**PATHOLOGY/BIOLOGY**

**Wednesday—Session I**

**Pediatric Mortality**

**Moderator:** Evan Matshes, MD  
NAA Group  
San Diego, CA

**Co-Moderator:** Chris Milroy, MD, LLB  
Ottawa Hospital  
Ottawa, CANADA

**8:30 a.m. - 8:45 a.m.**  
**H1**  
Pediatric Sudden Unexpected Death (SUD) Due to Undiagnosed Mediastinal T-Cell Lymphoblastic Lymphoma: A Series of Three Cases  
Celeste Santos Martins, MD*; Joseph A. Felo, DO

**8:45 a.m. - 9:00 a.m.**  
**H2**  
Variations in Postmortem Perianal Findings in Infants: A Retrospective Review of Non-Traumatic Abnormalities and the Potential Diagnostic Pitfalls in Determining Trauma  
Paulyann Maclayton, MD*; Merrill O. Hines III, MD

**9:00 a.m. - 9:15 a.m.**  
**H3**  
Recognizing the Misuse of Probabilistic Language (PL) and False Certainty in False Accusations of Child Abuse  
Steven C. Gabaeff, MD*

**9:15 a.m. - 9:30 a.m.**  
**H4**  
Fatal Systemic (Paradoxical) Air Embolism Diagnosed by Postmortem Funduscopy  
Lucy Bradley*; Anna G. McDonald, MD; Patrick E. Lantz, MD

**9:30 a.m. - 9:45 a.m.**  
**H5**  
The Aftermath of Abusive Head Trauma: A Unique Pediatric Disease  
Rudy J. Castellani, MD*; Brittany Erskine, BS; Carl J. Schmidt, MD; Joyce L. deLong, DO; Amanda O. Fisher-Hubbard, MD

**9:45 a.m. - 10:00 a.m.**  
**H6**  
Child and Adolescent Suicide: A Ten-Year (2010–2019) Retrospective Analysis of Medical Examiner Cases in Kentucky  
Marwil C. Pacheco, MD; Terri Mason, MD; Ashley E. Mathew, MD*; Donna Marlowe Stewart, MD

**10:00 a.m. - 10:15 a.m.**  
**Break**

**Toxicology**

**Moderator:** Karl E. Williams, MD  
Allegheny County Office of the Medical Examiner  
Pittsburgh, PA

**10:15 a.m. - 10:30 a.m.**  
**H7**  
When Epidemic Meets Pandemic: A Case Series of Pediatric Fentanyl Deaths in Denver, CO  
Sterling McLaren, MD*; Ian J. Puffenberger, MD; Meredith A. Frank, MD; James Louis Caruso, MD

**10:30 a.m. - 10:45 a.m.**  
**H8**  
Infant Deaths Associated With Methamphetamine Exposure: A Case Series  
Khusbu Patel, BA*; Abigail J. Grande, MPH; Elizabeth A. Douglas, MD; Amanda O. Fisher-Hubbard, MD

**10:45 a.m. - 11:00 a.m.**  
**H9**  
The Recent Outbreak of Brorphine Use in Cook County, Illinois  
Lorenzo Gitto, MD*; Ponni Arunkumar, MD; Daniel S. Isenschmid, PhD; Alex J. Krotulski, PhD; Serenella Serinelli, MD, PhD*

*Presenting Author
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
Annmaria Melton, BS, BA*; Stephen D. Cohle, MD; Katherine A. Turner, PhD; Carl W. Hawkins, MD; Sarah E. Avedschmidt, MD

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

Moderator: Ashleigh M. Faris, PhD
Texas A&M University
College Station, TX

Co-Moderator: Lauren Weidner, PhD
Arizona State University
Glendale, AZ

8:30 a.m. - 8:45 a.m.  H12  A Simplified DNA Barcoding Strategy for Forensically Relevant Blow, Flesh, and Scuttle Flies
Sam Kwiatkowski, PhD*; Michelle R. Sanford, PhD; Michael A. Donley, MS; Katherine Welch, MS; Roger Kahn, PhD

