### Wednesday—Session I

**Pediatric Mortality**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>8:30 a.m.</td>
<td>Pediatric Sudden Unexpected Death (SUD) Due to Undiagnosed Mediastinal T-Cell Lymphoblastic Lymphoma: A Series of Three Cases</td>
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<td>Celeste Santos Martins, MD*; Joseph A. Felo, DO</td>
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<tr>
<td>8:45 a.m.</td>
<td>Variations in Postmortem Perianal Findings in Infants: A Retrospective Review of Non-Traumatic Abnormalities and the Potential Diagnostic Pitfalls in Determining Trauma</td>
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<td>Paulyann Maclayton, MD*; Merrill O. Hines III, MD</td>
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<td>9:00 a.m.</td>
<td>Recognizing the Misuse of Probabilistic Language (PL) and False Certainty in False Accusations of Child Abuse</td>
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<td>Steven C. Gabaef, MD</td>
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<td>9:15 a.m.</td>
<td>Fatal Systemic (Paradoxical) Air Embolism Diagnosed by Postmortem Funduscopy</td>
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<td>Lucy Bradley*, Anna G. McDonald, MD; Patrick E. Lantz, MD</td>
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<td>9:30 a.m.</td>
<td>The Aftermath of Abusive Head Trauma: A Unique Pediatric Disease</td>
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<td>Rudy J. Castellani, MD*; Brittany Erskine, BS; Carl J. Schmidt, MD; Joyce L. deJong, DO; Amanda O. Fisher-Hubbard, MD</td>
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<td>9:45 a.m.</td>
<td>Child and Adolescent Suicide: A Ten-Year (2010–2019) Retrospective Analysis of Medical Examiner Cases in Kentucky</td>
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<td>Marwil C. Pacheco, MD; Terri Mason, MD; Ashley E. Mathew, MD*; Donna Marlowe Stewart, MD</td>
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*Presenting Author

**Toxicology**

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<tr>
<th>Time</th>
<th>Presentation</th>
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<tr>
<td>10:15 a.m.</td>
<td>When Epidemic Meets Pandemic: A Case Series of Pediatric Fentanyl Deaths in Denver, CO</td>
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<td>Sterling McLaren, MD*; Ian J. Puffenberger, MD; Meredith A. Frank, MD; James Louis Caruso, MD</td>
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<td>10:30 a.m.</td>
<td>Infant Deaths Associated With Methamphetamine Exposure: A Case Series</td>
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<td>Khusbu Patel, BA*; Abigail J. Grande, MPH; Elizabeth A. Douglas, MD; Amanda O. Fisher-Hubbard, MD</td>
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<td>10:45 a.m.</td>
<td>The Recent Outbreak of Brorphine Use in Cook County, Illinois</td>
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<td>Lorenzo Gitto, MD*; Ponni Arunkumar, MD; Daniel S. Isenschmid, PhD; Alex J. Krotulski, PhD; Serenella Serinelli, MD, PhD*</td>
</tr>
</tbody>
</table>
PATHOLOGY/BIOLOGY

11:00 a.m. - 11:15 a.m. H10 Isopropanol in Postmortem Vitreous Humor Due to Body Preparation for Tissue Procurement: A Report of Six Cases
Annamaria Melton, BS, BA*; Stephen D. Cohle, MD; Katherine A. Turner, PhD; Carl W. Hawkins, MD; Sarah E. Avedschmidt, MD
(FSF Emerging Forensic Scientist Award Oral Presentation)

11:15 a.m. - 11:30 a.m. H11 Paralytic Shellfish Poisoning Resulting From the Consumption of Shellfish From a Beach in Alaska
Cristin Marie Rolf, MD*; Patryce McKinney, BA, MBA

Wednesday—Session II

Forensic Entomology

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>8:30 a.m.</td>
<td>H12</td>
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<td>8:45 a.m.</td>
<td>H13</td>
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<tr>
<td>9:00 a.m.</td>
<td>H14</td>
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<td>9:15 a.m.</td>
<td>H15</td>
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<tr>
<td>9:30 a.m.</td>
<td>H16</td>
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<tr>
<td>9:45 a.m.</td>
<td>H17</td>
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Break
PATHOLOGY/BIOLOGY

Moderator: Denise Gemmellaro, PhD
Department of Biology, Kean University
Union, NJ

10:15 a.m. - 10:30 a.m. H18 Lucilia eximia (Wiedemann) (Diptera: Calliphoridae) Attraction and Colonization Behavior: A Little-Studied Species With Great Forensic Importance
Samantha J. Sawyer, BS*; Jeffery K. Tomberlin, PhD

10:30 a.m. - 10:45 a.m. H19 Geographic, Landscape, and Sex Variation in Adult Blow Fly Microbiomes: Implications for Forensics
Kadie F. Bernstein*; Joseph P. Receveur, BS; Jennifer L. Pechal, PhD; Nicholas Babcock, MS; M. Eric Benbow, PhD

10:45 a.m. - 11:00 a.m. H20 Seasonal Differences in Soil Fungal Community Successional Patterns Impacted by Long-Term Human Decomposition
Lois S. Taylor, MS*; Allison R. Mason, BS; Jennifer M. DeBruyn, PhD

11:00 a.m. - 11:15 a.m. H21 The Survival of Calliphora Vicina (R.-D.) (Diptera: Calliphoridae), a Forensically Significant Blow Fly, Following Submergence Depends on Life Stage and Submergence Time
Jeffrey Yung, MS*; Vienna C. Lam, MA; Gail S. Anderson, PhD

11:15 a.m. - 11:30 a.m. H22 The Effects of Carrion Clothing Color on Blow Fly Oviposition
Kristi Bugajski, PhD*

Thursday

COVID-19, Other Infections, and Artifacts

Moderator: Erin G. Brooks, MD
University of Wisconsin Hospital and Clinics
Madison, WI

