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Education and Training

I received my undergraduate degree in Biology at the Massachusetts Institute of Technology in 1981. I then completed medical school at the University of Pittsburgh School of Medicine in 1985. I stayed in Pittsburgh and completed a general surgery residency in 1993 and a surgical critical care fellowship in 1994 at the University Health Center of Pittsburgh.

Biosketch

I was a faculty member at the University of Pittsburgh from 1994–2014, where I was promoted to Professor with tenure in the Departments of Critical Care Medicine and Surgery in 2009. I served as Director of the Neurotrauma ICU, Director of the Surgical Critical Care and Acute Care Surgery Fellowships, and Director of the Multidisciplinary Critical Care Training Program. I was awarded membership in the University of Pittsburgh School of Medicine Academy of Master Educators.

My research has focused on the management of severe hemorrhagic shock and cardiac arrest, with a special interest in therapeutic hypothermia. Along with Drs. Peter Safar and Pat Kochanek, I have worked on the development of Emergency Preservation and Resuscitation (EPR), a novel approach to the management of the exsanguinating trauma

patient utilizing hypothermia to “buy time” for resuscitative surgery. I am currently conducting a clinical trial of EPR with the RA Cowley Shock Trauma Center as the coordinating center for the study.

Within the Center for Critical Care and Trauma Education, we are expanding the educational programs within the Shock Trauma Center and the University of Maryland Medical System. This includes the development of novel simulation programs to train multi-professional teams in the optimal management of the most critically ill and injured patients. With funding from the Department of Defense, we are also studying trauma surgical skill retention and refresher techniques.

Research/Clinical Keywords

hemorrhagic shock, cardiac arrest, therapeutic hypothermia, education, surgical skill, simulation

Highlighted Publications

Bulger EM, May S, Brasel KJ, Schreiber M, Kerby JD, Tisherman SA, Newgard C, Slutsky A, Coimbra R, Emerson S, Minei JP, Bardarson B, Kudenchuk P, Baker A, Christenson J, Idris A, Davis D, Fabian TC, Aufderheide TP, Callaway C, Williams C, Banek J, Vaillancourt C, van Heest R, Sopko G, Hata JS, Hoyt DB, ROC Investigators: Out-of-hospital hypertonic resuscitation following severe traumatic brain injury: a randomized controlled trial. *JAMA*. 2010;304:1455-64.

Tisherman SA, Alam HB, Chiu WC, Emlet LL, Grossman MD, Luchette FA, Marcolini EG, Mayglothling JA: Surgical critical care training for emergency physicians: Curriculum recommendations. *J Amer Coll Surg*. 2013;217:954-959.

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Schreiber MA, Meier EN, Tisherman SA, Kerby J, Newgard C, Brasel K, Egan D, Witham W, Williams C, Daya M, Beeson J, McCully BH, Wheeler S, Kannas D, May S, McKnight B, Hoyt DB, and the ROC Investigators: A controlled resuscitation strategy is feasible and safe in hypotensive trauma patients: Results of a prospective randomized pilot trial. *J Trauma Acute Care Surg*. 2015;78(4):687-97.

Kutcher ME, Forsythe RM, Tisherman SA: Emergency preservation and resuscitation for cardiac arrest from trauma. *Int J Surg*. 2016;33(Pt B):209-212.

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