

## **SCCM 51<sup>st</sup> Critical Care Congress 2022 Surgery Section Year in Review Bibliography**

### **SCCM 51<sup>st</sup> Critical Care Congress 2022 Surgery Section Year in Review -Surgical Critical Care Presenter: Nicole Siparsky, MD, FACS Wednesday April 20, 2022 Virtual Presentation**

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#### **Sepsis**

1. Kyriazopoulou, E., et al., Procalcitonin to Reduce Long-Term Infection-associated Adverse Events in Sepsis. A Randomized Trial. *Am J Respir Crit Care Med*, 2021. 203(2): p. 202-210 **{32757963}**.
2. Alhazzani, W., et al., Surviving Sepsis Campaign Guidelines on the Management of Adults With Coronavirus Disease 2019 (COVID-19) in the ICU: First Update. *Crit Care Med*, 2021. 49(3): p. e219-e234 **{33555780}**.
3. Bravata, D.M., et al., Association of Intensive Care Unit Patient Load and Demand With Mortality Rates in US Department of Veterans Affairs Hospitals During the COVID-19 Pandemic. *JAMA Netw Open*, 2021. 4(1): p. e2034266 **{33464319}**.
4. Dankiewicz, J., et al., Hypothermia versus Normothermia after Out-of-Hospital Cardiac Arrest. *N Engl J Med*, 2021. 384(24): p. 2283-2294 **{34133859}**.

#### **COVID-19**

5. Goligher, E.C., et al., Therapeutic Anticoagulation with Heparin in Critically Ill Patients with Covid-19. *N Engl J Med*, 2021. 385(9): p. 777-789 **{34351722}**.
6. Horby, P., et al., Dexamethasone in Hospitalized Patients with Covid-19. *N Engl J Med*, 2021. 384(8): p. 693-704 **{32678530}**.
7. Dagan, N., et al., BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Mass Vaccination Setting. *N Engl J Med*, 2021. 384(15): p. 1412-1423 **{33626250}**.

#### **Outcomes of surgical patients with COVID-19**

8. Carrier, F.M., et al., Postoperative outcomes in surgical COVID-19 patients: a multicenter cohort study. *BMC Anesthesiol*, 2021. 21(1): p. 15 **{33435887}**.
9. Osorio, J., et al., Analysis of outcomes of emergency general and gastrointestinal surgery during the COVID-19 pandemic. *Br J Surg*, 2021. 108(12): p. 1438-1447 **{34535796}**.
10. Kaufman, E.J., et al., The impact of COVID-19 infection on outcomes after injury in a state trauma system. *J Trauma Acute Care Surg*, 2021. 91(3): p. 559-565 **{34074996}**.
11. Knisely, A., et al., Perioperative Morbidity and Mortality of Patients With COVID-19 Who Undergo Urgent and Emergent Surgical Procedures. *Ann Surg*, 2021. 273(1): p. 34-40 **{33074900}**.
12. Pereira, M.R., et al., Outcomes of COVID-19 in solid organ transplant recipients: A matched cohort study. *Transpl Infect Dis*, 2021. 23(4): p. e13637 **{33993630}**.

#### **Multi-organ dysfunction**

13. Moskowitz, A., et al., Effect of Ascorbic Acid, Corticosteroids, and Thiamine on Organ Injury in Septic Shock: The ACTS Randomized Clinical Trial. *Jama*, 2020. 324(7): p. 642-650 **{32809003}**.
14. Gelissen, H., et al., Effect of Low-Normal vs High-Normal Oxygenation Targets on Organ Dysfunction in Critically Ill Patients: A Randomized Clinical Trial. *Jama*, 2021. 326(10): p. 940-948 **{34463696}**.
15. Li, S.R., et al., Early Prehospital Tranexamic Acid Following Injury Is Associated With a 30-day Survival Benefit: A Secondary Analysis of a Randomized Clinical Trial. *Ann Surg*, 2021. 274(3): p. 419-426 **{34132695}**.
16. Al-Leswas, D., et al., Intravenous omega-3 fatty acids are associated with better clinical outcome and less inflammation in patients with predicted severe acute pancreatitis: A randomised double blind controlled trial. *Clin Nutr*, 2020. 39(9): p. 2711-2719 **{32921364}**.

