

The Long Hot Summer

A Trauma & Emergency Care Conference

 **NORTH** MEMORIAL HEALTH

MARCH 6-7, 2020
PRE-CONFERENCE - MARCH 5

Marriott Northwest | Brooklyn Park, MN

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Level 1 Trauma Center, a leader in emergency
care for more than 50 years.

 **NORTH**
MEMORIAL HEALTH

Agenda

THURSDAY | MARCH 5, 2020

2-6 PM	Cadaver Lab*
4-8 PM	PEARS Workshop
5-8 PM	CEVO Driving Workshop
5:30-7 PM	Stop the Bleed Instructor Workshop
5:30-8 PM	Active Shooter Workshop
8-11 PM	Long Hot Summer Social

* The Cadaver Lab class is held at University of Minnesota.
Details to be provided once registration is complete.

FRIDAY | MARCH 6, 2020

8 AM	Opening session
9 AM	Break with snack
9:30 AM	Breakout sessions
10:30 AM	Break
10:45 AM	Breakout sessions
11:45 AM	Break
12 Noon	Lunch or breakout sessions
1 PM	Break
1:15 PM	Lunch or breakout sessions
2:15 PM	Break
2:30 PM	Breakout sessions
3:30 PM	Break with snack
3:45 PM	Closing session
7-10:30 PM	Long Hot Summer Dance

SATURDAY | MARCH 7, 2020

8 AM	Opening session
9 AM	Break with snack
9:30 AM	Breakout sessions
10:30 AM	Break
10:45 AM	Breakout sessions
11:45 AM	Break
12 Noon	Lunch or breakout sessions
1 PM	Break
1:15 PM	Lunch or breakout sessions
2:15 PM	Break
2:30 PM	Breakout sessions
3:30 PM	Break with snack
3:45 PM	Closing session



The Long Hot Summer Social

THURSDAY, MARCH 5

8 - 11 PM | HENNEPIN 1

Join your peers for games, music and a cash bar!

The Long Hot Summer Dance

FRIDAY, MARCH 6

7 - 10:30 PM | NORTHLAND BALLROOM

Come for fun, music, dancing and a cash bar!

GUESTS ARE WELCOME

Hotel Accommodations



Marriott Northwest
7025 Northland Drive
Brooklyn Park, MN 55428
(763) 536-8300 | (877) 303-1681

North Memorial Health has rooms at a special rate of \$133/night, single or double, plus taxes. To make reservations, please call (763) 536-8300 and mention you are with the North Memorial Health Conference "The Long Hot Summer." This rate will be valid through February 10, 2020 after which reservations will be accepted on a space available basis. Maximum occupancy is four (4) guests per suite.

The Long Hot Summer is starring...YOU!

Send us photos of previous Long Hot Summer conferences, LHS social events, and you with your colleagues at LHS. And you might be included in our event video shown on site during the conference.

Email:

Karmel.hotvedt@northmemorial.com

SPRING into the Conference with a Pre-Conference Course

THURSDAY, MARCH 5, 2020

North Memorial Health is offering five pre-conference courses to help you hone your skills and advance your knowledge. These classes are a great way to start your conference experience, gain valuable insight and earn additional hours of continuing education. Dinner is on your own. See agenda on previous page for class times.

- Pre-conference classes require a separate registration and an additional fee.
- Courses run concurrently, choose only one:

—**CADAVER LAB: Cass Topinka, BS, NREMT-P, FP-C and Marc Conterato, MD, FACEP, FAEMS**

In this hands-on session for paramedics & nurses, you will learn & practice unique advanced skills, which are otherwise difficult to facilitate in the ordinary classroom or laboratory setting. We will explore the applications of intraosseous access, needle thoracostomy, direct & video laryngoscopy and cricothyrotomy. This class is held at University of Minnesota. Class is limited to 10 attendees. This class is worth 4 CEs. Fee is \$75.

—**PEARS WORKSHOP: Emily Oltmanns, BSN, RN, Kevin Budig, NRP, and Nicole Arbach, RN**

The Pediatric Emergency Assessment, Recognition and Stabilization (PEARS) certification course was designed for healthcare providers that infrequently see critically ill children. PEARs prepares a student to assess, categorize, decide and act early to stabilize the child. The main focus of PEARs training is prevention, and specifically the emergency assessment, recognition and stabilization of pediatric victims at risk of severe cardiopulmonary distress. This class is worth 4 CEs. Class is limited to 24 attendees. Fee is \$75.

—**ACTIVE SHOOTER RESPONSE DISCUSSION: Lance Ross, MBA**

This session will look at what we know about active shooters to date in the United States. We will look at some of the facts and data that have been gathered since 2000 as well as current best practices for responders and facilities. This class is worth 2.5 CEs. Class is limited to 24 attendees. Fee is \$30.

—**COACHING THE EMERGENCY VEHICLE OPERATOR (CEVO) DRIVING WORKSHOP: Paul Wampler, NRP**

Paul is one of the driving instructors for North Memorial Health and is teaching the CEVO model for current and new employees. He believes that driving a breadbox on six wheels can be exciting, but doing it safely should be the primary goal. While taking you through the core content of CEVO, Paul will bring to light some of the realities of emergency driving and awareness aspects to get us home safely. The CEVO written test will be given at the end of the classroom session and is required to obtain certification. This class is worth 3 CEs. Class is limited to 40 attendees. Fee is \$30.

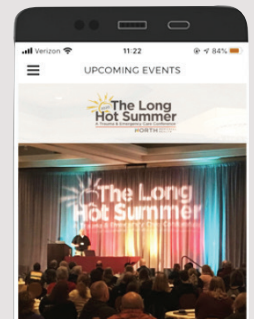
—**STOP THE BLEED INSTRUCTOR WORKSHOP:**

Peter Lindbloom, MPAS, PA-C, RDMS and Pantelan Yang, PA-C

Almost daily, the media captures images and stories of mass violence. This session will discuss the Stop the Bleed national awareness campaign and its goal of training bystanders in hemorrhage control. In addition to receiving the Stop the Bleed curriculum (certificates of completion will be provided), participants will also receive training on how to continue the nationwide movement by bringing the curriculum back to their communities. This class is worth 1.5 CEs. Class is limited to 26 attendees. Fee is \$30.

Register online now

at northmemorial.com/longhotspring
then download the **Expo Pass** conference
app for the latest conference news.



Keynote Presentations Featuring Industry Leaders

FRIDAY, MARCH 6, 2020

OPENING SESSION | 8 AM

Pediatric Emergency Jeopardy | Scott DeBoer, RN, MSN, CEN, CPEN, CCRN, CFRN, EMT-P

We kick off our day with an interactive game show! Scott has combined education and entertainment to create a fast-paced learning experience. While you “play Jeopardy,” this presentation will review and reinforce the assessment skills, clinical findings and management priorities for successfully handling a wide variety of common and not so common pediatric trauma emergencies.

Scott has over 25 years of neonatal/pediatric/adult flight nursing experience and has held staff nurse positions in intensive care and emergency/trauma nursing. He presently works as a critical care transport nurse for MedEx Chicago and is a national speaker for Pedi-Ed-Trics seminar company dedicated to teaching better ways to care for kids. Scott is the author of “Emergency Newborn Care: The First Moments of Life,” for paramedics, respiratory therapists and emergency nurses.