Co-Moderator: Reema Khan, MD
Chicago, IL

1:00 p.m. - 1:15 p.m. H23 The Role of Autopsy in COVID-19 Disease
Isabella Aquila, MD, PhD*; Matteo A. Sacco, MD*; Carlo Filippo Bonetta; Carmen Scalise, MD; Fabrizio Cordasco, MD; Francesco Sicilia, MD; Luigi De Aloe, MD; Angelica Zibetti, MD; Santo Gatteri, MD; Fiorella Caputo, MD; Giulia Cacciatore, MD; Pietrantonio Ricci, PhD

1:15 p.m. - 1:30 p.m. H24 COVID-19 Suspected Deaths Certified by the Florida District 2 Medical Examiner’s Office: Causes of Death and Pre-Existing Medical Conditions
Stephen L. Sgan, MD*; John E. Sgan; Lucas P. Stoey

1:30 p.m. - 1:45 p.m. H25 A SARS-CoV-2 (COVID-19) Experience at an Academic Medical Examiner’s (ME’s) Office
Theodore T. Brown, MD*; Prentiss Jones, Jr., PhD; Kristi Bailey, BS; Abigail J. Grande, MPH; Elizabeth A. Douglas, MD; Brandy Shattuck, MD; Amanda O. Fisher-Hubbard, MD; Jared Brooks, MD; Joyce L. deJong, DO; Joseph A. Prahlow, MD

1:45 p.m. - 2:00 p.m. H26 A Retrospective Analysis of Deaths in Harris County, Texas, for the Detection of COVID-19 Prior to March 2020
Pramod Gumpeni, MD*; Kaeleigh DeMeter, BS*

*Presenting Author
All times are in the U.S. Central Time Zone
2:00 p.m. - 2:15 p.m.  H27 The Identification of Unrecognized COVID-19 Deaths by Nasopharyngeal Swabs at Funeral Homes
Maura DeJoseph, DO; Christina M. Schock, MS; Donald Turbiville, MD; James R. Gill, MD*

2:15 p.m. - 2:30 p.m.  H28 A COVID-19 Profile in Mumbai City, India, With a Humanitarian Forensic Aspect
Manoj Bhausaheb Parchake, MD*

2:30 p.m. - 2:45 p.m.  H29 Suicide Analysis in the Time of COVID-19 in Orange County, California
Kelly Keyes, BS*

2:45 p.m. - 3:00 p.m.  H30 Histological Parameters of Myocarditis in Relation to the Cause of Death in Clinical and Forensic Autopsy Pathology
Hans H. de Boer, MD, PhD*; Romy Du Long, MD; Judith Fronczek; Johannes W.M. Niessen, MD, PhD; Allard van der Wal, MD, PhD

3:00 p.m. - 3:15 p.m.  H31 Evaluating Small Vessel Neutrophils as a Marker for Systemic Infection
Zuzanna Gorski, MD*; Chris Milroy, MD, LLB; Jacqueline L. Parai, MD

3:15 p.m. - 3:30 p.m.  H32 Non-Skeletal Injuries Related to Cardiopulmonary Resuscitation (CPR): An Autopsy Study
Fabiola Righi, DO*; Peter T. Lin, MD

3:30 p.m. - 3:45 p.m.  H33 Extracorporeal Membrane Oxygenation (ECMO) in the Forensic Setting: A Series of 19 Forensic Cases
Andrew J. Layman, MD*; Peter T. Lin, MD

3:45 p.m. - 4:00 p.m.  H34 Postmortem Changes of Female External Genitalia and Their Importance in Suspected Sexual Abuse
Dalia M. Alsafi, MD*; Maram A. Al-Farayedhi, MD; Ghada Alshamsi, SBFLM; Marwah I. Al-Bayat, MD; Osama Al-madani; Magdy Abdel Azim Kharoshah, MD, FFFLM

Friday—Session I

Non-Natural Deaths

**Moderator:** Katherine F. Maloney, MD
Erie County Medical Examiner’s Office
Buffalo, NY

**Co-Moderator:** Angela N. Baldwin, MD, MPH
Office of Chief Medical Examiner
New York City, NY

9:00 a.m. - 9:15 a.m.  H35 Hurricane Harvey: Fatality Overview
Tabitha Ward, MD*; Varsha Podduturi, MD; Pramod Gumpeni, MD

9:15 a.m. - 9:30 a.m.  H36 A Framework for Assessing Mortality and Morbidity After Large-Scale Disasters: The National Academies of Science 2020 Report
Marcella F. Fierro, MD*

9:30 a.m. - 9:45 a.m.  H37 Excited Delirium Unassociated With Police Involvement
Katherine F. Maloney, MD*

9:45 a.m. - 10:00 a.m.  H38 Paschen’s Law and Electrical Burns
Mark E. Goodson, PE*; William Steward, BS

*Presenting Author
PATHOLOGY/BIOLOGY

10:00 a.m. - 10:15 a.m.  
**H39**  
**Electrothermal Fatalities**  
Gert Saayman, FCPath*; Suzan M. Mabotja, FCPath; Stefanie Ferraris, MBChB

10:15 a.m. - 10:30 a.m.  
**Break**

**Moderator:** Hannah C. Jarvis, MRCS  
**Harris County Institute of Forensic Sciences**  
Houston, TX

**Co-Moderator:** Jan M. Gorniak, DO  
**Clark County Office of the Coroner/Medical Examiner**  
Las Vegas, NV

10:30 a.m. - 10:45 a.m.  
**H40**  
**Fatalities Due to Major Vascular Trocar Injuries in Laparoscopic Surgery**  
Hannah C. Jarvis, MRCS*; Gregory M. Dickinson, MD*

