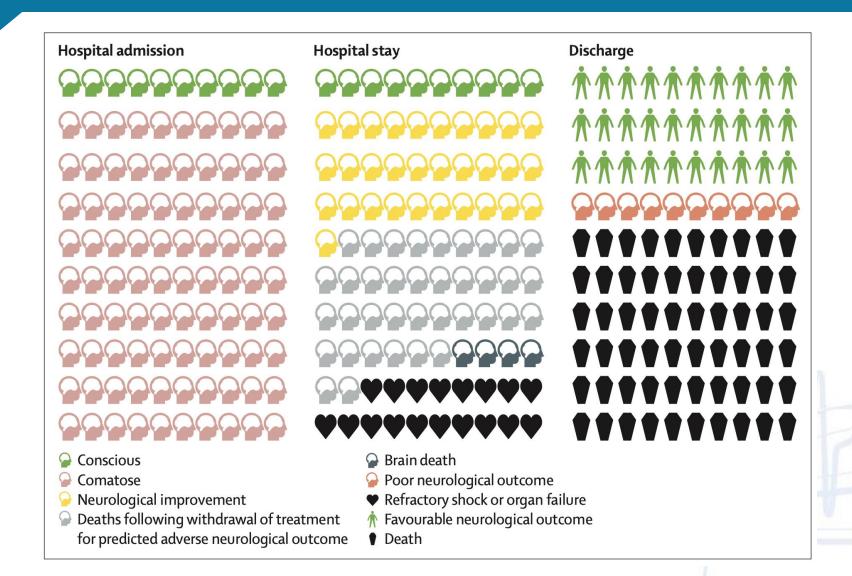
ORIXHA: Member of the scientific committee



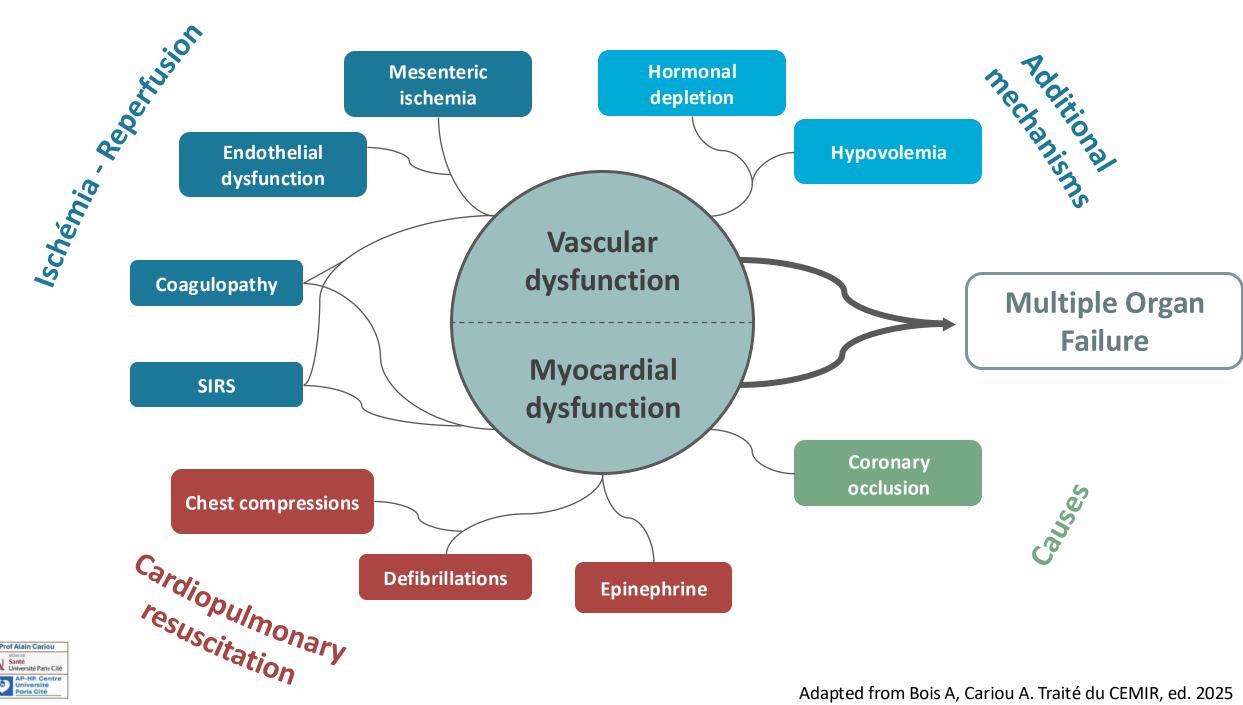


Outcomes following admission for out-of-hospital cardiac arrests

Perkins GD, et al. Lancet 2021

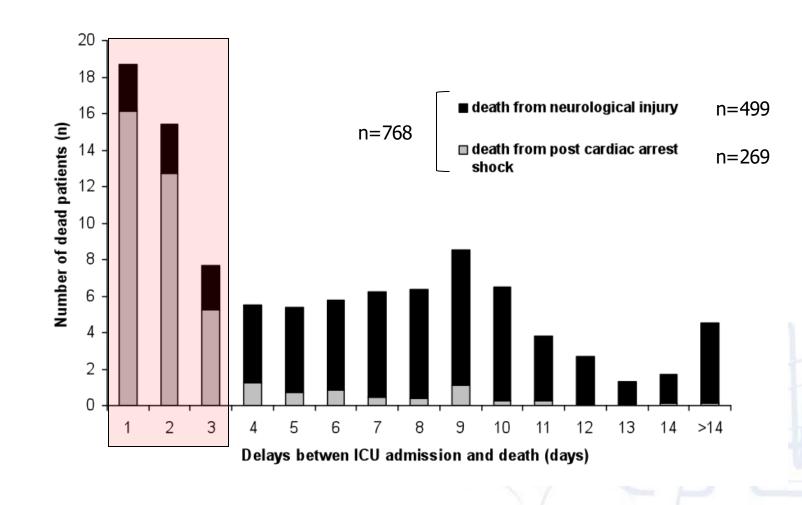






ICU mortality after cardiac arrest: the relative contribution of shock and brain injury

Lemiale V, Dumas F, Mongardon N, Giovanetti O, Charpentier J, Chiche JD, Carli P, Mira JP, Nolan J, Cariou A Intensive Care Med 2013





EUROPEAN RESUSCITATION COUNC



Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025



https://doi.org/10.1007/s00134-025-08117-3

CONFERENCE REPORTS AND EXPERT PANEL

European Resuscitation Council and European Society of Intensive Care Medicine guidelines 2025: post-resuscitation

Jerry P. Nolan^{1,2}, Claudio Sandroni^{3,4}* a, Alain Cariou⁵, Tobias Cronberg⁶, Sonia D'Arrigo^{3,4}, Kirstie Haywood⁷, Astrid Hoedemaekers⁸, Gisela Lilja^{9,10}, Nikolaos Nikolaou¹¹, Theresa Mariero Olasveengen¹², Chiara Robba¹³, Markus B. Skrifvars¹⁴, Paul Swindell¹⁵ and Jasmeet Soar¹

The European Resuscitation Council (ERC) and the European Society of Intensive Care Medicine (ESICM) have collaborated to produce these post-resuscitation care guidelines for adults, which are based on the International Consensus on Cardiopulmonary Resuscitation Science with Treatment Recommendations (CoSTR) published by the International Liaison Committee on Resuscitation (ILCOR). The topics covered include the post-cardiac arrest syndrome, diagnosis of cause of cardiac arrest, control of oxygenation and ventilation, coronary reperfusion, haemodynamic monitoring and management, control of seizures, temperature control, general intensive care management, prognostication, long-term outcome, rehabilitation, and organ donation. The post-resuscitation care of children is described in the ERC guidelines 2025 Paediatric Life Support

Keywords: Post-cardiac arrest syndrome, Cardiac arrest, Acute coronary syndrome, Coma, Temperature, Prognosis, Rehabilitation, Tissue and organ procurement

Introduction and scope

In 2015, the European Resuscitation Council (ERC) and the European Society of Intensive Care Medicine post-resuscitation care guidelines, which were co-pub-These 2025 guidelines represent the third collaboration term outcome and rehabilitation.

Department of Intensive Care, Emergency Medicine and Anaesthesiology. Fondazione Policlinico Universitario A. Gemell Full author information is available at the end of the article

Jerry P. Nolan and Claudio Sandroni Joint first authors.

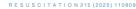
This paper has been copublished in Resuscitation: https://doi.org/10.

between the ERC and ESICM and reflect the science published since the previous guidelines were issued In 2021 [3, 4]. The topics covered include the post-cardiac (ESICM) collaborated to produce their first combined arrest syndrome, control of oxygenation and ventilation, haemodynamic targets, coronary reperfusion, temperalished in Resuscitation and Intensive Care Medicine [1, 2]. ture control, control of seizures, prognostication, long-

The international consensus on cardiopulmonary resuscitation science evidence review process

The International Liaison Committee on Resuscita tion (ILCOR, www.ilcor.org) includes representatives from the American Heart Association (AHA), the European Resuscitation Council (ERC), the Heart and Stroke Foundation of Canada (HSFC), the Australian and New





Available online at ScienceDirect

Resuscitation

journal homepage: www.elsevier.com/locate/resuscitation



Practice Guideline

European Resuscitation Council and European Society of Intensive Care Medicine Guidelines 2025 Post-Resuscitation Care *

Jerry P. Nolan a,b,#,*, Claudio Sandroni c,d,#, Alain Cariou , Tobias Cronberg , Sonia D'Arrigo b,c, Kirstie Havwood g, Astrid Hoedemaekers b, Gisela Lilia l, Nikolaos Nikolaou^k, Theresa Mariero Olasveengen^l, Chiara Robba^m, Markus B. Skrifvarsⁿ, Paul Swindell^o, Jasmeet Soar^p

The European Resuscitation Council (ERC) and the European Society of Intensive Care Medicine (ESICM) have collaborated to produce these postresuscitation care guidelines for adults, which are based on the International Consensus on Cardiopulmonary Resuscitation Science with Treatment Recommendations (CoSTR) published by the International Liaison Committee on Resuscitation (ILCOR). The topics covered include the postcardiac arrest syndrome, diagnosis of cause of cardiac arrest, control of oxygenation and ventilation, coronary reperfusion, haemodynamic monitor ing and management, control of seizures, temperature control, general intensive care management, prognostication, long-term outcome, rehabilitation, and organ donation. The post-resuscitation care of children is described in the FRC Guidelines 2025 Paediatric Life Support. Keywords: Post-cardiac arrest syndrome, Cardiac arrest, Acute coronary syndrome, Coma, Temperature, Prognosis, Rehabilitation