8:45 a.m. - 9:00 a.m.  H13  Microbiome Dynamics in Lucilia Sericata (Meigen, 1826) (Diptera: Calliphoridae) Developmental Stages
Lavinia Iancu, PhD*; Victoria Ioana Paun, MS; Iulia Roxana Angelescu, PhD; Paris Lavin, PhD; Carlos Henríquez-Castillo, PhD; Cristina Purcarea, PhD

9:00 a.m. - 9:15 a.m.  H14  Bone Microbial Community Succession During Multi-Year Decomposition in an Aquatic Habitat
Sierra Kaszubinski, MS*; Emily Nestle; Joseph P. Receveur, BS; Jennifer L. Pechal, PhD; M. Eric Benbow, PhD

9:15 a.m. - 9:30 a.m.  H15  Microbes as the Puppet Master: Clear Evidence Microbes Drive the Decomposition Process and Colonization by Insects
Casey A. Flint, BS*; Tawni L. Crippen, PhD; Jeffery K. Tomberlin, PhD

9:30 a.m. - 9:45 a.m.  H16  Investigating Linkages Between Volatile Organic Compounds (VOCs), Total Body Scoring (TBS), and the Stages of Decomposition in Adult Pigs
Jerika Ho, BSc*; Angela Skopyk, BS; Helene N. LeBlanc, PhD

9:45 a.m. - 10:00 a.m.  H17  When Primary Colonizers Are Late to the Party: Implications for Using Time of Colonization to Inform Postmortem Interval
Jennifer L. Rhinesmith-Carranza, BS*; Jeffery K. Tomberlin, PhD

10:00 a.m. - 10:15 a.m.  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 (Wiedmann) (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 Gratteri, 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. Stoev

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*
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 Parchoke, 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. Alsaif, 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 Bonetto*; 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
11:30 a.m. - 1:00 p.m.  H50  Around the World: A Short Case Series of Atypical Intracranial Bullet Tracks  
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 Pattered 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  
Giuseppe Bertazzi, MD*; Stefania De Simone, MD*; Michela Ferrara, MD*; Francesca 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 Cacciato, 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 Lo 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

