

David R. Fowler,  
MB.ChB. M. Med Path (Forens)  
1408 Phoenix Rd  
Phoenix  
MD 21131  
(410 472 0688)

Mr. Andrew Hale  
Hale & