



2020 Surgical Critical Care: Key References

Below you will find the topics and a selection of key accompanying references for the 2020 Surgical Critical Care Continuous Certification Assessment. References that are available open source are indicated with a green star ★ and the entire citation is a link to the open access source. References that are not available open access have a link in their PubMed ID to the abstract.

Diplomates are neither required nor expected to read all of these references before or during the completion of the assessment.

To view all references, see [this page of the ABS website](#).

Biostatistics

- ★ [McMurry TL, Hu Y, Blackstone EH, Kozower BD. Propensity scores: methods, considerations, and applications in the Journal of Thoracic and Cardiovascular Surgery. *J Thorac Cardiovasc Surg*. 2015;150\(1\):14-19. \[PMID: 25963441\]](#)

Blood Component Therapy

- ★ [Spinella PC, Pidcoke HF, Strandenes G, et al. Whole blood for hemostatic resuscitation of major bleeding. *Transfusion*. 2016;\(56 suppl 2\):S190-S202. \[PMID: 27100756\]](#)
- ★ [Gonzalez E, Moore EE, Moore HB. Management of trauma-induced coagulopathy with thromboelastography. *Crit Care Clin*. 2017; 33\(1\):119-134. \[PMID: 27894492\]](#)
- ★ [Hunt H, Stanworth S, Curry N, et al. Thromboelastography \(TEG\) and rotational thromboelastometry \(ROTEM\) for trauma induced coagulopathy in adult trauma patients with bleeding. *Cochrane Database Syst Rev*. 2015;2015\(2\):CD010438. \[PMID: 25686465\]](#)

Blunt Cerebrovascular Injury

- Burlew CC, Biffl WL. Blunt cerebrovascular trauma. *Curr Opin Crit Care*. 2010;16(6):587-595. [\[PMID: 20808220\]](#)

Burn Resuscitation

- Deutsch CJ, Tan A, Smailes S, Dziewulski P. The diagnosis and management of inhalation injury: an evidence-based approach. *Burns*. 2018;44(5):1040-1051. [\[PMID: 29398078\]](#)



2020 Surgical Critical Care: Key References

Cardiac Arrest After Cardiac Surgery

- ★ [Society of Thoracic Surgeons Task Force on Resuscitation After Cardiac Surgery. The Society of Thoracic Surgeons expert consensus for the resuscitation of patients who arrest after cardiac surgery. *Ann Thorac Surg.* 2017;103\(3\):1005-1020.](#)
[PMID: 28122680]

Cardiac Assist Devices

- ★ [Sen A, Larson JS, Kashani KB, et al. Mechanical circulatory assist devices: a primer for critical care and emergency physicians. *Crit Care.* 2016;20\(1\):153.](#)
[PMID: 27342573]

Cardiogenic Shock

- Kholdani CA, Fares WH. Management of right heart failure in the intensive care unit. *Clin Chest Med.* 2015;36(3):511-520.
[PMID: 26304287]
- ★ [Pozzi M, Banfi C, Grinberg D, et al. Veno-arterial extracorporeal membrane oxygenation for cardiogenic shock due to myocarditis in adult patients. *J Thorac Dis.* 2016;8\(7\):E495-502.](#)
[PMID: 27499982]
- ★ [van Diepen S, Katz JN, Albert NM, et al. Contemporary management of cardiogenic shock: a scientific statement from the American Heart Association. *Circulation.* 2017;136\(16\):e232-e268.](#)
[PMID: 28923988]

Delirium

- ★ [Devlin JW, Skrobik Y, Gélinas C, et al. Executive summary: clinical practice guidelines for the prevention and management of pain, agitation/sedation, delirium, immobility, and sleep disruption in adult patients in the ICU. *Crit Care Med.* 2018;46\(9\):e825-e873.](#)
[PMID: 30113371]

End of Life Care

- ★ [Elwyn G, Frosch D, Thomson R, et al. Shared decision making: a model for clinical practice. *J Gen Int Med.* 2012;27\(10\):1361-1367.](#)
[PMID: 22618581]



