

# ACUTE ISCHEMIC STROKE

## Overcoming Barriers for Optimal Management

A CME-certified Webcourse

Jointly provided by the American College of  
Emergency Physicians and Rockpointe.



**ROCKPOINTE**

Supported by an educational grant from **Genentech.**



# Program Faculty

Charles V. Pollack Jr., MA, MD,  
FACEP, FAAEM, FAHA, FCPP  
Professor and Chairman  
Department of Emergency Medicine  
Pennsylvania Hospital  
University of Pennsylvania  
Philadelphia, PA

Tracy Sanson, MD, FACEP  
Associate Professor  
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University of South Florida  
Tampa, FL



# Steering Committee

## Deepak L. Bhatt, MD, MPH

Executive Director, Interventional  
Cardiovascular Programs  
Brigham and Women's Hospital Heart  
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Professor of Medicine  
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## Tracy Sanson, MD, FACEP

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## Robert Welch, MD, FACEP

Professor and Director of Clinical Research  
Department of Emergency Medicine  
Wayne State University  
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# Program Overview

This CME-certified activity focuses on the barriers to care and best practices in the management of acute ischemic stroke, and will feature research highlights, evidence-based management strategies, monitoring tools, interactive supportive-care case scenarios, and case-based presentations and discussions moderated by the expert faculty.



# Target Audience

The target audience for this initiative includes emergency room physicians, community cardiologists, neurologists, and other professionals who treat patients with acute ischemic stroke.

# Educational Objectives

*At the conclusion of this activity, participants should be able to demonstrate the ability to:*

- Identify the key barriers that prevent acute ischemic stroke patients from reperfusion to determine workable solutions allowing for care within recommended timeframes
- Adhere to current treatment guidelines and indications/contraindications when determining effective treatment plans for patients presenting with signs of acute ischemic stroke
- Adopt technologies and other collaborative measures that link hospitals in rural areas with certified stroke centers and specialists to increase the expertise and quality of stroke care



# Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American College of Emergency Physicians and Rockpointe Corporation. The American College of Emergency Physicians is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

# Designation Statement

The American College of Emergency Physicians designates this activity for a maximum of 1.0 *AMA PRA Category 1 Credit(s)*<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Approved by the American College of Emergency Physicians for a maximum of 1 hour of ACEP Category I credit.



# CME Information

*FDA Disclosure* – The contents of some CME/CE activities may contain discussions of non-approved or off-label uses of some agents mentioned. Please consult the prescribing information for full disclosure of approved uses.

*Method of Participation* – To complete the activity and receive credit, the participant must view the webcourse and pass the post-test. A CME certificate will be provided upon submission of a completed evaluation form.

# Disclosure Information

The American College of Emergency Physicians (ACEP) adheres to the policies and guidelines, including the Standards for Commercial Support, set forth to providers by the Accreditation Council for Continuing Medical Education (ACCME) and all other professional organizations, as applicable, stating those activities where continuing education credits are awarded must be balanced, independent, objective, and scientifically rigorous.

All persons in a position to control the content of a continuing medical education program provided by ACEP are required to disclose any relevant financial relationships with any commercial interest to ACEP as well as to learners. All conflicts are identified and resolved by ACEP in accordance with the Standards for Commercial Support in advance of delivery of the activity to learners.

The content of this activity was vetted by an external medical reviewer to assure objectivity and that the activity is free of commercial bias.

# Disclosures

## *Faculty and Steering Committee Disclosures*

*The faculty and steering committee reported the following relevant financial relationships that they or their spouse/partner have with commercial interests:*

**Deepak L. Bhatt, MD, MPH** – *Primary Investigator:* Amarin, AstraZeneca, Bristol-Myers Squibb, Eisai, Ethicon, Medtronic, Roche, Sanofi Aventis, The Medicines Company

**Charles V. Pollack Jr., MA, MD, FACEP, FAAEM, FAHA, FCPP** – Nothing to disclose

**Tracy Sanson, MD** – Nothing to disclose

**Robert Welch, MD** – *Research:* Banyan Biomarkers Inc., National Institute of Neurological Disorders and Stroke: POINT Trial, SHINE Trial, ProTECT Trial, ALIAS-2 Trial

