

# PATHOLOGY/BIOLOGY

## Wednesday

### Poster Session

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|--------------------|------------|---|
| 11:30 AM – 1:00 PM | <b>11</b>  | <b>Internal Graze Gunshot Wounds</b><br><i>Nikoli Nickson, BA*;</i> <i>Joyce deJong, DO;</i> <i>Joseph Prahlow, MD</i>  |
| 11:30 AM – 1:00 PM | <b>12</b>  | <b>One Nail Drives Out Another: An Atypical Suicide</b><br><i>Marigrazia Calbano, MD*;</i> <i>Antonio De Donno, PhD;</i> <i>Federica Mele, MD;</i><br><i>Mirko Leonardelli, MD;</i> <i>Gianluca Musci, MD;</i> <i>Stefano Duma, MD;</i> <i>Gianluca Gravili, MD;</i><br><i>Enrica Macorano, MD;</i> <i>Giovanni De Gabriele, MD;</i> <i>Francesco Introna, MD</i>   |
| 11:30 AM – 1:00 PM | <b>13</b>  | <b>A Case of Autoerotic Death by Electrocution</b><br><i>Yoo Min Ahn, DO, MS*;</i> <i>Chester Gwin, MD</i>  |
| 11:30 AM – 1:00 PM | <b>14</b>  | <b>A Case of Mechanical Asphyxia Due to a Bowling Pinsetter Machine and a Brief Review of the Literature</b><br><i>Adam Gonzalez, MD*;</i> <i>Lucas Wieck, MD;</i> <i>J. Keith Pinckard, MD, PhD</i>  |
| 11:30 AM – 1:00 PM | <b>15</b>  | <b>An Unusual Suicide With Multiple Gunshot Injuries to the Head From Two Different Weapons</b><br><i>Mihaela Georgieva, MD;</i> <i>Martin Angelov, MD;</i> <i>Kamen Peev, MD;</i> <i>Ilina Brainova, MD, PhD;</i><br><i>Verzhiniya Stefanova, MD.;</i> <i>Alexandar Alexandrov, MD, PhD;</i> <i>Metodi Goshev, MD, PhD;</i><br><i>Lorenzo Gitto, MD;</i> <i>Biliana Mileva, MD*</i>  |
| 11:30 AM – 1:00 PM | <b>16</b>  | <b>An Assault on Coagulation: A Complex Suicide by Ingestion of Warfarin and Stab Wounds</b><br><i>Martina Padovano, MD*;</i> <i>Federico Manetti, MD;</i> <i>Davide Radaelli, MD;</i> <i>Maria Chiara David, PhD;</i><br><i>Stefano D’Errico, MD, PhD;</i> <i>Matteo Scopetti, MD</i>  |
| 11:30 AM – 1:00 PM | <b>17</b>  | <b>Complex Deaths: Murder or Suicide? A Report of Three Cases</b><br><i>Maria Antonella Bosco, MD*;</i> <i>Valentina Milone, MD*;</i> <i>Roberta Bibbò, MD*;</i><br><i>Michele Ahmed Antonio Karaboue, LLM*;</i> <i>Francesco Carpano, MD*;</i> <i>Santina Cantatore, MD*;</i><br><i>Stefania De Simone, MD*</i>  |
| 11:30 AM – 1:00 PM | <b>18</b>  | <b>WITHDRAWN</b>  |
| 11:30 AM – 1:00 PM | <b>19</b>  | <b>The Decapitation of a Motorcyclist Wearing a Full-Face Helmet in a Crash Against the Guardrail: A Case Report</b><br><i>Laura Panata, MD*;</i> <i>Isabella Mercurio, MD;</i> <i>Michela Ferrara, MD;</i> <i>Massimo Lancia, MD;</i><br><i>Mauro Bacci, MD</i>  |
| 11:30 AM – 1:00 PM | <b>110</b> | <b>Forensic Aspects of Overkilling in Femicides: A Comparison of Forensic Case Series</b><br><i>Martino Maesani, MD*;</i> <i>Umberto Rosini, MD;</i> <i>Matteo Sacco, MD*;</i> <i>Angelica Zibetti, MD;</i><br><i>Carmen Scalise, PhD, MD;</i> <i>Fabrizio Cordasco, MD;</i> <i>Saverio Gualtieri, MD*;</i> <i>Maria Manno, MD;</i><br><i>Giulio Pulpito, MD*;</i> <i>Angela Carbone, MD;</i> <i>Roberto Raffaele, BE*;</i> <i>Valerio Aquila, PsyD*;</i><br><i>Palmo Tavernese, MD;</i> <i>Pietrantonio Ricci, PhD, MD;</i> <i>Isabella Aquila, PhD, MD*</i> |
| 11:30 AM – 1:00 PM | <b>111</b> | <b>Intracranial Hemorrhage/Thrombosis in Infancy: Trauma or Not?</b><br><i>Kyla Jorgenson, MD, MS*;</i> <i>Zachary Michalick, DM;</i> <i>Jan Gorniak, DO;</i> <i>Andrea Wiens, DO, MS</i>   |
| 11:30 AM – 1:00 PM | <b>112</b> | <b>Live(r) and Let Die: A Murder Case of a Woman Suffering From Alcoholic Hepatopathy</b><br><i>Mirella Sabatino, MD*;</i> <i>Valeria Prandini, MD;</i> <i>Domenico De Stradis, MD;</i><br><i>Alessandra Radogna, MD;</i> <i>Claudia Vignali, MSc;</i> <i>Luca Morini, PhD;</i> <i>Gulnaz Javan, PhD;</i><br><i>Silvia Visonà, PhD;</i> <i>Matteo Moretti, MD</i>   |