CLOSING SESSION | 3:45 PM

Mile-Hi Moments: They’re Why We Play the Game | Reuben Farnsworth, NREMT

So often we talk about the “bad calls.” What we should be focusing on are the positive ones. We all have plenty of calls that drag us down and make us question our choice of profession. While important to learn from, these calls don’t build us up. In this session you will hear some of the “Mile-Hi Moments” of Reuben’s career. Together we will remember all the awesome reasons we chose EMS as our profession, and why there is nothing else we would rather do. What you do is important and this presentation will remind you why.

Reuben is a Critical Care Paramedic and Education Coordinator with Delta County Ambulance District in Colorado. With 29 years of volunteer and career EMS service, he is a RockStar Medic and National Speaker.

SATURDAY, MARCH 7, 2020

OPENING SESSION | 8 AM

Why Do We Eat Our Young? Breaking the Hazing Trend | Reuben Farnsworth, NREMT

This session is a look at common hazing practices in EMS. We will talk about the culture of “breaking in a rookie,” hazing and ways that we often discourage new providers. Prepare yourself for some laughs as you encounter Reuben’s unique brand of EMS poetry and some introspection as well. Are you ready to change the way we encourage new EMS providers?

CLOSING SESSION | 3:45 PM

Who’s Flying The Ambulance? What Aviation Can Teach EMS About Crew Resource Management | David Page, MS, NRP

Learn how crew resource management (CRM) could help your EMS system reduce errors and improve team dynamics.

David Page is the director of the Prehospital Care Research Forum at UCLA and a field paramedic with Allina Health EMS in Minneapolis/St. Paul. He is a PhD candidate and senior lecturer at Monash University. David serves as the chair of the assessment and credentialing board for the newly created International Paramedic Registry (IPR). He is an internationally recognized author, speaker and researcher, who has over 34 years of active EMS street experience. He was awarded the 2017 NAEMT Presidential Award, the 2016 Pinnacle Leadership Award, and the 2012 EMS 10 Innovator Award.

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NORTH
MEMORIAL HEALTH

Friday, March 6, 2020

Time	Basic Life Support Track BLS	Advance Life Support Track ALS	Critical Care Track CC	General Track G	Skills Track S
7 AM	Registration / Breakfast / Exhibitor Hall Opens				
7:45 AM	Welcome				
8 AM	OPENING SESSION - Pediatric Emergency Jeopardy Scott DeBoer 				
9 AM	Break with Snack				
9:30 AM	Trauma Martini on the Rocks: Mining Trauma Made Easy Reuben Farnsworth 	OB Complications Todd Stanhope, MD 	Delirium Sarah Pangarakis	Climbing the Ladder: Women in EMS Leadership Amber Lage 	PEARS Skills & Test out* Emily Oltmanns Kevin Budig Nicole Arbach *Required prerequisite: Pre-con PEARs Workshop. 
10:30 AM	Break				
10:45 AM	Wellness & Self Care Steve Carlson 	Emergency Care of Crashing Kids Scott DeBoer 	Neurosurgical Trauma Kyle Nelson, MD	Vaping: The Good, The Bad & The Ugly Thad Shunkwiler	
11:45 AM	Break				
12 PM	Lunch or Session (Pick a session or attend lunch — Lunch also offered at 1:15 PM)				
12 PM	Suicidality Among Emergency Responders & What Can Be Done Chris Caulkins, EdD Brittany Miskowiec, PhD 	Advanced 12 Lead: The Lewis Lead, Multi Focal A-Tech and 10 Things You Never Saw on a 12 Lead Reuben Farnsworth	Intro to Point-of-Care Ultrasound (POCUS) Chad Roline, MD	Comeback Diseases Lexie Barber	Patient Assessment Timothy Birkemeyer 
1 PM	Break				
1:15 PM	Lunch or Session (Pick a session or attend lunch)				
1:15 PM	Chemical Burns Jon Gayken, MD 	12-Lead Occlusions Brian Imdieke	Sepsis Cameron Berg, MD	All Things Blood Nancy VanBuren, MD	Trauma Management Paul Wampler 
2:15 PM	Break				
2:30 PM	Death By Drugs: Current Trends Kirk Hughes 	To Tube or Not To Tube: Ped Airway Scott DeBoer	Critically Caring & the Dynamic Duo Alex Trembley Joseph Baker	Hospice Care in EMS Reuben Farnsworth	Left Ventrical Assist Device (LVAD) Marc Conterato, MD 
3:30 PM	Break with Snack				
3:45 PM	CLOSING SESSION - Mile-Hi Moments: They're Why We Play the Game Reuben Farnsworth 				
4:45 PM	Adjourn				
7 PM	Long Hot Summer Dance				

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Time	Basic Life Support Track BLS	Advance Life Support Track ALS	Critical Care Track CC	General Track G	Skills Track S
7 AM	Registration / Breakfast / Exhibitor Hall Opens				
7:45 AM	Welcome				
8 AM	OPENING SESSION - Why Do We Eat Our Young? Breaking the Hazing Trend Reuben Farnsworth 				
9 AM	Break with Snack				
9:30 AM	Geriatric: Dementia & Alzheimer's Timothy Birkemeyer 	Ease the (after) Load: High Dose Nitrates for Sympathetic Crashing Acute Pulmonary Edema (SCAPE) Michael Perlmutter	Current Trends in Tranexamic Acid (TXA) Cass Topinka	Post-Traumatic Growth - Finding Benefits within Challenges Daniel Sundahl 	8 Hearts In A Duffel Bag Scott DeBoer Lisa DeBoer
10:30 AM	Break				
10:45 AM	Wilderness Medicine 2.0 Peter Tanghe, MD 	What's In My Patient? The Good, the Bad and the Implanted Reuben Farnsworth	Lost Without a Map Alex Trembley Joseph Baker	Special Populations: A Paramedic-Father's Perspective Nathan Little 	
11:45 AM	Break				
12 PM	Lunch or Session (Pick a session or attend lunch — Lunch also offered at 1:15 PM)				
12 PM	Time: Critical Care! Rob Pearson 	How Not to Blow It: Ventilator Strategies* Billie Sell *Required for Vent Management at 2:30 PM	Pressure Injuries Sarah Pangarakis Megan Anderson	Lessons In Rural EMS Leadership Jared Oscarson 	Special Needs Patient Assessment Timothy Birkemeyer 
1 PM	Break				
1:15 PM	Lunch or Session (Pick a session or attend lunch)				
1:15 PM	Trauma Case Studies: Onset to Outcome Pat Lilja, MD 	One Pill Can Kill Kirk Hughes 	Common Sense Lab Values Cass Topinka	From Paramedic to Pediatric President: EMS Entrepreneurs, Innovations & Innovations Lisa DeBoer	12 Lead EKG Rapid-fire Review Alex Trembley Emily Oltmanns
2:15 PM	Break				
2:30 PM	Landing Zone Selection: A Pilot's Point of View Joe Klatt 	Treating for Two: What to Expect When Your Patient is Expecting Reuben Farnsworth 	Extracorporeal Membrane Oxygenation (ECMO) Advances Marc Conterato, MD	Tattoos, Tongues, Teens & Trauma: Emergency Implications of Piercing/Tattooing Scott DeBoer 	Vent Management* Billie Sell *Required prerequisite: How Not to Blow It at 12 PM
3:30 PM	Break with Snack				
3:45 PM	CLOSING SESSION - Who's Flying The Ambulance? What Aviation Can Teach EMS About Crew Resource Management David Page 				
4:45 PM	Adjourn				

