COURSE DESCRIPTION
During this 3 day CME course, experts in the field of cardiovascular genetics detail the important role of genetics, genomics, and pharmacogenetics in the diagnosis, risk stratification, and treatment of diseases affecting the heart and the blood vessels.

Topics covered will include, Genetics Genomics 101, pharmacogenetics, polygenic risk scores, variant interpretation, the molecular autopsy, and the diagnostic, prognostic, & therapeutic implications of genetic testing for patients with congenital heart disease, long QT syndrome, Brugada syndrome, hypertrophic/dilated/arrhythmogenic cardiomyopathy, coronary heart disease, hyperlipidemias, heart failure, pulmonary hypertension, cardiac amyloid, and the aortopathies.

COURSE LEARNING OBJECTIVES
• Summarize the probabilistic nature of genetic testing and develop a strategy to manage the variant of uncertain significance (VUS) test result
• Identify the impact of genetic testing in the diagnosis, risk stratification, and treatment of patients with heritable cardiomyopathies, channelopathies, pulmonary hypertension, cardiac amyloidosis, and aortopathies
• Determine the role of genetic testing in children and adults with congenital heart disease
• Define genetic markers of atherosclerosis and the role of genetic risk scores (GRS) in risk stratification of coronary heart disease
• Identify the genetic basis of heritable lipid disorders and implications for prevention and familial screening
• Define the role of genetics in cardiovascular drug response and to utilize genetics to minimize adverse events and maximize drug efficacy

FACULTY
Course Directors
Michael J. Ackerman, M.D., Ph.D.
Iftikhar J. Kullo, M.D.
Naveen L. Pereira, M.D.

Mayo Faculty
John R. Giudicessi, M.D., Ph.D.
Teresa M. Kruisselbrink, M.S., CGC
Sabrina D. Phillips, M.D.
David J. Tester, B.S.

Guest Faculty
Kiran Musunuru, MD, PhD, MPH – Pearlman School of Medicine University of Pennsylvania

INTENDED AUDIENCE
This course is intended for both pediatric and adult cardiologists, internists, primary care providers, and pharmacists, and nurse practitioners with special interest in the management of patients with genetic heart and vascular disease, pediatric and adult cardiology trainees, PAs, and genetic counselors with an interest in genetic cardiovascular medicine.

LODGING ACCOMMODATIONS
The Meritage Resort (866-370-6272 or 855-998-6861)
Online reservations: https://book.passkey.com/e/49857820
PROGRAM AT A GLANCE  (For a full program, visit: CVEDUCATION.MAYO.EDU/GHVD)

Thursday, October 10, 2019
7:00-9:30 a.m.  Day 1 Session I: Genetics/Genomics/Pharmacogenetics 101 – Laying the Foundation to Increase the Cardio-Genetics IQ of Practicing Cardiologists/Nps/Trainees/GCs
10:00 a.m.-12:00 p.m.  Day 1 Session II: Genetics/Genomics/Pharmacogenetics 101 – Building the Foundation to Increase the Cardio-Genetics IQ of Practicing Cardiologists/Nps/Trainees/GCs

Friday, October 11, 2019
7:00-10:00 a.m.  Day 2 Session III: State of Genetic Testing for Monogenic and Polygenic Heart and Vascular Diseases – Part I
10:30 a.m.-12:15 p.m.  Day 2 Session IV: State of Genetic Testing for Monogenic and Polygenic Heart and Vascular Diseases – Part II
12:30-2:15 p.m.  Special Workshop Lunch

Saturday, October 12, 2019
7:00-9:30 a.m.  Day 3 Session V: Genetic/Pharmacogenetic Testing
10:00 a.m.-12:15 p.m.  Day 3 Session VI: Cardiogenetic Advances Before and After Sudden Death
10:00 a.m.  Special Lecture - CRISPR/Cas9 Genetic Correction Therapy and Stem Cell Therapeutics: Today’s Hype or Tomorrow’s Promise

REGISTRATION AND FEES

REGISTRATION ONLINE ONLY

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<th>REGISTRATION ONLINE ONLY</th>
<th>Prior to Thursday, September 12, 2019</th>
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<tr>
<td>MD, PhD, DO, PharmD</td>
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ACCREDITATION STATEMENT

In support of improving patient care, Mayo Clinic School of Continuous Professional Development 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.

Mayo Clinic College of Medicine and Science designates this live activity for a maximum of 15.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 15.75 Medical Knowledge MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

Participation information will be shared with ABIM through PARS.
THE GENETICS OF HEART & VASCULAR DISEASE

THE MERITAGE / NAPA, CALIFORNIA
OCTOBER 10–12, 2019

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