



# 2026 Surgical Critical Care

## All References



Below you will find the topics and references for the 2026 Surgical Critical Care Continuous Certification Assessment. Diplomates are **not** expected or required to read all of these references before or during the assessment. Key References are marked with a yellow star ★.

Due to permission limitations, we can only provide direct full-text links for articles that are already open access; all other links will direct to PubMed.

To view full-text articles for **all** references before starting your assessment, please log in to the [surgeon portal](#), where links and PDFs will be freely available beginning **August 8, 2026**. Additionally, full-text links and PDFs for all Key and Additional References will be available directly within the exam platform while you take your assessment.

### Acid-base disorders

- ★ [Jung B, Jabaudon M, De Jong A, et al. Sodium bicarbonate for severe metabolic acidemia and acute kidney injury: the BICARICU-2 randomized clinical trial. \*JAMA\*. 2025;334\(22\):2000-2010. doi:10.1001/jama.2025.20231](#)
- [Jaber S, Paugam C, Futier E, et al. Sodium bicarbonate therapy for patients with severe metabolic acidemia in the intensive care unit \(BICAR-ICU\): a multicentre, open-label, randomised controlled, phase 3 trial. \*Lancet\*. 2018;392\(10141\):31-40. doi:10.1016/S0140-6736\(18\)31080-8](#)

### Acute respiratory failure

- ★ [Sharie SA, Almari R, Azzam S, et al. Brain protective ventilation strategies in severe acute brain injury. \*Curr Neurol Neurosci Rep\*. 2025;25\(1\):68. doi:10.1007/s11910-025-01462-2](#)

### Analgesia

- ★ [Karamchandani K, Carr ZJ, Bonavia A, Tung A. Critical care pain management in patients affected by the opioid epidemic: a review. \*Ann Am Thorac Soc\*. 2018;15\(9\):1016-1023. doi:10.1513/AnnalsATS.201801-028FR](#)

### Assessment of nutritional status

- ★ [von Renesse J, von Kessel MKE, Oehme F, et al. Indirect calorimetry identifies hypermetabolism associated with muscle wasting and increased risk of energy deficit in ICU patients. \*Crit Care\*. 2025;29\(1\):464. doi:10.1186/s13054-025-05695-y](#)



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### Bacterial infections

- ★ [Dark P, Hossain A, McAuley DF, et al. Biomarker-guided antibiotic duration for hospitalized patients with suspected sepsis: the ADAPT-sepsis randomized clinical trial. \*JAMA.\* 2025;333\(8\):682-693. doi:10.1001/jama.2024.26458](#)

### Brain death

- ★ [Kirschen MP, Lewis A, Greer DM. The 2023 American Academy of Neurology, American Academy of Pediatrics, Child Neurology Society, and Society of Critical Care Medicine Pediatric and Adult Brain Death/Death by Neurologic Criteria determination consensus guidelines: what the critical care team needs to know. \*Crit Care Med.\* 2024;52\(3\):376-386. doi:10.1097/CCM.0000000000006099](#)

### Calculations and interpretation of hemodynamics

- ★ [ANDROMEDA-SHOCK-2 Investigators for the ANDROMEDA Research Network, Spanish Society of Anesthesiology, Reanimation and Pain Therapy \(SEDAR\), and Latin American Intensive Care Network \(LIVEN\), Hernandez G, Ospina-Tascón GA, et al. Personalized hemodynamic resuscitation targeting capillary refill time in early septic shock: the ANDROMEDA-SHOCK-2 randomized clinical trial. \*JAMA.\* 2025;334\(22\):1988-1999. doi:10.1001/jama.2025.20402](#)
- [Evans L, Rhodes A, Alhazzani W, et al. Surviving Sepsis Campaign: international guidelines for management of sepsis and septic shock 2021. \*Crit Care Med.\* 2021;49\(11\):e1063-e1143. doi:10.1097/CCM.0000000000005337](#)

### Cardiac arrest

- ★ [Rajajee V, Muehlschlegel S, Wartenberg KE, et al. Guidelines for neuroprognostication in comatose adult survivors of cardiac arrest. \*Neurocrit Care.\* 2023;38\(3\):533-563. doi:10.1007/s12028-023-01688-3](#)