Session Descriptions | Friday, March 6, 2020

8 AM OPENING SESSION

9:30-10:30 AM SESSION (select one)

BLS - Trauma Martini On The Rocks—Mining Trauma Made Easy: Reuben Farnsworth, NREMT-P You are toned out to respond to a gravel quarry for...(use your imagination and insert favorite mining trauma here). Whether you crave crushing injuries by 30 ton machines, falls, explosions, or just a good fracture, this is the class for you. We will delve into the many unique injuries and mechanisms of injury that occur in mining operations. And don't forget scene safety. Let the mayhem begin!

ALS - OB Complications: Todd Stanhope, MD Course will highlight recognition and stabilization of major obstetric complications, such as obstetric hemorrhage and eclampsia. This course will be interactive and allow opportunity for questions and dialogue of interest.

CC - Delirium: Sarah Pangarakis, MS, APRN, CCNS, CCRN Delirium has been a topic of growing concern for many years, yet it is not generally well understood and the term is often misused. Here we look to explore the causes of delirium in trauma patients. Furthermore, we will identify strategies to treat delirium as well as methods of prevention.

G - Climbing the Ladder—Women in EMS Leadership: Amber Lage, BS, NRP Learn how to build a successful career as a woman in EMS. Chief Lage identifies the challenges of becoming a leader in EMS and provides recommendations for becoming successful.

S - PEARS Skills & Test out: Nicole Arbach, RN, Emily Oltmanns, BSN, RN and Kevin Budig, NRP The Pediatric Emergency Assessment, Recognition, and Stabilization (PEARS) certification course was designed for providers that infrequently see critically ill children. The main focus of PEARS training is prevention, and specifically the emergency assessment, recognition and stabilization of pediatric victims at risk of severe cardiopulmonary distress. Through unique learning tools, such as video-based simulation, providers can see and hear critically ill children, equipping you to recognize the symptoms and begin stabilization prior to arrest. This emergency pediatric certification course is video based with instructor-led discussion and simulation. Students participate in, practice and complete various skills and learning stations. Key topics are: pediatric assessment, compromise/arrest/recognition/management of respiratory and circulatory, shock recognition and management, and resuscitation. This session is 2 hours.

PREREQUISITE: PEARS Workshop - held Thursday 3/5 from 4 PM - 8 PM.

Completion of this session provides AHA PEARS certification. This session is worth 2 CEs.

10:45-11:45 AM SESSION (select one)

BLS - Wellness & Self Care: Steve Carlson A critical incident is any traumatic event that is outside the usual range of human experience. Emergency Medical Service personnel experience more traumatic events than the general public as "part of the job" and generally cope very well. However, critical incidents may evoke strong reactions in even the most experienced responder and have the potential of causing a traumatic stress reaction that may impair cognitive, emotional, spiritual or physical function. This session aims to explore recognition of traumatic events to an individual and detail various coping mechanisms for dealing with reactions to traumatic events.

ALS - Emergency Care of Crashing Kids: Scott DeBoer, RN, MSN, CPEN, CEN, CCRN, CFRN, EMT-P Caring for a critically ill child can cause anxiety and fear in even the most seasoned of medical professionals. Children have many of the same diseases and conditions as adults, yet the assessment and management principles will differ in some areas while similar in others. This lecture will review the essential components of a rapid pediatric assessment, along with some "just like adults" treatment tips. Through the use of real-life case studies, critical care and emergency personnel will come away better able to provide care for crashing kids.

CC - Neurosurgical Trauma: Kyle Nelson, MD This class will cover acute neurosurgical trauma diagnoses and treatment options, including basic field stabilization techniques

G - Vaping—The Good, The Bad & The Ugly: Thad Shunkwiler, MA, LMFT, LPCC, ACS, CCMHC Traditional leaf tobacco cigarette use is at an all-time low. Before we can celebrate victory against cigarettes, we must tackle the growing concern of vaping. While many are quick to point out that vaping is a safer alternative to cancer producing leaf tobacco, few understand the continued health complications that nicotine presents to the brain. This workshop is designed to educate participants on the growing phenomena of vaping while emphasizing the risks of nicotine on mental health and the brain. In addition to examining the use of nicotine through vaping, prevention strategies will be discussed. Participants will understand the issue of vaping and leave with a practical approach to address it within their respective field of practice.

Each session is worth 1 CE unless noted.

TRACKS: **BLS** = Basic Life Support, **ALS** = Advance Life Support, **CC** = Critical Care, **G** = General, **S** = Skills

Session Descriptions | Friday, March 6, 2020 - CONT.

12-1 PM SESSION OR LUNCH (select one)

BLS - Suicidality Among Emergency Responders & What Can Be Done: Chris Caulkins, EdD, MPH, MA, NRP and Brittany Miskowiec, PhD The purpose of this session is to arm the audience with knowledge about psychological trauma and suicide among emergency responders. This session includes relevant statistics, leading theories and what can be done to help those in need.

ALS - Advanced 12 Lead—The Lewis Lead, Multi Focal A-Tech and 10 Things You Never Saw on A 12 Lead: Reuben Farnsworth, NREMT This session will do a quick review of basic 12 lead principles, followed by discussion and lecture on in depth 12 lead findings to include, electrolyte abnormalities, differentiating multifocal A-Tach from A-Fib, the Bix Rule, diagnosis of sub-endocardial MI, hypertrophy, pericarditis, interventricular conduction delay and many more advanced 12 lead findings.

CC - Intro to Point-of-Care Ultrasound (POCUS): Chad Roline, MD This is an introductory lecture presenting the use of bedside point-of-care ultrasound. The focus will be on the application of ultrasound to help guide the resuscitation of critically ill patients with video reviews of both normal and abnormal ultrasound findings.

G - Comeback Diseases: Lexie Barber, MPH This session will cover a description of measles, hepatitis, syphilis, pertussis, and varicella. The session will also discuss why some of these diseases are coming back and what you can do to protect yourself.

S - Patient Assessment: Timothy Birkemeyer, NREMT A review of proper assessment skills for patients suffering medical or trauma related injuries.

1:15-2:15 PM SESSION OR LUNCH (select one)

BLS - Chemical Burns: Jon Gayken, MD

ALS - 12-Lead Occlusions: Brian Imdieke, NRP, FP-C This presentation illustrates the importance of understanding/recognizing the early signs of coronary occlusion and not simply looking for STEMI. Myocardial infarction is a dynamic process and, as such, EKG monitoring will also be dynamic. Aside from obvious STEMI this presentation will expand on signs of peri-arrest during infarction as well as treatment(s).

CC - Sepsis: Cameron Berg, MD

G - Blood Products - Basics of Blood Components for Transfusion Therapy: Nancy VanCubren, MD Whole blood is a complex mixture of red cells, platelets, coagulation proteins and other elements, each with a different and important function. Blood components are prepared from a single donation, but attention has more recently been focused on the use of whole blood in some settings, including pre-hospital transfusion. This presentation provides information about the use of blood products for transfusion therapy that nurses, medics and first-responders need to know.

S - Trauma Management: Paul Wampler, NRP Let's get back to basics and do some hands-on bleeding control, shock management, and splinting. With all the gadgets, kits, bandages and new meds out there, it can be overwhelming when it comes to trauma management, but don't forget the basics. Paul will talk about his approach from a wild medicine perspective and believe that "old school is the best school!". Just saying! Bring 2-4 bandanas, 2 rubber bands, and a 1" roll of gorilla tape or good ol' duct tape will work too.

2:30-3:30 PM SESSION (select one)

BLS - Death By Drugs—Current Trends: Kirk Hughes, RN This session will discuss the most recent trends seen in drugs of abuse locally, regionally & nationally. Some new information on opioid substitutes will be discussed (i.e. loperamide & kratom) and medical issues that can be seen with these by EMS. We will also discuss the evolving trends seen with "K2" or "Spice" exposures.

ALS - To Tube or Not To Tube—Ped Airway: Scott DeBoer, RN, MSN, CPEN, CEN, CCRN, CFRN, EMT-P Imagine you are three years old, intubated, paralyzed, wide awake and afraid. Recent studies have demonstrated that neuromuscular blockers continue to be used incorrectly, resulting in the horrific state of chemically induced, under-sedated paralysis. Rapid sequence intubation, which was once confined to the OR environments, is becoming a frequently utilized adjunct to airway management in prehospital, emergency and critical care medicine. Consequently, an understanding of the commonly administered medications is essential. This session includes a review of techniques and criteria for different intubation options through case studies.

CC - Critically Caring & the Dynamic Duo: Alex Trembley, BS, NRP and Joseph Baker, BS, NRP This course identifies the most frequent gaps in critical care transfers and offers solutions.

G - Hospice Care in EMS: Reuben Farnsworth, NREMT "Medic 41, please respond to 911 Emergency Way for a 54 year old female with terminal breast cancer and agonal breathing." When you arrive the patient's husband tells you that he thinks his wife is dying and she has a DNR. What do you do now, why are you even here? In the course, we will talk about the complicated social dynamic that can exist with hospice patients and how to handle these often difficult encounters.

S - LVAD: Marc Conterato, MD, FACEP, FAEMS This course will discuss left ventricular assist devices (LVAD), what they are, common types, uses for and patient selection. In addition, we will discuss evaluating the LVAD patient, vital signs in LVAD patients, common LVAD problems, troubleshooting an LVAD in the field, resources for LVAD patients in the field, and patient disposition.

Each session is worth 1 CE unless noted.

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8 AM OPENING SESSION

9:30-10:30 AM SESSION (select one)

BLS - Geriatric—Dementia & Alzheimer's: Timothy Birkemeyer, NREMT Discussion and ideas for assessing geriatric patients and those suffering from dementia or Alzheimer's.

ALS - Ease the (After) Load—High Dose Nitrates for Sympathetic Crashing Acute Pulmonary Edema (SCAPE): Michael Perlmutter, Paramedic In this session, we will discuss the pathophysiology of heart failure and pulmonary edema, focusing on mechanisms underlying life-threatening cases and the treatments we can use to prevent death. We will discuss conventional treatments such as sublingual nitroglycerin and CPAP and new modalities, such as high dose IV bolus nitroglycerin and calcium channel blockers.

CRITICAL CARE - Current Trends in TXA: Cass Topinka, BS, NREMT-P, FP-C Tranexamic Acid (TXA) was first synthesized in 1962. Since then, the World Health Organization has included it in their "list of essential medicines". Research is ongoing but with the release of the CRASH-3 trial and clinical findings that point to early administration, TXA is finding its way into EMS protocols nationwide. This class is a deep dive into TXA including current research findings, current uses and future trends.

GEN - Post-Traumatic Growth—Finding Benefits within Challenges: Daniel Sundahl, Paramedic Daniel will share his journey from battling demons to purging nightmares through the creation of art. He will share his art based on calls attended as a paramedic and firefighter. You will connect with these stories through your own experiences and realize you are not alone. Discover what Daniel has done and continues to do to build resilience and recover from mental stresses. Post-traumatic growth is more than recovering, it's about reconfiguration and becoming a better person than before the injury occurred.

SKILLS - 8 Hearts in a Duffel Bag: Scott DeBoer, RN, MSN, CPEN, CEN, CCRN, CFRN, EMT-P, Lisa DeBoer In this pig dissection and interactive lab, we'll review pediatric medical and traumatic cardiac emergencies. For all hospital and pre-hospital medical professionals, this session is worth 2 CEs and is two hours long.

Quote from attendee:

"[This is] a great way to gain knowledge on a variety of different topics from some great speakers, connect with vendors & those from other services, and the lunches are spectacular! Worth the time and money!"

Chris, Paramedic, Marshall, MN

10:45-11:45 AM SESSION (select one)

BLS - Wilderness Medicine 2.0: Peter Tanghe, MD In this session, we will review some of the common infections that people encounter in wilderness settings. We will discuss preparation, prevention, recognition and treatment. Topics include wound care, wilderness dermatology and ways to manage infectious disease when you are far away from a clinic and pharmacy.

ALS - What's In My Patient? The Good, the Bad and the Implanted: Reuben Farnsworth, NREMT-P This course takes a look at all the gadgets our patients have to aid their medical situation. We will cover common devices that are implanted and attached, while discussing common issues with these devices and the best methods for EMS providers to assist in their operation or malfunction.

CC - Lost Without a Map: Alex Trembley, BS, NRP and Joseph Baker, BS, NRP This course brings critical care providers new information about Mean Arterial Pressure and its role in resuscitation of the hypotensive patient.

G - Special Populations—A Paramedic-Father's Perspective: Nathan Little, NRP Caring for pediatric patients creates anxiety not only for parents, but also healthcare providers. But what happens when the child has special needs? This session will address developmental delays, deaf/hard of hearing, immunosuppression and mental illness in children.

12-1 PM SESSION OR LUNCH (select one)

BLS - Time-Critical Care!: Rob Pearson, NRP Critical patients need us to make quick decisions, accurate interventions and rapid transport. This session will explore the concept of time-critical interventions, controlling your response to adrenaline and setting priorities. First responders, police officers, firefighters and EMS all experience stress. This session will teach you how to control it!

ALS - How Not To Blow It—Vent Strategies: Billie Sell, NRP, FP-C You have a patient in severe respiratory compromise. What is the best ventilation strategy? Do you use CPAP? BiPAP? Or intubate and use a ventilator? How do you use a ventilator? What is a ventilator? Today's EMS providers are expected to use ventilators as a part of their everyday job, no longer is it just critical care providers. In this lecture, we will discuss the various ventilation strategies available in today's EMS. We will learn more about ventilator modes and breath types as well as when and how to use them.

This course is a PREREQUISITE for "Vent Management" session."

CC - Pressure Injuries: Sarah Pangarakis, MS, APRN, CCNS, CCRN and Megan Anderson, RN Pressure injuries are highly concerning for us as care providers—but especially in trauma patients. Why? We aim to explore this and illustrate the common pressure injuries seen, why we see them, and what we can do to prevent and treat them before they become problematic.

Each session is worth 1 CE unless noted.

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Session Descriptions | Saturday, March 7, 2020 - CONT.

G - Lessons in Rural EMS Leadership: Jared Oscarson, NRP, FACPE The struggles of rural EMS and healthcare can be difficult to navigate and overcome. This session will discuss these challenges and provide valuable and tangible information that rural leaders can build upon. You will learn about successes and failures in developing systems, the importance of challenging the status quo and building a system around positive patient outcomes and sustainability.

S - Special Needs Patient Assessment: Timothy Birkemeyer, NREMT This session is an overview of vital signs and pain assessment with geriatric or special needs patients.

1:15-2:15 PM SESSION OR LUNCH (select one)

BLS - Trauma Case Studies—Onset to Outcome: Pat Lilja, MD Walk through trauma cases from point of injury to outcome. These cases will present key assessment, evaluation and critical thinking.

ALS - One Pill Can Kill: Kirk Hughes, RN This session will focus on medications that can cause serious morbidity or mortality in the pediatric population when just one pill is ingested. Sulphonylureas, beta-blockers, calcium channel blockers and the like can be serious in overdose situations. We will discuss potential clinical effects and mechanisms of action for these potentially dangerous substances.

CC - Common Sense Lab Values: Cass Topinka If we're being honest, some of us haven't looked at lab values since school. Whether you run your own "point-of-care" labs, take interfacility transfers, use a ventilator, administer blood products or simply want that hint that your patient is precariously unstable, you should have a basic understanding of which labs matter when.

G - From Paramedic to Pediatric President—EMS Entrepreneurs, Inventions & Innovations: Lisa DeBoer Where are you going in your career? Is this the right job? Do you feel like you have ideas but never say or do anything or just don't know where to start? We'll review amazing contributions and inventions that emergency medical professionals have made to improve lives. We'll look at some start-up companies from conception to creation, and learn how they turned turmoil into trademarks, and tragedies into triumphs. Discover how our EMS brothers and sisters dared to live their dreams and consider what your legacy will be!

S - 12 Lead EKG Rapid-Fire Review: Alex Trembley, BS, NRP and Emily Oltmanns, BSN, RN Join Alex and Emily for a one-hour EKG Rapid Review. Participants will engage in a live 12-lead EKG interpretation session including STEMIs and common look-a-likes including hypothermia, hyperkalemia, and early warning signs of occult myocardial infarcts. Plan on a fast-paced, interactive EKG review. Ideally, participants should have some baseline EKG interpretation experience, but it is not required.

2:30-3:30 PM SESSION (select one)

BLS - Landing Zone Selection—A Pilot's Point of View: Joe Platt The picking of a helicopter landing zone can be daunting task for even the seasoned first responder. There is a myriad of things to consider when choosing a safe landing zone and it can be challenging to recall flight crew needs. This session will give first responders another tool for their "tool bag" to make landing zone selection a breeze. Presented by a helicopter pilot.

ALS - Treating for Two—What to Expect When Your Patient is Expecting: Reuben Farnsworth, NREMT You are called to a female 38 weeks pregnant in active labor, dispatch is requesting that you expedite. If you are like many EMS providers, this call gives you goosebumps. Have no fear, we will dispel some of the hype and cover management of field delivery and discuss some of the critical complications that can occur.

CC - ECMO Advances: Marc Conterato, MD, FACEP, FAEMS Extracorporeal Membrane Oxygenation (ECMO) therapy adds oxygen to the blood and pumps it through the body like the heart. ECMO is like a heart-lung machine used in heart surgery and can be used for longer periods of time. Learn about applications of ECMO and the research that's been built into these current uses.

G - Tattoos, Tongues, Teens & Trauma—Emergency Implications of Body Piercing/Tattooing: Scott DeBoer, RN, MSN, CEN, CPEN, CCRN, CFRN, EMT-P Body modifications have been practiced for thousands of years, seemingly only recently has it become an 'epidemic', especially among teens and young adults. Through real-life case studies, this class will answer questions involving airway management, resuscitation, trauma care and obstetrics.

S - Vent Management: Billie Sell, NRP, FP-C We will take a comprehensive hands-on look at ventilator management strategies as it relates to pre-hospital transport in both EMS and aeromedicine industries. We will have multiple ventilators available with scenarios to help learn ventilator strategies.

PREREQUISITE: "How Not to Blow It: Vent Strategies" on Saturday 3/7 from 12 PM-1 PM.

Each session is worth 1 CE unless noted.



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TRACKS: **BLS** = Basic Life Support, **ALS** = Advance Life Support, **CC** = Critical Care, **G** = General, **S** = Skills

Meet the Speakers

Megan Anderson, RN Megan Anderson is a Certified Wound, Ostomy, Continence Nurse (WOCN) at North Memorial Health Hospital in Robbinsdale. Previous to becoming a WOCN, she was a trauma-neuro intensive care staff nurse and skin champion at North Memorial Health Hospital for 10 years. Megan works with the Minnesota Hospital Association (MHA) Pressure Injury Prevention Advisory Group and has provided some consulting services through MHA regarding best practice for pressure injury prevention throughout the state.

Joseph Baker, BS, NRP is a critical care paramedic with a passion for education, EMS leadership and provider growth.

Lexie Barber, MPH is a senior epidemiologist at the Minnesota Department of Health in the Vaccine Preventable Diseases Surveillance Unit. Prior to starting at MDH last year, Lexie was the VPD epidemiologist for the North Dakota Department of Health. She received her MPH from the University of Minnesota and her undergrad in Microbiology from North Dakota State University.

Timothy Birkemeyer, NREMT began working in EMS in 1994, and continues to volunteer with a local volunteer fire department. Tim formerly worked as a fire chief, ambulance director, and has been North Memorial EMS Education as an Education Coordinator & EMS Educator for the Redwood Falls/Marshall Region. Tim & his wife recently formed their own EMS training center in Southern Minnesota offering EMR, EMT & CPR/First Aid courses.

Kevin Budig, NRP is a Paramedic and Advanced Educator for North Memorial Health Professional Education, having served for over 27 years in a variety of roles with North Memorial Health, Northfield Hospital EMS, Hennepin Technical College and Riverland Community College.

Steve Carlson has worked in public safety for over 40 years, primarily in EMS as a paramedic. He has also worked with law enforcement, fire/rescue, communications and as a member of a sheriff's dive team. Steve has worked with CISM Teams for over 30 years. He has worked as a chaplain with a variety of emergency service agencies for over 15 years. Steve is a Certified Crisis Chaplain with the National Center for Crisis Management and a member of their speakers bureau.

