



**33rd Annual
Forensic Science Seminar**

October 27-28, 2016

Presented by

Hennepin County Medical Examiner's Office
Minnesota Coroners' and Medical Examiners' Association

Jointly provided by

Minnesota Medical Association
Hennepin County Medical Examiner's Office
Minnesota Coroners' and Medical Examiners' Association



MINNESOTA
MEDICAL
ASSOCIATION





Visit our website!

We invite you to visit the MC&MEA website for the most up-to-date information on the **33rd Annual Forensic Science Seminar**.

From this site you can:

- **Download** seminar handouts (when available) and additional seminar registration forms.
- **Get** driving directions to the seminar.
- **Find** useful links and forms.
- **Learn more** about the Minnesota Coroners' and Medical Examiners' Association.

<http://mncmea.org>

Target audience

Physicians

Medical personnel

Attorneys

Law enforcement

Death investigators

Morticians/funeral directors

Continuing Education Credit

- **Legal (CLE)**
- **Peace Officers Standards and Training (POST)**
- **Medical Examiner/Coroner Investigators (ABMDI)**
- **Medical (CME[‡], Nursing CEU[°])**
- **Mortuary Science CEUs (MDH-MSS)**

Application has been filed for CLE, POST, ABMDI and AAFP credits with the proper accrediting organizations. Determination of credit is pending.

[‡]This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint providership of the Minnesota Medical Association, the Hennepin County Medical Examiner's Office and the Minnesota Coroners' and Medical Examiners' Association. The Minnesota Medical Association (MMA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Minnesota Medical Association (MMA) designates this live activity for a maximum of 14 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credits commensurate with the extent of their participation in the activity.

[°] This activity is designed to meet the Minnesota Board of Nursing's continuing education requirements. Nurses are responsible for determining whether this activity meets the requirements for acceptable continuing education credit.

Program — Day One

Thursday, October 27, 2016



- 7 a.m.** **REGISTRATION** (*complimentary refreshments*)
- 7:30-7:45** **Introduction**
Lindsey Thomas, M.D.
- 7:45-8** **Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT)**
Anne Bracey, M.D.

Objective: Be familiar with the clinical presentation, pathophysiology, diagnosis and treatment of CPVT; know the considerations for postmortem genetic testing for autopsy-negative sudden death
- 8-8:15** **MN Prescription Monitoring Program (PMP) – Another Investigative Tool**
Katrina Howard, Pharm.D.

Objective: Understand the importance of utilizing the PMP and learn quick tips for using the system
- 8:15-9** **Drowning Deaths**
Marisa Jacob, M.D. , FCAP

Objective: Recognize the features of drowning deaths and understand common challenges in their investigation
- 9-10** **The FBI's Next Generation Identification (NGI)**
Gregory Scarbro

Objective: Be aware of information on the current and emerging biometric modalities for unknown deceased identification; increase the medical examiner/coroner community access to FBI services and give input into emerging biometric modalities
- 10-10:15** **BREAK** (*refreshments served*)
- 10:15-11:15** **Buds, Bongs and Bodacious Synthetics**
Kirk Hughes, R.N., E.M.T., C.S.P.I.

Objective: Identify forms of THC and synthetic THC homologs, including medically significant effects of newer synthetic THC homologs; comprehend morbidity/mortality associated with THC and synthetic THC homolog use
- 11:15-11:30** **They Destroyed the %!@%# Common Carotid Arteries AGAIN!**
Jody LaCourt, MLS

Objective: Recognize how important the left and right common carotid arteries are to funeral directors; illustrate the reasons for keeping these arteries intact during an autopsy