10:45 a.m. - 11:00 a.m.  
**H41**  
**The Petechiae Enigma—Manual Strangulation in the Absence of Petechiae**  
J.C.U. Downs, MD*

11:00 a.m. - 11:15 a.m.  
**H42**  
**Axonal Injury Is Detected by β-Amyloid Precursor Protein (BAPP) Immunohistochemistry in Near Instantaneous/Rapid Death From Head Injury Following Road Traffic Collision (RTC)**  
Safa Al-Sarraj, FRCPath*; Guy N. Rutty, MD

11:15 a.m. - 11:30 a.m.  
**H43**  
**Anaphylactic Death: A New Forensic Workflow for Diagnosis**  
Massimiliano Esposito, MD*; Veronica Filetti, MSc; Carla Loreto, MD; Francesco Sessa, MS, PhD; Angelo Montana, MD*

**Poster Session**

11:30 a.m. - 1:00 p.m.  
**H44**  
**Neck Injuries Associated With Strangulation With Cable Ties**  
Andri Traustason*; Carl Johan Wingren, PhD

11:30 a.m. - 1:00 p.m.  
**H45**  
**Otorrhagia in Strangulations: An Important But Often Underestimated Finding in Forensic Pathology**  
Rosario Barranco, MD*; Camilla Tettamanti, MD; Alessandro Bonsignore, MD, PhD; Francesco Ventura, MD

11:30 a.m. - 1:00 p.m.  
**H46**  
**The Reconstruction of the Dynamics in Slash Injuries: A Case of Attempted Murder**  
Luigi De Aloe, MD*; Matteo A. Sacco, MD*; Fabrizio Cordasco, MD*; Fiorella Caputo, MD*; Carmen Scalise, MD; Angelica Zibetti, MD; Giulia Cacciatore, MD*; Carlo Filippo Bonetta*; Francesco Sicilia, MD*; Pietrantonio Ricci, PhD; Isabella Aquila, MD, PhD*

11:30 a.m. - 1:00 p.m.  
**H47**  
**Physical Restraint and Neglect in the Elderly: A Forensic Case and Review of the Literature**  
Carmen Scalise, MD*; Fabrizio Cordasco, MD*; Roberto Raffaele, BE*: Francesco Sicilia, MD; Luigi De Aloe, MD*; Matteo A. Sacco, MD; Fiorella Caputo, MD; Pietrantonio Ricci, PhD; Isabella Aquila, MD, PhD*

11:30 a.m. - 1:00 p.m.  
**H48**  
**Cranial Injury Pattern Analysis in the Reconstruction of a Homicide With a Hammer**  
Carlos Durão; Duarte Nuno Vieira, MD, PhD*

11:30 a.m. - 1:00 p.m.  
**H49**  
**A Fatal Case of Retropharyngeal Abscess Following a Cervical Penetrating Wound**  
Alessandro Santurro, MD*; Federico Manetti, MD; Matteo Scopetti, MD; Martina Padovano, MD; Sara Turco, MD; Antonio Grande, MD, PhD

*Presenting Author  
All times are in the U.S. Central Time Zone  
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11:30 a.m. - 1:00 p.m.  H50  Around the World: A Short Case Series of Atypical Intracranial Bullet Tracks  
*Presenting Author* Keenan Boulnemour, BS*; Joseph A. Prahlow, MD

11:30 a.m. - 1:00 p.m.  H51  A Pen as an Intermediate Target Becomes a Secondary Projectile Causing a Unique Patterned Injury  
Adam Jimenez*; Mark A. Giffen, Jr., DO

11:30 a.m. - 1:00 p.m.  H52  The Alteration of the Appearance of a Gunshot Wound by the Use of a Hemostatic Agent  
Sean M. Reid, BS*; Tiffany O’Neill, DO; Jerri McLemore, MD

11:30 a.m. - 1:00 p.m.  H53  Embolization of Radically Invasive Projectiles (R.I.P.*)  
Richard Morris, MD*; James L. Locke, MD; Pamela E. Southall, MD

11:30 a.m. - 1:00 p.m.  H54  Gunshot Defense Wounds: The Need for a Classification  
Giampiero Bottari*; Cristina Elena Rosa Caterino; Marcello Benevento; Davide Ferorelli; Biagio Solarino, PhD; Silvia Trotta

11:30 a.m. - 1:00 p.m.  H55  Suicide in Older Adults: A Retrospective Study in Cook County, Illinois  
Serenella Serinelli, MD, PhD*; Ponni Arunkumar, MD; Lorenzo Gitto, MD*

11:30 a.m. - 1:00 p.m.  H56  How (Not) to Pop a Cyst at Home: Heart and Lung Perforation After Needle Insertion Into the Chest Wall  
Natalia Belova*; Zabiullah Ali, MD; Andrew Rohrer

11:30 a.m. - 1:00 p.m.  H57  Self-Immolation in a Dumpster  
Wendy M. Gunther, MD*; Gary Zientek, MD

11:30 a.m. - 1:00 p.m.  H58  Pre-Pandemic Trends in Suicide: New Mexico, 2009–2018  
Karen Zeigler, DO*; Sarah Lathrop, DVM, PhD

11:30 a.m. - 1:00 p.m.  H59  The Chainsaw Massacre at the Beginning: An Unusual Suicide With a Jigsaw at the End  
*Presenting Author* Giuseppe Bertazzi, MD*; Stefania De Simone, MD*; Michela Ferrara, MD*; Francesco Maglietta, MD*; Stefano D’Errico, PhD; Luigi Cipolloni, MD, PhD*; Benedetta Baldari, MD*

11:30 a.m. - 1:00 p.m.  H60  A Rare Suicide by a Homemade Explosive With Multiple Suicide Notes: A Case Report and Systematic Review of the Literature  
Matteo A. Sacco, MD*; Carmen Scalise, MD; Luigi De Aloe, MD; Fabrizio Cordasco, MD*; Fiorella Caputo, MD; Francesco Sicilia, MD*; Giulia Cacciatore, MD*; Angelica Zibetti, MD*; Carlo Filippo Bonetta*; Pietrantonio Ricci, PhD*; Isabella Aquila, MD, PhD*

