



POPULATION HEALTH GRAND ROUNDS PRESENTS

TOPIC:

Use of Computer Simulation to Understand Population Responses to Therapy

Monday, June 4, 2018 • 12:00 – 1:00 pm

Location: 4th floor, New Guyton Building Conference Room



Robert L. Hester, Ph.D.

Objectives:

- 1) Understand how physiological models are developed
- 2) Understand how populations are created
- 3) Understand the use of Topological Data Analysis for determining populations resistant to treatment

Dr. Hester is Professor of Physiology, Interim Chair of the Department of Data Sciences and the Director of Center for Computational Medicine, at the University of Mississippi Medical Center. Dr. Hester's received his BS in Biological Engineering in 1975 and his PhD in Biomedical Engineering in 1982 from the University of Mississippi Medical Center. Dr. Hester's current research is focusing on the computational simulation of human physiology started by Drs. Guyton and Coleman in the 1970s. HumMod is the latest version of Dr. Coleman computer simulation software. For the last 15 years Dr. Hester has been leading the Center for Computational Medicine in the development of HumMod and other integrative physiological models. HumMod is being used for education, research and clinical trials. Dr. Hester is a member of American Physiological Society, and Biomedical Engineering Society. He has a startup company HC Simulation, LLC that develops HumMod for educational purposes.

AMA The University of Mississippi School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The University of Mississippi School of Medicine designates this live activity for a maximum of 1.0 **AMA PRA Category 1 Credit(s)**[™]. Physicians should claim only the credit commensurate with the extent of their participation in the educational activity.

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The University of Mississippi School of Dentistry is an ADA CERP Recognized Provider.

ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry.

University of Mississippi School of Dentistry designates this activity for 1.0 continuing education credits.



The University of Mississippi Medical Center is approved by the American Psychological Association to sponsor continuing education for psychologists. The University of Mississippi Medical Center maintains responsibility for this program and its content.

NASW This organization The University of Mississippi Medical Center provider number SWB 120016 is approved as a provider for continuing education by the Mississippi Board of Examiners and Marriage & Family Therapists; Approval Period: 1/15/2018 through 1/15/2020. Social workers will receive 1.0 continuing education clock hours in participating in this course (Clinical ___/Supervision ___/Cultural/Competency ___/Ethics ___/General_X)

MNF The University of Mississippi Medical Center School of Nursing Continuing Education Program is an approved provider of continuing nursing education by the Mississippi Nurses Foundation, Inc. an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

As an approved provider, the University of Mississippi Medical Center School of Nursing awards this activity 1.0 contact hour(s)

Participation in and successful completion of this activity will be determined by the participant signing in, attending the sessions for which credit is desired, and completing the evaluation tool. Each participant should claim only those hours of credit that he or she actually spends in the educational activity.

Accredited status refers only to continuing nursing education activities and does not imply ANCC Commission on Accreditation approval or endorsement of any commercial products.

CHPE The University of Mississippi Medical Center Division of Continuing Health Professional Education will award all participants a maximum of 1.0 credit hours (0.1 CEUS).