#### **Abdominal Catastrophe**

17. Willms, A.G., et al., The Significance of Visceral Protection in Preventing Enteroatmospheric Fistulae During Open Abdomen Treatment in Patients With Secondary Peritonitis: A Propensity Score-matched Case-control Analysis. *Ann Surg*, 2021. 273(6): p. 1182-1188 **{31318792}**.

#### **Nutrition**

18. Zhao, X., et al., Evaluation of Nutrition Risk and Its Association With Mortality Risk in Severely and Critically Ill COVID-19 Patients. *JPEN J Parenter Enteral Nutr*, 2021. 45(1): p. 32-42 {32613660}.
19. Sabino, K.M., et al., Safety and Tolerance of Enteral Nutrition in the Medical and Surgical Intensive Care Unit Patient Receiving Vasopressors. *Nutr Clin Pract*, 2021. 36(1): p. 192-200 {32643840}.

#### **Hemodynamics/monitoring**

20. Duchesne, J., et al., Single Institution Trial Comparing Whole Blood vs Balanced Component Therapy: 50 Years Later. *J Am Coll Surg*, 2021. 232(4): p. 433-442 {33348017}.
21. Zimmerman, J.J., et al., Choosing Wisely For Critical Care: The Next Five. *Crit Care Med*, 2021. 49(3): p. 472-481 {33555779}.
22. Adelman, M.W., et al., Critical Care Management of the Patient with *Clostridioides difficile*. *Crit Care Med*, 2021. 49(1): p. 127-139 {33156122}.
23. Evans, L., et al., Surviving sepsis campaign: international guidelines for management of sepsis and septic shock 2021. *Intensive Care Med*, 2021. 47(11): p. 1181-1247 {34599691}.

#### **Adrenal insufficiency**

24. Thompson, K.J., et al., Long-term costs and cost-effectiveness of adjunctive corticosteroids for patients with septic shock in New Zealand. *Aust Crit Care*, 2021 {34325975}.
25. Van den Berghe, G., Adrenal function/dysfunction in critically ill patients: a concise narrative review of recent novel insights. *J Anesth*, 2021. 35(6): p. 903-910 {34302540}.
26. Yau, M., et al., Perioperative stress dose steroid management of children with classical congenital adrenal hyperplasia: Too much or too little? *J Pediatr Urol*, 2021. 17(5): p. 654.e1-654.e6 {34266748}.
27. Huang, C.S., et al., A call for standardization: Practice patterns and management of critical illness-related corticosteroid insufficiency in surgical intensive care units. *Injury*, 2021. 52(9): p. 2522-2525 {34158159}.
28. Sahebnaag, A., et al., Efficacy of Glucocorticoid Administration in Patients with Cardiac Arrest: A Systematic Review of Clinical Studies. *Curr Med Chem*, 2022. 29(1): p. 136-151 {34060997}.

#### **Acute renal failure/dialysis**

29. Naorungroj, T., et al., Time to Initiation of Renal Replacement Therapy Among Critically Ill Patients With Acute Kidney Injury: A Current Systematic Review and Meta-Analysis. *Crit Care Med*, 2021. 49(8): p. e781-e792 {33861550}.
30. Sul, Y.H., et al., Risk factors for acute kidney injury in critically ill patients with torso injury: A retrospective observational single-center study. *Medicine (Baltimore)*, 2021. 100(29): p. e26723 {34398045}.
31. Shawwa, K., et al., New-onset atrial fibrillation in patients with acute kidney injury on continuous renal replacement therapy. *J Crit Care*, 2021. 62: p. 157-163 {33383309}.
32. Liu, J., et al., Predicting mortality of patients with acute kidney injury in the ICU using XGBoost model. *PLoS One*, 2021. 16(2): p. e0246306 {33539390}.
33. Gupta, S., et al., AKI Treated with Renal Replacement Therapy in Critically Ill Patients with COVID-19. *J Am Soc Nephrol*, 2021. 32(1): p. 161-176 {33067383}.
34. Fisher, R., et al., Provision of acute renal replacement therapy, using three separate modalities, in critically ill patients during the COVID-19 pandemic. An after action review from a UK tertiary critical care centre. *J Crit Care*, 2021. 62: p. 190-196 {33422809}.