11:30 a.m. - 1:00 p.m.  H61  Multiple Suicidal Gunshot Wounds in Italy: Case Reports and Medicolegal Considerations  
Salvatore Roccuzzo, MD*; Elvira Ventura Spagnolo, MD, PhD; Cristina Mondello, MD*; Chiara Chiara Stassi, MD; Gennaro Baldino, MD; Patrizia Gualniera; Daniela Sapienza; Alessio Asmundo

11:30 a.m. - 1:00 p.m.  H62  Disability-Related Road Traffic Crashes Involving Children  
Ozgenur K. Tok, MD; Mete K. Gulmen, PhD, MD*; Kenan Kaya; Ahmet Hilal, MD

11:30 a.m. - 1:00 p.m.  H63  Widespread Polyvisceral Vascular Angiectasias in an Electrocution Victim: A Case Report  
Sara La Pinto, MD*; Rosario Barranco, MD; Francesco Ventura, MD; Gabriele Gaggero, MD

11:30 a.m. - 1:00 p.m.  H64  Acute Progression of Traumatic Diaphragmatic Laceration With Gastric Herniation in the Context of Underlying Chronic Disease  
Samuel J. Farris, BS*; Joseph A. Prahlow, MD
11:30 a.m. - 1:00 p.m.  H65  Cassowary Fatally Attacks Its Owner
Nanny Wenzlow, DVM, PhD*; William F. Hamilton, MD

11:30 a.m. - 1:00 p.m.  H66  A Fatality by Cattle Hooves in an Elderly Cowherder: Is There a Specific Pattern of Hoof Injury?
Niles Keshav Tumram, MD*

11:30 a.m. - 1:00 p.m.  H67  A Quantitative Investigation of Diatom Dispersion in Lung Tissue of Confirmed Drowning Incidents
Dominik Hagen, BS*; Astrid Obermayer; Walter Stoiber; Walther Gotsmy; Fabio Carlo Monticelli; Stefan Pittner, PhD

11:30 a.m. - 1:00 p.m.  H68  The “Key” Element in a Case of False Decapitation of a Missing Person: A Case Report and Review of the Literature
Luigi De Aloe, MD*; Carmen Scalise, MD*; Francesco Sicilia, MD*; Matteo A. Sacco, MD*; Fabrizio Cordasco, MD*; Silvia Boca; Pietrantonio Ricci, PhD*; Isabella Aquila, MD, PhD*

11:30 a.m. - 1:00 p.m.  H69  An Unusual Presentation of Asphyxia Due to Choking
Alexis Jelinek*; Craig T. Mallak, JD, MD; Darin Trelka, MD, PhD; Rebecca MacDougall, MD

11:30 a.m. - 1:00 p.m.  H70  A Lethal Fat Embolism Syndrome (FES) Related to Spine Surgery: A Presentation of Two Clinical Case Reports
Daivide Radaelli*; Martina Zanon, MD; Martina Montanaro, MD; Alessandro Manfredi; Eleonora Valentini; Stefano D’Errico, MD, PhD; Paolo Frisoni, MD; Letizia Alfieri, MD; Margherita Neri, MD, PhD

11:30 a.m. - 1:00 p.m.  H71  An Unusual Hospital Asphyxiation: Death From the Incorrect Administration of Nitrous Oxide (N₂)
Stefania De Simone, MD*; Francesca Maglietta, MD*; Michella Ferrara, MD*; Giuseppe Bertozzi, MD*; Benedetta Baldari, MD; Alessandra Torsello*; Luigi Cipolloni, MD, PhD*

11:30 a.m. - 1:00 p.m.  H72  Exsanguination Due to Urethral Laceration
Hae-Sun La*; Tanner Bartholow, MD; Todd M. Luckasevic, DO

11:30 a.m. - 1:00 p.m.  H73  Neuropathologic Findings in Fatal Silicone Embolism Syndrome: Potential Contributions to Cause of Death
Sarah C. Thomas, MD*; Michelle Stram, MD; Rebecca Folkert, MD

11:30 a.m. - 1:00 p.m.  H74  A Case of Death Due to Asphyxia From the Use of Mechanical Restraints in a Hospital Environment: Always an Accidental Death?
Carmen Scalise, MD*; Fabrizio Cordasco, MD*; Matteo A. Sacco, MD*; Francesco Sicilia, MD*; Luigi De Aloe, MD*; Massimo Iera, MD; Pietrantonio Ricci, PhD; Isabella Aquila, MD, PhD*

11:30 a.m. - 1:00 p.m.  H75  A Retrospective Review of Deaths in Custody Submitted for Medicolegal Autopsy at a Medical University in South Carolina (2012 to 2020)
Angelina I. Phillips, MD*; James Madory, DO; S. Erin Presnell, MD

11:30 a.m. - 1:00 p.m.  H76  Acute Infectious Esophagitis: Three Cases With Variable Etiologies
Keenen Smith, MS*; Lauren R. Crowson-Hindman, DO*; Angelina I. Phillips, MD*

11:30 a.m. - 1:00 p.m.  H77  Medullary Thyroid Carcinoma (MTC) With Diabetic Ketoacidosis: An Autopsy Case Report and Literature Review
Harin Cheong*; Hyun Lyong Koo

*Presenting Author
11:30 a.m. - 1:00 p.m.  H78  A Fatal Case of *Vibrio Vulnificus* Wound Infection  
*Colin Appleford, DO*; *Kelly G. Devers, MD*

