

MINNEAPOLIS HEART INSTITUTE®
PRESENTS

Miracle on Ice

Therapeutic Hypothermia for Cardiac Arrest Patients

FRIDAY CONFERENCE: September 10, 2010
7:30 a.m. to 4:00 p.m.

THURSDAY EVENING BREAKOUTS: September 9, 2010
6:30 to 9:00 p.m.

Allina Commons at Midtown Exchange
in Minneapolis, Minnesota

Co-Sponsored by



AMERICAN
COLLEGE of
CARDIOLOGY
FOUNDATION



MINNEAPOLIS
HEART
INSTITUTE



ABBOTT
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Allina Hospitals & Clinics

Conference Overview

Sudden cardiac arrest causes more than 350,000 deaths a year. Even for patients who survive cardiac arrest, chances are high they will sustain permanent neurological damage. One of the ways to lessen this risk is to quickly cool the patient's core body temperature to 33 degrees Celsius through induced or therapeutic hypothermia – making time and temperature critical components to successfully treating cardiac arrest.

Therapeutic hypothermia can be beneficial to patients up to four hours after an arrest occurs, but it takes well orchestrated and coordinated care to effectively apply cooling as soon as possible after the arrest in order to minimize damage. Set standards, processes, medications and equipment are part of the protocol to minimize time and get the patient to the ideal core temperature quickly.

As one of the leading pioneers of the cooling treatment in the nation, the Minneapolis Heart Institute® at Abbott Northwestern Hospital established a "Cool It" protocol in 2006 to immediately initiate the treatment for a patient who meets the medical criteria. The "Cool It" program is a facilitated collaboration among cardiology, emergency medicine, intensive care physicians, emergency medical services, critical care nurses and pharmacists at Abbott Northwestern Hospital.

This conference is devoted to the fundamentals of establishing and further developing a program to treat comatose patients following cardiac arrest. Case presentations and lectures will be made by physicians from the Minneapolis Heart Institute® at Abbott Northwestern Hospital and other national experts.

Target Audience

Cardiologists, interventionalists, critical care physicians, emergency physicians, EMS directors and physicians, and appropriate department nursing and administration staff.

Objectives

1. Describe the current state of resuscitation, treatment and outcomes from the national prospective.
2. Develop a protocol to initiate and maintain mild therapeutic hypothermia for the patient that remains comatose following a cardiac arrest.
3. List patient selection inclusion/exclusion criteria for therapeutic hypothermia therapy.
4. Describe the simultaneous application of treatments for a patient with STEMI who has also suffered a cardiac arrest without regaining consciousness.
5. Explain the hemodynamic changes that occur during hypothermia and treatment.
6. Evaluate the frequency of cardiogenic shock and the treatment during therapeutic hypothermia.
7. Identify cardiac arrhythmias that occur during hypothermia and treatment protocols for those arrhythmias.
8. Collect data to measure clinical outcomes (including mortality, morbidity and neurological recovery) and respond with process revisions to improve outcomes.

Thursday Evening Breakout Sessions

Target Audience

All are welcome. The Thursday evening breakouts will be interactive, “ask the expert” discussions. These sessions are intended to focus more narrowly on topics of interest to the following two groups:

BREAKOUT 1: EMS medical directors, EMS providers, Emergency Department physicians and nurses.

BREAKOUT 2: Intensivists, hospitalists, cardiologists and ICU nurses.

Objectives

BREAKOUT 1 for EMS and ED:

1. Review the steps to be followed for field resuscitation for patients who may be candidates for therapeutic hypothermia.
2. List the basic steps for ED codes for patients who may be candidates for therapeutic hypothermia.
3. Outline the collaboration between the Emergency Department, Intensive Care Unit and Cardiology needed to treat cardiac arrests.
4. Describe strategies to engage the community as the first line of defense for cardiac emergencies.

BREAKOUT 2 for ICU:

1. Review the anticipated impact of therapeutic hypothermia on cardiac output measurements.
2. Describe the intravenous fluid infusion process for lowering body temperature.
3. Discuss use of short-acting sedation and paralytics for therapeutic hypothermia.
4. Summarize the induction, maintenance and rewarming phases of therapeutic hypothermia.

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of Allina Hospitals & Clinics and Minneapolis Heart Institute Foundation. Allina Hospitals & Clinics is accredited by the ACCME to provide continuing medical education for physicians.

