

## Research 2018: Top Patient Blood Management Articles of the Year

Presented by: Steven M. Frank, MD and Jonathan Waters, MD

1. Bilecen S, de Groot JA, Kalkman CJ, Spanjersberg AJ, Brandon Bravo Bruinsma GJ, Moons KG, Nierich AP.  
**Effect of Fibrinogen Concentrate on Intraoperative Blood Loss Among Patients With Intraoperative Bleeding During High-Risk Cardiac Surgery: A Randomized Clinical Trial.**  
JAMA. 2017 Feb 21;317(7):738-747.
2. Moore HB, Moore EE, Chapman MP, McVane K, Bryskiewicz G, Blechar R, Chin T, Burlew CC, Pieracci F, West FB, Fleming CD, Ghasabian A, Chandler J, Silliman CC, Banerjee A, Sauaia A.  
**Plasma-first resuscitation to treat haemorrhagic shock during emergency ground transportation in an urban area: a randomised trial.**  
Lancet. 2018 Jul 28;392(10144):283-291.
3. Sperry JL, Guyette FX, Brown JB, Yazer MH, Triulzi DJ, Early-Young BJ, Adams PW, Daley BJ, Miller RS, Harbrecht BG, Claridge JA, Phelan HA, Witham WR, Putnam AT, Duane TM, Alarcon LH, Callaway CW, Zuckerbraun BS, Neal MD, Rosengart MR, Forsythe RM, Billiar TR, Yealy DM, Peitzman AB, Zenati MS; PAMPer Study Group.  
**Prehospital Plasma during Air Medical Transport in Trauma Patients at Risk for Hemorrhagic Shock.**  
N Engl J Med. 2018 Jul 26;379(4):315-326.
4. Tomaz Mesar, MD, Andreas Larentzakis, MD, PhD, Walter Dzik, MD, Yuchiao Chang, PhD, George Velmahos, MD, PhD, and Daniel Dante Yeh, MD  
**Association Between Ratio of Fresh Frozen Plasma to Red Blood Cells During Massive Transfusion and Survival Among Patients Without Traumatic Injury**  
JAMA Surg. 2017 Jun; 152(6): 574–580.
5. Ben Andrews, MD, Matthew W. Semler, MD, MSc, Levy Muchemwa, MBChB, Paul Kelly, MD, FRCP, Shabir Lakhi, MBChB, Douglas C. Heimburger, MD, MS, Chileshe Mabula, MBChB, Mwangi Bwalya, MBChB, and Gordon R. Bernard  
**Effect of an Early Resuscitation Protocol on In-hospital Mortality Among Adults With Sepsis and Hypotension: A Randomized Clinical Trial**  
JAMA. 2017 Oct 3; 318(13): 1233–1240.
6. Mazer CD1, Whitlock RP, Fergusson DA1, Hall J, Belley-Cote E, Connolly K, Khanykin B1, Gregory AJ1, de Médicis É, McGuinness S1, Royse A, Carrier FM, Young PJ, Villar JC, Grocott HP1, Seeberger MD, Fremes S, Lellouche F, Syed S, Byrne K1, Bagshaw SM, Hwang NC, Mehta C, Painter TW, Royse C, Verma S, Hare GMT, Cohen A, Thorpe KE, Jüni P1, Shehata N; TRICS Investigators and Perioperative Anesthesia Clinical Trials Group.  
**Restrictive or Liberal Red-Cell Transfusion for Cardiac Surgery.**  
N Engl J Med. 2017 Nov 30;377(22):2133-2144.
7. Gayet-Ageron A, Prieto-Merino D, Ker K, Shakur H, Ageron FX, Roberts I; Antifibrinolytic Trials Collaboration.

**Effect of treatment delay on the effectiveness and safety of antifibrinolytics in acute severe haemorrhage: a meta-analysis of individual patient-level data from 40138 bleeding patients.**  
Lancet. 2018 Jan 13;391(10116):125-132.

8. Goel R, Patel EU, Cushing MM, Frank SM, Ness PM, Takemoto CM, Vasovic LV, Sheth S, Nellis ME, Shaz B, Tobian AR.  
**Association of Perioperative Red Blood Cell Transfusions With Venous Thromboembolism in a North American Registry.**  
JAMA Surg. 2018 Jun 13. doi: 10.1001/jamasurg.2018.1565. [Epub ahead of print]
9. Ad N, Holmes SD, Patel J, Shuman DJ, Massimiano PS, Choi E, Fitzgerald D, Halpin L, Fornaresio LM.  
**The impact of a multidisciplinary blood conservation protocol on patient outcomes and cost after cardiac surgery.**  
J Thorac Cardiovasc Surg. 2017 Mar;153(3):597-605.
10. Vossoughi S, Perez G, Whitaker BI, Fung MK, Stotler B,.  
**Analysis of pediatric adverse reactions to transfusions.**  
Transfusion. 2018 Jan;58(1):60-69.