- 11:30-12:30 Homicide by Unspecified Means: Investigation of a suspicious adult death without observable injury**
Owen Middleton, M.D.; Heidi Weller, J.D.
Objective: Describe the law enforcement investigation and prosecution of a suspicious death where no injury was found at autopsy
- 12:30-1:30 LUNCH** (*included in registration fee*)
- 1:30-1:45 Case example of the necessity for a full autopsy in suspected drug-related deaths**
Owen Middleton, M.D.
Objective: Recognize the benefit of performing a full autopsy and potential limitations of advanced imaging in drug-related deaths
- 1:45-2:15 Cognitive Bias in Forensic Pathology: What It Is, What It Is Not, and Why You Need to Care**
Andrew Baker, M.D.
Objective: Define the various cognitive biases (motivational, confirmation, contextual) that may affect subjective decision making; distinguish contextual bias from legitimate medical history; list ways to rebut claims of contextual bias contaminating the performance of autopsies
- 2:15-2:30 The Camouflage Shirt**
Lindsey Garfield, B.A.
Objective: Learn about the power of forensic evidence in a homicide
- 2:30-3:00 Once in a Prussian Blue Moon: Death from Thallotoxicosis**
Sean Boley, M.D.
Objective: Be aware of the signs and symptoms associated with thallium toxicity as well as obstacles to diagnosis; describe the differential diagnosis of this toxidrome including other heavy metal poisonings; become familiar with the treatment of thallotoxicosis
- 3:00-3:15 BREAK** (*refreshments served*)
- 3:15-3:45 Unwinding a Twisted Case**
Diana Magaard, B.S.
Objective: Understand the importance of clearly identifying the crime scene, witness and evidence in a large facility with multiple variables
- 3:45-4:30 The Genetic Aspects of Cardiac Disease and Sudden Death**
Heidi Caccamo, B.A.; Sarah Kreykes, M.S.
Objective: Describe how a genetic counselor/genetics expert works with families; comprehend testing options that can be arranged; know follow-up and treatment options for surviving family members; appreciate the proper protocol for sample management and the cases involved

4:30 CONCLUSION OF DAY ONE

4:45-5:30 MC&MEA Annual Meeting

MC&MEA members may remain in the main room for the annual business meeting.

Program — Day Two

Friday, October 28, 2016



- 7:30 a.m.** **REGISTRATION** (*complimentary refreshments*)
- 8:00-8:20** **Unexplained Infectious Deaths: Adenovirus to Zika**
Stacy Holzbauer, DVM, MPH, diplomate ACVPM
Objective: Identify the procedures and information needed to investigate deaths possibly due to an infectious agent
- 8:20-9:00** **New Psychoactive Substances: From Synthetic Cannabinoids to Fentanyl Analogs**
Kevin Shanks, D-ABFT-FT, M.S.
Objective: Learn about the changing scope of new psychoactive substances over the past five years, detection of new psychoactive substances in postmortem toxicology case reports, and how media coverage of new psychoactive substances shapes our reaction to these newly emerged substances
- 9:00-9:30** **That's right—you're not from Texas!**
Susan Roe, M.D.
Objective: Appreciate differences in types of natural and non-natural deaths in Texas compared to Minnesota; recognize the importance of thorough death investigations in natural and non-natural deaths
- 9:30-10** **Alkaline Hydrolysis: A New Greener, Gentler Cremation**
Jason Bradshaw, B.S.
Objective: Gain a basic understanding of how the process works and how it came to be; learn the current status and usage within Minnesota and elsewhere; be aware of its reception by the public in a funeral home setting and how this might affect its usage into the future
- 10-10:15** **BREAK** (*refreshments served*)
- 10:15-11** **Hybrid Gangs and Current Trends**
Andy DuBois; Tonja Tidgwell
Objective: Be familiar with the mindset of hybrid gang members and what triggers the violence; understand what is a "hybrid gang" and the current trends; know names of active hybrid gangs in the cities and help people identify gangs; describe which groups get along and which groups are rivals; appreciate the difference between "traditional gangs" and "hybrid gangs"; comprehend the methods to identify gang activity and social media; discuss past homicides and gang involvement