Chris Caulkins, EdD, MPH, MA, NRP is the Executive Director of the Minnesota Center of Suicidology and has researched, presented, and published on suicide at a state, national and international level. He is a practicing paramedic for the City of Woodbury and faculty of EMS health sciences at Century College. Dr. Caulkins became a suicidologist after the suicide death of his wife. His resolve strengthened after the suicide death of his brother and multiple public safety colleagues. He is a member of the National Alliance on Suicide Prevention and co-chairs the Lived-Experience Special Interest Group of the International Association for Suicide Prevention.

Marc Conterato, MD, FACEP, FAEMS was a chief resident, and served as a Shuttle Support Physician for NASA at Cape Kennedy. He also served as an independent contractor to the USAF at Patrick Shores AFB in Florida. Dr. Conterato joined North Memorial Health in July 1992 and became Associate Medical Director at North Memorial Health Ambulance Service in 1993. In 2013, he joined with Dr. John Lyng and Dr. Pat Lilja to form the Office of the Medical Director for NMAS. During this time, he received a Meritorious Service Award from the Minneapolis Fire Department and served as the Medical Director for the Medical Support Team of the Minneapolis Police Emergency Response Unit. Currently, Dr. Conterato continues his role with NMAS and has developed and implemented guidelines for the administration of hypothermia in the field for resuscitated cardiac arrest patients. He also developed and acts as medical director for the Resuscitative Hypothermia program at North Memorial Health Hospital. He currently serves as a Unit Physician for Minnesota Task Force 1, an urban search and rescue unit and is the physician director for the MN Mobile ECMO Consortium.

Scott DeBoer, RN, MSN, CPEN, CEN, CCRN, CFRN, EMT-P has over 25 years of neonatal/pediatric/adult flight nursing, as well as staff nurse positions in intensive care and emergency/trauma nursing. He presently works as a critical care transport nurse for MedEx Chicago and is a national speaker for Pedi-Ed-Trics seminar company dedicated to teaching better ways to care for kids. Scott is the author of "Emergency Newborn Care: The First Moments of Life", for paramedics, respiratory therapists and emergency nurses.

Lisa DeBoer started in EMS in 1991 working for a private ambulance service with dreams of becoming part of a medevac flight team. After living through a horrific ambulance crash that ultimately put her on the path to becoming an EMS director of public relations, entrepreneur, and finally the Co-Founder and President of Pedi-Ed-Trics Emergency Medical Solutions, LLC. Pedi-Ed-Trics is now one of the largest dedicated pediatric emergency education companies in the United States and is actively taking a global direction, providing pediatric programs in Australia, New Zealand, Chile, Argentina and providing pediatric resource books and materials for nurses, medics and respiratory therapists around the world. Helping to save the lives of children through education remains at the heart of all Lisa and her husband, Scott DeBoer, do on a daily basis.

Reuben Farnsworth, NREMT-P is a Critical Care Paramedic and Education Coordinator with Delta County Ambulance District in Colorado. With 29 years of volunteer and career EMS service, he is a RockStar Medic and national speaker.

Quote from attendee:

"Amazing speakers, excellent vendors, a variety of classes for all levels providing patient care, and the food and hospitality are second-to-none. I look forward to coming to this conference every year!"

- Trauma professional

Meet the Speakers

Jon Gayken, MD is a general surgeon in Minneapolis who received his medical degree from University of Minnesota Medical School. He completed his residency at Hennepin Healthcare and continues to work there. Dr. Gayken's interest in burn surgery began when he was a patient in Hennepin Healthcare's burn unit over 20 yrs ago while recovering from skin grafting on nearly 40% of his body. He is particularly interested in long-term reconstructive and functional outcomes in burn patients as well as acute care management.

Kirk Hughes, RN is the Education Director & Poison Control Specialist at Minnesota Poison Control Center. He has over 25 years of experience in EMS as an EMT, Firefighter and RN and is an investigator for the Hennepin Medical Examiner's Office. Kirk is also published in various medical journals including The Journal Clinical Toxicology.

Brian Imdieke, NRP, FP-C has been a ground paramedic for 5 years and flight medic for 9 years. Since 2010, he has worked part-time as an instructor for St. Cloud Community/Technical College.

Joe Klatt has 20+ years of military aviation experience and 9 years of helicopter Emergency Medical Service. As an air care instructor pilot, he is responsible for training and evaluating operational capability and safety of company pilots. Joe is also a First Responder for North Crow Wing County Zone 3 First Responders in the Breezy Point/Pequot Lakes area.

Amber Lage, BS, NRP is the Deputy Chief of Emergency Medical Services for the Minneapolis Fire Department, where she has proudly served for over 20 years. Throughout her career, she has held the ranks of firefighter, fire motor operator, captain, staff captain and deputy chief. Amber is also a nationally registered paramedic with a Bachelor of Science degree in Therapeutic Recreation from the University of Wisconsin.

Pat Lilja, MD is a board-certified emergency physician who has been involved with EMS for over 40 years. He focuses on providing the best care to customers with acute medical problems. Dr. Lilja was the first resident in the Emergency Medicine Program and Hennepin County Medical Center. He is also an oral examiner for the American Board of Emergency Medicine. His current practice relates to helping North Memorial Health Ambulance and Air Care providers deliver the best emergency care available.

Peter Lindbloom, MPAS, PA-C, RDMS is a former paramedic who has worked for over two decades as a physician assistant in both rural and urban emergency departments. He is currently working in Trauma, Emergency General Surgery and Surgical Critical Care at North Memorial Health Hospital.

Nathan Little, NRP has been a paramedic for over 14 years and is the father of two special needs children.

Brittany Miskowiec, PhD has worked as a licensed independent clinical social worker and suicidologist for over a decade. She has extensive experience working with law enforcement, firefighters, EMS and military personnel. In her work with each of these populations and settings, Dr. Miskowiec has focused on suicide prevention, intervention, and postvention. She has a private practice where she sees emergency responders and military personnel individually and provides consultation and education. She is also on the Board of Directors for the Minnesota Center of Suicidology and teaches social work classes at two universities.

Kyle Nelson, MD joined Metropolitan Neurosurgery in 2014. He is board certified by the American Board of Neurological Surgery, specializing in brain tumors, epilepsy, minimally invasive spine surgery, spinal and cranial trauma, vagal nerve stimulation, and deep brain stimulation. Dr. Nelson is a member of the Congress of Neurological Surgeons and the American Association of Neurological Surgeons. He regularly participates in the Abbott Multidisciplinary Tumor Conference and the weekly United Multidisciplinary Epilepsy Conference.

Emily Oltmanns, BSN, RN is the RN educator for North Memorial Health Ambulance and Professional Education. After eight years as a paramedic at HCMC EMS, she earned a BSN from Capella University and worked as an ED nurse at West Health.

Jared Oscarson, NRP, FACPE is the Senior Vice President of Business Relations for Ready Responders, an innovative mobile healthcare company based in New Orleans. Jared is the former EMS Director at Dodge Center Ambulance. He speaks at national conferences on various EMS topics. Jared is a Fellow of the American College of Paramedic Executives and a graduate of the Ambulance Service Manager Program (ASM).