The Center for Learning & Innovation, Office of Accreditation at Allina Hospitals & Clinics designates this educational activity for a maximum of 7.5 *AMA PRA Category 1 Credits*[™] for the Friday conference and 2.5 *AMA PRA Category 1 Credits*[™] for the Thursday evening breakouts. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Continuing medical education credits are accepted by the American Nurses Credentialing Center's Commission on Accreditation (ANCC) for certification renewal if the content is applicable to the area of certification. Continuing education hours approved by the ACCME meet the ANCC-accredited continuing nursing education (CNE) criteria.

Individuals representing other professional disciplines may submit summit materials to their respective professional associations for 7.5 hours of continuing education credit for the Friday conference and 2.5 hours for the Thursday evening breakouts.

Agenda

Thursday, September 9, 2010

- 6:15 p.m. Registration and Hors d'Oeuvres
- 6:30 Opening Remarks
Michael Mooney, MD, Minneapolis Heart Institute®
- 6:45 Choice of two breakouts:
- BREAKOUT 1 For EMS Medical Directors, Emergency Dept. Physicians, Nurses, EMS Personnel**
First Steps in Resuscitation: Field to Emergency Department – Best Practices in the Real World
Graham Nichol, MD, MPH, University of Washington
Paul Satterlee, MD, Allina Medical Transportation
- BREAKOUT 2 for Intensivists and ICU Nurses**
Clinical Challenges: Managing the Patient During Induction, Maintenance and Rewarming of Therapeutic Hypothermia, Drug Metabolism and Neuromonitoring
David B. Seder, MD, Maine Medical Center
William Parham, MD, Abbott Northwestern Hospital
- 7:45 Question & Answer Session
- 9:00 Adjournment

Friday, September 10, 2010

- 7:30 a.m. Registration and Heart-Healthy Breakfast
- 8:00 Opening Remarks
Michael Mooney, MD, Minneapolis Heart Institute®
- 8:15 **Pre-Hospital and Emergency Department Decision-Making on Candidates for Hypothermia**
Graham Nichol, MD, MPH, University of Washington
- 8:45 **What Does the ECG Show BEFORE the Arrest?**
Scott W. Sharkey, MD, Minneapolis Heart Institute®
- 9:15 **Neuroprognostication and Resuscitation Targets after Cardiac Arrest**
David B. Seder, MD, Maine Medical Center
- 10:00 Break
- 10:15 **Cardiovascular Management of the Cardiac Arrest**
Michael Mooney, MD, Minneapolis Heart Institute®

Agenda Continued

Friday, September 10, 2010 Continued

- 11:00 **Why the Cath Lab for the Cardiac Arrest Patient?**
Paul W. McMullan, MD, Ochsner Medical Center
John A. McPherson, MD, Vanderbilt Heart and Vascular Institute
Michael Mooney, MD, Minneapolis Heart Institute®
Nainesh C. Patel, MD, Lehigh Valley Heart Specialists
- 12:00 p.m. Lunch and Exhibits
- 1:00 **Cardiovascular Co-op on Cardiac Arrest: Multicenter Experience Joining an International Database, the International Cardiac Arrest Registry (INTCAR)**
Paul W. McMullan, MD, Ochsner Medical Center
John A. McPherson, MD, Vanderbilt Heart and Vascular Institute
Michael Mooney, MD, Minneapolis Heart Institute®
Nainesh C. Patel, MD, Lehigh Valley Heart Specialists
- 1:45 **Electrophysiology, Rhythm Changes and Implications for Treatment During Hypothermia**
William T. Katsiyannis, MD, Minneapolis Heart Institute®
- 2:30 **STEMI, Cardiac Arrest and Cardiogenic Shock: Advanced Therapies During Therapeutic Hypothermia**
Nader Moazami, MD, Minneapolis Heart Institute®
- 3:15 Break
- 3:30 **Straight to the CATH (Cardiac Arrest Therapeutic Hypothermia) Lab: Systems of Care Within a Network**
Barbara Tate Unger, RN, Minneapolis Heart Institute®
- 4:15 **Neurocognitive Function; Are CPC Scores Enough?**
Sue Sendelbach, RN, PhD, Abbott Northwestern Hospital
- 4:45 Closing Remarks and Final Questions
Michael Mooney, MD, Minneapolis Heart Institute®
- 5:00 Adjournment

Course Directors

Michael Mooney, MD, FACC, FSCAI, FAHA

Interventional Cardiologist; Co-Director, Cardiovascular Labs;
Co-Director, “Cool It” Program; Minneapolis Heart Institute®
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Interventional Cardiologist and Peripheral Vascular Interventionalist,
Ochsner Medical Center
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Medical Director, Cardiovascular Intensive Care Unit, and Director,
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Director of Interventional Cardiology Research, Vanderbilt Heart
and Vascular Institute
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Cardiothoracic Surgeon, Director of Heart Transplant and Mechanical
Cardiac Assist Program, Minneapolis Heart Institute®
at Abbott Northwestern Hospital
Minneapolis, Minnesota

Graham Nichol, MD, MPH

Professor of Medicine; Director and Chair, Medic One Foundation,
Harborview Center for Prehospital Emergency Care; Medical Director,
University of Washington Clinical Trials Center
Seattle, Washington

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Director of Nursing Research / Clinical Nurse Specialist,
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About The Sponsors

The Minneapolis Heart Institute® is the largest integrated cardiovascular provider in Minnesota. Abbott Northwestern Hospital treats more heart attack and heart failure patients than any hospital in Minnesota and is part of Allina Hospitals & Clinics. Allina Hospitals & Clinics is a not-for-profit health care system of hospitals, clinics and other patient care services that provides exceptional care to communities throughout Minnesota and western Wisconsin and employs more than 22,000 people.

The American College of Cardiology Foundation (ACCF) is the co-sponsor of this educational program.

Questions: For questions, please call Ashley Lyle at 612-863-6236 or email alyle@mhif.org.

Registration & Logistics

Online Registration

All registrations will be done online with payments made by debit or credit card. For information and to register visit <http://miracle2010.eventbrite.com>.

Tuition

FRIDAY CONFERENCE & THURSDAY BREAKOUTS

\$200 tuition for physicians

\$150 tuition for non-physicians

THURSDAY EVENING BREAKOUTS ONLY

\$50 tuition for all attendees

Tuition fee includes educational credits, conference materials, parking and refreshments. The online registration website will accept payments by bank or credit card via PayPal. If you do not have a PayPal account, use the “continue” link for a one-time payment. Conference registrations will be capped to ensure a comfortable learning environment for attendees. Early registration is recommended, since this conference may sell out. Advanced registrations will be accepted until Tuesday, August 31, 2010.

Cancellation and Refund Policy

Substitutions are accepted at any time. For cancellations received by Tuesday, August 31, a \$50 processing fee will be retained and the tuition balance refunded. Notices after this date will not receive a refund. To complete your cancellation or substitution call **612-863-6236** or email alyle@mhif.org. In the unlikely event the program is cancelled, MHIF is not responsible for airfare, hotel or other costs incurred by participants.

Location

ALLINA COMMONS AT MIDTOWN EXCHANGE – GREENWAY LEVEL, PETTINGILL HALL

2925 Chicago Ave,
Minneapolis, MN 55407-1321

ALLINA COMMONS SECURITY DESK:

612-262-5100

Allina Commons parking is located in the ramp adjacent to the Midtown Exchange Building on 10th Avenue South. In order to validate your

parking, you must bring your ticket in to the conference with you.

If you are an Allina employee, we ask that you bring your badge with you.



Accommodations

SHERATON MINNEAPOLIS MIDTOWN HOTEL

at 2901 Chicago Avenue in Minneapolis, Minnesota 55407

For reservations at the hospital rate, visit <http://www.abbottnorthwestern.com/ahs/anw.nsf/page/hotel> or call toll-free 1-866-716-8103 and mention promo code ABN.

The Sheraton Midtown features comfortable, convenient lodging for health care professionals who are visiting Abbott Northwestern Hospital. The three-star Sheraton Midtown is adjacent to the conference location.

MARQUETTE HOTEL

at 710 Marquette Avenue in Minneapolis, MN 55402-2368

Phone: (800) 328-4782 or (612) 333-4545

The Marquette Hotel is situated in the heart of Minneapolis's financial and entertainment districts, with easy access to the shops on Nicollet Mall and the IDS Center Crystal Court. The five-star Marquette Hotel is located three miles from the conference location.

Conference Planning Committee

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For information and to register visit [HTTP://MIRACLE2010.EVENTBRITE.COM](http://MIRACLE2010.EVENTBRITE.COM)



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