2020 Surgical Critical Care: Key References

Fungal and Viral Infections

- ★ [Lelievre L, Garcia-Hermoso D, Abdoul H, et al. Posttraumatic mucormycosis: a nationwide study in France and review of the literature. *Medicine \(Baltimore\)*. 2014;93\(24\):395-404.](#)
[PMID: 25500709]
- ★ [McCarthy M, Rosengart A, Schuetz AN, Kontoyiannis DP, Walsh TJ. Mold infections of the central nervous system. *N Engl J Med*. 2014;371\(2\):150-160.](#)
[PMID: 25006721]

Gastrointestinal Bleeding, Upper

- ★ [Huang HB, Jiang W, Wang C-Y, Qin HY, Du B. Stress ulcer prophylaxis in intensive care unit patients receiving enteral nutrition: a systematic review and meta-analysis. *Crit Care*. 2018;22\(1\):20.](#)
[PMID: 29374489]

Hypovolemic Shock

- ★ [Advanced Trauma Life Support® \(ATLS®\), 10th ed., 2018. American College of Surgeons.](#)

Mesenteric Ischemia

- ★ [Bala M, Kashuk J, Moore EE, et al. Acute mesenteric ischemia: guidelines of the World Society of Emergency Surgery. *World J Emerg Surg*. 2017;12:38.](#)
[PMID: 28794797]

Neurogenic Shock

- ★ [Hagen EM. Acute complications of spinal cord injuries. *World J Orthop*. 2015;6\(1\):17-23.](#)
[PMID: 25621207]

Nosocomial Infections

- ★ [Goldenberg JZ, Yap C, Lytvyn L, et al. Probiotics for the prevention of *Clostridium difficile*-associated diarrhea in adults and children. *Cochrane Database Syst Rev*. 2017;12\(12\):CD006095. Published 2017 Dec 19.](#)
[PMID: 29257353]

Nutritional Therapy

- Patel JJ, Kozeniecki M, Biesboer A, et al. Early trophic enteral nutrition is associated with improved outcomes in mechanically ventilated patients with septic shock: a retrospective review. *J Intensive Care Med*. 2016;31(7):471-477.
[PMID: 25315218]



2020 Surgical Critical Care: Key References

Oxygen and Other Gas Therapies

- ★ [Frat JP, Thille W, Mercat A, et al. High-flow oxygen through nasal cannula in acute hypoxemic respiratory failure. *N Engl J Med*. 2015;372\(23\):2185-2196. \[PMID: 25981908\]](#)
- [Ni YN, Luo J, Yu H, et al. Can high-flow nasal cannula reduce the rate of endotracheal intubation in adult patients with acute respiratory failure compared with conventional oxygen therapy and noninvasive positive-pressure ventilation?: a systematic review and meta-analysis. *Chest*. 2017;151\(4\):764-775. \[PMID: 28089816\]](#)

Pain Management and Sedation

- ★ [Devlin JW, Skrobik Y, Gélinas C, et al. Executive Summary: Clinical Practice Guidelines for the Prevention and Management of Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients in the ICU. *Crit Care Med*. 2018;46\(9\):1532-1548. \[PMID: 30113371\]](#)

Patient Safety and Systems of Care

- ★ [Patient Safety Network. Making Just Culture a reality: one organization's approach. October 2007.](#)

Penetrating Neck Injury

- [Inaba K, Branco BC, Menaker J, et al. Evaluation of multidetector computed tomography for penetrating neck injury: a prospective multicenter study. *J Trauma Acute Care Surg*. 2012;72\(3\):576-804. \[PMID: 22491539\]](#)

Personal Protective Equipment in a Pandemic

- ★ [Center for Disease Control and Prevention. Interim Infection Prevention and Control Recommendations for Healthcare Personnel During the Coronavirus Disease 2019 \(COVID-19\) Pandemic. July 2020.](#)

Pneumonia, Ventilator-Associated (Hospital-Acquired)

- [Kalil AC, Metersky ML, Klompas M, et al. Management of adults with hospital-acquired and ventilator-associated pneumonia: 2016 clinical practice guidelines by the Infectious Disease Society of America and the American Thoracic Society. *Clin Infect Dis*. 2016;63\(5\):e61-e111. \[PMID: 27418577\]](#)