Abbreviations: ACNS, American Clinical Neurophysiology Society, ACS, Acute coronary syndrome, ADC, Apparent diffusion coefficient, AF Atrial fibrillation, AHA, American Heart Association, AKI, Acute kidney injury, ALS, Advanced Life Support, AMI, Acute myocardial infarction, ARDS, Acute respiratory distress syndrome, ATP, Adenosine triphosphate, BIS, Bi-spectral index, BOX, Blood Pressure and Oxygenation Targets after OHCA, BS, Burst suppression, CAC, Cardiac arrest centre, CAD, obstructive coronary artery disease, CAG, Coronary angiography, CBF, Cerebral blood flow, COSCA, Core Outcome Set for Cardiac Arrest, CoSTR, Consensus on Cardiopulmonary Resuscitation Science with Treatment Recommendations, CPC, Cerebral Performance Category, CPR, Cardiopulmonary resuscitation, CR, Corneal reflex, CT, Computed tomography, DBD. Organ donation after brain death, DCD, Donation after Circulatory Determination of Death, DVT, Deep venous thrombosis, DWI, Diffusion weighted imaging, ECG, Electrocardiogram, ECPR, Extracorporeal cardiopulmonary resuscitation, EEG, Electrocardiogram, FPR, False positive rate, FSS, Fatigue Severity Scale, GFAP, Glial fibrillary acidic protein, GRADE, Grading of Recommendations Assessment, Developmen and Evaluation, GWR, Grey white matter ratio, HADS, Hospital Anxiety and Depression Scale, HIBI, Hypoxic ischaemic brain injury, ICD, Implantable cardioverter defibrillator, ICP, Intracranial pressure, ICU, Intensive care unit, ILCOR, International Liaison Committee on Resuscitation LBBB, Left bundle branch block, LMWH, Low molecular weight heparin, MAP, Mean arterial pressure, MCS, Mechanical circulatory support, MRI, Magnetic resonance imaging, NSE, Neuron specific enolase, OHCA, Out-of-hospital cardiac arrest, PCAS, Post-cardiac arrest syndrome, PCI, Percutaneous coronary intervention, PLR, Pupillary light reflex, PPCI, Primary percutaneous coronary intervention, RASS, Richmond Agitation Sedation Scale, ROC, Receiver operating characteristic, ROSC, Return of spontaneous circulation, SBP, Systolic blood pressure, SCA, Sudden cardiac arrest, SCD, Sudden cardiac death, SGA, Supraglottic airway, SSEP, Somatosensory evoked potential, STEMI, ST elevation myocardial infarction, TBI, Traumatic brain injury, TCD, Transcranial Doppler, VF, Ventricular fibrillation, VT, Ventricular tachycardia, WLST, Withdrawal of lifesustaining treatment

- → This naner has been conublished in Intensive Care Medicine
- Corresponding author.

ttps://doi.org/10.1016/j.resuscitation.2025.110809 0300-9572/© 2025 European Resuscitation Council. Published by Elsevier B.V.





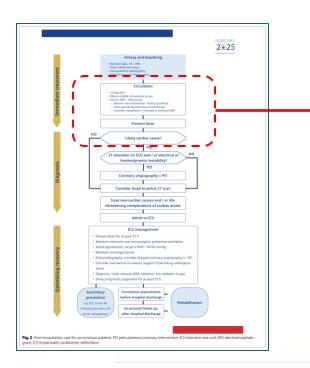
Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025

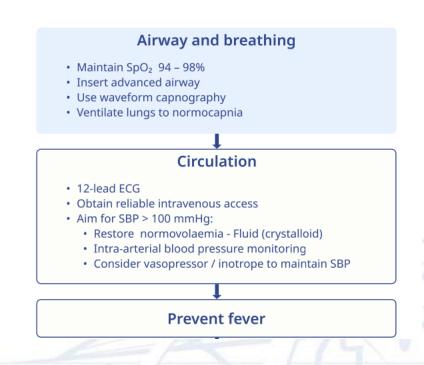
Immediate post-resuscitation care

Post-resuscitation care is started immediately after sustained return of spontaneous circulation (ROSC), regardless of location











JAMA | Original Investigation

Effect of Bag-Mask Ventilation vs Endotracheal Intubation During Cardiopulmonary Resuscitation on Neurological Outcome After Out-of-Hospital Cardiorespiratory Arrest A Randomized Clinical Trial

JAMA. 2018;319(8):779-787. doi:10.1001/jama.2018.0156

Patricia Jabre, MD, PhD; Andrea Penaloza, MD, PhD; David Pinero, MD; Francois-Xavier Duchateau, MD; Stephen W. Borron, MD, MS; Francois Javaudin, MD; Olivier Richard, MD; Diane de Longueville, MD; Guillem Bouilleau, MD; Marie-Laure Devaud, MD; Matthieu Heidet, MD, MPH; Caroline Lejeune, MD; Sophie Fauroux, MD; Jean-Luc Greingor, MD; Alessandro Manara, MD; Jean-Christophe Hubert, MD; Bertrand Guihard, MD; Olivier Vermylen, MD; Pascale Lievens, MD; Yannick Auffret, MD; Celine Maisondieu, MD; Stephanie Huet, MD; Benoît Claessens, MD; Frederic Lapostolle, MD, PhD; Nicolas Javaud, MD, PhD; Paul-Georges Reuter, MD, MS; Elinor Baker, MD; Eric Vicaut, MD, PhD; Frédéric Adnet, MD, PhD

| | No. of Patients (| %) | Proportion Difference, BMV(%) - ETI(%) | | |
|-----------------------------------|-------------------|-----------------|--|----------------------|--|
| Outcome | BMV Group | ETI Group | (95% CI) | P Value ^a | |
| Intention-to-Treat Population | n = 1018 | n = 1022 | | | |
| Survival at 28 d | 55 (5.4) | 54 (5.3) | 0.1 (-1.8 to 2.1) | .90 | |
| CPCs ^b | | | | | |
| 1, Good cerebral performance | 35 (3.4) | 37 (3.6) | | | |
| 2, Moderate cerebral disability | 9 (0.9) | 6 (0.6) | | | |
| 3, Severe cerebral disability | 4 (0.4) | 7 (0.7) | | .68 | |
| 4, Coma or vegetative state | 7 (0.7) | 7 (0.7) 4 (0.4) | | | |
| 5, Death | 963 (94.6) | 968 (94.7) | | | |
| Survival to hospital admission | 294 (28.9) | 333 (32.6) | -3.7 (-7.7 to 0.3) | .07 | |
| Return of spontaneous circulation | 348 (34.2) | 397 (38.9) | -4.7 (-8.8 to -0.5) | .03 | |
| Per-Protocol Analysis | n = 995 | n = 943 | | | |
| Survival at 28 d | 54 (5.4) | 51 (5.4) | 0.1 (-10 to 9.7) | .99 | |
| CPCs ^b | | | | | |
| 1, Good cerebral performance | 35 (3.5) | 34 (3.5) | | | |
| 2, Moderate cerebral disability | 8 (0.8) | 6 (0.6) | | | |
| 3, Severe cerebral disability | 4 (0.4) | 7 (0.7) | | .76 | |
| 4, Coma or vegetative state | 7 (0.7) | 4 (0.4) | | | |
| 5, Death | 941 (94.6) | 892 (94.6) | | | |
| Survival to hospital admission | 289 (29.1) | 312 (33.1) | -4.0 (-7.6 to 0.6) | .055 | |
| Return of spontaneous circulation | 342 (34.4) | 377 (30.0) | -5.6 (-9.9 to -1.3) | .01 | |



Université Paris Cité JAMA | Original Investigation

Effect of a Strategy of a Supraglottic Airway Device vs Tracheal Intubation During Out-of-Hospital Cardiac Arrest on Functional Outcome JAMA. 2018;320(8):779-791. doi:10.1001/jama.2018.11597

The AIRWAYS-2 Randomized Clinical Trial

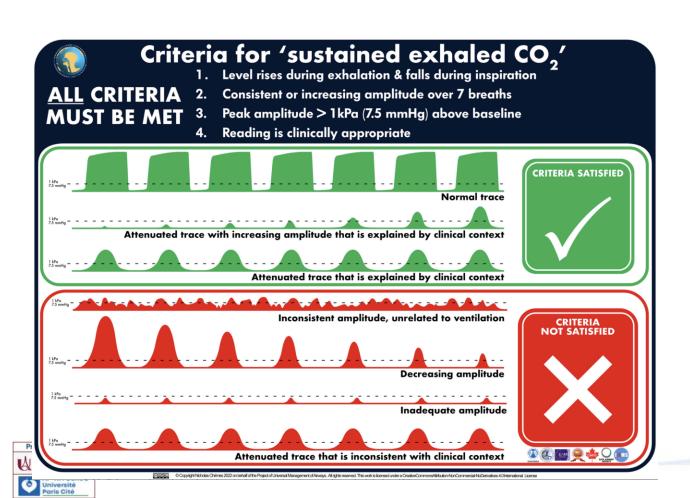
Jonathan R. Benger, MD; Kim Kirby, MRes; Sarah Black, DClinRes; Stephen J. Brett, MD; Madeleine Clout, BSc; Michelle J. Lazaroo, MSc; Jerry P. Nolan, MBChB; Barnaby C. Reeves, DPhil; Maria Robinson, MOst; Lauren J. Scott, MSc; Helena Smartt, PhD; Adrian South, BSc (Hons); Elizabeth A. Stokes, DPhil; Jodi Taylor, PhD; Matthew Thomas, MBChB; Sarah Voss, PhD; Sarah Wordsworth, PhD; Chris A. Rogers, PhD

