

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER'S
PROGRAM IN ETHICS IN SCIENCE AND MEDICINE INVITES YOU TO ATTEND:

**THE DANIEL W. FOSTER, M.D.
VISITING LECTURESHIP IN MEDICAL ETHICS**

(in conjunction with Ethics Grand Rounds)

Tuesday, November 9, 2021 – Noon-1:00 p.m. (Central Time)

**RACE AND ETHICS IN BIOMEDICAL TECHNOLOGY DESIGNS:
THE PULSE OXIMETER AS A CASE IN POINT**

ROSALYN BERNE, PH.D.

*The Anne Shirley Carter Olsson Professor of Applied Ethics, Department of Engineering and Society
School of Engineering and Applied Science, University of Virginia*

There were clear indications from studies done in 2005 and 2007 that pulse oximeters overestimate arterial oxygen saturation during hypoxia in dark-skinned individuals. And yet, years later, the device remains essentially unaltered. This disregard has been particularly significant during the coronavirus pandemic. Patients diagnosed with Covid-19 who present with silent hypoxemia, but are not sick enough to warrant hospital admission, have been guided to monitor their arterial oxygenation by pulse oximetry at home, and present for care when they show evidence of hypoxemia. Others in the general public have used the device simply for personal assurance. Whether or not these uses are appropriate is debatable. Nevertheless, that a racial bias is embedded in this technology is indisputable. The pulse oximeter serves as a timely case in point of how race can become a matter of ethics in the design of biomedical devices.

This lecture will be conducted via Zoom.

While there is no registration fee, you must register to attend.

To register, please click the link below:

https://utsouthwestern-edu.zoom.us/webinar/register/WN_TCCFPKRfuPM_s-69s6xA

Upon registration, you will receive the Zoom event ID and link to join the webinar.

**John Z. Sadler, M.D., Course Director
Program in Ethics in Science & Medicine**

**For additional information, please contact:
Ruth.Vinciguerra@UTSouthwestern.edu
www.utsouthwestern.edu/ethics**

CME: Target Audience: Physicians, faculty, fellows, residents, trainees, students, health care professionals. **Educational Objectives:** At the conclusion of this activity, the participant should be able to: 1) Recognize perennial and emerging bioethical problems in clinical practice, research, public health, and health policy arenas. 2) Describe competing/contrasting viewpoints concerning these bioethical problems. 3) Demonstrate increased skills in analyzing and practically handling bioethical problems in the clinical, research, public health, and health policy arenas. **Educational Method:** Lecture and question-and-answer period. **Accreditation:** The University of Texas Southwestern Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. **Credit Designation:** The University of Texas Southwestern Medical Center designates this live activity for a maximum of 1 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. The University of Texas Southwestern Medical Center designates this activity for 1 hour(s) in medical ethics and/or professional responsibility. **Conflict of Interest:** All persons in the position to control the content of an education activity are required to disclose all relevant financial relationships in any amount occurring within the past 12 months with any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on patients. A primary mechanism to resolve identified conflicts of interest is a content review that is prior to the activity. **Off-Label Uses:** Because this course is meant to educate physicians with what is currently in use and what may be available in the future, there may be "off-label" use discussed in the presentation. Speakers have been requested to inform the audience when off-label use is discussed.

To claim Continuing Medical Education credit, you must have a UT Southwestern CME profile. Directions to set up a UT Southwestern CME profile can be found [here](#).

CNE: UT Southwestern Medical Center is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation. This activity will award one (1) contact hour.