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- 11:30 AM – 1:00 PM **I13** **Men as Victims of Intimate Partner Violence: A Ten-Year Retrospective Study**  
*Biliana Mileva, MD\**; *Mihaela Georgieva, MD*; *Martin Angelov, MD*; *Kamen Peev, MD*;  
*Ilina Brainova, MD, PhD*; *Verzhiniya Stefanova, MD*; *Alexandar Alexandrov, MD, PhD*;  
*Lorenzo Gitto, MD*; *Ivan Tsranchev, MD, PhD*; *Metodi Goshev, MD, PhD*
- 11:30 AM – 1:00 PM **I14** **Necks, Saws, and Video Tape: Using Surveillance Footage to Determine Manner of Death**  
*Justin Lohmann, DM\**; *Neil Haycocks, MD, PhD*; *Amanda Ho, MD*
- 11:30 AM – 1:00 PM **I15** **Sharp Force Fatalities: The Application of Bayes' Theorem to Evaluate the Manner of Death**  
*Michele D'Aleo, MD\**; *Marco Irmici, MD\**; *Guido Pelletti, MD\**; *Paolo Fais, MD, PhD*;  
*Arianna Giorgetti, MD*; *Susi Pelotti, MD*
- 11:30 AM – 1:00 PM **I16** **Shotgun Deaths in Maryland: A Ten-Year Review**  
*Joseph Mininni, DM\**; *Stephanie Dean, MD*; *Jack Titus, MD*
- 11:30 AM – 1:00 PM **I17** **Astroglial and Microglial Reactions in Fatal Head Injury Decedents: A Survival-Time Correlation Study**  
*Meenakshi Sharma, Msc\**; *Arulselvi S., MBBS, MD*; *Vaishali Suri, MBBS, MD*;  
*Shyam Prakash, PhD*; *Purva Mathur, MBBS, MD*; *Rajesh Malhotra, MBBS, MS*;  
*Deepak Agrawal, MBBS, MD*; *Ravindra Mohan, PhD*; *Anupama Raina, PhD*;  
*Sanjeev Lalwani, MBBS, MD*
- 11:30 AM – 1:00 PM **I18** **Bigger Weapons Do Not Kill You More: A Dart Through the Head Is Sometimes Not Enough!**  
*Gianmarco Di Palma, MD*; *Valeria Prandini, MD*; *Mirella Sabatino, MD*;  
*Eugenio Gallotti, MD\**; *Gulnaz Javan, PhD*; *Silvia Visonà, PhD*; *Luisa Andreello, MD, PhD*;  
*Matteo Moretti, MD*
- 11:30 AM – 1:00 PM **I19** **Burial at Sea**  
*Joseph Curran, MD\**; *Darin Trelka, MD, PhD*
- 11:30 AM – 1:00 PM **I20** **Decapitation and Crushing by Combine Harvester: An Infernal Machine**  
*Eleonora Mezzetti, MD\**; *Ilaria Marcacci, MD*; *Carla Occhipinti, MD*; *Fabio Del Duca, MD*;  
*Aniello Maiese, MD*
- 11:30 AM – 1:00 PM **I21** **A Review of Violent and Unnatural Deaths in Which the Manner of Death Is Undetermined**  
*Laura Bagwell, MD\**; *Erica Curry, MD*

## Thursday—Session I

### Natural Disease

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Moderator: *Erin Brooks*

Co-Moderator: *Sterling McLaren*

- 8:00 AM – 8:15 AM **I22** **A New Approach on the Timing of a Dynamic Process: The Pulmonary Thromboembolism**  
*Maria Bonasoni, MD\**; *Paolo Fais, MD, PhD*; *Linda Torelli, MD*; *Elisabetta Faedda, MD*;  
*Matilde Sassani, MD, PhD*; *Rossana Cecchi, MD*
- 8:15 AM – 8:30 AM **I23** **Certification of Deaths of Persons With Reported Histories of Seizures or Epilepsy**  
*Abigail Grande, MPH\**; *Marcel Castor, MD*; *Riley Davis, BA*; *Allison Deemter, MA*;  
*Lillian O'Donnell, MA*; *Amanda Fisher-Hubbard, MD*

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8:30 AM – 8:45 AM	<b>I24</b>	<b>Neuropathology of Middle Meningeal Artery Embolization for Subdural Hematoma</b> <i>Avneesh Gupta, MD*</i> ; <i>Amelia Baxter-Stoltzfus, MD</i> ; <i>Edwin Partovi, MD</i> ; <i>Rebecca Folkerth, MD</i>
8:45 AM – 9:00 AM	<b>I25</b>	<b>COVID-19-Related Myocarditis: Are We There Yet?</b> <i>Davide Radaelli, MD*</i> ; <i>Denny Fuliani, MD</i> ; <i>Elio Santangelo, MD</i> ; <i>Pier Riccardo Bergamini, MD</i> ; <i>Diana Bonuccelli, MD</i> ; <i>Stefano D’Errico, MD, PhD</i>
9:00 AM – 9:15 AM	<b>I26</b>	<b>Is It Really a Channelopathy? A Systematic Review of the Alterations Found at Autopsy in Brugada Syndrome</b> <i>Simone Grassi, MS*</i> ; <i>Francesca Cazzato, MS</i> ; <i>Massimo Zedda, MD</i> ; <i>Mònica Coll, PhD</i> ; <i>Martina Focardi, MS</i> ; <i>Oscar Campuzano, PhD</i> ; <i>Ramon Brugada, MD, PhD</i> ; <i>Vilma Pinchi, MS</i> ; <i>Antonio Oliva, MS, PhD</i>
9:15 AM – 9:30 AM	<b>I27</b>	<b>Subnuclear Renal Tubular Vacuoles in Alcoholics</b> <i>Finn Auld, BMBS*</i> ; <i>Jacqueline Parai, MD</i> ; <i>Chris Milroy, MD, LLB</i>
9:30 AM – 10:00 AM	<b>I28</b>	<b>Updates in Normal Organ Weights: A Review of 4,000+ Cases From 2009 to 2014</b> <i>Meagan Chambers, MD, MSc*</i> ; <i>Harold Sanchez, MD</i>
10:00 AM – 10:15 AM		<b>BREAK</b>