| | No. of Patients/Total No | . (%) a |
|---|-----------------------------------|---|
| | Tracheal Intubation (n = 4410) | Supraglottic Airway Device (n = 4886) |
| Primary Outcome: Modified Rankin Scale Score at | Hospital Discharge or 30 d | |
| 0-3 range (good outcome) | 300/4407 (6.8) | 311/4882 (6.4) |
| 0 (no symptoms) | 124/4407 (2.8) | 117/4882 (2.4) |
| 1 | 48/4407 (1.1) | 41/4882 (0.8) |
| 2 | 50/4407 (1.1) | 58/4882 (1.2) |
| 3 | 78/4407 (1.8) | 95/4882 (1.9) |
| 4-6 range (poor outcome to death) | 4107/4407 (93.2) | 4571/4882 (93.6) |
| 4 | 46/4407 (1.0) | 45/4882 (0.9) |
| 5 | 27/4407 (0.6) | 39/4882 (0.8) |
| 6 (died) | 4034/4407 (91.5) | 4487/4882 (91.9) |

| | No. of Patients/Total No.a | | | Favors Favors | |
|---|----------------------------|-------------------------------|---------------------------------|--|------------------|
| | Tracheal Intubation | Supraglottic Airway Device | Adjusted Odds Ratio (95% CI) | Tracheal Supraglottic Intubation Airway Device | P Value |
| Primary analysis for modified Rankin Scale score ^b | 300/4407 | 311/4882 | 0.92 (0.77-1.09) | | .33 |
| Subgroup analysis | | | | | |
| Utstein comparator ^c | 154/697 | 177/764 | 1.04 (0.80-1.35) | | .24 ^d |
| Utstein noncomparator ^c | 130/3658 | 123/4067 | 0.84 (0.65-1.09) | | .244 |
| Out-of-hospital cardiac arrest witnessed by paramedice | 87/556 | 76/607 | 0.78 (0.55-1.09) | | .24 ^d |
| Out-of-hospital cardiac arrest not witnessed by paramedice | 212/3848 | 235/4271 | 0.98 (0.80-1.20) | _ | .24 |
| Sensitivity analysis for primary outcome ^f | 300/10741 | 311/11462 | 0.96 (0.81-1.14) | | .63 |
| | | | | | |
| | | | | 0.5 1.0 2. Odds Ratio (95% CI) | 0 |

Preventing unrecognised oesophageal intubation: a consensus guideline from the Project for Universal Management of Airways and international airway societies

Chrimes N et al. Anaesthesia 2022



- While the CO2 level may be attenuated in a patient in cardiac arrest receiving chest compressions, a level below 1 kPa (7.5 mmHg) would generally reflect either an incorrectly placed tube or a very high likelihood of a poor outcome from resuscitation.
- In the presence of high-quality chest compressions, cardiac arrest cannot be assumed to be the cause of inability to satisfy the criteria for sustained exhaled carbon dioxide, and certainly does not explain a 'flat trace'. This should prompt exclusion of oesophageal intubation as its cause



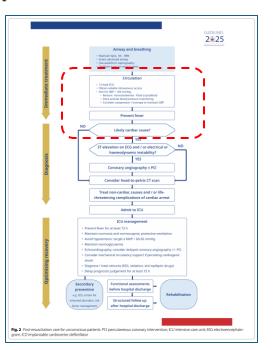
Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J.

Intensive Care Med 2025 – Resuscitation 2025

Immediate post-resuscitation care







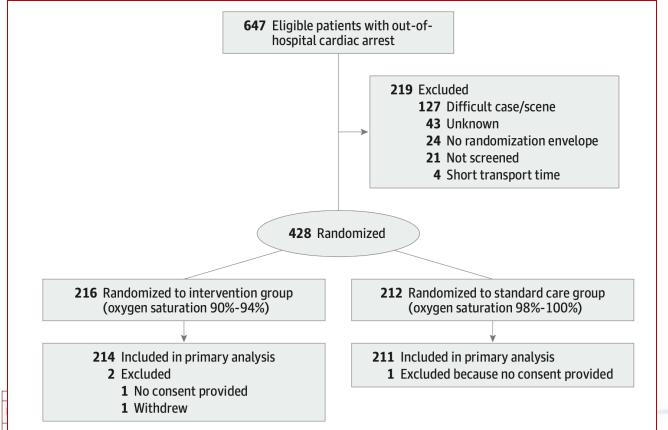
Airway management after ROSC

- Patients who remain comatose following ROSC, or who have another clinical indication for sedation and mechanical ventilation, should have their trachea intubated if this has not been done already during CPR.
- Tracheal intubation (with or without drugs) should be performed only by experienced operators who have a high success rate.
- Correct placement of the tracheal tube must be confirmed with waveform capnography.
- Post ROSC patients may require drug assisted tracheal intubation the same level of care should be provided as for any other critically ill patient with a physiologically or anatomically challenging airway in terms of skills of the provider, monitoring, and choice of drugs for induction, and maintenance of sedation



Effect of Lower vs Higher Oxygen Saturation Targets on Survival to Hospital Discharge Among Patients Resuscitated After Out-of-Hospital Cardiac Arrest The EXACT Randomized Clinical Trial

Stephen A. Bernard, MD; Janet E. Bray, PhD; Karen Smith, PhD; Michael Stephenson, BHlthSci; Judith Finn, PhD; Hugh Grantham, MBBS; Cindy Hein, PhD; Stacey Masters, PhD; Dion Stub, PhD; Gavin D. Perkins, MD; Natasha Dodge, MPH; Catherine Martin, PhD; Sarah Hopkins, MBBS; Peter Cameron, PhD; for the EXACT Investigators







| | | | - | | |
|--|---|--|-------------------------------------|------------------------|----------------------|
| | No. (%) | | | | |
| Outcome | Target Spo ₂ 90%-94% (n = 214) | Target Spo ₂ 98%-100% (n = 211) | Difference (95% CI) ^a | Odds ratio (95% CI) | P value ^b |
| Primary | | | | | |
| Survival to hospital discharge | 82 (38.3) | 101 (47.9) | -9.6 (-18.9 to -0.2) | 0.68 (0.46 to 1.00) | .05 |
| Secondary | | | | | |
| Rearrest | | | | | |
| Pre-ICU ^c | 27 (12.7) [n = 213] | 21 (10.0) [n = 209] | 2.6 (-3.4 to 8.7) | 1.30 (0.71 to 2.38) | .40 |
| Prehospital | 7 (3.3) | 3 (1.4) | 1.8 (-1.0 to 4.7) | | |
| ED | 26 (12.2) [n = 213] | 20 (9.5) [n = 210] | 2.7 (-3.2 to 8.6) | | |
| Hypoxia (any Spo ₂ <90%) prior to ICU | 67 (31.3) | 34 (16.1) | 15.2 (7.2 to 23.1) | 2.37 (1.49 to 3.79) | <.001 |
| Peak troponin, median (IQR) | n = 193 | n = 198 | | | |
| Troponin T | 581 (134 to 2363) | 557 (179 to 2234) | 24 (-405 to 453) | | .91 |
| Troponin I | 1838 (316 to 8578) | 1550 (270 to 6710) | 288 (-756 to 1332) | | .59 |
| Survival to ICU discharge | 96/192 (50.0) | 106/197 (53.8) | -3.8 (-13.7 to 6.1) | 0.86 (0.58 to 1.28) | .45 |
| ICU length of stay, median (IQR), d | | | | | |
| Survivors | 4.0 (2.0 to 6.0) [n = 96] | 4.0 (2.0 to 6.0) [n = 105] | 0.0 (-1.2 to 1.2) | | >.99 |
| Deaths | 3.0 (1.0 to 5.5) [n = 96] | 4.0 (1.0 to 7.0) [n = 91] | -1.0 (-2.8 to 0.8) | | .27 |
| Hospital length of stay, median (IQR), d | | | | | |
| Survivors | 11.0 (7.0 to 17.0) [n = 82] | 11.0 (7.0 to 16.0) [n = 101] | 0.0 (-2.8 to 2.8) | | >.99 |
| Nonsurvivors | 3.0 (1.0 to 6.0) [n = 132] | 4.0 (1.0 to 7.0) [n = 109] | -1.0 (-2.4 to 0.4) | | .16 |

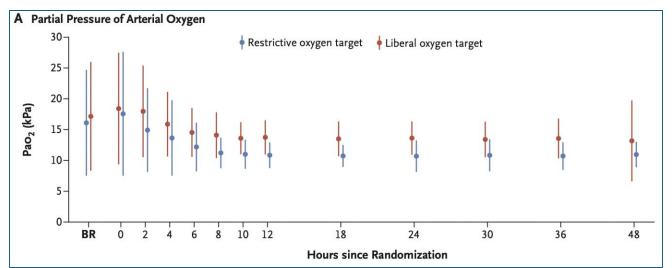


ORIGINAL ARTICLE

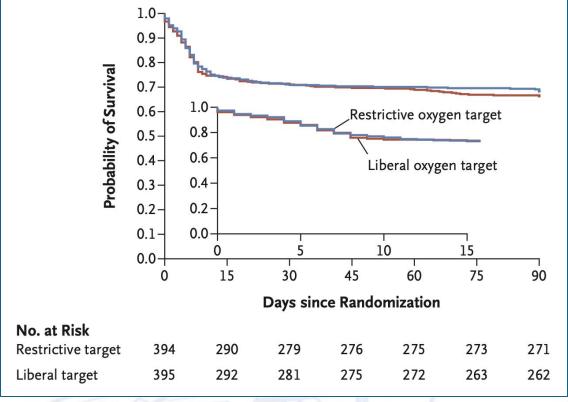
Schmidt et al. NEJM 2022

Oxygen Targets in Comatose Survivors of Cardiac Arrest

Oxygenation during the First 48 Hours



BOX Trial

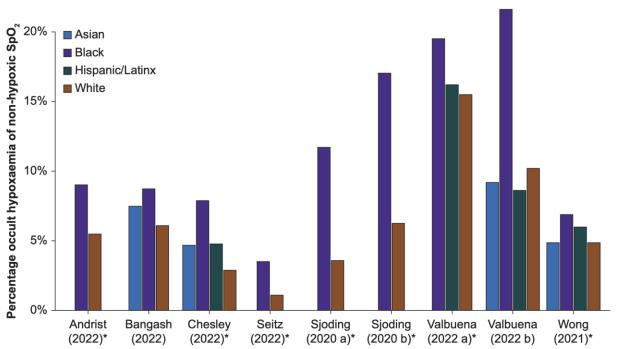




Effect of skin tone on the accuracy of the estimation of arterial oxygen saturation by pulse oximetry: a systematic review

Martin D et al. Br J Anaesthesia 2024

Frequency of occult hypoxaemia in paired SpO2-SaO2 measurements



- The majority of studies reported overestimation of SaO2 by pulse oximetry in participants with darker skin tones or from ethnicities assumed to have darker skin tones.
- Pulse oximetry can overestimate true SaO2 in people with darker skin tones.