11:30 a.m. - 1:00 p.m.  H79  Sudden Death Due to Leukostasis in a Subject With Untreated Chronic Lymphocytic Leukemia (CLL)  
*Lorenzo Gitto, MD*; *Rohin Mehta, MD*; *Canish Mirchiga, MD*; *Christopher Ramos, MD*; *Serenella Serinelli, MD, PhD*

11:30 a.m. - 1:00 p.m.  H80  Drowning or Something Else? The Uncommon Birt-Hogg-Dubé Syndrome  
*Martina Zanon, MD*; *Marco Carucci, MD*; *Eleonora Valentinuz*; *Martina Montanaro, MD*; *Davide Radaelli*; *Alessandro Manfredi*; *Stefano D’Errico, MD, PhD*

11:30 a.m. - 1:00 p.m.  H81  An Autopsy of a Young Female With Abdominal Pain  
*John X. Hu, MD, PhD*

11:30 a.m. - 1:00 p.m.  H82  A Case of Hamartoma of Mature Cardiac Myocytes (HMCM) Correctly Diagnosed at Autopsy  
*Crystal Magno, MD*; *John Stash, DO*; *Pamela E. Southall, MD*

11:30 a.m. - 1:00 p.m.  H83  The Sudden Death of a Firefighter: A Look at On-Duty Coronary Heart Disease Fatalities  
*Allison Gaines, MBS*; *Abraham T. Philip, MD*

11:30 a.m. - 1:00 p.m.  H84  Subdural Hematoma Due to Central Nervous System (CNS) Histoplasmosis in the Setting of Undiagnosed Human Immunodeficiency Virus (HIV) Infection  
*Keely Coxon, BS*; *J. Matthew Lacy, MD*

11:30 a.m. - 1:00 p.m.  H85  The Importance of the Autopsy in Unknown Infectious Diseases  
*Francesco Sessa, MS, PhD*; *Monica Salerno, MD, PhD*; *Angelo Montana, MD*; *Massimiliano Esposito, MD*; *Cristaforo Pomara, MD, PhD*

11:30 a.m. - 1:00 p.m.  H86  Acquired Tracheoesophageal Fistula (TEF) Secondary to Tuberculosis in a Human Immunodeficiency Virus (HIV) Patient: A Case Report With Review  
*Shashank Tyagi, MD*

11:30 a.m. - 1:00 p.m.  H87  Autism Spectrum Disorder (ASD) and Sudden Cardiac Death: Is There a link? A Case Report and a Literature Review  
*Massimiliano Esposito, MD*; *Aldo Liberto, MD*; *Francesco Sessa, MS, PhD*; *Giuseppe Bertozzi, MD*; *Monica Salerno, MD, PhD*

11:30 a.m. - 1:00 p.m.  H88  The Role of Histopathology Deaths Due to Pulmonary Thromboembolism in Forensic Cases  
*Isabella Aquila, MD, PhD*; *Matteo A. Sacco, MD*; *Carmen Scalise, MD*; *Fabrizio Cordasco, MD*; *Fiorella Caputo, MD*; *Francesco Sicilia, MD*; *Luigi De Aloe, MD*; *Silvia Boca*; *Massimo Iera, MD*; *Pietrantonio Ricci, PhD*

11:30 a.m. - 1:00 p.m.  H89  The Influence of Body Mass Index (BMI) in Autoptic Procedures: An Experimental Study in Forensic Cases  
*Francesco Sicilia, MD*; *Matteo A. Sacco, MD*; *Carmen Scalise, MD*; *Fabrizio Cordasco, MD*; *Fiorella Caputo, MD*; *Valerio R. Aquila*; *Luigi De Aloe, MD*; *Pietrantonio Ricci, PhD*; *Isabella Aquila, MD, PhD*