## Injury

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Moderator: Gregory Schmunk

Co-Moderator: Lorenzo Gitto

10:15 AM – 10:30 AM	<b>I29</b>	<b>Discordance of Reported History and Diagnosis of Mental Illness in Suicides</b> <i>Nicole Panzica, BS*</i> ; <i>Brandi McCleskey, MD</i>
10:30 AM – 10:45 AM	<b>I30</b>	<b>Fatal Injuries in Traffic Accidents: A Retrospective Analysis of 294 Medicolegal Autopsies at the University Hospital of Montpellier</b> <i>Emmanuel Margueritte, MD*</i> ; <i>Eric Baccino, MD</i> ; <i>Maguette Niang, MD</i>
10:45 AM – 11:00 AM	<b>I31</b>	<b>Fatalities at the Astroworld Music Festival in Houston, Texas</b> <i>Hannah Jarvis, MRCS*</i> ; <i>Merrill Hines, MD</i>
11:00 AM – 11:15 AM	<b>I32</b>	<b>Female Homicide Victims in Cook County, Illinois: A Retrospective Review</b> <i>Lorenzo Gitto, MD*</i> ; <i>Ponni Arunkumar, MD</i>
11:15 AM – 11:30 AM	<b>I33</b>	<b>A Five-Year Retrospective Analysis of On-The-Job Deaths in Shelby County, Tennessee</b> <i>Sarah Troyer, BA*</i> ; <i>Danielle Harrell, DO</i> ; <i>Scott Collier, DM</i>
11:30 AM – 11:45 AM	<b>I34</b>	<b>A Fatal Abdominal Trauma Following a Fall From Height: Trauma Score, Mortality Meeting, and the Forensic Pathologist</b> <i>Siddhartha Das, MBBS, MD*</i>
11:45 AM – 12:00 PM	<b>I35</b>	<b>Injury Pattern in Electric Scooter Accidents: A Case Report</b> <i>Giovanni Aulino, MD*</i>
12:00 PM – 1:00 PM		<b>BREAK</b>

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## The Bigger Picture

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Moderator: M.J. Menendez

Co-Moderator: Kimberly Johnson

- 1:00 PM – 1:15 PM    **I36**    **The Categorization of Autopsies as a Mechanism to Identify Possible Human Rights Violations**  
*Eileen Buitrago, MSc\*; Alexander Sabogal, MSc*
- 1:15 PM – 1:30 PM    **I37**    **Mafia Organizations in Italy: Useful Markers in Attributing Murders to Specific Groups**  
*Simona Vittorio, MS\*; Giovanni Gurgoglione, MD; Roberta Bibbò, MD; Luigi Cipolloni, MD; Giovanni Pollice, MD; Diego Moro, MD; Giuseppe Bertozzi, MD; Fabio Mariottini, MD*
- 1:30 PM – 1:45 PM    **I38**    **Identifying Stress Factors and Related Coping Mechanisms Among Forensic Pathologists**  
*Danielle Morgan, BS\*; Katelyn Bolhofner, PhD*
- 1:45 PM – 2:00 PM    **I39**    **Strengthening Forensic Pathology Opinions With the Bayesian Approach for Evidence Interpretation: From Theory to Practice**  
*Hans De Boer, MD, PhD\*; Judith Fronczek, MD, PhD; Matthew Lynch, MBBS, LLB; Charles Berger, PhD*
- 2:00 PM – 2:30 PM    **I40**    **Providing Opinions on the “Degree of Force”: Problems and a Solution**  
*Hans De Boer, MD, PhD\*; Charles Berger, PhD; Soren Blau, PhD*
- 2:30 PM – 2:45 PM    **I41**    **The Impacts of Governing Agencies: A Comparison of Differential Resources in the Medicolegal Death Investigation System Patchwork**  
*Kelly Keyes, BS\*; Hope Smiley-McDonald, PhD; Sean Wire, PhDc; Crystal Daye, MPA; Kathryn Greenwell, BA; Jeri Roper-Miller, PhD*
- 2:45 PM – 3:00 PM    **I42**    **Standards Development Activities in Medicolegal Death Investigation and Forensic Pathology**  
*J. Keith Pinckard, MD, PhD\**
- 3:00 PM – 3:15 PM    **BREAK**

## New Perspectives

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Moderator: Marisa Jacob-Leonce

Co-Moderator: Lorren Jackson

- 3:15 PM – 3:30 PM    **I43**    **Postmortem Findings in Three Cases of Vaccine-Induced Death: The Autopsy Role in Vaccine-Induced Thrombotic Thrombocytopenia (VITT) Diagnosis and Comprehension of the Pathophysiology**  
*Chiara Stassi, MD\*; Gennaro Baldino, MD; Cristina Mondello, MD; Fabrizio Perri, MD; Daniela Sapienza, MD; Alessio Asmundo, MD; Elvira Ventura Spagnolo, MD\**
- 3:30 PM – 4:00 PM    **I44**    **Thrombosis Patterns of COVID-19 Vaccine-Induced Thrombotic Thrombocytopenia (VITT): “Order and Method” in Forensic Pathology**  
*Raffaella Vetrini, BS\*; Stefano D’Errico, MD, PhD; Vittorio Fineschi, MD, PhD; Costantino Ciallella, MD; Benedetta Baldari, MD; Antonello Cirnelli, MD; Stefano Pizzolitto, MD*
- 4:00 PM – 4:15 PM    **I45**    **A Multidisciplinary Analysis of Partial Human Remains Found Under the Sea in Venezuela, Investigated With an International Collaboration During the COVID-19 Pandemic**  
*Paola Magni, PhD\*; Iris Carma, MS; Lisbeth Borjas, MS; Fanny Díaz, MD; Marlenis Villarroel, MS; Edda Guareschi, MD*

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- 4:15 PM – 4:45 PM **I46** **The Final Frontier: Human Decomposition in Low Earth Orbit**  
*Sherrri Damlo, MS\**; *Lerah Sutton, PhD\**; *Craig Damlo, MSc*
- 4:45 PM – 5:00 PM **I47** **Unique Medical Identity Card (UMID): The First DNA Database and Identification Portal in India for the Identification of Unidentified Bodies and Missing Persons**  
*Chittaranjan Behera, MD\**