### Distributive shock

- ★ [Ahn C, Yu G, Shin TG, Cho Y, Park S, Suh GY. Comparison of early and late norepinephrine administration in patients with septic shock: a systematic review and meta-analysis. \*Chest.\* 2024;166\(6\):1417-1430. doi:10.1016/j.chest.2024.05.042](#)



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### Endpoints of resuscitation

- ★ [Pettilä V, Pfortmiller CA, Perner A, et al. Targeted tissue perfusion versus macrocirculatory-guided standard care in patients with septic shock: a randomized clinical trial-the TARTARE-2S trial. \*Crit Care Med.\* 2026;54\(1\):24-34. doi:10.1097/CCM.0000000000006899](#)
- ★ [Hernández G, Ospina-Tascón GA, Damiani LP, et al. Effect of a resuscitation strategy targeting peripheral perfusion status vs serum lactate levels on 28-day mortality among patients with septic shock: the ANDROMEDA-SHOCK randomized clinical trial. \*JAMA.\* 2019;321\(7\):654-664. doi:10.1001/jama.2019.0071](#)

### Extremity compartment syndrome

- ★ [Bouklouch Y, Miclau T, Harvey E. Diagnosis of acute compartment syndrome: current diagnostic parameters. \*Injury.\* 2025;56 Suppl 1:112773. doi:10.1016/j.injury.2025.112773](#)

### Extubation criteria

- ★ [De Jong A, Capdevila M, Aarab Y, et al. Incidence, risk factors, and long-term outcomes for extubation failure in ICU in patients with obesity: a retrospective analysis of a multicenter prospective observational study. \*Chest.\* 2025;167\(1\):139-151. doi:10.1016/j.chest.2024.07.171](#)

### Health equity/disparities/social determinants of health

- ★ [Collins C, Bongiovanni T. Disparities in access, management and outcomes of critically ill adult patients with trauma. \*Crit Care Clin.\* 2024;40\(4\):659-670. doi:10.1016/j.ccc.2024.05.003](#)

### Hemorrhagic shock

- ★ [Torres CM, Kenzik KM, Saillant NN, et al. Timing to first whole blood transfusion and survival following severe hemorrhage in trauma patients. \*JAMA Surg.\* 2024;159\(4\):374-381. doi:10.1001/jamasurg.2023.7178](#)

### Hemothorax

- ★ [Ghneim MH, O'Connor JV, Scalea TM. Damage control thoracic surgery: what you need to know. \*J Trauma Acute Care Surg.\* 2025;98\(1\):11-19. doi:10.1097/TA.0000000000004458](#)



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### Initial resuscitation

- ★ [Maiga AW, Vella MA, Appelbaum RD, et al. Getting out of the bay faster: assessing trauma team performance using trauma video review. \*J Trauma Acute Care Surg.\* 2024;96\(1\):76-84. doi:10.1097/TA.0000000000004168](#)
- ★ [Wurster LA, Thakkar RK, Haley KJ, et al. Standardizing the initial resuscitation of the trauma patient with the Primary Assessment Completion Tool using video review. \*J Trauma Acute Care Surg.\* 2017;82\(6\):1002-1006. doi:10.1097/TA.0000000000001417](#)

### Intubation

- ★ [McDougall GG, Flindall H, Forestell B, et al. Direct laryngoscopy versus video laryngoscopy for intubation in critically ill patients: a systematic review, meta-analysis, and trial sequential analysis of randomized trials. \*Crit Care Med.\* 2024;52\(11\):1674-1685. doi:10.1097/CCM.0000000000006402](#)

### Noninvasive hemodynamic monitoring

- ★ [Muller G, Contou D, Ehrmann S, et al. Deferring arterial catheterization in critically ill patients with shock. \*N Engl J Med.\* 2025;393\(19\):1875-1888. doi:10.1056/NEJMoa2502136](#)

### Palliative care

- ★ [Kodadek LM, Cook M, Young J, et al. Primary palliative care in acute care surgery: an American Association for the Surgery of Trauma Critical Care Committee and Palliative Care Committee clinical consensus document. \*Trauma Surg Acute Care Open.\* 2025;10\(1\):e001616. doi:10.1136/tsaco-2024-001616](#)