11:30 a.m. - 1:00 p.m.  H90  Sudden Cardiac Death Due to Vasculitis: Case Reports and a Review of the Literature  
*Cristina Mondello, MD*; *Alessio Asmundo*; *Salvatore Rocuzzo, MD*; *Chiara Chiara Stassi, MD*; *Gennaro Baldino, MD*; *Luigi Cardia, MD*; *Elvira Ventura Spagnolo, MD, PhD*
<table>
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<th>Time</th>
<th>Session</th>
<th>Title</th>
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<tr>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>H91</td>
<td>Death From Peritonitis Due to Multiple Intestinal Perforations: Approaching a Case of Advanced Tuberculosis (TB)</td>
<td>Federico Manetti, MD*; Vittorio Gatto, MD; Matteo Scopetti, MD; Alessandro Santurro, MD; Martina Padovano, MD; Paola Frati, PhD; Vittorio Fineschi, MD, PhD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H92</td>
<td>The Dentist’s Nightmare: A Case of Massive Left Ventricular Infarction After Dental Implantation</td>
<td>Martina Padovano, MD*; Matteo Scopetti, MD; Federico Manetti, MD; Alessandro Santurro, MD; Paola Frati, PhD; Vittorio Fineschi, MD, PhD</td>
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<tr>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>H93</td>
<td>A Rare Case of Sudden Cardiac Death Associated With Isolated Congenital Coronary Artery Anomalies (CAA): Autopic and Histopathological Results</td>
<td>Francesco Sicilia, MD*; Vincenzo Arena, MD; Fabrizio Cordasco, MD*; Ludovico Abenavoli, PhD, MD; Carmen Scalise, MD; Luigi De Aloe, MD; Matteo A. Sacco, MD*; Angelica Zibetti, MD*; Giulia Cacciatore, MD; Fiorella Caputo, MD*; Carlo Filippo Bonetta; Pietrantonio Ricci, PhD*; Isabella Aquila, MD, PhD*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H94</td>
<td>Sudden Death Due to Takayasu Arteritis: A Case Report</td>
<td>Manoj Bhausaheb Parchake, MD*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H95</td>
<td>Subcapsular Hepatic Hematoma in a Pregnant Woman With No Prenatal Care: A Case Report</td>
<td>Suzi Dodt, BS*; John X. Hu, MD, PhD*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H96</td>
<td>A Case of Fatal Hemorrhage During Pregnancy</td>
<td>Lauren Lippincott, DO*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H97</td>
<td>A Sudden Pediatric Death: A Case of Asymptomatic Muscular Dystrophy</td>
<td>Sara Beardsley, BS*; Avneesh Gupta, MD; Kathryn McFadden, MD; Sarah E. Avedschmidt, MD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H98</td>
<td>Sudden Death After Bounce House Activities: A Late Complication of Congenital Diaphragmatic Hernia (CDH)</td>
<td>Kendall Smith, BA*; Brandy Shattuck, MD; James Elliott</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H99</td>
<td>Intrathecal Puncture-Induced Bone Fractures Mimicking Child Abuse: A Case Report</td>
<td>Xin Zhang, MD*; Matthew Wanner, MD; Dominique Battles; Christopher Poulos, MD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H100</td>
<td>Pediatric Cylindrical Battery Ingestion Causing Fatal Aorto-Esophageal and Pulmonic-Esophageal Fistulae</td>
<td>Robin Moiseff, MD*; Kendall V. Crowns, MD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H101</td>
<td>A Fatal Ruptured Saccular Middle Cerebral Artery Aneurysm in a 14-Year-Old Boy: A Case Report</td>
<td>Melissa Menard*; Christopher Glen Ball, MBBS, MScEng; Andrew Williams, MD; Kona Williams, MD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H102</td>
<td>A Molecular Autopsy by Exome Sequencing in a Decedent With Suspected Genetic Cerebral Small Vessel Disease</td>
<td>Nicole A. Croom, MD*; Daniel Vincent Sullivan, MD, MA; Eric Huang, MD, PhD; Ellen Moffatt, MD; Walter P. Devine, MD, PhD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td>H103</td>
<td>Retinal Hemorrhages (RH) in a 6-Month-Old Child Related to Disseminated Intravascular Coagulation</td>
<td>Maria E. Magidenko, BA*; Amanda O. Fisher-Hubbard, MD; Joseph A. Prahlow, MD; Theodore T. Brown, MD</td>
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*Presenting Author

All times are in the U.S. Central Time Zone
11:30 a.m. - 1:00 p.m.  
**H104** Death in the Water? Not Always Drowning!  
Massimiliano Esposito, MD*; Francesco Sessa, MS, PhD; Stefano D’Errico, MD, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)

11:30 a.m. - 1:00 p.m.  
**H105** A Particular Case of Adipositas Cordis in a Girl Suffering From Lymphocytic Myocarditis and Hashimoto’s Thyroiditis  
Francesco Sicilia, MD*; Fabrizio Cordasco, MD*; Giulia Cacciatore, MD; Ludovico Abenavoli, PhD; Angelica Zibetti, MD*; Carlo Filippa Bonetta*; Matteo A. Sacco, MD; Luigi De Aloe, MD; Fiorella Caputo, MD; Carmen Scalise, MD*; Pietrantonio Ricci, PhD*; Isabella Aquila, MD, PhD*

11:30 a.m. - 1:00 p.m.  
**H106** Hand Sanitizer Ingestion Leads to Lethal Methanol Toxicity  
Catherine Nicka*; Lauren E. Dvorscak, MD

11:30 a.m. - 1:00 p.m.  
**H107** No Laughing Matter: Deaths Associated With Chronic Nitrous Oxide (N₂O) Abuse  
Justin Rueckert, DO*; Vickie Willoughby, DO; Min Wang, MD, PhD

11:30 a.m. - 1:00 p.m.  
**H108** A Case Series of Cyanide Poisoning: A Rising Trend  
Cemyigit Deveci, MD*; Mehmet Atilgan; Refik Akman, MD

11:30 a.m. - 1:00 p.m.  
**H109** Black Esophagus and Fatal Cocaine Intoxication: An Unusual Combination  
Alessandro Manfredi*; Diana Bonuccelli, MD; Laura Giusti, MD; Martina Zanon, MD; Davide Radaelli; Martina Montanaro, MD; Stefano D’Errico, PhD

11:30 a.m. - 1:00 p.m.  
**H110** Wischnewsky Spots and Black Esophagus in Deaths Involving Diabetic Ketoacidosis: A Case Series  
Ricardo Kaempfen, MS*; Joseph A. Prahow, MD; Amanda O. Fisher-Hubbard, MD

11:30 a.m. - 1:00 p.m.  
**H111** Sodium Nitrite Suicide: A Case Report  
Vishwajeeth Pasham, MD*; Demi B. Garvin, PharmD; Angelina I. Phillips, MD*

11:30 a.m. - 1:00 p.m.  
**H112** Toxicological, Histological, and Immunohistochemical Analysis in a Case of Malignant Arrhythmia Due to Acute Pure Caffeine Intoxication  
Paola Santoro, MD*; Sara Turco, MD; Arianna Baronti, MD; Andrea Costantino, MD; Silvia Romano; Maria Chiara David, PhD; Zoe Del Fante, MD

11:30 a.m. - 1:00 p.m.  
**H113** An Analysis of the Effect of Necrophagous Entomofauna on Fabric Modifications During a Summer Season in Western Australia  
Sotirias Zlogos, BSc (Hons)*; Kari M. Pitts, PhD; Ian Dadour, PhD; Paola A. Magni, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)

11:30 a.m. - 1:00 p.m.  
**H114** Inter-Individual Variation in Soil Chemistry and Microbial Ecology During Human Decomposition  
Allison R. Mason, BS*; Hayden Mckee, MSc; Katharina M. Höland, MSc; Thomas Delgado; Mary C. Davis, MSc; Sarah Schwing, BA, BSc; Shawn R. Campagna, PhD; Dawnie W. Steadman, PhD; Jennifer M. DeBruyn, PhD  
(FSF Emerging Forensic Scientist Award Poster Presentation)