#### **Acute heart failure/cardiac support**

35. Santos M, Paula S, Santos H, et al. Acute heart failure: Is ACTION-ICU useful? *European Journal of Preventive Cardiology*. 2021;28(1). { xxxxxxxx }
36. Park, C.S., et al., Response to beta-blockers and natriuretic peptide level in acute heart failure: analysis of data from the Korean acute heart failure registry. *Clin Res Cardiol*, 2021. 110(9): p. 1392-1403 {32588127}.
37. Jin, Y., S. Wei, and L. Yao, Diagnostic performance of miR-214, BNP, NT-proBNP and soluble ST2 in acute heart failure. *Int J Clin Pract*, 2021. 75(10): p. e14643 {34310833}.

#### **Post intensive care unit syndrome (PICUS)**

38. Yao, L., et al., Incidence and influencing factors of post-intensive care cognitive impairment. *Intensive Crit Care Nurs*, 2021. 67: p. 103106 {34246526}.
39. Peach, B.C., M. Valenti, and M.L. Sole, A Call for the World Health Organization to Create International Classification of Disease Diagnostic Codes for Post-Intensive Care Syndrome in the Age of COVID-19. *World Med Health Policy*, 2021 {33821196}.
40. Nakanishi, N., et al., Urinary Titin N-Fragment as a Biomarker of Muscle Atrophy, Intensive Care Unit-Acquired Weakness, and Possible Application for Post-Intensive Care Syndrome. *J Clin Med*, 2021. 10(4) {33561946}.

41. Lu, Y., et al., Early Intensified Rehabilitation Training with Hyperbaric Oxygen Therapy Improves Functional Disorders and Prognosis of Patients with Traumatic Brain Injury. *Adv Wound Care (New Rochelle)*, 2021. 10(12): p. 663-670 {34546088}.
42. Hodgson, C.L., et al., Ten strategies to optimize early mobilization and rehabilitation in intensive care. *Crit Care*, 2021. 25(1): p. 324 {34479621}.
43. Flaws, D.F., et al., A protocol for tracking outcomes post intensive care. *Nurs Crit Care*, 2021 {33609311}.
44. Morgan, A., Long-term outcomes from critical care. *Surgery (Oxf)*, 2021. 39(1): p. 53-57 {33519011}.

#### **Venous Thromboembolism (VTE)**

45. Verhamme, P., et al., Abrelacimab for Prevention of Venous Thromboembolism. *N Engl J Med*, 2021. 385(7): p. 609-617 {34297496}.
46. Rahbar, E., et al., Acquired antithrombin deficiency is a risk factor for venous thromboembolism after major trauma. *Thromb Res*, 2021. 204: p. 9-12 {34091120}.
47. Kay, A.B., et al., Trauma patients at risk for venous thromboembolism who undergo routine duplex ultrasound screening experience fewer pulmonary emboli: A prospective randomized trial. *J Trauma Acute Care Surg*, 2021. 90(5): p. 787-796 {33560104}.

#### **Transfusion/Fluid therapy**

48. Zampieri, F.G., et al., Effect of Slower vs Faster Intravenous Fluid Bolus Rates on Mortality in Critically Ill Patients: The BaSICS Randomized Clinical Trial. *Jama*, 2021. 326(9): p. 830-838 {34547081}.
49. Zampieri, F.G., et al., Effect of Intravenous Fluid Treatment With a Balanced Solution vs 0.9% Saline Solution on Mortality in Critically Ill Patients: The BaSICS Randomized Clinical Trial. *Jama*, 2021. 326(9): p. 1-12 {34375394}.
50. Péju, E., et al., Impact of Blood Product Transfusions on the Risk of ICU-Acquired Infections in Septic Shock. *Crit Care Med*, 2021. 49(6): p. 912-922 {33591005}.
51. Ladhani, H.A., et al., Dose-dependent association between blood transfusion and nosocomial infections in trauma patients: A secondary analysis of patients from the PAMPer trial. *J Trauma Acute Care Surg*, 2021. 91(2): p. 272-278 {34397951}.
52. Cata, J., et al., International multicentre observational study to evaluate the association between perioperative red blood cell transfusions and 1-year mortality after major cancer surgery (ARCA-1): study design, statistical analysis plan and study protocol. *BMJ Open*, 2021. 11(3): p. e043453 {33737431}.
53. Bodley, T., et al., Patient harm associated with serial phlebotomy and blood waste in the intensive care unit: A retrospective cohort study. *PLoS One*, 2021. 16(1): p. e0243782 {33439871}.