## Poster Session

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- 11:30 AM – 1:00 PM **I48** **A Rare Case of Cardiac Tamponade by the Surgical Correction of a Hiatal Hernia**  
*Federica Spina, MD\**; *Eleonora Mezzetti, MD*; *Julia Lazzari, MD*; *Luigi Papi, MD*
- 11:30 AM – 1:00 PM **I49** **An Uncommon Cause of Gastrointestinal Bleeding in the Forensic Setting**  
*Civan Altunkaynak, MD\**; *S.E. Presnell, MD*; *Emma Hawkins, BS*
- 11:30 AM – 1:00 PM **I50** **Cassette Agitation as a Time-Saving Method to Improve Lung Insufflation and Histology**  
*Catherine Perez, MD\**; *Catherine Morris, MD*; *Teresa Nguyen, MD*; *Omar Rayes, MD*; *LokMan Sung, MD*
- 11:30 AM – 1:00 PM **I51** **Congenital Absence of the Left Circumflex Artery in Multiple Myocardial Ischemia: A Case Report**  
*Francesca Capello, MD\**; *Marta Moretti, MD\**; *Gaetano Maria De Ferrari, MD, PhD*; *Giancarlo Di Vella, PhD*
- 11:30 AM – 1:00 PM **I52** **Death From an Unexpected Superior Venous Laceration During the Implantation of a Leadless Intracardiac Pacemaker: The Role of the Forensic Pathologist.**  
*Alessandra Cicchini, MD\**; *Camilla Bonci, MD\**; *Giancarlo Di Vella, PhD*
- 11:30 AM – 1:00 PM **I53** **A Fatal Massive Hemoperitoneum From a Ruptured Corpus Luteum Cyst**  
*Neil Haycocks, MD, PhD\**; *Justin Lohmann, MD*; *Erik Christensen, MD*
- 11:30 AM – 1:00 PM **I54** **An Intimal Sarcoma of the Abdominal Aorta: An Unexpected Finding Only Possible by Autopsy!**  
*Joana Madeira, MS\**; *Eduardo Coutinho, MS*; *Rui Almeida, MS*; *João Fraga, MS*; *Mário Silva, MD*; *Maria Augusta Cipriano, MD*
- 11:30 AM – 1:00 PM **I55** **Looks Can Be Deceiving: Evaluating Beyond Hepatic Pathology in the Assessment of Chronic Alcoholism**  
*Kylila Tucker, BA\**; *Juliette Scantlebury, MD*
- 11:30 AM – 1:00 PM **I56** **The Body in the Mirror: An Autopsy in a Case of Situs Inversus Totalis**  
*Martina Padovano, MD*; *Matteo Scopetti, MD*; *Tommaso Livieri, MD\**; *Costantino Ciallella, MD*; *Federico Manetti, MD*; *Paola Frati, PhD*; *Vittorio Fineschi, MD, PhD*
- 11:30 AM – 1:00 PM **I57** **The Fulminant Fat Emboli Syndrome: Two Autopsy Case Reports and the Use of Platelet and Fibrinogen Markers**  
*Laetitia Leveque, MD\**; *Elise Arbefeville, MD\**; *Eric Baccino, PhD*; *Pierre-Antoine Peyron, MD*; *Olivia Plé, MD*; *Aurélie Adriansen, MD*
- 11:30 AM – 1:00 PM **I58** **Acute Hemorrhagic Leukoencephalitis Features Associated with COVID-19: A Case Report and Literature Review**  
*Jolee Suddock, MD\**; *Clarissa Krinsky, MD*; *Heather Jarrell, MD*

# PATHOLOGY/BIOLOGY

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- 11:30 AM – 1:00 PM      **I59**      **An Overlook on the Contribution of Postmortem Molecular Biology for the Diagnosis of SARS-CoV-2-Related Systemic Thrombosis as Cause of Death**  
*Daniela Sapienza, MD\**; *Chiara Stassi, MD\**; *Gennaro Baldino, MD*; *Cristina Musolino, BS*;  
*Teresa Pollicino, MD*; *Alessio Asmundo, MD*
- 11:30 AM – 1:00 PM      **I60**      **Lymphohistiocytic Myocarditis Following a Messenger RNA (mRNA) -Based COVID-19 Vaccine: A Case Report**  
*David Rosenbaum, MD\**; *Jeffrey Barnard, MD*
- 11:30 AM – 1:00 PM      **I61**      **A Strategy for Effective Collection and Communication of Preliminary Forensic Information**  
*Benjamin DePrest\**; *Lisa Kohler, MD*; *Kristy Waite, DO*; *Robert Shott, MD*
- 11:30 AM – 1:00 PM      **I62**      **The Identification Process of an Unidentified Transgender Woman**  
*Sonia Kominek, BA\**; *Ellen Moffatt, MD*
- 11:30 AM – 1:00 PM      **I63**      **An Analysis of Changes in Protein Markers Since the Moment of Death (“Time 0”) for the Estimation of the Early Postmortem Interval (PMI): An Experimental Study**  
*Matteo Sacco, MD\**; *Rocco Turturiello*; *Natalia Malara, PhD, MD*; *Saverio Gualtieri, MD\**;  
*Santo Gratteri, PhD, MD*; *Antonio Oliva, MS, PhD*; *Francesco Ausania, MD, PhD\**;  
*Nicola Pigaiani, MD\**; *Pietrantonio Ricci, PhD, MD*; *Isabella Aquila, PhD, MD\**
- 11:30 AM – 1:00 PM      **I64**      **WITHDRAWN**
- 11:30 AM – 1:00 PM      **I65**      **A Comparative Use of Aqueous Humor 1H Nuclear Magnetic Resonance (NMR) Metabolomics and Potassium Concentration for Postmortem Interval (PMI) Estimation in an Animal Model**  
*Alberto Chighine, MD\**; *Emanuela Locci, BS*; *Matteo Nioi, MD*; *Fabio De-Giorgio, MD*;  
*Roberto Demontis, MD*; *Rossella Gottardo, BS*; *Franco Tagliaro, MD*; *Ernesto d’Aloja, MD*
- 11:30 AM – 1:00 PM      **I66**      **Metabolomics Improves the Histopathological Diagnosis of Asphyxial Deaths: An Animal Proof-of-Concept Model**  
*Alberto Chighine, MD\**; *Matteo Nioi, MD*; *Giulio Ferino, BS*; *Fabio De-Giorgio, MD*;  
*Ernesto d’Aloja, MD*; *Emanuela Locci, BS*
- 11:30 AM – 1:00 PM      **I67**      **Delayed Colonization of Concealed Carrion in a Laboratory Study**  
*Jodie-A Warren, PhD\**
- 11:30 AM – 1:00 PM      **I68**      **Evaluating Storage Solutions for Entomological Gene Expression Work to Better Coincide With Common Practices for Entomological Evidence**  
*Joshua Smith, PhD\**
- 11:30 AM – 1:00 PM      **I69**      **First Survey of Forensically Relevant Diptera in the Republic of the Gambia**  
*Peter Dampha, BS\**
- 11:30 AM – 1:00 PM      **I70**      **Forensically Important Insects Collected From Human Bodies in New Jersey**  
*Denise Gemmellaro, PhD\**; *Gloria Raise\**; *Amanda Joy O’Connor, BS*; *Jessica Harlow, BA*;  
*Reagan McRae, BS*; *Andrew Falzon, MD*