- 11-11:30** **The Shocking Truth about Postmortem Biomedical Device Removal**
Angela McArthur, B.S., PubHCCC
- Objective: Identify and distinguish between various types of implanted cardiac devices; comprehend the hazards and risks associated with the postmortem removal of implantable cardioverter defibrillators and the hazards and risks associated with cremating implanted biomedical devices; learn about the safe postmortem removal of implanted cardiac devices; be aware of emerging trends in implantable biomedical device design and novel therapeutic applications of implanted biomedical devices
- 11:30-12:30** **Part I--Setting the Bar: A Review of the Murders of Palagor Jobi and Anarae Schunk**
Andrew Baker, M.D.; Lorren Jackson, M.D.; Kathryn Keena, J.D.; Holly Long, B.S.; Detective John Winters, A.A.S.
- Objective: Learn the importance of multidisciplinary cooperation in death investigation, certification, and adjudication; describe how common and atypical features of entrance and exit gunshot wounds are used to determine range of fire; recognize challenges associated with interpreting injuries in the setting of decompositional change
- 12:30-1:30** **LUNCH** (*included in registration fee*)
- 1:30-2:30** **Part II--Setting the Bar: A Review of the Murders of Palagor Jobi and Anarae Schunk**
Andrew Baker, M.D.; Lorren Jackson, M.D.; Kathryn Keena, J.D.; Holly Long, B.S.; Detective John Winters, A.A.S.
- Objective: Learn the importance of multidisciplinary cooperation in death investigation, certification, and adjudication; describe how common and atypical features of entrance and exit gunshot wounds are used to determine range of fire; recognize challenges associated with interpreting injuries in the setting of decompositional change
- 2:30-2:45** **Life Insurance Claims: Reconciling M.E. Reports with Policy Provisions**
Kevin Jacobson, B.S.
- Objective: Know how various life insurance policy provisions are applied to death claims involving suicide, accidents, criminal activity, and other causes of death
- 2:45-3:00** **BREAK** (*refreshments served*)
- 3-3:30** **When it Hits the Fan. Be prepared. Communicate. AKA Crisis Communication**
Maria Elena Baca, B.A.; Carolyn Marinan, B.A.
- Objective: Expect the unexpected. Understand challenges facing medical examiners and coroners in high profile deaths

3:30-3:45

That's a Wrap

Lorren Jackson, M.D.

Objective: Using an unusual case of autoerotic asphyxia, be familiar with the role of investigation and autopsy examination in the certification of unintended death

3:45-4:00

Reporting Workplace Fatalities to MNOSHA

James Krueger, M.A.

Objective: Identify how MNOSHA responds to fatalities and how medical examiners and coroners can work effectively with MNOSHA

4:00 p.m.

CLOSING REMARKS

Lindsey Thomas, M.D.

Faculty

Maria Elena Baca, B.A.

Public Affairs Officer
Hennepin County Communications
Department

Andrew Baker, M.D.

Chief Medical Examiner
Board of Directors, MC&MEA
Hennepin County Medical Examiner's
Office

Sean Boley, M.D.

Toxicology Fellow
Regions Hospital

Anne Bracey, M.D.

Assistant Medical Examiner
President, MC&MEA
Midwest Medical Examiner's Office

Jason Bradshaw, B.S.

President/CEO Bradshaw Group
Bradshaw Funeral & Cremation
Services

Heidi Caccamo, B.A.

Genetic Testing Specialist
GeneDx

Andy DuBois

Special Investigator
MN Department of Corrections

Lindsey Garfield, B.A.

MN Bureau of Criminal Apprehension
Forensic Science Service
Crime Scene

**Stacy Holzbauer, D.V.M., M.P.H.,
diplomate ACVPM**

Career Epidemiology Field Officer
MN Department of Health

Katrina Howard, Pharm.D.

Pharmacist Consultant
MN Prescription Monitoring Program

Kirk Hughes, R.N., E.M.T., C.S.P.I.

Certified Poison Information Specialist
Hennepin Regional Poison Center
Hennepin County Medical Examiner

Lorren Jackson, M.D.

Assistant Medical Examiner
Board of Directors, MC&MEA
Hennepin County Medical Examiner's
Office

Marisa Jacob, M.D., FCAP

Forensic Fellow
Hennepin County Medical Examiner's
Office

Kevin Jacobson, B.S.

Manager
Special Investigations Unit
Securian

Kathryn Keena, J.D.

Criminal Division Head
Dakota County Attorney's Office

Sarah Kreykes, M.S.