#### **Extracorporeal Membrane Oxygenation (ECMO)**

54. Lorusso, R., et al., 2020 EACTS/ELSO/STS/AATS expert consensus on post-cardiotomy extracorporeal life support in adult patients. *Eur J Cardiothorac Surg*, 2021. 59(1): p. 12-53 {33026084}.
55. Guliani, S., et al., Venoarterial extracorporeal membrane oxygenation is an effective management strategy for massive pulmonary embolism patients. *J Vasc Surg Venous Lymphat Disord*, 2021. 9(2): p. 307-314 {32505687}.
56. Kon, Z.N., et al., Extracorporeal Membrane Oxygenation Support in Severe COVID-19. *Ann Thorac Surg*, 2021. 111(2): p. 537-543 {32687823}.

### **SCCM 51<sup>st</sup> Critical Care Congress 2022 Surgery Section Year in Review**

#### **Emergency General Surgery Presenter: Niels D. Martin, MD, FACS, FCCM Wednesday April 20, 2022 Virtual Presentation**

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#### **Appendicitis Management**

1. O'Leary, D.P., et al., A Randomized Clinical Trial Evaluating the Efficacy and Quality of Life of Antibiotic-only Treatment of Acute Uncomplicated Appendicitis: Results of the COMMA Trial. *Ann Surg*, 2021. 274(2): p. 240-247 {33534226}.
2. Chehab, M., et al., Managing acute uncomplicated appendicitis in frail geriatric patients: A second hit may be too much. *J Trauma Acute Care Surg*, 2021. 90(3): p. 501-506 {33617197}.

#### **Biliary / Pancreatic**

3. Bass, G.A., et al., Bile duct clearance and cholecystectomy for choledocholithiasis: Definitive single-stage laparoscopic cholecystectomy with intraoperative endoscopic retrograde cholangiopancreatography versus staged procedures. *J Trauma Acute Care Surg*, 2021. 90(2): p. 240-248 {33075026}.
4. Isbell, K.D., et al., Impact of Early Cholecystectomy on the Cost of Treating Mild Gallstone Pancreatitis: Gallstone PANC Trial. *J Am Coll Surg*, 2021. 233(4): p. 517-525.e1 {34325019}.

5. Ramírez-Maldonado, E., et al., Immediate Oral Refeeding in Patients With Mild and Moderate Acute Pancreatitis: A Multicenter, Randomized Controlled Trial (PADI trial). *Ann Surg*, 2021. 274(2): p. 255-263 **{33196485}**.
6. Woodward, S.G., et al., Finding the Most Favorable Timing for Cholecystectomy after Percutaneous Cholecystostomy Tube Placement: An Analysis of Institutional and National Data. *J Am Coll Surg*, 2021. 232(1): p. 55-64 **{33098966}**.
7. Tracy, B.M., et al., Outcomes of same admission cholecystectomy and endoscopic retrograde cholangiopancreatography for common bile duct stones: A post hoc analysis of an Eastern Association for the Surgery of Trauma multicenter study. *J Trauma Acute Care Surg*, 2021. 90(4): p. 673-679 **{33405473}**.
8. Krecko, L.K., et al., Postoperative Outcomes after Index vs Interval Cholecystectomy for Perforated Cholecystitis. *J Am Coll Surg*, 2021. 232(4): p. 344-349 **{33482322}**.
9. Kuhlenschmidt, K., et al., Fast track pathway provides safe, value based care on busy acute care surgery service. *J Trauma Acute Care Surg*, 2021. 90(3): p. 415-420 **{33306603}**.
10. Tracy, B.M., et al., The effect of prolonged antibiotics on postoperative complications for common bile duct stones: A post hoc analysis of an EAST multicenter study. *J Trauma Acute Care Surg*, 2021. 91(1): p. 234-240 **{34144566}**.

#### **Bleeding in Acute Care Surgery**

11. Heyns, M., et al., A Single Preoperative Dose of Tranexamic Acid Reduces Perioperative Blood Loss: A Meta-analysis. *Ann Surg*, 2021. 273(1): p. 75-81 **{32224739}**.

#### **COVID-19 & Surgery**

12. Timing of surgery following SARS-CoV-2 infection: an international prospective cohort study. *Anaesthesia*, 2021. 76(6): p. 748-758 **{33690889}**.