# PATHOLOGY/BIOLOGY

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## Thursday—Session II

### Multidisciplinary Session: Pathology/Biology and Toxicology

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Moderator: Tracy Halvorson

Co-Moderator: Kristin Kahl

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| 1:00 PM – 1:15 PM | <b>L46</b> | <b>An Unusual Case of Misrepresented Cocaine Powder That Resulted in Fatal and Non-Fatal Intoxications Involving the Novel Synthetic Opioid Etodesnitazene</b><br><i>Alex Krotulski, PhD*</i> ; <i>Stephany Fiore, MD</i> ; <i>Daniel Anderson, MS</i> ; <i>Sara Walton, MS</i> ; <i>Brianna Peterson, PhD</i> ; <i>Donna Papsun, MS</i> ; <i>Joshua DeBord, PhD</i> ; <i>Barry Logan, PhD</i>   |
| 1:15 PM – 1:30 PM | <b>L47</b> | <b>I Believe I Can Fly: Hallucinogenic/Psychedelic Drugs Found in Fall-From-Height Cases in Miami-Dade County, Florida</b><br><i>Marissa Finkelstein, MS*</i> ; <i>George Hime, MS</i> ; <i>Diane Boland, PhD</i>  |
| 1:30 PM – 1:45 PM | <b>L48</b> | <b>Synthetic Cannabinoids Adulterated With Brodifacoum—Part II: The Florida Experience</b><br><i>Robert Middleberg, PhD*</i> ; <i>Justin Arnold, DO, MPH</i> ; <i>Alexandra Funk, PharmD</i>   |
| 1:45 PM – 2:00 PM | <b>L49</b> | <b>Adverse Effects of Veterinary Pharmaceuticals as Toxic Adulterating Agents in Illicit Drug Deaths</b><br><i>Barry Logan, PhD*</i> ; <i>Alex Krotulski, PhD</i> ; <i>Amanda Mohr, MS</i> ; <i>Thom Browne, Jr., MA</i>   |
| 2:00 PM – 2:15 PM | <b>L50</b> | <b>A Compilation of Postmortem Vitreous Fluid Data for Pediatric Cases</b><br><i>Breanne Vance, BA*</i> ; <i>Kari Midthun, PhD</i> ; <i>Jennifer Swatek, MS</i> ; <i>Fabio Oldoni, PhD</i>   |
| 2:15 PM – 2:30 PM | <b>L51</b> | <b>Postmortem Formation of Ethanol: Is N-Propanol a Reliable Marker? A Proof-of-Concept Study Using a Real-Environment Experimental Set-Up</b><br><i>Nicola Pigaiani, MD*</i> ; <i>Giacomo Musile, PhD</i> ; <i>Francesco Ausania, MD, PhD</i> ; <i>Daniel Dye, MD</i> ; <i>Gregory Davis, MD</i> ; <i>Franco Tagliaro, MD</i> ; <i>Antonio Oliva, MD, PhD</i> ; <i>Federica Bortolotti, PhD</i> |
| 2:30 PM – 2:45 PM | <b>L52</b> | <b>A Quantitative Analysis of Fentanyl and Major Metabolites From Empty Puparia and Adult Blow Flies Via QuEChERS Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) Analysis</b><br><i>Joseph Cox, PhD*</i> ; <i>Katherine Davis</i> ; <i>Kylea Morris, BS</i> ; <i>Rachel Mohr, PhD</i> ; <i>Joseph DelTondo, DO</i> ; <i>Luis Arroyo, PhD</i>                           |
| 2:45 PM – 3:00 PM | <b>L53</b> | <b>Toxicology Laboratory Findings From the 2018 Census of Medical Examiner and Coroner Offices</b><br><i>Jeri Roper-Miller, PhD*</i> ; <i>Hope Smiley-McDonald, PhD</i> ; <i>Katherine Bollinger, MS</i>   |
| 3:00 PM – 3:15 PM |            | <b>BREAK</b>   |

# PATHOLOGY/BIOLOGY

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Moderator: Marissa Finkelstein

Co-Moderator: Susan Ely

- 3:15 PM – 3:30 PM     **171**     **An Alleged Patricide by Americium-241 Poisoning**  
*Wendy Gunther, MD\**
- 3:30 PM – 3:45 PM     **172**     **Fatal Butane Acute Intoxication in Custody—Pitfalls and Recommendations: An Analysis of Six Cases**  
*Michela Peruch, BS\*; Luigi Cipolloni, MD; Stefania De Simone, MD; Maria Chiara David, PhD; Monica Concato, BS; Martina Zanon, BS; Riccardo Addobbati, BS*
- 3:45 PM – 4:00 PM     **173**     **Death as a Consequence of Cardiorespiratory Arrest Caused by a Cocaine-Induced Generalized Seizure: Toxicological Data in a Case Report**  
*Isabella Mercurio, MD\*; Laura Panata, MD; Michela Ferrara, MD; Mauro Bacci, MD; Cristina Gambelunghe, MD; Massimo Lancia, MD*
- 4:00 PM – 4:15 PM     **174**     **Sodium Nitrite Poisoning: A Case Series of an Emerging Suicide Mechanism**  
*Ethan Blocher-Smith, MS, DO\*; Elizabeth Douglas, MD; Joseph Prahlow, MD*
- 4:15 PM – 4:30 PM     **175**     **The Use of Over-the-Counter Tests to Detect Pregnancy in Postmortem Urine and Vitreous Fluid**  
*Marianne Hamel, MD, PhD\*; Andrew Falzon, DM*