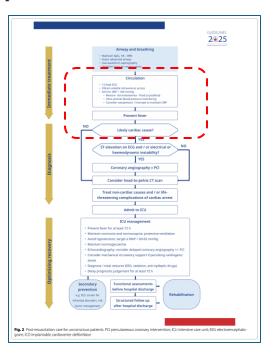


Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025

Immediate post-resuscitation care







Control of oxygenation

- Immediately after ROSC, use 100% (or the maximum available) inspired oxygen until the arterial oxygen saturation (SpO2) can be measured and titrated reliably with pulse oximetry or the partial pressure of arterial oxygen (PaO2) can be measured.
- As soon as SpO2 can be measured reliably or arterial blood gas values are obtained, titrate the inspired oxygen to achieve an arterial oxygen saturation of 94-98% or arterial partial pressure of oxygen (PaO2) of 10–13 kPa (75–100 mmHg). Be aware that pulse oximetry can overestimate the true oxygen saturation in people with darker skin tones, and low-flow states will cause low signal quality.
- Avoid both hypoxaemia (PaO2<8 kPa or 60 mmHg) and hyperoxaemia following ROSC.

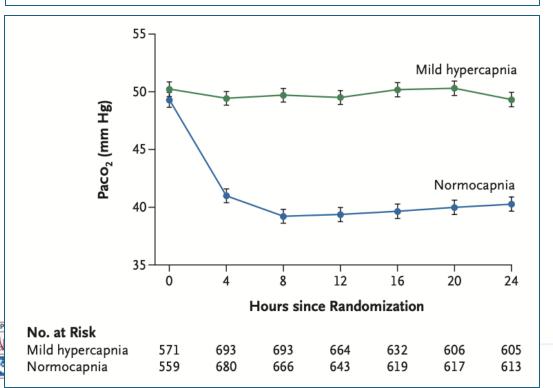


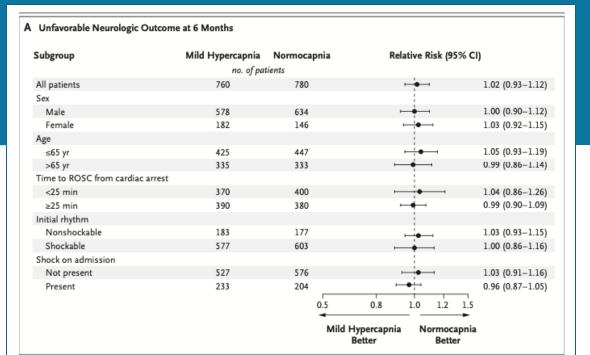
ORIGINAL ARTICLE

NEJM 2023

Mild Hypercapnia or Normocapnia after Out-of-Hospital Cardiac Arrest

G. Eastwood, A.D. Nichol, C. Hodgson, R.L. Parke, S. McGuinness, N. Nielsen, S. Bernard, M.B. Skrifvars, D. Stub, F.S. Taccone, J. Archer, D. Kutsogiannis, J. Dankiewicz, G. Lilja, T. Cronberg, H. Kirkegaard, G. Capellier, G. Landoni, J. Horn, T. Olasveengen, Y. Arabi, Y.W. Chia, A. Markota, M. Hænggi, M.P. Wise, A.M. Grejs, S. Christensen, H. Munk-Andersen, A. Granfeldt, G.Ø. Andersen, E. Qvigstad, A. Flaa, M. Thomas, K. Sweet, J. Bewley, M. Bäcklund, M. Tiainen, M. Iten, A. Levis, L. Peck, J. Walsham, A. Deane, A. Ghosh, F. Annoni, Y. Chen, D. Knight, E. Lesona, H. Tlayjeh, F. Svenšek, P.J. McGuigan, J. Cole, D. Pogson, M.P. Hilty, J.P. Düring, M.J. Bailey, E. Paul, B. Ady, K. Ainscough, A. Hunt, S. Monahan, T. Trapani, C. Fahey, and R. Bellomo, for the TAME Study Investigators*





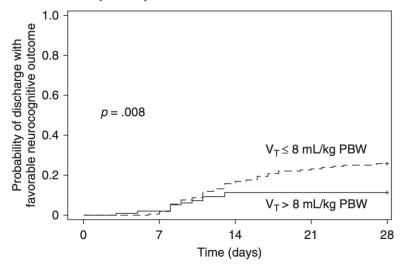
| Subgroup | Mild Hypercapnia | Normocapnia | Relative Risk (95% | CI) |
|----------------------------------|------------------|-------------|----------------------|------------------|
| | no. of pa | tients | | |
| All patients | 812 | 828 | ⊢ • | 1.05 (0.95-1.16) |
| Sex | | | | |
| Male | 620 | 672 | - | 1.02 (0.91-1.14) |
| Female | 192 | 156 | ⊢ | 1.07 (0.93-1.24) |
| Age | | | | |
| ≤65 yr | 463 | 480 | - | 1.10 (0.95-1.27) |
| >65 yr | 349 | 348 | ⊢ | 1.00 (0.90-1.11) |
| Time to ROSC from cardiac arrest | | | | |
| <25 min | 402 | 428 | ⊢ | 1.12 (0.91-1.39) |
| ≥25 min | 410 | 400 | | 0.99 (0.89-1.11) |
| Initial rhythm | | | | |
| Nonshockable | 195 | 181 | - | 1.03 (0.93-1.14) |
| Shockable | 617 | 647 | ─ | 1.03 (0.87-1.22) |
| Shock on admission | | | | |
| Not present | 570 | 617 | - | 1.09 (0.96-1.23) |
| Present | 242 | 0.5 | 0.8 1.0 1.2 1 | 0.93 (0.84–1.03) |
| | | Mild Hy | percapnia Normocapni | a |

Favorable Neurocognitive Outcome with Low Tidal Volume Ventilation after Cardiac Arrest

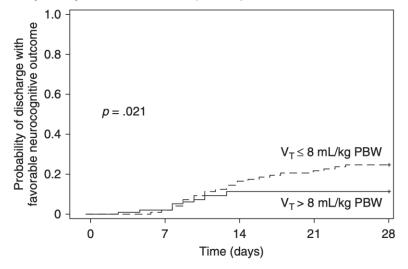
Beitler JR et al. AJRCCM 2017

Probability of discharge with favorable neurocognitive outcome through Day 28

Entire cohort (n=256)



Propensity matched cohort (n=194)



Prof Alain Cariou MODICANE Santé Université Paris Cité Poris Cité

At a Glance Commentary

Scientific Knowledge on the Subject: Patients suffering cardiac arrest have several risk factors for lung injury and often experience poor neurocognitive outcome. Low tidal volumes (VTs) attenuate pulmonary and extrapulmonary organ injury in patients at risk of ventilation-induced lung injury. Experimental data suggest low VT also may be neuroprotective. It is unknown whether

What This Study Adds to the

outcome postarrest.

low V_T improves neurocognitive

Field: In patients suffering nontraumatic out-of-hospital cardiac arrest, lower V_T during the first 48 hours of intensive care unit admission was associated with improved neurocognitive outcome at hospital discharge, more ventilator-free days, and more shock-free days. In context with current understanding of lung–brain crosstalk, these findings suggest low-V_T ventilation may improve neurocognitive outcome after cardiac arrest.

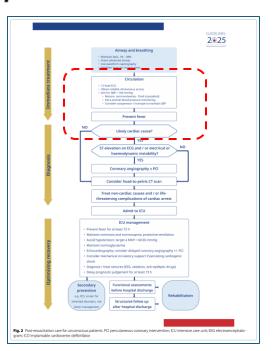


Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025

Immediate post-resuscitation care







Control of ventilation

- Obtain arterial blood gases and monitor end tidal CO2 in mechanically ventilated patients.
- Target normocapnia a partial pressure of carbon dioxide of 4.7–6.0 kPa (or approximately 35-45 mmHg) in adults with ROSC after cardiac arrest.
- In patients with accidental hypothermia or treated with hypothermia monitor PaCO2 frequently as hypocapnia may occur.
- In hypothermic patients use consistently either temperature or nontemperature corrected blood gas values.
- Use a lung protective ventilation strategy aiming for a tidal volume of 6–
 8 mL/kg ideal body weight.

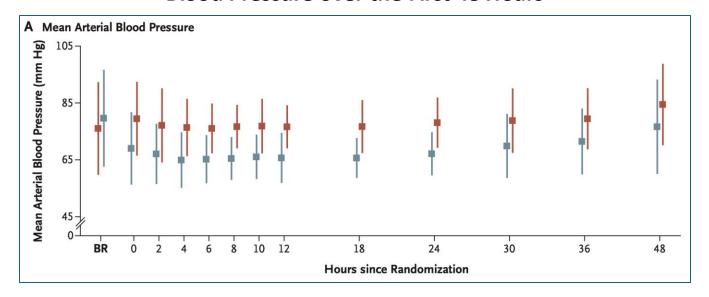


ORIGINAL ARTICLE

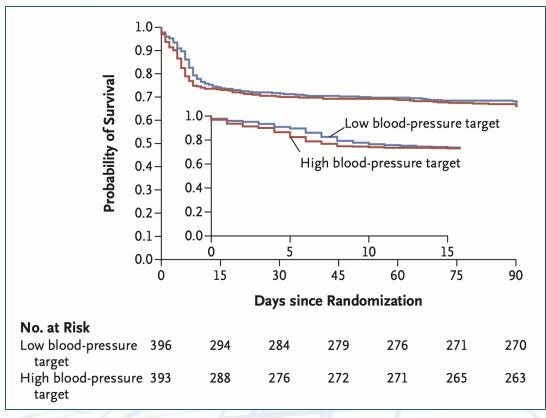
Kjaergaard et al. NEJM 2022

Blood-Pressure Targets in Comatose Survivors of Cardiac Arrest

Blood Pressure over the First 48 Hours









Epinephrine Versus Norepinephrine for Cardiogenic Shock After Acute Myocardial Infarction