### Postpartum hemorrhage

- ★ [Green L, Daru J, Gonzalez Carreras FJ, et al. Early cryoprecipitate transfusion versus standard care in severe postpartum haemorrhage: a pilot cluster-randomised trial. \*Anaesthesia.\* 2022;77\(2\):175-184. doi:10.1111/anae.15595](#)
- ★ [Madar H, Froeliger A, Kayem G, Bouchghoul H, Sentilhes L. Management of immediate and delayed postpartum hemorrhage with cesarean delivery. \*Am J Obstet Gynecol.\* 2026;233\(6S\):S314-S330. doi:10.1016/j.ajog.2025.07.027](#)



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### Principals of bioethics

- ★ U.S. Department of Health and Human Services Food and Drug Administration. Informed Consent Guidance for IRBs, Clinical Investigators, and Sponsors. Published August 2023. Accessed February 26, 2026. <https://www.fda.gov/media/88915/download>
- [Ross CE, Kleinman ME, Donnino MW. Personal public disclosure: a new paradigm for meeting regulatory requirements under exception from informed consent. \*Crit Care Med\*. 2025;53\(4\):e979-e983. doi:10.1097/CCM.0000000000006590](#)

### Principles of renal replacement therapy

- ★ [STARTR-AKI Investigators; Canadian Critical Care Trials Group; Australian and New Zealand Intensive Care Society Clinical Trials Group, et al. Timing of initiation of renal-replacement therapy in acute kidney injury. \*N Engl J Med\*. 2020;383\(3\):240-251. doi:10.1056/NEJMoa2000741](#)
- [Barbar SD, Clere-Jehl R, Bourredjem A, et al. Timing of renal-replacement therapy in patients with acute kidney injury and sepsis. \*N Engl J Med\*. 2018;379\(15\):1431-1442. doi:10.1056/NEJMoa1803213](#)

### Pulmonary contusions

- ★ [Van Wijck SFM, Pieracci FM, Smith EF, et al. Rib fixation in patients with severe rib fractures and pulmonary contusions: is it safe?. \*J Trauma Acute Care Surg\*. 2022;93\(6\):721-726. doi:10.1097/TA.0000000000003790](#)
- [Lagazzi E, Panossian VS, Argandykov D, et al. Rib fixation in severe isolated chest trauma with pulmonary contusion: rib fixation in pulmonary contusion. \*Injury\*. 2025;56\(6\):112292. doi:10.1016/j.injury.2025.112292](#)

### Quality improvement

- ★ [Scott BK, Singh J, Hravnak M, et al. Best practices in telecritical care: expert consensus recommendations from the telecritical care collaborative network. \*Crit Care Med\*. 2024;52\(11\):1750-1767. doi:10.1097/CCM.0000000000006418](#)

### Resuscitation in pediatric shock

- ★ [Russell RT, Esparaz JR, Beckwith MA, et al. Pediatric traumatic hemorrhagic shock consensus conference recommendations. \*J Trauma Acute Care Surg\*. 2023;94\(1S Suppl 1\):S2-S10. doi:10.1097/TA.0000000000003805](#)





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- [Polites SF, Nygaard RM, Reddy PN, et al. Multicenter study of crystalloid boluses and transfusion in pediatric trauma-when to go to blood?. \*J Trauma Acute Care Surg.\* 2018;85\(1\):108-112. doi:10.1097/TA.0000000000001897](#)

## Resuscitation strategies

- ★ [Ferrada P, Garcia A, Duchesne J, et al. Comparing outcomes in patients with exsanguinating injuries: an Eastern Association for the Surgery of Trauma \(EAST\), multicenter, international trial evaluating prioritization of circulation over intubation \(CAB over ABC\). \*World J Emerg Surg.\* 2024;19\(1\):15. doi:10.1186/s13017-024-00545-8](#)

## Sedation

- ★ [Greer A, Hewitt M, Khazaneh PT, et al. Ketamine versus etomidate for rapid sequence intubation: a systematic review and meta-analysis of randomized trials. \*Crit Care Med.\* 2025;53\(2\):e374-e383. doi:10.1097/CCM.0000000000006515](#)
- ★ [Walsh TS, Parker RA, Aitken LM, et al. Dexmedetomidine- or clonidine-based sedation compared with propofol in critically ill patients: the A2B randomized clinical trial. \*JAMA.\* 2025;334\(1\):32-45. doi:10.1001/jama.2025.7200](#)