## ***Friday—Session I***

### **2023 Jay Dix Lecture Series**

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Moderator: Michael Graham

- 9:00 AM – 9:10 AM     **176**     **Jay Dix Memorial Bonus Day Introduction**  
*Joseph A. Prahlow, MD\*; Andrew M. Baker, MD\*; James R. Gill, MD\*; Susan F. Ely, MD\*; Joyce L. deJong, DO\**
- 9:10 AM – 10:00 AM     **176**     **Deaths Due to the Environment**  
*Joseph A. Prahlow, MD\**
- 10:00 AM – 10:15 AM     **BREAK**
- 10:15 AM – 11:05 AM     **176**     **Firearms Injuries**  
*Andrew M. Baker, MD\**
- 11:05 AM – 12:00 PM     **176**     **Blunt Force Injuries**  
*James R. Gill, MD\**
- 12:00 PM – 2:00 PM     **BREAK**
- 2:00 PM – 2:50 PM     **176**     **Sudden Unexpected Deaths in Adults**  
*Susan F. Ely, MD\**
- 2:50 PM – 3:05 PM     **BREAK**
- 3:05 PM – 3:55 PM     **176**     **Deaths Associated With Sports and Recreation**  
*Joyce L. deJong, DO\**



# PATHOLOGY/BIOLOGY

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## Friday—Session II

### Forensic Entomology

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Moderator: Casey Flint

Co-Moderator: Owen Middleton

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|---------------------|-----|---|
| 8:00 AM – 8:15 AM   | 177 | <b>A Non-Destructive DNA Extraction Technique for Application on Insect Puparia (Diptera: Calliphoridae)</b><br><i>Sydnee Wedel, BSc; Jonathan Parrott, PhD*</i>  |
| 8:15 AM – 8:30 AM   | 178 | <b>The American Board of Forensic Entomology-Certified Workshops: How Collaborative Efforts Between Researchers, Practitioners, and Professionals Continue to Refine and Strengthen the Discipline</b><br><i>Jennifer Rhinesmith-Carranza, DPhil*; Casey Flint, DPhil; Jeffery Tomberlin, PhD</i> |
| 8:30 AM – 8:45 AM   | 179 | <b>An Overview of the Decomposition Process During North Dakota Extreme Winter Temperatures</b><br><i>Lavinia Iancu, PhD*</i>   |
| 8:45 AM – 9:00 AM   | 180 | <b>An Analysis of the Decomposition Process in Two Restricted-Access Environments in a Temperate Climate: Suitcases Versus Wheeled Bins</b><br><i>Hannah Andrews, MSc; Ian Dadour, PhD; Paola Magni, PhD*</i>   |
| 9:00 AM – 9:15 AM   | 181 | <b>Decomposition in the Desert: An Analysis of Initial Insect Activity on Swine Remains</b><br><i>Lauren Weidner, PhD*</i>  |
| 9:15 AM – 9:30 AM   | 182 | <b>Impacts of Climate Change in Forensic Entomology Casework</b><br><i>Michelle Sanford, MS, PhD*</i>   |
| 9:30 AM – 9:45 AM   | 183 | <b>Generating Fluorescent Blow Fly Strains to Aid in the Validation of Postmortem Interval Estimates</b><br><i>Amber MacInnis, MS*; Andre Luis da Costa da Silva, PhD; Anthony Bellantuono, PhD; Matthew DeGennaro, PhD; Jeffrey Wells, PhD</i>   |
| 9:45 AM – 10:00 AM  | 184 | <b>The Impact of Temperature and Diet on the Development of the House Fly, <i>Musca Domestica</i> (Linnaeus) (Diptera: Muscidae)</b><br><i>Casey Flint, DPhil*; Jennifer Rhinesmith-Carranza, DPhil; Riley Bell, BS; Jeffery Tomberlin, PhD</i>   |
| 10:00 AM – 10:15 AM |     | <b>BREAK</b>  |

### Forensic Entomology and the Microbiome

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Moderator: Lavinia Iancu

Co-Moderator: Jennifer Rhinesmith-Carranza

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|---------------------|-----|---|
| 10:15 AM – 10:30 AM | 185 | <b>The Influence of Biomass and Bisection of Remains on the Production of Necrophagous Flies</b><br><i>Samantha Sawyer, PhD*</i>  |
| 10:30 AM – 10:45 AM | 186 | <b>The Effect of Plastic Bags on Decomposition and Necrophagous Fly Composition</b><br><i>Kristi Bugajski, PhD*</i>   |
| 10:45 AM – 11:00 AM | 187 | <b>Cadaver Microbial Signatures of the Submandibular Glands and Thyroid for Forensic Investigations</b><br><i>Sheree Finley, PhD*; Matteo Moretti, MD; Silvia Visonà, PhD; Gulnaz Javan, PhD*</i> |

# PATHOLOGY/BIOLOGY

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11:00 AM – 11:15 AM	<b>188</b>	<b>Current Challenges in Protein Degradation-Based Postmortem Interval (PMI) Estimation</b> <i>Stefan Pittner, PhD*</i> ; <i>Fabio Monticelli, PhD</i>
11:15 AM – 11:30 AM	<b>189</b>	<b>First Observations on the Environmental Impact of Terrestrial Body Decomposition Within a Canadian Continental, Humid (Dfb) Climate</b> <i>Emily Pecci, BSc*</i> ; <i>Shari Forbes, PhD</i> ; <i>Francois Guillemette, PhD</i>
11:30 AM – 11:45 AM	<b>190</b>	<b>Metabolite Profiles and Expressed Microbial Metabolic Pathways in Human Decomposition-Impacted Soils</b> <i>Jennifer Baer, MS</i> ; <i>Lois Taylor, PhD*</i> ; <i>Neal Stewart, PhD</i> ; <i>Amy Mundorff, PhD</i> ; <i>Dawnie Steadman, PhD</i> ; <i>Jennifer DeBruyn, PhD</i>
11:45 AM – 12:00 PM	<b>191</b>	<b>COVID-19 and Brain-Heart-Lung Crosstalk in the Cadaver Microbiome</b> <i>Gulnaz Javan, PhD*</i> ; <i>Sheree Finley, PhD</i> ; <i>Matteo Moretti, MD</i> ; <i>Silvia Visonà, PhD</i>
12:00 PM – 1:00 PM		<b>BREAK</b>