#### **SBO Management**

13. Guerrini, J., et al., Adhesive small bowel obstruction: Single band or matted adhesions? A predictive model based on computed tomography scan. *J Trauma Acute Care Surg*, 2021. 90(6): p. 917-923 **{33797496}**.
14. Cohen, R.B., et al., Timing of Gastrografin administration in the management of adhesive small bowel obstruction (ASBO): Does it matter? *Surgery*, 2021. 170(2): p. 596-602 **{33836900}**.
15. Mahony, C.R., et al., Small bowel obstruction managed without hospital admission: A safe way to reduce both cost and time in the hospital? *Surgery*, 2021 **{34815095}**.

#### **Tracheostomy / Airway Management**

16. Hynes, A.M., et al., A surgical needs assessment for airway rapid responses: A retrospective observational study. *J Trauma Acute Care Surg*, 2022. 92(1): p. 126-134 **{34252060}**.
17. Chorath, K., et al., Association of Early vs Late Tracheostomy Placement With Pneumonia and Ventilator Days in Critically Ill Patients: A Meta-analysis. *JAMA Otolaryngol Head Neck Surg*, 2021. 147(5): p. 450-459 **{33704354}**.

#### **Predictors of Outcome / Frailty**

18. AlSowaiegh, R., et al., The Emergency Surgery Score is a powerful predictor of outcomes across multiple surgical specialties: Results of a retrospective nationwide analysis. *Surgery*, 2021. 170(5): p. 1501-1507 **{34176601}**.
19. Kongkaewpaisan, N., et al., Unplanned readmission after emergency laparotomy: A post hoc analysis of an EAST multicenter study. *Surgery*, 2021. 169(6): p. 1434-1440 **{33431187}**.
20. Owodunni, O.P., et al., Preoperative Frailty Assessment, Operative Severity Score, and Early Postoperative Loss of Independence in Surgical Patients Age 65 Years or Older. *J Am Coll Surg*, 2021. 232(4): p. 387-395 **{33385567}**.
21. George, E.L., et al., Association Between Patient Frailty and Postoperative Mortality Across Multiple Noncardiac Surgical Specialties. *JAMA Surg*, 2021. 156(1): p. e205152 **{33206156}**.
22. Guttman, M.P., et al., Long-term survival in high-risk older adults following emergency general surgery admission. *J Trauma Acute Care Surg*, 2021. 91(4): p. 634-640 **{34252059}**.

#### **Guidelines / Pathways / Processes**

23. Kushner, B.S., et al., Reducing Operating Room Cost: Comparing Attending and Surgical Trainee Perceptions About the Implementation of Supply Receipts. *J Am Coll Surg*, 2021. 233(6): p. 710-721 **{34530125}**.
24. Dumitra, T., et al., Association Between Patient Activation and Health Care Utilization After Thoracic and Abdominal Surgery. *JAMA Surg*, 2021. 156(1): p. e205002 **{33146682}**.
25. Sartelli, M., et al., World Society of Emergency Surgery-American Association for the Surgery of Trauma Guidelines for management of Clostridioides (Clostridium) difficile infection in surgical patients: An executive summary. *J Trauma Acute Care Surg*, 2021. 91(2): p. 422-426 **{33783420}**.

#### **Surgical Disparities**

26. Best, M.J., et al., Racial Disparities in the Use of Surgical Procedures in the US. *JAMA Surg*, 2021. 156(3): p. 274-281 **{33439237}**.

#### **Wellness**

27. Cohen, T.N., et al., Assessment of Emotional Outcomes of Intraoperative Death on Surgical Team Members. *JAMA Surg*, 2021. 156(7): p. 683-685 **{33909005}**.

## **SCCM 51<sup>st</sup> Critical Care Congress 2022 SCCM Surgery Section Year in Review – Trauma**

**Presenter: Deborah A. Kuhls, MD, FACS, FCCM, FRCST (Hon) Wednesday April 20, 2022 Virtual Presentation**

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### **COVID Impact on Trauma**