CC VOL. 72, NO. 2, 2018 JULY 10, 2018:173-82

Bruno Levy, MD, PhD,^a Raphael Clere-Jehl, MD,^b Annick Legras, MD,^c Tristan Morichau-Beauchant, MD,^d Marc Leone, MD, PhD,^e Ganster Frederique, MD,^f Jean-Pierre Quenot, MD, PhD,^g Antoine Kimmoun, MD, PhD,^a Alain Cariou, MD, PhD,^d Johan Lassus, MD, PhD,^h Veli-Pekka Harjola, MD, PhD,^h Ferhat Meziani, MD, PhD,^b Guillaume Louis, MD,ⁱ Patrick Rossignol, MD, PhD,^j Kevin Duarte, PhD,^j Nicolas Girerd, MD, PhD,^j Alexandre Mebazaa, MD, PhD,^k Philippe Vignon, MD, PhD^l

TABLE 2 Serious Adverse Events and Outcomes

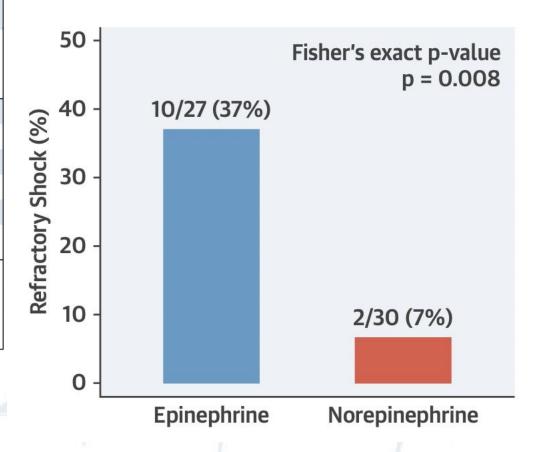
| | Epinephrine (n = 27) | Norepinephrine $(n=30)$ | p Value* | Odds Ratio (95% Confidence Interval) | p Value† |
|----------------------|-------------------------|-------------------------|----------|--|----------|
| Refractory shock | 10 (37) | 2 (7) | 0.008 | 8.24 (1.61-42.18) | 0.011 |
| Arrhythmia | 11 (41) | 10 (33) | 0.59 | 1.37 (0.47-4.05) | 0.56 |
| ECLS | 3 (11) | 1 (3) | 0.34 | 3.62 (0.35-37.14) | 0.28 |
| Death | 14 (52) | 11 (37) | 0.29 | 1.86 (0.65-5.36) | 0.25 |
| Death within 7 days | 8 (30) | 3 (10) | 0.093 | 3.79 (0.89-16.17) | 0.072 |
| Death within 28 days | 13 (48) | 8 (27) | 0.11 | 2.55 (0.84-7.72) | 0.097 |

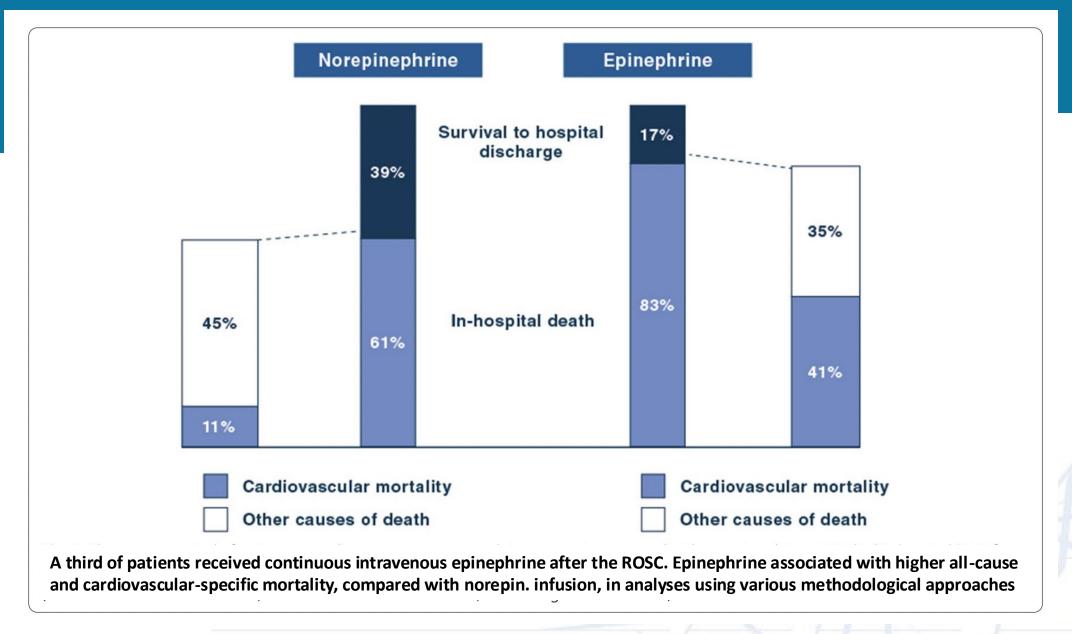
Values are n (%) unless otherwise indicated. Odds ratios were expressed by using the norepinephrine group as reference. *p value from the Fisher exact test. †p value from the Wald test.

 ${\sf ECLS} = {\sf extracorporeal} \ {\sf life} \ {\sf support}.$



EpinephrineNorepinephrine







Prehospital high-dose methylprednisolone in resuscitated out-of-hospital cardiac arrest patients (STEROHCA): a randomized clinical trial

Laust E. R. Obling^{1*}, Rasmus P. Beske¹, Martin A. S. Meyer¹, Johannes Grand¹, Sebastian Wiberg^{1,2}, Benjamin Nyholm¹, Jakob Josiassen¹, Frederik T. Søndergaard¹, Thomas Mohr³, Anders Damm-Hejmdal⁴, Mette Bjerre⁵, Ruth Frikke-Schmidt^{6,7}, Fredrik Folke^{4,7,8}, Jacob E. Møller^{1,7,9}, Jesper Kjaergaard^{1,7} and Christian Hassager^{1,7}

Study intervention

If eligible for inclusion, patients were randomized to receive a bolus injection of methylprednisolone 250 mg intravenously ($2 \times 125 \text{ mg/2 mL}$) or placebo (4 mL isotonic NaCl), both administered over 5 min. The dosage was the maximum allowed for methylprednisolone bolus injection in Denmark. The intervention was performed as soon as possible following resuscitation and a minimum of 5 min from ROSC in the prehospital setting. Injection of allocated medicine was completed before hospital arrival, and only allocation number was available at admission.

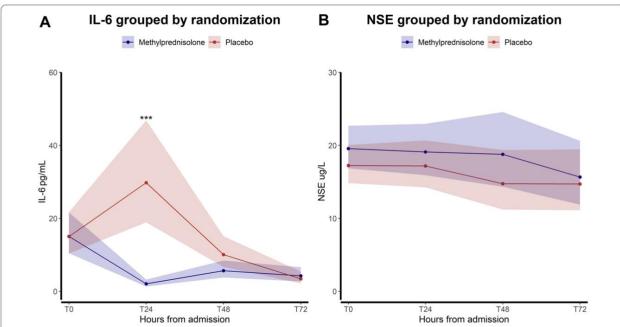
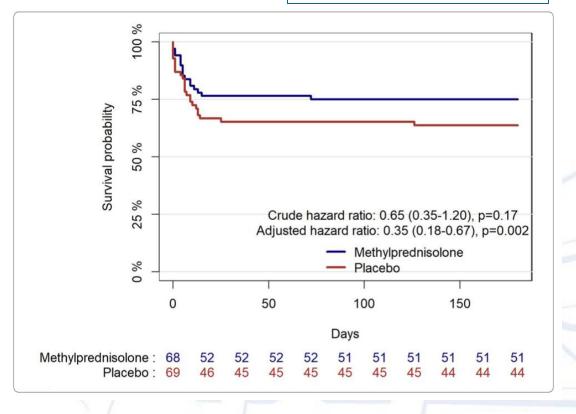


Fig. 2 Primary efficacy analyses: **A** Treatment-by-time interaction for IL-6 (pg/mL) depicting geometric means and 95% confidence intervals after antilog to each time point according to randomization; **B** Treatment-by-time interaction for NSE (ug/L) depicting geometric means and 95% confidence intervals after antilog to each time point according to randomization. The figure includes the measurements for the modified intention-to-treat population (n = 137)





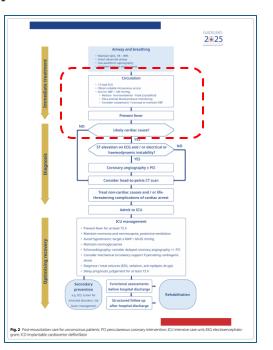


Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025

Immediate post-resuscitation care







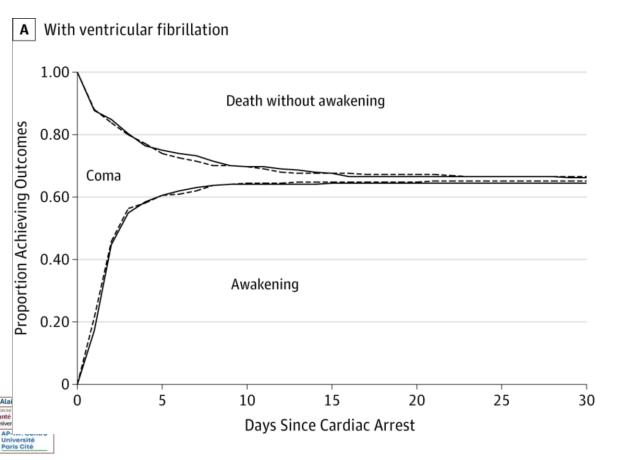
Haemodynamic monitoring and management

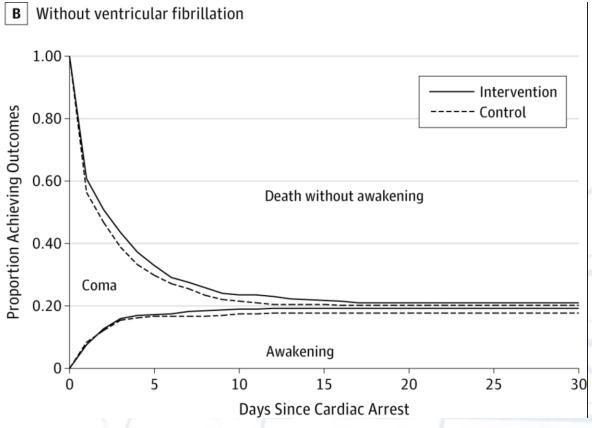
- Avoid hypotension and target a SBP >100 mmHg (or a MAP>60–65 mmHg) after cardiac arrest.
- Maintain perfusion with fluids, noradrenaline and/or dobutamine, depending on individual patient need for intra-vascular volume, vasoconstriction or inotropy.
- Do not give steroids routinely after cardiac arrest.
- Perform **echocardiograpy** as soon as possible in all patients to detect any underlying cardiac pathology and quantify the degree of myocardial dysfunction.
- All patients should be monitored with an arterial line for continuous blood pressure measurements, and it is reasonable to monitor cardiac output in haemodynamically unstable patients.