## Postmortem Imaging

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Moderator: *Jim Caruso*

Co-Moderator: *Candace Schoppe*

1:00 PM – 1:30 PM	<b>192</b>	<b>Forensic Imaging Curriculum at a State-Wide Medical Investigator's Office: The New Mexico Experience</b> <i>Jamie Elifritz, MD*</i> ; <i>Lauren Decker, MD</i> ; <i>Heather Jarrell, MD</i> ; <i>Natalie Adolphi, PhD</i> ; <i>Clarissa Krinsky, MD</i> ; <i>Jolee T. Suddock, DO</i> ; <i>Michael Harrell, MD</i> ; <i>Aidan Kerr, MD</i> ; <i>Brittany DePasquale, MD</i> ; <i>Harley Schainost, MD</i> ; <i>Kimberly Johnson, MD</i> ; <i>Natalie Taylor, MD</i> ; <i>Kethery Haber, MD</i>
1:30 PM – 1:45 PM	<b>193</b>	<b>Micro-Computed Radiological Analysis of Traumatic vs. Iatrogenic Rib Fractures</b> <i>Giorgia Franchetti, MD*</i> ; <i>Simone Protani, MD</i> ; <i>Ludovico Fava, MD</i> ; <i>Paolo Fais, MD, PhD</i> ; <i>Barbara Bonvicini, MD</i> ; <i>Chiara Girauda, MD, PhD</i> ; <i>Guido Viel, MD, PhD</i> ; <i>Giovanni Cecchetto, MD, PhD</i>
1:45 PM – 2:00 PM	<b>194</b>	<b>Playing With Fire: The Value and Pitfalls of Postmortem Computed Tomography (PMCT) for the Forensic Investigation of Burnt Bodies</b> <i>Antonio Oliva, MD, PhD</i> ; <i>Simone Grassi, MD</i> ; <i>Massimo Zedda, MD*</i> ; <i>Federica Maiolatesi, MD</i> ; <i>Valentina Masini, MSc</i> ; <i>Carlotta Amatuucci, MD</i> ; <i>Beatrice Defraia, MD</i> ; <i>Rossella Grifoni, MD</i> ; <i>Matteo Polacco, MD</i> ; <i>Martina Focardi, MD</i> ; <i>Laura Filograna, MD</i> ; <i>Vilma Pinchi, PhD</i>
2:00 PM – 2:15 PM	<b>195</b>	<b>WITHDRAWN</b>
2:15 PM – 2:30 PM	<b>196</b>	<b>A Pilot Study to Investigate If and How Postmortem Micro-Computed Tomography (Micro-CT) Can Be Used to Differentiate Stillbirths From Livebirths</b> <i>Francesco Lupariello, MD*</i> ; <i>Federica Mirri, MD</i> ; <i>Tullio Genova, PhD</i> ; <i>Federico Mussano, PhD</i> ; <i>Giovanni Botta, MD</i> ; <i>Giancarlo Di Vella, PhD</i>
2:30 PM – 3:00 PM	<b>197</b>	<b>Cold Eyes: Postmortem Iris Recognition Under Autopsy Procedures</b> <i>Jordan Reining, BS*</i> ; <i>Kathryn Seigfried-Spellar, PhD</i> ; <i>Stephen Elliott, PhD</i> ; <i>Kevin O'Connor, MS</i>
3:00 PM – 3:15 PM		<b>BREAK</b>

# PATHOLOGY/BIOLOGY

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## Pediatric Mortality and Molecular Studies

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Moderator: Stephanie Yagi

Co-Moderator: Dan Schultz

- 3:15 PM – 3:30 PM     **I98**     **Cardiac Genetic Background in Sudden Infant Death Syndrome (SIDS): Is It a Matter of Structure or Electrical Conduction?**  
*Francesca Cazzato, MD\**; *Simone Grassi, MD*; *Mònica Coll, PhD*; *Ramon Brugada, MD*; *Antonio Oliva, MD, PhD*
- 3:30 PM – 3:45 PM     **I99**     **A Case of Renal Failure Secondary to Rhabdomyolysis in an Infant**  
*Amanda Saunders, BS\**; *Sarah Avedschmidt, MD*
- 3:45 PM – 4:15 PM     **I100**     **An Infant Death Due to COVID-19 Infection With Recovery and Survival of a Twin Sibling: A Comparison of Autopsy and Histologic Findings in Pediatric and Adult Cases and a Review of the Surviving Twin's Course**  
*Jennifer Ross, MD\**; *Arezo Nasrazadani, MD*; *Michelle Ruda, MD*
- 4:15 PM – 4:45 PM     **I101**     **Postmortem Genetic Testing in Sudden Unexplained Death: A Public Health Laboratory Experience**  
*Charles Rohrer, MD\**; *Angela Lager, PhD*; *Erin Brooks, MD*; *Vanessa Horner, PhD*
- 4:45 PM – 5:00 PM     **I102**     **The Role of Myocardial Biomarkers in Sudden Cardiac Death: Forensic Utility**  
*Vincenzo Ritorto, MD\**; *Matteo Sacco, MD\**; *Fabrizio Cordasco, MD*; *Carmen Scalise, PhD, MD*; *Angelica Zibetti, MD*; *Martino Maesani, MD*; *Umberto Rosini, MD*; *Maria Manno, MD*; *Pietrantonio Ricci, PhD, MD*; *Isabella Aquila, PhD, MD\**

## Poster Session

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- 11:30 AM – 1:00 PM     **I103**     **An Unusual Case of Self-Poisoning With Sodium Nitrite in an Asthmatic Patient**  
*Isabella Caristo, MD\**; *Brenda Briasco, MD*; *Ilaria Grasso, MD*; *Francesco Ventura, MD, PhD*
- 11:30 AM – 1:00 PM     **I104**     **Dying From an Antidote: A Case of Intravenous Lipid Emulsion Overdose in a Suspected Anesthetic Intoxication**  
*Ilaria Marcacci, MD\**; *Carla Occhipinti, MD*; *Federica Spina, MD*; *Andrea Scatena, MD*; *Marco Di Paolo, MD*
- 11:30 AM – 1:00 PM     **I105**     **Herbicide, Fungicide, Suicide: A Case of Glyphosate and Lime Sulfur (Calcium Polysulfide) Poisoning**  
*Neil Haycocks, MD, PhD\**; *Justin Lohmann, MD*; *Erik Christensen, MD*
- 11:30 AM – 1:00 PM     **I106**     **A Homicidal Poisoning Disguised by Drowning: How Stomach Content Analysis Helped to Solve the Mystery**  
*Eduardo Coutinho, MD\**; *Sara Adriazola, MD*; *Ricardo Mendonca, MD*; *João Pinheiro, MD*
- 11:30 AM – 1:00 PM     **I107**     **A Homicidal Poisoning With Amlodipine**  
*Federica Spina, MD\**; *Andrea Scatena, MD*; *Arianna Baronti, MD*; *Andrea Costantino, MD*; *Luigi Papi, MD*; *Silvio Chericoni, PhD*; *Fabio Stefanelli, PhD*
- 11:30 AM – 1:00 PM     **I108**     **WITHDRAWN**
- 11:30 AM – 1:00 PM     **I109**     **Metformin Fatal Intoxication: Suicide or Accident?**  
*Giacomo Visi, MD\**; *Federica Spina, MD*; *Eleonora Mezzetti, MD*; *Luigi Papi, MD*; *Fabio Stefanelli, PhD*; *Silvio Chericoni, PhD\**