David Page, MS, NRP is the Director of the Prehospital Care Research Forum at UCLA, and a field paramedic with Allina Health EMS in Minneapolis/St. Paul. He is a PhD candidate and senior lecturer at Monash University. David serves as the chair of the assessment and credentialing board for the newly created International Paramedic Registry (IPR). He is an internationally recognized author, speaker and researcher who has over 34 years of active EMS street experience. He was awarded the 2017 NAEMT Presidential Award, the 2016 Pinnacle Leadership Award, and the 2012 EMS 10 Innovator Award.

Sarah Pangarakis, MS, APRN, CCNS, CCRN is an advanced practice clinical nurse specialist (CNS) in critical care implementing clinical evidence into practice to improve patient outcomes. Sarah has presented locally and nationally and has published on clinical topics. Sarah has served on the MN NACNS Board of Directors as President, Treasurer, and planning committee. Sarah was also an adjunct faculty member at Minnesota State University Moorhead School of Nursing. She has taught CNS students, undergraduate nursing students, and served as a clinical instructor for nursing students in Guatemala.

Meet the Speakers

Rob Pearson, NRP is a fire service instructor and EMS educator recently retired from North Memorial Health Ambulance and Air Care after 33 years of service. In 2018, the Minnesota Ambulance Association named him EMS Educator of the Year and in 2019 was awarded the EMS Star by Governor Tim Walz.

Michael Perlmutter, Paramedic is a medical student at the University of Minnesota Medical School, as well as a paramedic at North Memorial Health Air Care and Metro ALS, where he has worked for the last 9 years. He has presented at national and international emergency medicine and EMS conferences and published work in his areas of interest, including ketamine, advanced airway management and sepsis care.

Chad Roline, MD is an EPPA emergency medicine physician practicing at North Memorial Health Hospital and Maple Grove Hospital. Dr. Roline has a special interest in the use of bedside ultrasound in critical care.

Lance Ross, MBA is the Manager of the Emergency Management Program at North Memorial Health. He is also a Team Leader for the Minnesota Type III All Hazards Incident Management Team. Lance has been involved in emergency planning and response throughout the country. He has 20 plus years experience in emergency management and healthcare response.

Billie Sell, NRP, FP-C is a 16 year veteran in EMS and she currently works for North Memorial Health Air Care. Billie is also adjunct faculty for the paramedic program at South Central College in North Mankato.

Thad Shunkwiler, MA, LMFT, LPCC, ACS, CCMHC is a licensed mental health professional and works as an Assistant Professor in the Department of Health Science at Minnesota State University, Mankato. His research interests include how chemical use impacts mental health symptomology and substance use prevention. He has spoken at numerous national conferences.

Todd Stanhope, MD completed residency training in OB/Gyn at Mayo clinic in 2014 and then began his career providing short term coverage in hospitals large and small across Minnesota, Wisconsin, Missouri and Maine. During this time, he also completed two missions to South Sudan with Doctors without Borders. These experiences brought a wealth of clinical experience in both high and low resource settings. He joined North Memorial Health full time in February 2016 and currently serves as Medical Director for Women and Children's Services at the Robbinsdale campus and as lead clinician for the North Memorial Health System OB Clinical Practice Council.

Daniel Sundahl, Paramedic is an advanced care paramedic, firefighter, pre-hospital educator, professional public speaker, photographer and photo editor. He is passionate about reducing the stigma of PTSD for first responders and uses his art to raise awareness of occupational stress injuries worldwide. He is a published artist and writer. He has been featured in Canadian Paramedicine, JEMS, Fire Rescue Magazine, EMS One, EMS World Magazine and the Canadian Journal of Emergency Nursing.

Peter Tanghe, MD is Board Certified in Emergency Medicine and works clinically at North Memorial Health Emergency Department. He is a Medical Director for NMH Ambulance and the Medical Director for the NMH Community Paramedic Program. Prior to becoming a physician, Dr. Tanghe worked as an EMT in a variety of rural and urban settings.

Cass Topinka, BS, NREMT-P, FP-C is the Critical Care/Air Care Educator for North Memorial Health. With over two decades of experience in various fire, EMS, flight and critical care services, she has accumulated a fair amount of knowledge. Cass is a self-professed "airway nerd" and teaches with a focus on evidence-based medicine as well as high risk/low frequency skills.

Alex Trembley, BS, NRP is the Paramedic Supervisor of Quality and Clinical Development at North Memorial Health Ambulance. He holds a Bachelor's Degree in Quality Management from the University of Wisconsin - Stout and is currently completing his Master's in Public Administration at the University of Wisconsin-Oshkosh.

Nancy VanBuren, MD is Associate Medical Director at Memorial Blood Centers, a division of Innovative Blood Resources and New York Blood Center. She is also Transfusion Services Co-Medical Director with Dr. Jed Gorlin at Hennepin Healthcare HMC and Children's Minnesota. She is board certified in anatomic and clinical pathology with subspecialty certification in blood banking and transfusion medicine after training at the University of Minnesota. She has extensive experience with hospital transfusion practice prior to joining Memorial Blood Centers/IBR in 2015.

Paul Wampler, NRP is a paramedic for North Memorial Health Ambulance and an educator for North Memorial Professional Education.

Pantelan Yang, PA-C was born and raised in Minneapolis/Twin Cities area and completed her physician assistant training at Missouri State University's Physician Assistant Studies Program in Springfield, Missouri.

General Information

Registration fees:

Thursday, March 5

\$30 to \$75—Pre-Conference Fee

Select only one session, dinner is on your own. Choose from 1.5-4 hours of education. You must be registered for the conference to attend a pre-conference session. Stay for the Thursday night social. See "Pre-Conference" section for credit and fee information.

Friday, March 6 and Saturday, March 7

2 day - \$235 (Early Bird) / \$259 (after Feb 14)

Includes both days, 12 hours of education, lunch on Friday and Saturday, Thursday night social, conference t-shirt, pen, lanyard, refreshment breaks throughout both days and Friday night dance.

Friday, March 6 only

1 day - \$119 (Early Bird) / \$129 (after Feb 14)

Includes 6 hours of education, Thursday night social, lunch on Friday, conference t-shirt, pen/lanyard, refreshment breaks and Friday night dance.

Saturday, March 7 only

1 day - \$119 (Early Bird) / \$129 (after Feb 14)

Includes 6 hours of education, lunch on Saturday, conference t-shirt, pen/lanyard and refreshment breaks.

North Memorial Health employee registration fees:

Thursday, March 5

\$30 to \$75—Pre-Conference Fee

Select only one session, dinner is on your own. Choose from 1.5-4 hours of education. You must be registered for the conference to attend a pre-conference session. Stay for the Thursday night Social. See "Pre-Conference" section for specific credit and fee information. There are no employee discounts on pre-conference sessions.

Friday, March 6 and Saturday, March 7

2 day employee - \$159 (Early Bird) / \$179 (after Feb 14)

Includes perks listed above and Friday dance.

Friday, March 6 only

1 day employee - \$80 (Early Bird) / \$90 (after Feb 14)

Includes perks listed above and Friday dance.

Saturday March 7 only

1 day employee - \$80 (Early Bird) / \$90 (after Feb 14)

Includes perks listed above.

Exhibitors & vendors:

Interested in hosting a booth at the conference?