Effect of Prehospital Induction of Mild Hypothermia on Survival and Neurological Status Among Adults With Cardiac Arrest Kim F et al. JAMA 2014

Proportion of comatose patients achieving either death without awakening or awakening as a function of days after cardiac arrest

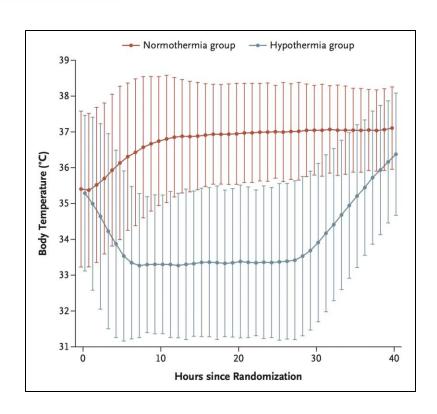


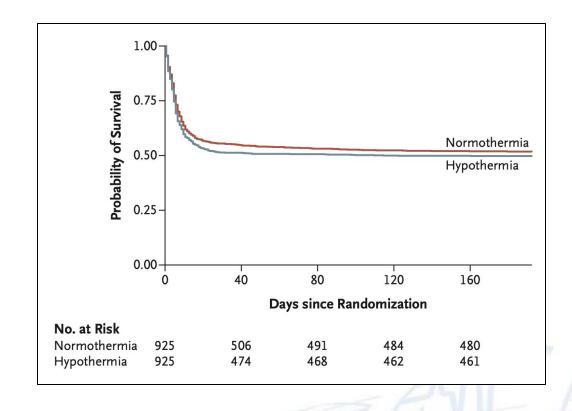


ORIGINAL ARTICLE

Hypothermia versus Normothermia after Out-of-Hospital Cardiac Arrest

N ENGL J MED 384;24 NEJM.ORG JUNE 17, 2021







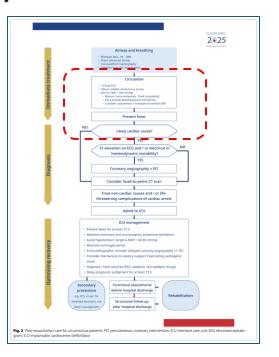


Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025

Immediate post-resuscitation care







Temperature control

- Actively prevent fever by targeting a temperature ≤ 37.5 °C for patients who remain comatose after ROSC from cardiac arrest.
- Comatose patients with mild hypothermia (32–36 °C) after ROSC should not be actively warmed to achieve normothermia.
- We recommend against the routine use of prehospital cooling with rapid infusion of large volumes of cold intravenous fluid immediately after ROSC.



Early coronary angiogram after cardiac arrest in non-STEMI patients

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Coronary Angiography after Cardiac Arrest without ST-Segment Elevation

J.S. Lemkes, G.N. Janssens, N.W. van der Hoeven, L.S.D. Jewbali, E.A. Dubois, M. Meuwissen, T.A. Rijpstra, H.A. Bosker, M.J. Blans, G.B. Bleeker, R. Baak, G.J. Vlachojannis, B.J.W. Eikemans, P. van der Harst, I.C.C. van der Horst, M. Voskuil, J.J. van der Heijden, A. Beishuizen, M. Stoel, C. Camaro, H. van der Hoeven, J.P. Henriques, A.P.J. Vlaar, M.A. Vink, B. van den Bogaard, T.A.C.M. Heestermans, W. de Ruijter, T.S.R. Delnoij, H.J.G.M. Crijns, G.A.J. Jessurun, P.V. Oemrawsingh, M.T.M. Gosselink, K. Plomp, M. Magro, P.W.G. Elbers, P.M. van de Ven, H.M. Oudemans-van Straaten, and N. van Royen

COACT



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Angiography after Out-of-Hospital Cardiac Arrest without ST-Segment Elevation

S. Desch, A. Freund, I. Akin, M. Behnes, M.R. Preusch, T.A. Zelniker, C. Skurk, U. Landmesser, T. Graf, I. Eitel, G. Fuernau, H. Haake, P. Nordbeck, F. Hammer, S.B. Felix, C. Hassager, T. Engstrøm, S. Fichtlscherer, J. Ledwoch, K. Lenk, M. Joner, S. Steiner, C. Liebetrau, I. Voigt, U. Zeymer, M. Brand, R. Schmitz, J. Horstkotte, C. Jacobshagen, J. Pöss, M. Abdel-Wahab, P. Lurz, A. Jobs, S. de Waha-Thiele, D. Olbrich, F. Sandig, I.R. König, S. Brett, M. Vens, K. Klinge, and H. Thiele, for the TOMAHAWK Investigators*

JAMA Cardiology | Original Investigation

Emergency vs Delayed Coronary Angiogram in Survivors of Out-of-Hospital Cardiac Arrest Results of the Randomized, Multicentric EMERGE Trial

Caroline Hauw-Berlemont, MD, MS; Lionel Lamhaut, MD, PhD; Jean-Luc Diehl, MD; Christophe Andreotti, MD; Olivier Varenne, MD, PhD; Pierre Leroux, MD; Jean-Baptiste Lascarrou, MD; Patrice Guerin, MD, PhD; Thomas Loeb, MD; Eric Rouple, MD, PhD; Cédric Daubin, MD; Farzin Beygui, MD, PhD; Florence Boissier, MD, PhD; Nicolas Marjanovic, MD, PhD; Luc Christiaens, MD, PhD; Aurélie Vilfaillot, MS; Sophie Glippa, MS; Juliette Djadi Prat, MD, PhD; Gilles Chatellier, PM, PhD; Alain Cariou, MD, PhD; Christian Spaulding, MD, PhD; for the EMERGE Investigators

TOMAHAWK



EMERGE





JAMA Cardiology | Original Investigation

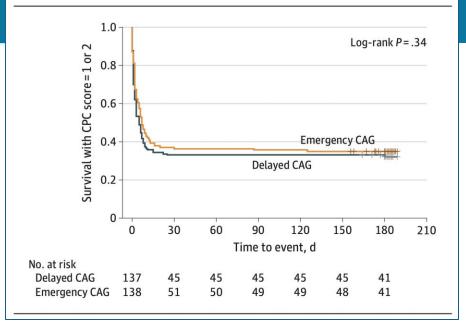
JAMA Cardiology Published online June 8, 2022

Emergency vs Delayed Coronary Angiogram in Survivors of Out-of-Hospital Cardiac Arrest Results of the Randomized, Multicentric EMERGE Trial

Caroline Hauw-Berlemont, MD, MS; Lionel Lamhaut, MD, PhD; Jean-Luc Diehl, MD; Christophe Andreotti, MD; Olivier Varenne, MD, PhD; Pierre Leroux, MD; Jean-Baptiste Lascarrou, MD; Patrice Guerin, MD, PhD; Thomas Loeb, MD; Eric Roupie, MD, PhD; Cédric Daubin, MD; Farzin Beygui, MD, PhD; Florence Boissier, MD, PhD; Nicolas Marjanovic, MD, PhD; Luc Christiaens, MD, PhD; Aurélie Vilfaillot, MS; Sophie Glippa, MS; Juliette Djadi Prat, MD, PhD; Gilles Chatellier, PM, PhD; Alain Cariou, MD, PhD; Christian Spaulding, MD, PhD; for the EMERGE Investigators

| Outcome | Emergency CAG (n = 141) | Delayed CAG (n = 138) | Hazard ratio ^{a,b} (95% CI) | P value |
|---|----------------------------|--------------------------|---|---------|
| Primary outcome at 180 d, ^{a,c} No./total No. (%) | | | | |
| CPC = 1 or 2 | 47/141 (34.1) | 42/138 (30.7) | | |
| CPC = 3, 4, or 5 | 91/141 (65.9) | 95/138 (69.3) | 0.87 (0.65-1.15) | .32 |
| Unknown CPC status | 3/141 (2.1) | 1/138 (0.7) | | |
| Secondary outcomes | | | | |
| Overall survival rate at 180 da | 51/141(36.2) | 46/138 (33.3) | 0.86 (0.64-1.15) | .31 |

Figure 2. Patient Survival With a Cerebral Performance Category (CPC) Score of 1 or 2



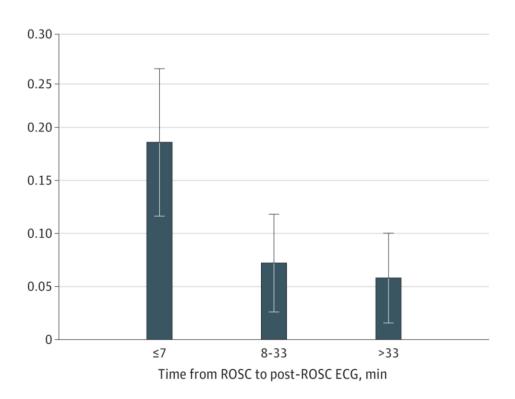
| | Emerger | Emergency CAG | | CAG | Risk ratio | | Emergei | ncy Del | ayed |
|----------------------------|-------------|---------------|-----------------|--------------|------------------|------|--------------|----------------|------|
| Studies and year | Events | No event | Events | No event | (95% CI) | | Č | AG CAC | 3 |
| COACT, ¹⁰ 2019 | 97 | 176 | 87 | 178 | 1.08 (0.86-1.37) | | | - | |
| PEARL, ¹¹ 2020 | 22 | 27 | 27 | 23 | 0.83 (0.99-1.39) | | | - | |
| TOMAHAWK, 12 2021 | 143 | 122 | 122 | 143 | 1.17 (0.99-1.39) | | | | |
| EMERGE, ¹³ 2020 | 90 | 51 | 92 | 46 | 0.96 (0.81-1.14) | | | | |
| Random-effects model | : Q=4.05; d | df=3; P=.26; | $I^2 = 27.2\%;$ | $\tau^2 = 0$ | 1.04 (0.92-1.18) | | | \lambda | |
| | | | | | | 0.05 | 0.25 | 1 | 4 |
| | | | | | | | Risk ratio (| (95% CI) | |



Association of Timing of Electrocardiogram Acquisition After Return of Spontaneous Circulation With Coronary Angiography Findings in Patients With Out-of-Hospital Cardiac Arrest

Baldi Eet al. JAMA Network Open 2021

Proportion of false-positive ECG findings over time



Key Points

- Question: Is the time from the ROSC to ECG acquisition associated with the percentage of false-positive ECG findings for STEMI in patients who experience out-of-hospital cardiac arrest?
- Findings: In this cohort study of 370 patients who were resuscitated from out-of-hospital cardiac arrest, the percentage of false-positive ECG findings among those performed 7 minutes or less after ROSC (18.5%) was significantly higher than those performed between 8 and 33 minutes (7.2%) and over 33 minutes (5.8%) after ROSC.
- Meaning: Results of this study suggest that early ECG acquisition after ROSC is associated with a higher percentage of false-positive ECG findings for STEMI after out-of-hospital cardiac arrest.