# PATHOLOGY/BIOLOGY

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- 11:30 AM – 1:00 PM **I110** **Morphine Toxicity on Endothelial Differentiation of Vascular Mesenchymal Stromal Cells**  
*Maria Carla Mazzotti, MD; Guido Pelletti, MD\**; Arianna Giorgetti, MD\*; Paolo Fais, MD, PhD; Susi Pelotti, MD
- 11:30 AM – 1:00 PM **I111** **Sudden Death Due to Methamphetamine-Associated Pulmonary Hypertension: A Case Report**  
*Rasmey Thach, DO\**
- 11:30 AM – 1:00 PM **I112** **The Role of Carbon Dioxide in Death Related to Must Exhalations: Case Scenarios and Toxicological Results in Comparison**  
*Matteo Sacco, MD\**; Carmen Scalise, PhD, MD; Fabrizio Cordasco, MD; Saverio Gualtieri, MD\*; Maria Manno, MD; Martino Maesani, MD; Umberto Rosini, MD; Angelica Zibetti, MD; Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD\*
- 11:30 AM – 1:00 PM **I113** **Unravelling the Mechanism of Death Through Urine Metabolome Analysis: An Infant Methadone Intoxication**  
*Alberto Chighine, MD\**; Matteo Nioi, MD; Giulio Ferino, PhD; Emanuela Locci, PhD; Ernesto d'Aloja, MD
- 11:30 AM – 1:00 PM **I114** **A Hepatic Hemangiosarcoma Presumed by Imaging as a Hemangioma: A Case Report and Literature Review**  
*Lance Truong, DO\**; Yigit Baykara, MD; Sean Hacking, MB, BCh; Ayesha Siddique, MD; Priya Banerjee, MD
- 11:30 AM – 1:00 PM **I115** **Postmortem Magnetic Resonance Imaging and Forensic Pathology: An Ever-Closer Relationship**  
*Giuseppe Bertozzi, MD\**; Francesco Pio Cafarelli, MD; Fabio Mariottini, MD; Michela Ferrara, MD\*; Valentina Milone, MD; Maria Antonella Bosco, MD; Francesco Carpano, MD; Raffaele La Russa, MD
- 11:30 AM – 1:00 PM **I116** **The Use of Hand-Held Scanners in Forensic Traumatology**  
*Jacopo Agnolucci, MD\**; Francesco Angiola, MD; Enrica Callegari, MD; Enrico Mazzobel, MD; Tommaso Livieri, MD; Paolo Fais, MD, PhD; Arianna Giorgetti, MD; Giovanni Cecchetto, MD, PhD; Guido Viel, MD, PhD
- 11:30 AM – 1:00 PM **I117** **Coronary Myointimal Hyperplasia: A Rare Cause of Sudden Young Death**  
*Mariagrazia Calvano, MD\**; Sara Sablone, MD; Federica Mele, MD; Mirko Leonardelli, MD; Enrica Macorano, MD; Stefano Duma, MD; Giovanni De Gabriele, MD; Francesco Introna, MD
- 11:30 AM – 1:00 PM **I118** **Elder Abuse in Europe's "Most Elderly City": A Ten-Year Report (2010 – 2019)**  
*Martina Drommi, MD\**; Francesco Ventura, MD, PhD; Andrea Molinelli, MD, PhD
- 11:30 AM – 1:00 PM **I119** **An Epidemiology Analysis of a Medical-Legal Investigation of Child and Adolescent Fatalities in Taiwan**  
*Chang Jui-An, MS\**; Chen Hsiao-Ting, BS; Tsai Theodore; Shaw Kai-Ping, PhD; Hsu Cho-Hsien, MD
- 11:30 AM – 1:00 PM **I120** **Extreme Shortness of the Umbilical Cord: A Case Report**  
*Ilenia Russo, MD\**; Andreana N.M. Maglitto, MD\*; Giuliana Pennisi, MD; Salvatore Iannuzzi, MD; Pietro Mazzeo, MD; Monica Salerno, MD, PhD
- 11:30 AM – 1:00 PM **I121** **Fatal Fistulas: A Case Report of Fatal Button Battery Ingestion in a 13-Month-Old With a Literature Review**  
*Romana Mayer, MD\**; Michelle DiMarco, MD; Rachel Geller, MD

# PATHOLOGY/BIOLOGY

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- 11:30 AM – 1:00 PM     **I122**     **Juvenile Suicide Trends: A Comparative Analysis of Factors Surrounding Georgia’s Child and Teen Deaths**  
*Cody Archer, BS\**; *Samantha Mattox, DO*; *Elizabeth Andrews, BS*; *John Carter, PhD, MPH*;  
*Natasha Grandhi, MD*
- 11:30 AM – 1:00 PM     **I123**     **Kennel Cough: A Case of a Lethal Bordetella Bronchiseptica Infection in an Infant**  
*Simmi Patel, MD\**; *Todd Luckasevic, DO*
- 11:30 AM – 1:00 PM     **I124**     **Neonatal Pulmonary Hemorrhage: A Hazardous Disease**  
*Paola Santoro, MD\**; *Fabio Del Duca, MD*; *Gianpietro Volonnino, MD*; *Ilaria Marcacci, MD*;  
*Alessandra De Matteis, MD*; *Aniello Maiese, MD*
- 11:30 AM – 1:00 PM     **I125**     **An Unexpected Pulmonary Embolism in an Adolescent: A Case Report and Literature Review**  
*Bradley Conlin, BS, MS\**; *Merete Lund, BS\**; *Nicole Masian, MD*; *Wendy Gunther, MD*