



# 2021 Surgical Critical Care: Key References

Below you will find the topics and their accompanying references for the 2021 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 for the Surgical Critical Care Assessment, see [this PDF](#).

## Biostatistics:

- ★ [Chatellier G, Zapletal E, Lemaitre D, Menard J, Degoulet P. The number needed to treat: a clinically useful nomogram in its proper context \[published correction appears in \*BMJ\* 1996 Mar 2;312\(7030\):563\]. \*BMJ\*. 1996;312\(7028\):426-429.](#)  
[PMID: 8601116]

## Burns and Smoke Inhalation Injuries:

- 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]

## Cardiac Arrest:

- ★ [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 Surgery, Early Postoperative 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]

## Cardiac Wounds:

- Gonzalez-Hadad A, García AF, Serna JJ, Herrera MA, Morales M, Manzano-Nunez R. The role of ultrasound for detecting occult penetrating cardiac wounds in hemodynamically stable patients. *World J Surg*. 2020;44(5):1673-1680.  
[PMID: 31933039]



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## Cardiogenic Shock:

- ★ [Amin HZ, Amin LZ, Pradipta A. Takotsubo Cardiomyopathy: A Brief Review. \*J Med Life\*. 2020;13\(1\):3-7.](#)  
[PMID: 32341693]

## ECMO:

- ★ [Zonies D, Codner P, Park P, et al. AAST Critical Care Committee clinical consensus: ECMO, nutrition. \*Trauma Surg Acute Care Open\*. 2019;4\(1\):e000304. Published 2019 Apr 3.](#)  
[PMID: 31058243]
- ★ [Combes A, Peek GJ, Hajage D, et al. ECMO for severe ARDS: systematic review and individual patient data meta-analysis. \*Intensive Care Med\*. 2020;46\(11\):2048-2057.](#)  
[PMID: 33021684]

## Electrolyte Disorders:

- ★ [Seay NW, Lehrich RW, Greenberg A. Diagnosis and Management of Disorders of Body Tonicity-Hyponatremia and Hypernatremia: Core Curriculum 2020. \*Am J Kidney Dis\*. 2020;75\(2\):272-286.](#)  
[PMID: 31606238]

## Gastrointestinal Bleeding, Lower:

- ★ [Wells ML, Hansel SL, Bruining DH, et al. CT for evaluation of acute gastrointestinal bleeding. \*Radiographics\*. 2018;38\(4\):1089-1107.](#)  
[PMID: 29883267]

## Gastrointestinal Bleeding, Upper:

- ★ [Zanetto A, Garcia-Tsao G. Management of acute variceal hemorrhage. \*F1000Res\*. 2019;8:F1000 Faculty Rev-966. Published 2019 Jun 25.](#)  
[PMID: 31281637]

## Hemolytic Disorders, Acute:

- ★ [O'Donnell JS, Lavin M. Perioperative management of patients with von Willebrand disease. \*Hematology Am Soc Hematol Educ Program\*. 2019;2019\(1\):604-609.](#)  
[PMID: 31808837]



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## Infectious Diseases:

- ★ [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. \[PMID: 27418577\]](#)
- ★ [Sawyer RG, Claridge JA, Nathens AB, et al. Trial of short-course antimicrobial therapy for intraabdominal infection \[published correction appears in \*N Engl J Med\*. 2018 Jan 25;:null\]. \*N Engl J Med\*. 2015;372\(21\):1996-2005. \[PMID: 25992746\]](#)
- ★ [Infectious Diseases Society of America Guidance on the Treatment of Antimicrobial Resistant Gram-Negative 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. \[PMID: 25500709\]](#)

## Monitoring, Brain:

- ★ [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. \[PMID: 31659383\]](#)

## Monitoring, Hemodynamic:

- ★ [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. \[PMID: 28101605\]](#)
- ★ [Pulmonary artery catheter. \*Radiology Case\*.](#)
- ★ [Teboul JL, Monnet X, Chemla D, Michard F. Arterial pulse pressure variation with mechanical ventilation. \*Am J Respir Crit Care Med\*. 2019;199\(1\):22-31. \[PMID: 30138573\]](#)

## Monitoring, Respiratory:

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



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## Nutritional Requirements:

- ★ [Moonen HPFX, Beckers KJH, van Zanten ARH. Energy expenditure and indirect calorimetry in critical illness and convalescence: current evidence and practical considerations. \*J Intensive Care\*. 2021;9\(1\):8. Published 2021 Jan 12.](#)  
[PMID: 33436084]