*Presenting Author
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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tr>
<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H65</strong> Cassowary Fatally Attacks Its Owner</td>
<td>Nanny Wenzlow, DVM, PhD*; William F. Hamilton, MD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H66</strong> A Fatality by Cattle Hooves in an Elderly Cowherder: Is There a Specific Pattern of Hoof Injury?</td>
<td>Nilesh Keshav Tumram, MD*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H67</strong> A Quantitative Investigation of Diatom Dispersion in Lung Tissue of Confirmed Drowning Incidents</td>
<td>Dominik Hagen, BS*; Astrid Obermayer; Walter Stoiber; Walther Gotsmy; Fabio Carlo Monticelli; Stefan Pittner, PhD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H68</strong> The “Key” Element in a Case of False Decapitation of a Missing Person: A Case Report and Review of the Literature</td>
<td>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*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H69</strong> An Unusual Presentation of Asphyxia Due to Choking</td>
<td>Alexis Jelinek*; Craig T. Mallak, JD, MD; Darin Trelka, MD, PhD; Rebecca MacDougall, MD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H70</strong> A Lethal Fat Embolism Syndrome (FES) Related to Spine Surgery: A Presentation of Two Clinical Case Reports</td>
<td>Davide Radaelli*; Martina Zanon, MD; Martina Montanaro, MD; Alessandro Manfredi; Eleonora Valentinuz; Stefano D’Errico, MD, PhD; Paolo Frisoni, MD; Letizia Alfieri, MD; Margherita Neri, MD, PhD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H71</strong> An Unusual Hospital Asphyxiation: Death From the Incorrect Administration of Nitrous Oxide (N₂O)</td>
<td>Stefania De Simone, MD*; Francesca Maglietta, MD*; Michela Ferrara, MD*; Giuseppe Bertozi, MD*; Benedetta Baldari, MD; Alessandra Torsello*; Luigi Cipolloni, MD, PhD*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H72</strong> Exsanguination Due to Urethral Laceration</td>
<td>Hae-Sun La*; Tanner Bartholow, MD; Todd M. Luckasevic, DO</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H73</strong> Neuropathologic Findings in Fatal Silicone Embolism Syndrome: Potential Contributions to Cause of Death</td>
<td>Sarah C. Thomas, MD*; Michelle Stram, MD; Rebecca Folkther, MD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H74</strong> A Case of Death Due to Asphyxia From the Use of Mechanical Restraints in a Hospital Environment: Always an Accidental Death?</td>
<td>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*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H75</strong> A Retrospective Review of Deaths in Custody Submitted for Medicolegal Autopsy at a Medical University in South Carolina (2012 to 2020)</td>
<td>Angelina I. Phillips, MD*; James Madory, DO; S. Erin Presnell, MD</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H76</strong> Acute Infectious Esophagitis: Three Cases With Variable Etiologies</td>
<td>Keenen Smith, MS*; Lauren R. Crowson-Hindman, DO*; Angelina I. Phillips, MD*</td>
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<td>11:30 a.m. - 1:00 p.m.</td>
<td><strong>H77</strong> Medullary Thyroid Carcinoma (MTC) With Diabetic Ketoacidosis: An Autopsy Case Report and Literature Review</td>
<td>Harin Cheong*; Hyun Lyoung Koo</td>
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<td>11:30 a.m.</td>
<td>H78</td>
<td>A Fatal Case of <em>Vibrio Vulnificus</em> Wound Infection</td>
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<td>11:30 a.m.</td>
<td>H79</td>
<td>Sudden Death Due to Leukostasis in a Subject With Untreated Chronic Lymphocytic Leukemia (CLL)</td>
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<td>11:30 a.m.</td>
<td>H80</td>
<td>Drowning or Something Else? The Uncommon Birt-Hogg-Dubé Syndrome</td>
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<td>11:30 a.m.</td>
<td>H81</td>
<td>An Autopsy of a Young Female With Abdominal Pain</td>
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<td>11:30 a.m.</td>
<td>H82</td>
<td>A Case of Hamartoma of Mature Cardiac Myocytes (HMCM) Correctly Diagnosed at Autopsy</td>
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<td>11:30 a.m.</td>
<td>H83</td>
<td>The Sudden Death of a Firefighter: A Look at On-Duty Coronary Heart Disease Fatalities</td>
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<td>11:30 a.m.</td>
<td>H84</td>
<td>Subdural Hematoma Due to Central Nervous System (CNS) Histoplasmosis in the Setting of Undiagnosed Human Immunodeficiency Virus (HIV) Infection</td>
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<td>11:30 a.m.</td>
<td>H85</td>
<td>The Importance of the Autopsy in Unknown Infectious Diseases</td>
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<td>11:30 a.m.</td>
<td>H86</td>
<td>Acquired Tracheoesophageal Fistula (TEF) Secondary to Tuberculosis in a Human Immunodeficiency Virus (HIV) Patient: A Case Report With Review</td>
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<td>11:30 a.m.</td>
<td>H87</td>
<td>Autism Spectrum Disorder (ASD) and Sudden Cardiac Death: Is There a link? A Case Report and a Literature Review</td>
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<td>11:30 a.m.</td>
<td>H88</td>
<td>The Role of Histopathology Deaths Due to Pulmonary Thromboembolism in Forensic Cases</td>
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<td>11:30 a.m.</td>
<td>H89</td>
<td>The Influence of Body Mass Index (BMI) in Autopic Procedures: An Experimental Study in Forensic Cases</td>
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<td>11:30 a.m.</td>
<td>H90</td>
<td>Sudden Cardiac Death Due to Vasculitis: Case Reports and a Review of the Literature</td>
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11:30 a.m. - 1:00 p.m.  H91  Death From Peritonitis Due to Multiple Intestinal Perforations: Approaching a Case of Advanced Tuberculosis (TB)
Federico Manetti, MD*; Vittorio Gatto, MD; Matteo Scopetti, MD; Alessandro Santurro, MD; Martina Padovano, MD; Paola Frati, PhD; Vittorio Fineschi, MD, PhD