1. Kaufman, E.J., et al., The impact of COVID-19 infection on outcomes after injury in a state trauma system. J Trauma Acute Care Surg, 2021. 91(3): p. 559-565 **{34074996}**.
2. Kovler, M.L., et al., Increased proportion of physical child abuse injuries at a level I pediatric trauma center during the Covid-19 pandemic. Child Abuse Negl, 2021. 116(Pt 2): p. 104756 **{33004213}**.
3. Salottolo, K., et al., Multicenter study of US trauma centers examining the effect of the COVID-19 pandemic on injury causes, diagnoses and procedures. Trauma Surg Acute Care Open, 2021. 6(1): p. e000655 **{33884307}**.
4. Sanford, E. L., Zagory, J., Blackwell, J. -, Szmuk, P., Ryan, M., & Ambardekar, A. (2021). Changes in pediatric trauma during COVID-19 stay-at-home epoch at a tertiary pediatric hospital. Journal of Pediatric Surgery, 56(5), 918-922. doi:10.1016/j.jpedsurg.202185. **{xxxxxxxx}**
5. Sephton, B.M., et al., The effect of COVID-19 on a Major Trauma Network. An analysis of mechanism of injury pattern, referral load and operative case-mix. Injury, 2021. 52(3): p. 395-401 **{33627252}**.
6. Staunton, P., et al., Regional trauma patterns during the COVID-19 pandemic. Surgeon, 2021. 19(2): p. e49-e52 **{32893129}**.
7. Yeates, E.O., et al., Changes in traumatic mechanisms of injury in Southern California related to COVID-19: Penetrating trauma as a second pandemic. J Trauma Acute Care Surg, 2021. 90(4): p. 714-721 **{33395031}**.

### **Social Determinants of Health and Trauma**

8. Aboutanos, M.B., et al., Critical call for hospital-based domestic violence intervention: The Davis Challenge. J Trauma Acute Care Surg, 2019. 87(5): p. 1197-1204 **{31343600}**.
9. Bonne, S., & Dicker, R. A. (2020). Hospital-based violence intervention programs to address social determinants of health and violence. Current Trauma Reports, 6(1), 23-28. doi:10.1007/s40719-020-00184 **{xxxxxxxx}**
10. Borthwell, R.M., et al., Recovery of Pediatric Patients After Firearm Injury: Can Health Systems Do More? Am Surg, 2021. 87(10): p. 1644-1650 **{34132616}**.
11. Boutros, M.L., et al., Area Deprivation Index Score is Associated with Lower Rates of Long Term Follow-up after Upper Extremity Vascular Injuries. Ann Vasc Surg, 2021. 75: p. 102-108 **{33910047}**.
12. Dicker, R.A., et al., Strategies for Trauma Centers to Address the Root Causes of Violence: Recommendations from the Improving Social Determinants to Attenuate Violence (ISAVE) Workgroup of the American College of Surgeons Committee on Trauma. J Am Coll Surg, 2021. 233(3): p. 471-478.e1 **{34339811}**.
13. Dicker, R., & Juillard, C. (2020). Hospital-based interventions to reduce violence and recidivism: Wraparound programs. Violence, trauma, and trauma surgery: Ethical issues, interventions, and innovations (pp. 3-15) doi:10.1007/978-3-030-31246-6\_1 **{xxxxxxxx}**
14. Duncan, T.K., et al., American Association for the Surgery of Trauma Prevention Committee review: Family Justice Centers-a not-so-novel, but unknown gem. Trauma Surg Acute Care Open, 2021. 6(1): p. e000725 **{34179511}**.
15. Halimeh, B.N., et al., Empowering the affected: Informing community-based solutions through interviews with survivors of interpersonal firearm violence-Perspectives of survivors of firearm injuries. J Trauma Acute Care Surg, 2021. 90(6): p. 980-986 **{34016921}**.
16. Killien, E.Y., et al., Association of Psychosocial Factors and Hospital Complications with Risk for Readmission After Trauma. J Surg Res, 2021. 264: p. 334-345 **{33848832}**.
17. Kool, B. and P. Reid, Implicit racial or ethnic bias in trauma care. Injury, 2019. 50(9): p. 1497-1498 {31301811}.
18. Sullivan, J.E., S. Panjwani, and M.A. Cahan, Influence of Insurance Status on Subdural Hematoma Management: A National Trauma Data Bank Analysis. J Surg Res, 2022. 270: p. 139-144 **{34656891}**.