## Sepsis and septic shock

- ★ [Chaudhuri D, Nei AM, Rochweg B, et al. 2024 focused update: guidelines on use of corticosteroids in sepsis, acute respiratory distress syndrome, and community-acquired pneumonia. \*Crit Care Med.\* 2024;52\(5\):e219-e233. doi:10.1097/CCM.0000000000006172](#)
- ★ [Moreno R, Rhodes A, Ranzani O, et al. Rationale and methodological approach underlying the development of the sequential organ failure assessment \(SOFA\)-2 score: a consensus statement. \*JAMA Netw Open.\* 2025;8\(10\):e2545040. doi:10.1001/jamanetworkopen.2025.45040](#)
- [Fowler C, Raoof N, Pastores SM. Sepsis and adrenal insufficiency. \*J Intensive Care Med.\* 2023;38\(11\):987-996. doi:10.1177/08850666231183396](#)

## Spinal cord injury

- ★ [Sajdeya R, Yanez ND, Kampp M, et al. Early blood pressure targets in acute spinal cord injury: a randomized clinical trial. \*JAMA Netw Open.\* 2025;8\(9\):e2525364. doi:10.1001/jamanetworkopen.2025.25364](#)



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### Stress ulcer prophylaxis

- ★ [MacLaren R, Dionne JC, Granholm A, et al. Society of Critical Care Medicine and American Society of Health-System Pharmacists guideline for the prevention of stress-related gastrointestinal bleeding in critically ill adults. \*Crit Care Med\*. 2024;52\(8\):e421-e430. doi:10.1097/CCM.0000000000006330](#)
- ★ [Cook D, Deane A, Lauzier F, et al. Stress ulcer prophylaxis during invasive mechanical ventilation. \*N Engl J Med\*. 2024;391\(1\):9-20. doi:10.1056/NEJMoa2404245](#)

### Thermal burns

- ★ [Barclay T. Stewart, MD, PhD, FACS, Mary A. Hunter, MD, Laura Johnson, MD, Dylan Jason, MD, and Saman Arbabi, MD. Initial management of patients with burns and combined injuries for acute care surgeons: what you need to know. \*J Trauma Acute Care Surg\*. 2025;00: 00 00](#)
- ★ [Kahn SA, Huff ML, Taylor J, et al. Challenging legacy burn resuscitation paradigms with fluid restriction and early plasma. \*J Am Coll Surg\*. 2025;240\(4\):339-347. doi:10.1097/XCS.0000000000001339](#)
- ★ [Gurney JM, Kozar RA, Cancio LC. Plasma for burn shock resuscitation: is it time to go back to the future?. \*Transfusion\*. 2019;59\(S2\):1578-1586. doi:10.1111/trf.15243](#)
- ★ [Stewart BT, Hunter MA, Johnson L, Jason D, Arbabi S. Initial management of patients with burns and combined injuries for acute care surgeons: what you need to know. \*J Trauma Acute Care Surg\*. 2025;99\(1\):10-23. doi:10.1097/TA.0000000000004559](#)

### Transfusions

- ★ [Coz Yataco A, Soghier I, H bert PC, et al. Transfusion of fresh frozen plasma and platelets in critically ill adults: an American College of Chest Physicians clinical practice guideline. \*Chest\*. 2025;168\(3\):661-676. doi:10.1016/j.chest.2025.02.029](#)

### Traumatic brain injury

- ★ [Angriman F, Amaral ACKB, Fan E, et al. Timing of extubation in adult patients with acute brain injury. \*Am J Respir Crit Care Med\*. 2025;211\(3\):339-346. doi:10.1164/rccm.202408-1553OC](#)
- ★ [Panos NG, Jones GM, Cook AM, et al. Reversal of factor Xa inhibitor-related intracranial hemorrhage: a multicenter, retrospective, observational study comparing the efficacy and safety of andexanet and prothrombin complex concentrates. \*Crit Care Med\*. 2025;53\(6\):e1202-e1213. doi:10.1097/CCM.0000000000006656](#)



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### Ureter injury

- ★ [Aziz HA, Bugaev N, Baltazar G, et al. Management of adult renal trauma: a practice management guideline from the Eastern Association for the Surgery of Trauma. \*BMC Surg\*. 2023;23\(1\):22. doi:10.1186/s12893-023-01914-x](#)
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### Venous disease (including DVT)

- ★ [Kerwin AJ, Byerly S, Filiberto DM, et al. Timing is everything: early initiation of VTE prophylaxis following major trauma is effective and safe. \*Ann Surg\*. 2025;282\(3\):382-388. doi:10.1097/SLA.0000000000006784](#)