2020 Surgical Critical Care: Key References

- Martin-Loeches I, Rodriguez AH, Torres A. New guidelines for hospital-acquired pneumonia/ventilator-associated pneumonia: USA vs. Europe. *Curr Opin Crit Care*. 2018;24(5):347-352.
[PMID: 30063491]

Post-Cardiac Surgery, Early Management

- ★ [Society of Thoracic Surgeons Task Force on Resuscitation After Cardiac Surgery. The Society of Thoracic Surgeons expert consensus for the resuscitation of patients who arrest after cardiac surgery. *Ann Thoracic Surgery*. 2017;103\(3\):1005-1020.](#)
[PMID: 28122680]

Priorities in the Use of Critical Care Resources

- ★ [Daugherty Biddison EL, Faden R, Gwon HS, et al. Too many patients...a framework to guide statewide allocation of scarce mechanical ventilation during disasters. *Chest*. 2019;155\(4\):848-854.](#)
[PMID: 30316913]

Pulmonary Edema

- ★ [Davison DL, Terek M, Chawla LS. Neurogenic pulmonary edema. *Crit Care*. 2012;16\(2\):212.](#)
[PMID: 22429697]

Pulmonary Embolism

- ★ [Kearon C, Akl EA, Ornelas J, et al. Antithrombotic therapy for VTE disease: CHEST Guideline and Expert Panel Report. *Chest*. 2016;149\(2\):315-352.](#)
[PMID: 26827832]

Respiratory Failure, Acute

- ★ [Xu X-P, Zhang X-C, Hu S-L, et al. Noninvasive ventilation in acute hypoxemic nonhypercapnic respiratory failure: a systematic review and meta-analysis. *Crit Care Med*. 2017;45\(7\):e727-e733.](#)
[PMID: 28441237]

Respiratory Monitoring (Pressures and Compliance Resistance)

- ★ [Brochard L, Martin GS, Blanch L, et al. Clinical review: respiratory monitoring in the ICU - a consensus of 16. *Crit Care*. 2012;16\(2\):219.](#)
[PMID: 22546221]



2020 Surgical Critical Care: Key References

Renal Failure

- Barbar SD, Dargent A, Quenot J-P. Timing of renal-replacement therapy in acute kidney injury and sepsis. *N Engl J Med*. 2019;380(4):399.
[PMID: 30673539]

Septic Shock

- ★ [Annane D, Renault A, Brun-Buisson C, et al. Hydrocortisone plus fludrocortisone for adults with septic shock. *N Engl J Med*. 2018;378\(9\):809-818.](#)
[PMID: 29490185]
- ★ [Rhodes A, Evans LE, Alhazzani W, et al. Surviving Sepsis Campaign: international guidelines for management of sepsis and septic shock: 2016. *Intensive Care Med*. 2017;43\(3\):304-377.](#)
[PMID: 28101605]
- ★ [Cecconi M, De Backer D, Antonelli M, et al. Consensus on circulatory shock and hemodynamic monitoring. Task force of the European Society of Intensive Care Medicine. *Intensive Care Med*. 2014;40\(12\):1795-1815.](#)
[PMID: 25392034]

Serum Osmolarity and Electrolytes

- ★ [Braun MM, Barstow CH, Pyzocha NJ. Diagnosis and management of sodium disorders: hyponatremia and hypernatremia. *Am Fam Physician*. 2015;91\(5\):299-307.](#)
[PMID: 25822386]

Traumatic Brain Injury – Intracranial Pressure Monitoring

- ★ [Hawryluk GWJ, Aguilera S, Buki A, et al. A management algorithm for patients with intracranial pressure monitoring: the Seattle International Severe Traumatic Brain Injury Consensus Conference \(SIBICC\). *Intensive Care Med*. 2019;45\(12\):1783-1794.](#)
[PMID: 31659383]

Vasopressor and Vasodilator

- ★ [van Diepen S, Katz JN, Albert NM, et al. Contemporary management of cardiogenic shock: a scientific statement from the American Heart Association. *Circulation*. 2017;136\(16\):e232-e268.](#)
[PMID: 28923988]