Genetic Counselor
University of MN

James Krueger, M.A.

Director, MNOSHA Compliance
MN Department of Labor & Industry

Jody LaCourt, MLS

Senior Teaching Specialist
Board of Directors, MC&MEA
Program of Mortuary Science
University of Minnesota

Holly Long, B.S.

MN Bureau of Criminal Apprehension
Forensic Science Service
Drug Chemistry & Trace & Crime Scene

Diana Magaard, B.S.

Special Investigator/Polygraph Examiner
MN Department of Human Services

Carolyn Marinan, B.A.

Public Relations Officer
Hennepin County Communications
Department

Angela McArthur, B.S., PubHCCC

Director
Anatomy Bequest Program
University of MN

Owen Middleton, M.D.

Assistant Chief Medical Examiner
Board of Directors, MC&MEA
Hennepin County Medical Examiner's
Office

Susan Roe, M.D.

Deputy Medical Examiner
Tarrant County Medical Examiner's
Office

Gregory Scarbro

Unit Chief
Federal Bureau of Investigations

Kevin Shanks, D-ABFT-FT, M.S.

Forensic Toxicologist
AIT Laboratories

Tonja Tidgwell

Investigator of Criminal Intelligence
MN Department of Corrections

John Winters, A.A.S

Detective
Rosemount Police Department

Heidi Weller, J.D.

First Assistant State Attorney
Rock Island County State Attorney

Seminar Planning Team

Dr. Lindsey Thomas

Program Chairperson

Hennepin County Medical Examiner's Office

Dr. Andrew Baker

Hennepin County Medical Examiner's Office

Dr. Anne Bracey

Midwest Medical Examiner's Office

Joan Jung

Hennepin County Medical Examiner's Office

Melissa Lallak

Hennepin County Medical Examiner's Office

Dr. Sarah Meyers

Hennepin County Medical Examiner's Office

Dr. Owen Middleton

Hennepin County Medical Examiner's Office

Dr. A. Quinn Strobl

Midwest Medical Examiner's Office

Location

Doubletree by Hilton - Park Place

1500 Park Place Boulevard

St. Louis Park, MN 55416

Plenty of free parking is available in surface lots at the Doubletree. Maps and directions can be viewed by visiting mapquest.com.

Accommodations

Doubletree by Hilton - Park Place

1500 Park Place Boulevard

St. Louis Park, MN 55416

October 26-27, 2016 at a rate of \$129/night. Space and special rate can not be assured after October 7, 2016.

Room reservations can be made by calling 1-800-245-9190 and mentioning the MN Coroners' and Medical Examiners' Group (Group Code CME).

Registration form (may be photocopied)

I will attend: Thursday, 10/27/16 **and/or** Friday, 10/28/16

Registration fee: \$310 to attend both days – lunch is included

I would like a printed copy of the handouts and have enclosed **\$40**.

I am a physician and have added **\$40**.

Name Job title

Employer County

Office address

(_____) (_____)
Office phone Office fax

----- **COMPLETE e-mail address**

NOTE: We will be distributing a list of attendees and their contact information to all conference participants. If you do not wish to be on this list, please check here.

Choice of lunch entrée for day 1 (served tableside at Doubletree by Hilton Hotel)

Please choose: Roasted Cider Pork Loin **OR**
 Eggplant Parmesan

(Lunch on day 2 will consist of a Southwest lunch buffet served at Doubletree by Hilton Hotel)

Special needs

Please advise us of any special needs you may have regarding facility access, hearing/vision, diet, etc. We will do our best to accommodate you!

Your comfort

Please dress in layers—room temperature is unpredictable.

Payment

Registration check or purchase order
MUST accompany registration and be received no later than October 14, 2016.
NO REFUNDS after October 17, 2016.

Make check payable to:

Hennepin County Medical Examiner

Return completed registration to:

Joan Jung, Seminar Coordinator
Hennepin County Medical Examiner's Office
530 Chicago Ave., Minneapolis, MN 55415

Phone: 612-215-6320

Fax: 612-466-9980

Videotaping and audiotaping are strictly prohibited during the conference.