### **Blood Product Use and Trauma**

19. Chehab, M., et al., Never-frozen liquid plasma transfusion in civilian trauma: a nationwide propensity-matched analysis. J Trauma Acute Care Surg, 2021. 91(1): p. 200-205 **{33605695}**.
20. Coleman, J.R., et al., Whole Blood Thrombin Generation in Severely Injured Patients Requiring Massive Transfusion. J Am Coll Surg, 2021. 232(5): p. 709-716 **{33548446}**.
21. Duchesne, J., et al., Single Institution Trial Comparing Whole Blood vs Balanced Component Therapy: 50 Years Later. J Am Coll Surg, 2021. 232(4): p. 433-442 **{33348017}**.
22. Guyette, F.X., et al., Tranexamic Acid During Prehospital Transport in Patients at Risk for Hemorrhage After Injury: A Double-blind, Placebo-Controlled, Randomized Clinical Trial. JAMA Surg, 2020. 156(1): p. 11-20 **{33016996}**.

21. Hashmi, Z.G., et al., Whole truths but half the blood: Addressing the gap between the evidence and practice of pre-hospital and in-hospital blood product use for trauma resuscitation. *Transfusion*, 2021. 61 Suppl 1: p. S348-s353 **{34086349}**.
22. Leeper, C.M., et al., Adverse events after low titer group O whole blood versus component product transfusion in pediatric trauma patients: A propensity-matched cohort study. *Transfusion*, 2021. 61(9): p. 2621-2628 **{34047385}**.
23. Malkin, M., et al., Effectiveness and safety of whole blood compared to balanced blood components in resuscitation of hemorrhaging trauma patients - A systematic review. *Injury*, 2021. 52(2): p. 182-188 **{33160609}**.
24. Schaefer, R., et al., Operationalizing the Deployment of Low-Titer O-Positive Whole Blood Within a Regional Trauma System. *Mil Med*, 2021. 186(Suppl 1): p. 391-399 **{33499434}**.
25. Shackelford, S.A., et al., Joint Trauma System, Defense Committee on Trauma, and Armed Services Blood Program consensus statement on whole blood. *Transfusion*, 2021. 61 Suppl 1: p. S333-s335 **{34269445}**.
26. Walsh, M., et al., Whole Blood, Fixed Ratio, or Goal-Directed Blood Component Therapy for the Initial Resuscitation of Severely Hemorrhaging Trauma Patients: A Narrative Review. *J Clin Med*, 2021. 10(2) **{33477257}**.
27. Yazer, M.H., et al., Injured recipients of low-titer group O whole blood have similar clinical outcomes compared to recipients of conventional component therapy: A single-center, retrospective study. *Transfusion*, 2021. 61(6): p. 1710-1720 **{33811640}**.
28. Yazer, M.H., et al., Survey of group A plasma and low-titer group O whole blood use in trauma resuscitation at adult civilian level 1 trauma centers in the US. *Transfusion*, 2021. 61(6): p. 1757-1763 **{33797100}**.

### **TXA and Trauma**

29. Al-Jeabory, M., et al., Efficacy and Safety of Tranexamic Acid in Emergency Trauma: A Systematic Review and Meta-Analysis. *J Clin Med*, 2021. 10(5) **{33802254}**.
30. Almuwallad, A., et al., The impact of prehospital TXA on mortality among bleeding trauma patients: A systematic review and meta-analysis. *J Trauma Acute Care Surg*, 2021. 90(5): p. 901-907 **{33605702}**.
31. Baksaas-Aasen, K., et al., Viscoelastic haemostatic assay augmented protocols for major trauma haemorrhage (ITACTIC): a randomized, controlled trial. *Intensive Care Med*, 2021. 47(1): p. 49-59 **{33048195}**.
32. Fair, K.A., et al., Fibrinolytic Activation in Patients with Progressive Intracranial Hemorrhage after Traumatic Brain Injury. *J Neurotrauma*, 2021. 38(8): p. 960-966 **{31382848}**.
33. Guyette, F.X., et al., Tranexamic Acid During Prehospital Transport in Patients at Risk for Hemorrhage After Injury: A Double-blind, Placebo-Controlled, Randomized Clinical Trial. *JAMA Surg*, 2020. 156(1): p. 11-20 **{33016996}**.
34. Imach, S., et al., The impact of prehospital tranexamic acid on mortality and transfusion requirements: match-pair analysis from the nationwide German TraumaRegister DGU®. *Crit Care*, 2021. 25(1): p. 277 **{34348782}**.
35. Matthay, Z.A., et al., Outcomes after ultramassive transfusion in the modern era: An Eastern Association for the Surgery of Trauma multicenter study. *J Trauma Acute Care Surg*, 2021. 91(1): p. 24-33 **{34144557}**.
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