

**Friday, October 8th, 2021**  
Noon – 1:00 p.m.

## “Environmental and Physiological States that Alter Hemorrhage Tolerance”

*Presenter:*

**Craig Crandall, Ph.D.**

*Professor - Division of Cardiology, Department of Internal Medicine  
University of Texas Southwestern Medical Center, Dallas, Texas  
Research Scientist - Institute for Exercise and Environmental Medicine  
Texas Health Presbyterian Hospital Dallas, Dallas, Texas*

**Location:** virtual meeting via Microsoft TEAMS

**Join on your computer or mobile device** [Click here to join the meeting](#)

**Or call in (audio only)** 682-273-0674 ; **Conference ID: 714 011 690#**

**Objectives:** Upon completion of this activity, the participants should be able to:

- Examine an experimental model of hemorrhage in humans
- Review the consequences of hot (including dehydration) and cold environment conditions on hemorrhage tolerance
- Review the effects of commonly used pre-hospital analgesics (morphine, ketamine, and fentanyl) on hemorrhage tolerance
- Discuss research findings which are valuable to the multidisciplinary healthcare team in gaining a greater understanding of the consequences of environmental and physiological states that may alter hemorrhage tolerance.

**Program Director:** Brian Tibbs, M.D. FACS, *trauma medical director, Texas Health Presbyterian Hospital Dallas, Dallas, Texas*

**Target Audience:** This interprofessional activity is designed for physicians, nurses and allied health professionals in the following specialties: emergency medicine, surgery (general and trauma), orthopedics, radiology, internal medicine, family medicine and pediatrics

**Format:** Didactic lecture with question and answer session

**Accreditation:**

In support of improving patient care, Texas Health Resources is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.



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**Designation of Credit:**

**Physicians:** The Texas Health Resources designates this live activity for a maximum of 1 *AMA PRA Category 1 Credit*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Nurses:** 1 contact hour will be provided for nursing

**Additional Information:** For more information, please contact the Accreditation Office at [THRJA@texashealth.org](mailto:THRJA@texashealth.org) or visit [www.texashealth.org/CME](http://www.texashealth.org/CME)

*Doctors on the medical staff practice independently and are not employees or agents of the hospital or Texas Health Resources.*