## Organ Transplantation and Donation:

- Steinbrook R. Organ donation after cardiac death. *N Engl J Med*. 2007;357(3):209-213.  
[PMID: 17634455]
- ★ [Patel MS, Zatarain J, De La Cruz S, et al. The impact of meeting donor management goals on the number of organs transplanted per expanded criteria donor: a prospective study from the UNOS Region 5 Donor Management Goals Workgroup. \*JAMA Surg\*. 2014;149\(9\):969-975.](#)  
[PMID: 25054379]

## 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\(9\):e825-e873.](#)  
[PMID: 30113371]
- ★ [Losing AK, Jones JM, Keric A, Briggs SE, Leedah DD. Ketamine Infusion Therapy as an Alternative Pain Control Strategy in Patients with Multi-Trauma including Rib Fracture; Case Report and Literature Review. \*Bull Emerg Trauma\*. 2016;4\(3\):165-169.](#)  
[PMID: 27540552]

## Patient Rights:

- ★ [Gillon R. Where respect for autonomy is not the answer. \*Br Med J \(Clin Res Ed\)\*. 1986;292\(6512\):48-49.](#)  
[PMID: 3080063]

## Patient Safety and Systems of Care:

- ★ [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.](#)
- ★ [Silver SA, Harel Z, McQuillan R, et al. How to begin a quality improvement project. \*Clin J Am Soc Nephrol\*. 2016;11\(5\):893-900.](#)  
[PMID: 27016497]



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## Pharmacokinetics:

- Smith BS, Yogaratnam D, Levasseur-Franklin KE, Forni A, Fong J. Introduction to drug pharmacokinetics in the critically ill patient. *Chest*. 2012;141(5):1327-1336. [[PMID: 22553267](#)]

## Physical Rehabilitation of the Critically Ill:

- Mayer KP, Joseph-Isang E, Robinson LE, Parry SM, Morris PE, Neyra JA. Safety and Feasibility of Physical Rehabilitation and Active Mobilization in Patients Requiring Continuous Renal Replacement Therapy: A Systematic Review. *Crit Care Med*. 2020;48(11):e1112-e1120. [[PMID: 33001619](#)]

## Prognostic Indices and Severity Scores:

- ★ [Singer M, Deutschman CS, Seymour CW, et al. The third international consensus definitions for sepsis and septic shock \(Sepsis-3\). \*JAMA\*. 2016;315\(8\):801-810.](#) [[PMID: 26903338](#)]

## Respiratory Failure, Acute:

- ★ [Chao TN, Harbison SP, Braslow BM, et al. Outcomes After Tracheostomy in COVID-19 Patients. \*Ann Surg\*. 2020;272\(3\):e181-e186.](#) [[PMID: 32541213](#)]

## Respiratory Failure:

- ★ [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](#)]

## 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. \*Crit Care Med\*. 2017;45\(3\):486-552.](#) [[PMID: 28101605](#)]



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## Traumatic Brain Injury:

- ★ [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]

## Vascular Access:

- ★ [Blasi A. Coagulopathy in liver disease: Lack of an assessment tool. \*World J Gastroenterol.\* 2015;21\(35\):10062-10071.](#)  
[PMID: 26401071]

## Ventilation, Mechanical:

- ★ [De Santis Santiago R, Teggia Droghi M, Fumagalli J, et al. High Pleural Pressure Prevents Alveolar Overdistension and Hemodynamic Collapse in ARDS with Class III Obesity \[published online ahead of print, 2020 Sep 2\]. \*Am J Respir Crit Care Med.\* 2020;203\(5\):575-584.](#)  
[PMID: 32876469]
- ★ [Fan E, Del Sorbo L, Goligher EC, et al. An official American Thoracic Society/European Society of Intensive Care Medicine/Society of Critical Care Medicine clinical practice guideline: mechanical ventilation in adult patients with acute respiratory distress syndrome \[published correction appears in \*Am J Respir Crit Care Med.\* 2017 Jun 1;195\(11\):1540\]. \*Am J Respir Crit Care Med.\* 2017;195\(9\):1253-1263.](#)  
[PMID: 28459336]
- ★ [Girard TD, Alhazzani W, Kress JP, et al. An official American Thoracic Society/American College of Chest Physicians clinical practice guideline: liberation from mechanical ventilation in critically ill adults. rehabilitation protocols, ventilator liberation protocols, and cuff leak tests. \*Am J Respir Crit Care Med.\* 2017;195\(1\):120-133.](#)  
[PMID: 27762595]