Contact Sonny Knowles at sonny.knowles@northmemorial.com or (763) 581-2460.

Exhibit with us and attend the conference!

All exhibitor packages include one complimentary conference registration for your representative.

Cancellations:

Cancellations must be made by e-mail or in writing.

Refunds will NOT be issued after February 21, 2020.

There are no refunds for 'no shows' or inclement weather. Substitutions will be accepted if prior approval is arranged through the EMS & Professional Education office before February 21, 2020.

Registration deadlines:

- Register before February 14 and receive Early Bird pricing.
- Registrations that are to be billed to facilities must be invoiced prior to February 15 to allow time for us to process billing.
- The Professional Education Office will close at noon on March 5, 2020 so staff can prepare for the conference.
- Walk-In registrations will be accepted at the door on Friday and Saturday for an additional \$50.

Confirmations:

Conference registrations will be sent electronically.

If you do not receive confirmation of your registration, please contact us at

ems.education@northmemorial.com.

Disclaimer:

Conference presenters and presentations are subject to change without notice. We will make every effort to notify you of any changes prior to the conference, when possible.

Continuing education credit:

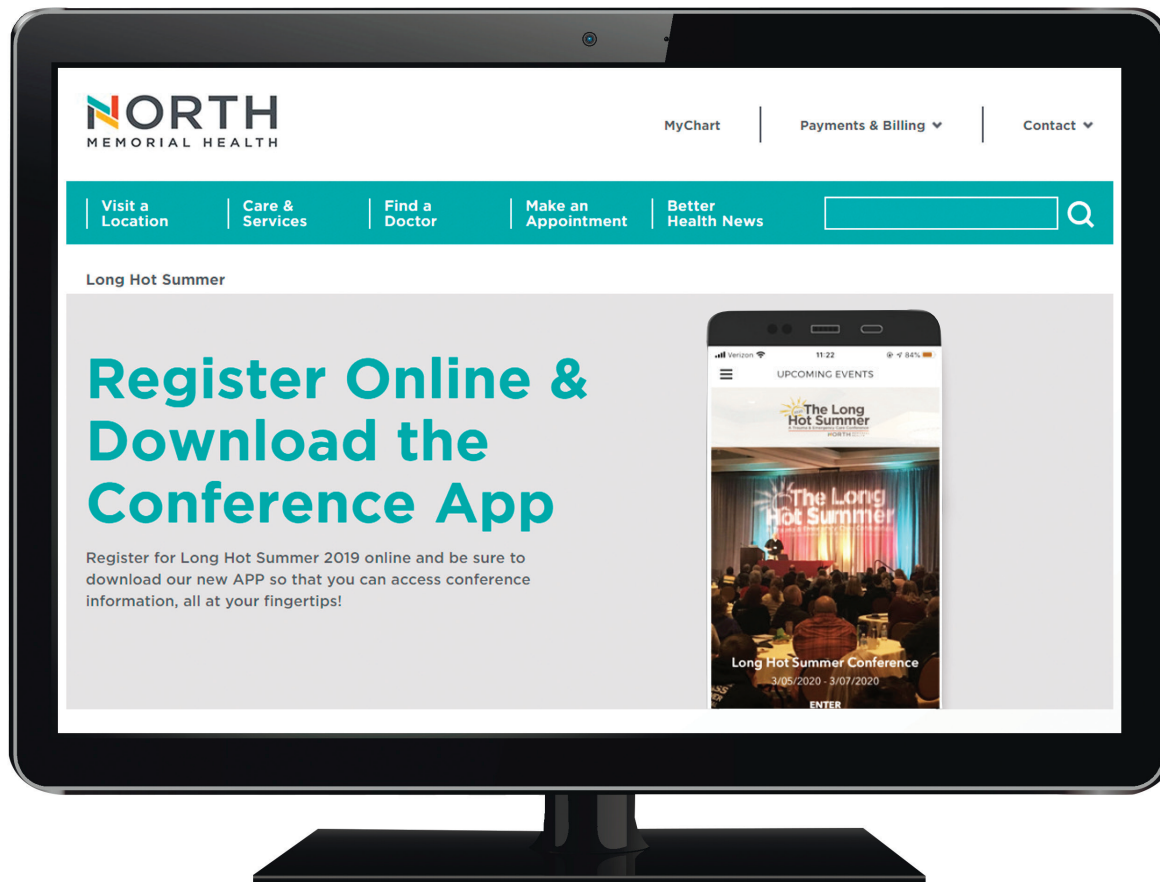
- This program has been designed to meet continuing education requirements for all levels of pre-hospital providers based on guidelines by the National Registry of Emergency Medical Technicians and the Minnesota EMS Regulatory Board.
- This program also meets the Minnesota Board of Nursing guidelines for continuing education. It is the responsibility of the individual to determine if the program meets the Minnesota Board of Nursing criteria.
- Specific sessions are POST (Police Officer Safety Training) approved.

Special needs or services:

If you have special needs or services identified with the Americans With Disabilities Act, please contact North Memorial Health Professional Education prior to the program at **(763) 581-2450**.

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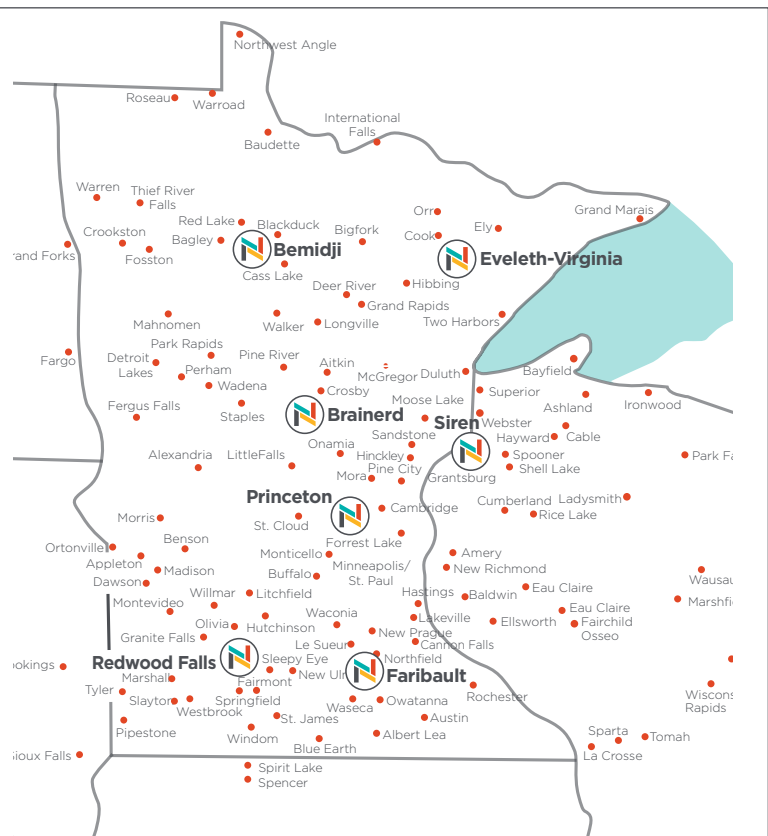
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