11:30 a.m. - 1:00 p.m.  H92  The Dentist’s Nightmare: A Case of Massive Left Ventricular Infarction After Dental Implantation
Martina Padovano, MD*; Matteo Scopetti, MD; Federico Manetti, MD; Alessandro Santurro, MD; Paola Frati, PhD; Vittorio Fineschi, MD, PhD

11:30 a.m. - 1:00 p.m.  H93  A Rare Case of Sudden Cardiac Death Associated With Isolated Congenital Coronary Artery Anomalies (CAA): Autopic and Histopathological Results
Francesco Sicilia, MD*; Vincenzo Arena, MD; Fabrizio Cordasco, MD*; Ludovico Abenavoli, PhD, MD; Carmen Scalice, MD; Luigi Di 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*

11:30 a.m. - 1:00 p.m.  H94  Sudden Death Due to Takayasu Arteritis: A Case Report
Manoj Bhausaheb Parchake, MD*

11:30 a.m. - 1:00 p.m.  H95  Subcapsular Hepatic Hematoma in a Pregnant Woman With No Prenatal Care: A Case Report
Suzi Dodt, BS*; John X. Hu, MD, PhD*

11:30 a.m. - 1:00 p.m.  H96  A Case of Fatal Hemorrhage During Pregnancy
Lauren Lippincott, DO*

11:30 a.m. - 1:00 p.m.  H97  A Sudden Pediatric Death: A Case of Asymptomatic Muscular Dystrophy
Sara Beardsley, BS*; Avneesh Gupta, MD; Kathryn McFadden, MD; Sarah E. Avedschmidt, MD

11:30 a.m. - 1:00 p.m.  H98  Sudden Death After Bounce House Activities: A Late Complication of Congenital Diaphragmatic Hernia (CDH)
Kendall Smith, BA*; Brandy Shattuck, MD; James Elliott

11:30 a.m. - 1:00 p.m.  H99  Intraosseous Puncture-Induced Bone Fractures Mimicking Child Abuse: A Case Report
Xin Zhang, MD*; Matthew Wanner, MD; Dominique Battles; Christopher Poulos, MD

11:30 a.m. - 1:00 p.m.  H100  Pediatric Cylindrical Battery Ingestion Causing Fatal Aorto-Esophageal and Pulmonic-Esophageal Fistulae
Robin Moisiff, MD*; Kendall V. Crowns, MD

11:30 a.m. - 1:00 p.m.  H101  A Fatal Ruptured Saccular Middle Cerebral Artery Aneurysm in a 14-Year-Old Boy: A Case Report
Melissa Menard*; Christopher Glen Ball, MBBS, MScEng; Andrew Williams, MD; Kona Williams, MD

11:30 a.m. - 1:00 p.m.  H102  A Molecular Autopsy by Exome Sequencing in a Decedent With Suspected Genetic Cerebral Small Vessel Disease
Nicole A. Croom, MD*; Daniel Vincent Sullivan, MD, MA; Eric Huang, MD, PhD; Ellen Moffatt, MD; Walter P. Devine, MD, PhD

11:30 a.m. - 1:00 p.m.  H103  Retinal Hemorrhages (RH) in a 6-Month-Old Child Related to Disseminated Intravascular Coagulation
Maria E. Magidenko, BA*; Amanda O. Fisher-Hubbard, MD; Joseph A. Prahlow, MD; Theodore T. Brown, MD

*Presenting Author
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

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, MD; Angelica Zibetti, MO*; Carlo Filippo 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. Prahlow, 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  Toxico logical, 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
Sotirios Ziogos, BSc (Hons)*; Kari M. Pitts, PhD; Ian Dadour, PhD; Paola A. Magni, PhD