11:30 a.m. - 1:00 p.m.  
**H115** Temperature-Dependent Postmortem Protein Degradation in Pigs  
Janine Geissenberger, MSc*; Bianca Ehrenfeller, MS; Fabio Carlo Monticelli; Peter Steinbacher, PhD; Stefan Pittner, PhD

*Presenting Author
PATHOLOGY/BIOLOGY

11:30 a.m. - 1:00 p.m.  H116  The Detection and Profiling of Seminal DNA From Fly Larvae, Pupae, and Puparia to Investigate Sexual Intercourse Postmortem  
Grace Mulder, BS*; Paola A. Magni, PhD; Brendan Chapman, BSc

11:30 a.m. - 1:00 p.m.  H117  The Temporal Relation of the Generation of 3-Methylbutanol and Related Compounds in Decomposing Chicken Liver  
Kelsey Springer, BS*; Robert H. Powers, PhD

11:30 a.m. - 1:00 p.m.  H118  The Succession of Postmortem Protein Degradation in Different Muscles in Rats and Humans  
Lisa Jakob, MSc*; Angela Zissler, PhD; Bianca Ehrenfellner, MS; Janine Geissenberger, MSc; Fabio Carlo Monticelli; Peter Steinbacher, PhD; Stefan Pittner, PhD

11:30 a.m. - 1:00 p.m.  H119  Postmortem Protein Degradation as a Tool to Estimate the Postmortem Interval (PMI): A Systematic Review  
Stefan Pittner, PhD*; Walter Stoiber; Peter Steinbacher, PhD; Janine Geissenberger, MSc; Fabio Carlo Monticelli; Angela Zissler, PhD

11:30 a.m. - 1:00 p.m.  H120  Multiple Sampling of Human Muscle Tissue Over Time to Eliminate Biases and Enhance Data Quality for Protein-Based Postmortem Interval (PMI) Delimitation  
Anja Victoria Perner, BSc*; Bianca Ehrenfellner, MS; Janine Geissenberger, MSc; Fabio Carlo Monticelli; Peter Steinbacher, PhD; Stefan Pittner, PhD

11:30 a.m. - 1:00 p.m.  H121  The Identification of Unidentified Remains  
Katherine Cochrane, MD*; Darinka Mileusnic-Polchan, MD, PhD

11:30 a.m. - 1:00 p.m.  H122  The Role of Postmortem Computed Tomography (PMCT) In High-Energy Traumatic (HET) Deaths  
Massimiliano dell'Aquila, MD*; Gianpietro Volonnino; Alessia Quattrocchi*; Paola Santoro, MD; Alessandra De Matteis, MD; Andrea Scatena; Sara Turco, MD; Andrea Costantino

11:30 a.m. - 1:00 p.m.  H123  The Role of Postmortem Computed Tomography (PMCT) in the Assessment of the Cause of Death in a Natural Disaster (Flooding): A Sicilian Experience  
Cristina Mondello, MD*; Salvatore Roccuzzo, MD*; Gennaro Baldino, MD; Antonio Bottari, MD; Alessio Asmundo; Giuseppe F. Lo Re, MD; Sergio Salerno; Fabrizio Perri, MD; Elvira Ventura Spagnolo, MD, PhD*

11:30 a.m. - 1:00 p.m.  H124  Conflict of Interest in the California Coroner or Sheriff-Coroner Systems  
Callie G. Huston, MFS*; Ismail M. Sebetan, MD, PhD*; Paul Stein, PhD*

11:30 a.m. - 1:00 p.m.  H125  Pancreatic Subcapsular/Interstitial Hemorrhage Associated With Acute Systemic Hypoxia and Its Impact on Endocrine Organs  
Fumiya Morioka*; Naoto Tani, MA; Tomoya Ikeda, PhD, MD; Aoki Aoki, BA; Alissa M. Shida, MS; Kei Ikeda, MD; Tatsuya Hirokawa, PhD; Takaki Ishikawa, MD, PhD

11:30 a.m. - 1:00 p.m.  H126  A Multidisciplinary Approach Is Mandatory in the Forensic Sciences  
Francesco Sessa, MS, PhD*; Angelo Montana, MD; Massimiliano Esposito, MD; Aldo Liberto, MD; Monica Salerno, MD, PhD*
# Microbiome and Pathology Potpourri