## *Non-faculty Disclosures*

*Non-faculty content contributors and/or reviewers reported the following relevant financial relationships that they or their spouse/partner have with commercial interests:*

**Barry Watkins, PhD; Blair St. Amand; CME Peer Review:** Nothing to Disclose

# Program Faculty



**CHARLES V. POLLACK Jr., MA, MD, FACEP, FAAEM, FAHA, FCPP**

*Professor and Chairman  
Department of Emergency Medicine  
Pennsylvania Hospital  
University of Pennsylvania  
Philadelphia, PA*

Charles V. Pollack Jr., MA, MD, FACEP, FAAEM, FAHA, FCPP is Professor of Emergency Medicine at the Perelman School of Medicine of the University of Pennsylvania and is Chairman of Emergency Medicine at Pennsylvania Hospital in Philadelphia. From 1992-2001, Dr. Pollack served in various positions in the Department of Emergency Medicine at Maricopa Medical Center in Phoenix, AZ, an urban, tertiary care teaching hospital affiliated with the Medical College of the University of Arizona and the Mayo Graduate School of Medicine. He was Research Director from 1994 to 2000, and he chaired the department from 1997 to 2001. From 2000 through mid-2001, Dr. Pollack was also Director of Emergency Medicine at Arizona Heart Hospital. He graduated *summa cum laude* from Emory University in 1980 with bachelor's degrees in history and chemistry and with a master's degree in the history of science and medicine, and was elected to Phi Beta Kappa. Dr. Pollack earned his medical degree from Tulane University School of Medicine and is a member of Alpha Omega Alpha.

Dr. Pollack has long been active in teaching and clinical research and is an international leader in emergency medicine. He is the only physician to have received the American College of Emergency Physicians' highest national awards in both teaching and research; he also received the national teaching award from the Council of Emergency Medicine Residency Directors. His primary research interests are in the management of thrombosis, both arterial (especially acute coronary syndrome) and venous (deep venous thrombosis and pulmonary embolism), infectious disease emergencies, and treatment of pain. He has written more than 350 original research articles, chapters, and abstracts, and serves on the editorial boards of several journals and on the steering committees of multiple national and international trials. Dr. Pollack also lectures widely on many varied topics in emergency medicine. He is a founding Board member of the Hospital Quality Foundation, a non-for-profit organization dedicated to improvement in the quality of care provided to hospitalized patients.

# Program Faculty/Steering Committee



**TRACY SANSON, MD, FACEP**

*Associate Professor  
Department of Emergency Medicine  
University of South Florida  
Tampa, FL*

**Tracy Sanson, MD, FACEP** is Associate Professor at the University of South Florida (USF). She is Director of USF's Division of Global Emergency Medical Sciences and Co-chief Editor of their *Journal of Emergencies, Trauma and Shock*; an online, international emergency medicine journal. She also serves as the Professional Emergency Medicine Liaison Division Director for TeamHealth.

A frequent speaker for emergency medicine programs, Dr. Sanson also serves as a core faculty member for the American College of Emergency Physicians and received ACEP's National Emergency Medicine Faculty Teaching Award in 2006. Dr. Sanson has consulted and lectured nationally and internationally on administrative and management issues, communication, patient safety, women's issues, and emergency medicine clinical topics for a wide range of health care organizations.

Dr. Sanson's experience spans 20 years in emergency medicine education and ED management and leadership development. She has held director positions in the US Air Force, at USF, and at TeamHealth for the past 15+ years. Dr. Sanson trained at the University of Illinois at Chicago for medical school and her emergency medicine residency. She is well-versed in leadership, patient safety, and medical management issues, having served on TeamHealth's Medical Advisory Board, as Patient Safety Office Division Director, and as a faculty member for their leadership courses.

# Steering Committee



## **DEEPAK L. BHATT, MD, MPH**

*Executive Director*

*Interventional Cardiovascular Programs*

*Brigham and Women's Hospital Heart & Vascular Center*

*Professor of Medicine*

*Harvard Medical School*

*Boston, MA*

**Deepak L. Bhatt MD, MPH, FACC, FAHA, FSCAI, FESC**, is Executive Director of Interventional Cardiovascular Programs at Brigham and Women's Hospital Heart and Vascular Center and Professor of Medicine at Harvard Medical School. He is also a Senior Physician at Brigham and Women's Hospital and a Senior Investigator in the TIMI Study Group.

After graduating as valedictorian from the Boston Latin School, Dr. Bhatt obtained his undergraduate science degree as a National Merit Scholar at the Massachusetts Institute of Technology, while also serving as a Research Associate at Harvard Medical School. He received his medical doctorate from Cornell University. He completed a Masters in Public Health with a concentration in clinical effectiveness at Harvard University. His internship and residency in internal medicine were performed at the Hospital of the University of Pennsylvania, and his cardiovascular training was at the Cleveland Clinic. He also completed fellowships in interventional cardiology and cerebral and peripheral vascular intervention, as well as serving as Chief Interventional Fellow at Cleveland Clinic, where he spent several years as an interventional cardiologist and an Associate Professor of Medicine. He served for many years as Director of the Interventional Cardiology Fellowship and as Associate Director of the Cardiovascular Medicine Fellowship. He also served as Associate Director of the Cleveland Clinic Cardiovascular Coordinating Center. He was then recruited to be the Chief of Cardiology at VA Boston Healthcare System, where he served for several years. Dr. Bhatt has been listed in *Best Doctors in America* from 2005 to 2014.

Dr. Bhatt's research interests include acute coronary syndromes, preventive cardiology, and advanced techniques in cardiac, cerebral, and peripheral intervention. He has authored or co-authored more than 600 publications. He is the editor of *Atherothrombosis in Clinical Practice* published by Oxford University Press and of *Peripheral and Cerebrovascular Intervention* published by Springer. He was the international PI for the CHARISMA and CRESCENDO trials and co-PI of the three CHAMPION trials. He served as Chair of COGENT and helped lead STAMPEDE. He serves as Co-chair of the REACH registry and chairs REDUCE-IT. He is co-PI of SAVOR-TIMI 53, SYMPLICITY HTN-3, and THEMIS. He is the current Chair of the AHA-GWTG Steering Committee. He is Associate Editor for clinical trials for the ACC's Cardiosource. Dr. Bhatt has been a visiting lecturer at a number of prestigious institutions throughout the world, and has been interviewed extensively by news agencies on numerous topics. He is the Editor of the peer-reviewed *Journal of Invasive Cardiology*, Chief Medical Editor of *Cardiology Today's Intervention* for healthcare professionals, and Editor-in-Chief of the *Harvard Heart Letter* for patients.

# Steering Committee



**ROBERT WELCH, MD, FACEP**

*Professor and Director of Clinical Research  
Department of Emergency Medicine  
Wayne State University  
Detroit, MI*

**Robert Welch, MD, FACEP** is a Professor and Clinical Educator in the Department of Emergency Medicine at Wayne State University (WSU) School of Medicine in Detroit, MI, as well as the Director of Clinical Research for the department. He is a full member of the Cardiovascular Research Institute and an Associate in the Department of Physical Medicine and Rehabilitation at Wayne State. Dr. Welch completed his medical doctorate in 1983 and his residency in 1986 (WSU and Detroit Receiving Hospital).

His career began as a full-time practicing emergency physician, but he later gravitated to an academic role (1989). After a late start in clinical research, Dr. Welch recognized the need for additional knowledge in research methodology and obtained a Master of Science degree in clinical research design and statistical analysis from the University of Michigan (2005). His current area of research is clinical trials in neurological emergencies with a focus on stroke and brain injury. He is a Program Director for an NIH (NINDS)-funded program grant; the Neurological Emergencies Treatment Trials Network (NETT) that is in its 7th year. He also serves on the Editorial Board of the *Annals of Emergency Medicine* and as a frequent reviewer for that and other journals. Recently, Dr. Welch has become very interested in failed and non-reproducible research; particularly as it relates to the translation of laboratory and pre-clinical results to effective new patient treatments