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

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

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*

*Presenting Author
Friday—Session II

Microbiome and Pathology Potpourri

**Moderator:** Gregory Alan Schmunk, MD  
Urbandale, IA  
**Co-Moderator:** Sharon A. Boone, MD, JD, LLM  
Bowen Island, CANADA

9:00 a.m. - 9:15 a.m.  
**H127** Trends in Postmortem Microbiome Research Activities: A Ten-Year Review  
Jennifer L. Pechal, PhD*; Carl J. Schmidt, MD; Heather R. Jordan, PhD; M. Eric Benbow, PhD

9:15 a.m. - 9:30 a.m.  
**H128** Conceptualizing the Gut Thanatomicrobiota in Substance Abuse Disorders  
Gulnaz T. Javan, PhD*; Sheree J. Finley, PhD; LaTia Scott, PhD; Silvia D. Visona, MD; Antonio M.M. Osculati, MD

9:30 a.m. - 9:45 a.m.  
**H129** Decontamination Strategies for Sampling Internal Bone Microbiomes Submerged in Aquatic Environments  
Emily Nestle*; Sierra Kaszubinski, MS; Joseph P. Recuever, BS; Jennifer L. Pechal, PhD; M. Eric Benbow, PhD

9:45 a.m. - 10:00 a.m.  
**H130** 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?  
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

10:00 a.m. - 10:15 a.m.  
**H131** Maximum DNA Recovery From Cold Case Victims Using Ancient and Forensic Extraction Methods  
Matthew V. Emery, PhD; Amanda Wissler, MA; Erin Rawls; Katelyn L. Bolhofner, PhD; Robert F. Oldt, BS; Sreetharan Kanthaswamy, PhD; Jane E. Buikstra, PhD; Laura C. Fulginiti, PhD; Anne Stone, PhD*

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

**Moderator:** Jonathan Eisenstat, MD  
Georgia Bureau of Investigation  
Decatur, GA

10:30 a.m. - 10:45 a.m.  
**H132** Molecular Testing in Sudden Death Associated With Epilepsy in a Forensic Office: Genotype-Phenotype  
Michelle Stram, MD*; Yingying Tang, MD, PhD; Jansen Seheult, MD; Rebecca Folketh, MD

10:45 a.m. - 11:00 a.m.  
**H133** The Sound of Violence: The Utility of Voice Recording in the Investigation of the Cause of a Sudden Death in Custody  
Michael Freeman, MD, PhD; Ellen M.F. Strömmer, MPH*

11:00 a.m. - 11:15 a.m.  
**H134** Survival Intervals Following Fatal Single Gunshot Wounds of the Head  
Michelle S. Clark, MS; Deland Weyrauch, MD*; James R. Gill, MD

11:15 a.m. - 11:30 a.m.  
**H135** Experimental Shots in Tissue-Simulant Materials and Analysis Through Computed Tomography (CT) Scanning  
Nikolaos Tsiafas, PhD*; Konstantinos Moraitis, PhD; Konstantinos Katsos, PhD; Emmanouil I. Sakelliadis, PhD*; Chara Spiliopoulou, PhD

*Presenting Author
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 Zebrafish
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, FRCR*; 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

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*

*Presenting Author
### PATHOLOGY/BIOLOGY

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<th>Time</th>
<th>Session</th>
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<td>3:00 p.m. - 3:15 p.m.</td>
<td><strong>H145</strong></td>
<td>Clinical Forensic Medicine at the Georgia Bureau of Investigation Medical Examiner Office (GBI MEO)</td>
<td>Lora A. Darrisaw, MD*; Elizabeth Andrews, BS</td>
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<td>3:15 p.m. - 3:30 p.m.</td>
<td><strong>H146</strong></td>
<td>The Forensic Medicolegal System in Qatar</td>
<td>Ibrahim K. El Ramahi, MD*; Khalid M. BinMarzook</td>
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