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<th>Time</th>
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<td>9:00 a.m.</td>
<td>H127</td>
<td>Trends in Postmortem Microbiome Research Activities: A Ten-Year Review</td>
<td>Jennifer L. Pechal, PhD*; Carl J. Schmidt, MD; Heather R. Jordan, PhD; M. Eric Benbow, PhD</td>
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<td>9:15 a.m.</td>
<td>H128</td>
<td>Conceptualizing the Gut Thanatomiobiota in Substance Abuse Disorders</td>
<td>Gulnaz T. Javan, PhD*; Sheree J. Finley, PhD; LaTia Scott, PhD; Silvia D. Visona, MD; Antonio M.M. Osucalti, MD</td>
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<td>9:30 a.m.</td>
<td>H129</td>
<td>Decontamination Strategies for Sampling Internal Bone Microbiomes Submerged in Aquatic Environments</td>
<td>Emily Nestle*; Sierra Kaszubinski, MS; Joseph P. Receveur, BS; Jennifer L. Pechal, PhD; M. Eric Benbow, PhD</td>
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<td>9:45 a.m.</td>
<td>H130</td>
<td>Caspase 9 and Caspase 3 Immunohistochemical Reactivity Pattern in Skeletal and Cardiac Muscle at Different Times After Death: A New Tool for Postmortem Interval (PMI) Determination?</td>
<td>Chiara Stassi, MD*; Cristina Mondello, MD, PhD; Gennaro Baldino, MD; Giovanni Francesco Spatola, MD; Maria Laura Uzzo, MD; Antonio Micali, MD; Salvatore Raccuzzo, MD; Alessio Asmundo; Elvira Ventura Spagnolo, MD, PhD (FSF Emerging Forensic Scientist Award Oral Presentation)</td>
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<td>10:00 a.m.</td>
<td>H131</td>
<td>Maximum DNA Recovery From Cold Case Victims Using Ancient and Forensic Extraction Methods</td>
<td>Matthew V. Emery, PhD; Amanda Wissler, MA; Erin Rawls; Katelyn L. Bolhovfer, PhD; Robert F. Oldt, BS; Sreetharan Kanthuswamy, PhD; Jane E. Buikstra, PhD; Laura C. Fulginiti, PhD; Anne Stone, PhD*</td>
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<td>10:15 a.m.</td>
<td>H132</td>
<td>Molecular Testing in Sudden Death Associated With Epilepsy in a Forensic Office: Genotype-Phenotype</td>
<td>Michelle Stram, MD*; Yingying Tang, MD, PhD; Jansen Seheult, MD; Rebecca Folketh, MD</td>
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<td>10:45 a.m.</td>
<td>H133</td>
<td>The Sound of Violence: The Utility of Voice Recording in the Investigation of the Cause of a Sudden Death in Custody</td>
<td>Michael Freeman, MD, PhD; Ellen M.F. Strömmmer, MPH*</td>
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<td>11:00 a.m.</td>
<td>H134</td>
<td>Survival Intervals Following Fatal Single Gunshot Wounds of the Head</td>
<td>Michelle S. Clark, MS; Deland Weyrauch, MD*; James R. Gill, MD</td>
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11:15 a.m. - 11:30 a.m.  H135 **Experimental Shots in Tissue-Simulant Materials and Analysis Through Computed Tomography (CT) Scanning**  
Nikolaos Tsiatis, PhD*; Konstantinos Moraitis, PhD; Konstantinos Katsos, PhD; Emmanouil I. Sakelliadis, PhD*; Chara Spiliopoulou, PhD

11:30 a.m. - 11:45 a.m.  H136 **Veterinary Forensic Pathology: Cases From an Emerging Discipline**  
Beverly J. McEwen, DVM, PhD*

11:45 a.m. - 12:00 p.m.  H137 **Canid Predators Kill Bites and the Injuries to Their Animal or Human Victims**  
Nanny Wenzlow, DVM, PhD*; William F. Hamilton, MD

**Postmortem Radiology**

Moderator: Karen L. Kelly, MD  
Brody School of Medicine at East Carolina University  
Greenville, NC

1:00 p.m. - 1:15 p.m.  H138 **Potential Applications of Micro-Computed Tomography (Micro-CT) in Forensic Casework: Evidence From Zebras**  
Meaghan C. Dougher, MPS*; Keith Cheng, MD, PhD

1:15 p.m. - 1:30 p.m.  H139 **Personal Identification Using Part-to-Part Comparison of the Third Lumbar (L3) Vertebra From Antemortem and Postmortem Computed Tomographic (AMCT and PMCT) Scans**  
Jonathan M. Ford, PhD*; Guy N. Rutty, MD; Daniel W. Martin, BS; Jasmin Amoroso, MA; Michael J.P. Biggs, MBChB; Summer J. Decker, PhD

1:30 p.m. - 1:45 p.m.  H140 **Imaging Impact: Can Computed Tomography Fractography Determine Direction of Fracture Propagation?**  
Ruth M. Machin, MBBS, MSc, FRCS*, Michael J.P. Biggs, MBChB; Alison L. Brough, PhD; Bruno Morgan, BS

1:45 p.m. - 2:00 p.m.  H141 **The Evaluation of the Routine Use of Postmortem Computed Tomography (PMCT) In a High-Volume United States Medical Examiner’s Office**  
Yohsuke Makino, MD*; Kana Unuma; Kurt B. Nolte, MD; Natalie L. Adolphi, PhD

2:00 p.m. - 2:15 p.m.  Break

**Death Investigation**

Moderator: Greg Vincent, MD  
Office of the Chief Medical Examiner  
Farmington, CT

Co-Moderator: Lorenzo Gitto, MD  
State University of New York Upstate  
Department of Pathology  
Syracuse, NY

2:15 p.m. - 2:30 p.m.  H142 **Cellular FLICE-Like Inhibitory Protein (C-FLIP) and Troponin-I: Promising Markers for the Determination of the Vitality in Suicidal Hangings**  
Zoe Del Fante, MD*; Alessandra De Matteis, MD; Andrea Scatena; Francesca Iannaccone; Arianna Baronti, MD; Massimiliano dell’Aquila, MD; Aniello Maiese, MD

2:30 p.m. - 2:45 p.m.  H143 **Suicidal Firearms Injuries of the Back of the Head/Neck: A Case Series**  
Jared Brooks, MD*; Theodore T. Brown, MD; Joyce L. deJong, DO; Brandy Shattuck, MD; Joseph A. Prahlow, MD

*Presenting Author  
All times are in the U.S. Central Time Zone
2:45 p.m. - 3:00 p.m.  H144  Roderick Covlin's Botched Bathtub-Staged Homicide: Aquatic Investigative Techniques to Get It Right From the Start  
Andrea Zaferes, BA*

3:00 p.m. - 3:15 p.m.  H145  Clinical Forensic Medicine at the Georgia Bureau of Investigation Medical Examiner Office (GBI MEO)  
Lora A. Darrisaw, MD*; Elizabeth Andrews, BS

3:15 p.m. - 3:30 p.m.  H146  WITHDRAWN