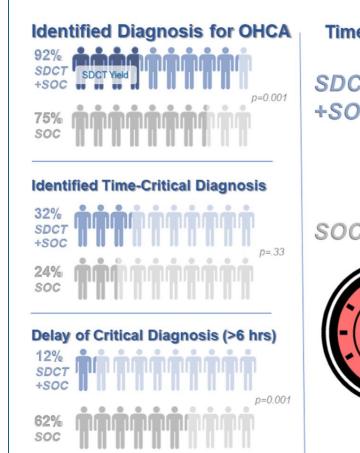


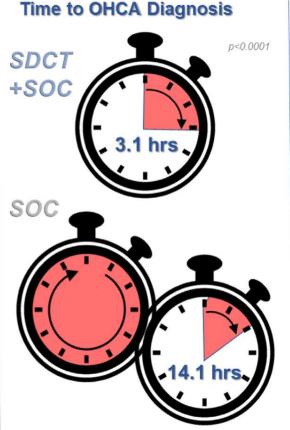
Clinical paper

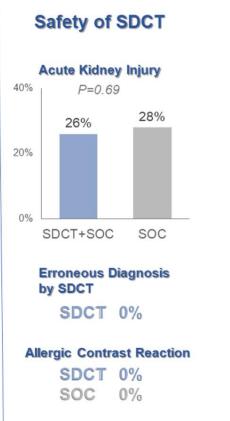
Diagnostic yield, safety, and outcomes of Head-to-pelvis sudden death CT imaging in post arrest care: The CT FIRST cohort study

Kelley R.H. Branch ^{a,*}, Medley O. Gatewood ^b, Peter J. Kudenchuk ^a, Charles Maynard ^c, Michael R. Sayre ^b, David J. Carlbom ^d, Rachel M. Edwards ^e, Catherine R. Counts ^b, Jeffrey L. Probstfield ^a, Robin Brusen ^f, Nicholas Johnson ^b, Martin L. Gunn ^{e,g}

RESUSCITATION 188 (2023) 109785









Studies assessing CT-scan performance for identification of causes or complications of OHCA. Benghanem & Cariou, Resuscitation 2023

| Studies | Design | Population | CT scan types | CT scan performance |
|----------------------------|---------------|---|--|--|
| Branch et | Prospective | N= 247 idiopathic OHCA | CT head-to-pelvis, including | 38% of potentials causes (myocardial infarction, pneumonia, heart |
| al, 2023 | | N=104 in the systematic strategy | coronary CT angiographic data, within 6 hours after hospital arrival | failure, pulmonary embolism, abdominal catastrophe, haemorrhagic cerebral vascular accident |
| | | Vs | Vs | |
| | | N=143 in the standard of care strategy | CT head, thoracic, and/or abdominopelvic | |
| Chelly et al, 2012 | Retrospective | N= 355 OHCA without obvious causes of CA at admission | CT head and pulmonary angiogram | 20% of potentials causes: stroke, pulmonary embolism, acute pulmonary edema, traumatic brain injury, pleural effusion, pneumothorax, pneumonia |
| Adel et al, 2022 | Prospective | N= 225 OHCA | CT head and pulmonary angiogram | 15% of potentials causes: pulmonary embolism, tension pneumothorax, intra cranial bleeding, aortic dissection, pericardial tamponade |
| | | | | 70% of CPR complications: rib or sternal fractures, aspiration, hepatic bleeding, intra-abdominal air |
| Hwang et al, 2021 | Retrospective | N=452 OHCA including: | CT head, chest and abdomen | 7% of potentials causes: chest: 12.5%, abdominal: 5.3%, head: 4.4% |
| Moriwaki et al, 2013 | Retrospective | N=1153 idiopathic sudden death survivors | Peri-mortem non-contrast head and/or thorax CT scans | 22% of potentials causes of death: aortic dissection, airway obstruction or submersion, hypoxia due to pneumonia, cerebro-vascular disorder, asthma and acute worsening of chronic obstructive pulmonary disease, pulmonary embolism |
| Yang et al, 2020 | Retrospective | N=93 OHCA with ECPR | CT chest and pelvis | 77% of potentials causes of CA or complications of CPR: myocardial infarction, hypoxic brain injury, sternal/rib fractures, aortic dissection, pulmonary embolism, cardiac tamponade |



GUIDELINES

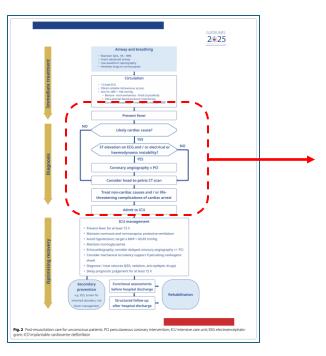
2025

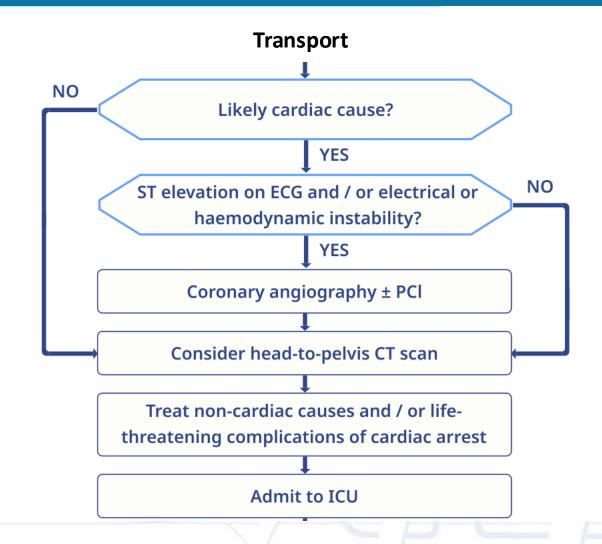
EUROPEAN RESUSCITATION COUNCIL®

Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025







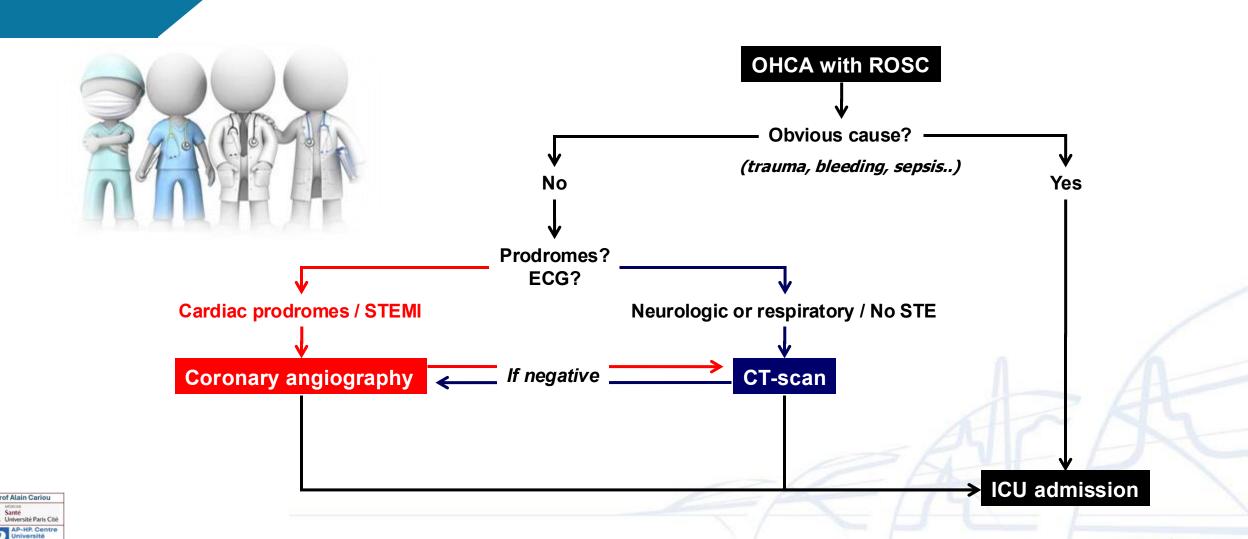




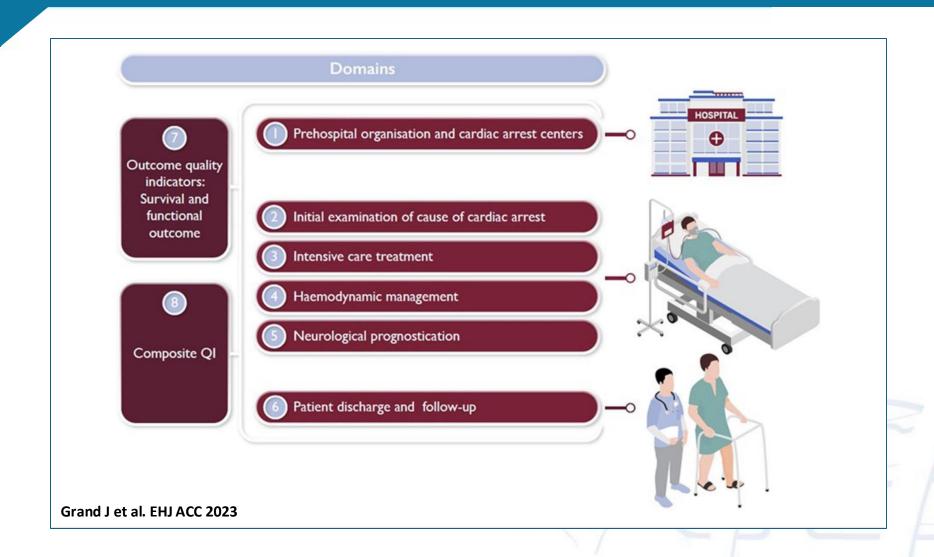
Et à Cochin, vous faites quoi ?







Post-resuscitation care: 8 domains of care where quality should be assessed



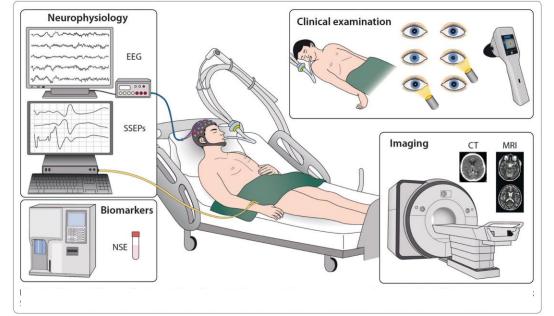




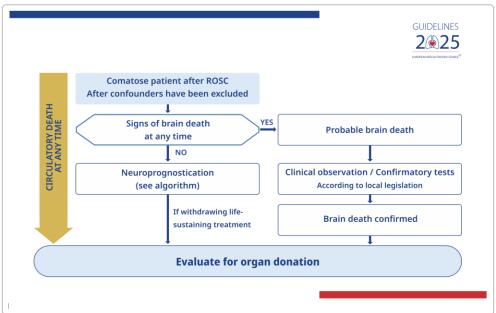
Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025







Prediction of poor and good outcome



Organ donation if brain death or poor neurological outcome



GUIDELINES

2025

EUROPEAN RESUSCITATION COUNCIL®

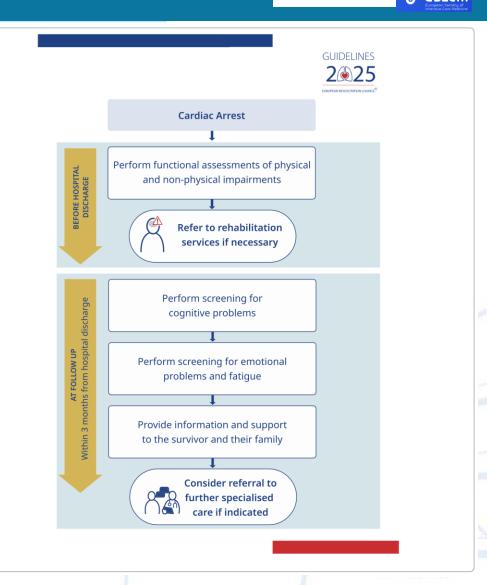
Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025





Rehabilitation and follow-up after cardiac arrest

- Implement early mobilisation, delirium management and ICU diaries during hospitalisation
- Provide information for patients and co-survivors
- Perform functional assessments of physical and non-physical impairments before discharge to identify rehabilitation needs and refer to early rehabilitation if indicated.
- Provide cardiac rehabilitation as indicated by the cause of the cardiac arrest.
- Organise a follow-up of cardiac arrest survivors within three months after hospital discharge; screening for cognitive, physical, emotional problems, fatigue, and impact on life roles.
- Invite co-survivors to the follow-up; ask about emotional problems and impact on life roles.
- Undertake specialist referral and further rehabilitation as indicated.

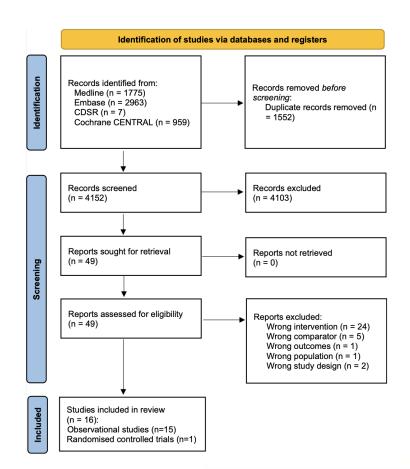




Cardiac arrest centres for patients with non-traumatic cardiac arrest: a systematic review



Boulton AJ, et al. Resuscitation 2024



Survival to hospital discharge

| | | CAC | | non-CAC | | | | | |
|---------------------|----------|--------------|-------|--------------|---------------------|------------|-------------|------|-------|
| Study | Analysis | Events | Total | Events | Total | | | | |
| Chien 2020 (27) | | | | | | | | | |
| Non-shockable | Adj | Not reported | 533 | Not reported | 523 | | | | |
| Shockable | Adj | Not reported | 2045 | Not reported | 2055 | - | | | |
| Chocron 2017 (28) | Adj | 66 | 244 | 69 | 244 | - | | | |
| Cournoyer 2018 (29) | Adj | 479 | 2383 | 282 | 2541 | | | | |
| Jung 2022 (30) | Adj | 3120 | 23292 | 5345 | 72639 | | = | | |
| Kim 2019 (31) | Adj | 455 | 4036 | 196 | 5876 | | | | |
| Kragholm 2017 (32) | Adj | 455 | 1359 | 22 | 148 | | | | |
| McKenzie 2018 (34) | Adj | 227 | 404 | 47 | 105 | - | | | |
| Soholm 2015 (36) | Unadj | 264 | 586 | 117 | 492 | | | | |
| Spaite 2014 (37) | Adj | 250 | 1734 | 39 | 440 | | | | |
| Stub 2011 (38) | Adj | 611 | 1816 | 235 | 890 | _ | - | | |
| Sunde 2007 (39) | Unadj | 34 | 61 | 18 | 58 | | | | |
| Tagami 2012 (40) | Unadj | 30 | 712 | 18 | 770 | | | | |
| Yeh 2021 (41) | Adj | 248 | 1222 | 39 | 366 | | | | |
| | | | | Fa | 0.50 vours non-0 | 1.0 CAC | Favours CAC | 5.00 | 10.00 |



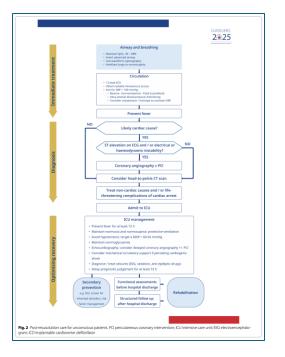
"This review supports a weak recommendation that adults with OHCA are cared for at CACs based on very low certainty of evidence"



Nolan JP, Sandroni C, Cariou A, Cronberg T, D'Arrigo S, Haywood K, Hoedemaekers A, Lilja G, Nikolaou N, Olasveengen TM, Robba C, Skrifvars MB, Swindell P, Soar J. Intensive Care Med 2025 – Resuscitation 2025







Cardiac arrest centres

- Adult patients with non-traumatic OHCA should be considered for transport to a cardiac arrest centre for post-resuscitation care, whenever possible, according to local protocols.
- Health care networks should establish local protocols to develop and maintain a cardiac arrest network.



CAC (Cardiac Arrest Centre)

Emergency department for assessment of patient without STEMI criteria for non-cardiac causes

Coronary angiography 24/7

ICU with the option of TTM

Imaging facilities (TTE, TEE, CT and MRI)

Rehabilitation service

Education and teaching

Data acquisition and quality control

OHCA hub hospital

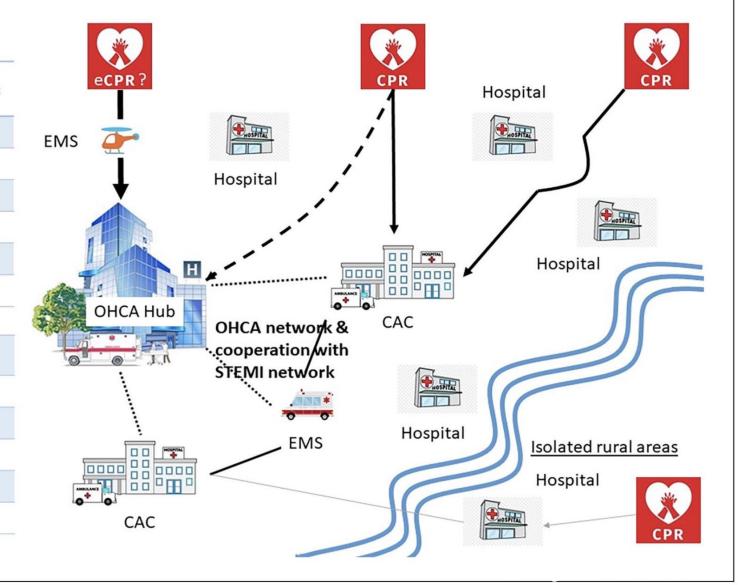
All features of the CAC AND

Mechanical assist device program - eCPR

Arrhythmia management with EPS

Device management

Research facilities and fund raising





Post-resuscitation care: key messages



POST RESUSCITATION CAREKEY MESSAGES



After ROSC use ABCDE approach

- Insert an advanced airway (tracheal intubation when skills available)
- As soon as SpO₂ can be measured reliably or arterial blood gas values are obtained, titrate the inspired oxygen to achieve an arterial oxygen saturation of 94-98%, and ventilate lungs to achieve normocapnia

POST RESUSCITATION

CARE

 Aim for a systolic blood pressure > 100 mmHg or a mean arterial pressure > 60-65 mmHg



Prioritise immediate coronary angiography for patients with clear ST-elevation on the ECG or other high suspicion of coronary occlusion (e.g. haemodynamic and/or electrical instability)

Use a multimodal strategy including clinical examination, electrophysiology, biomarkers, and imaging to predict good or poor neurological outcome

Actively prevent fever by targeting a temperature ≤ 37.5 °C for patients who remain comatose after ROSC from cardiac arrest

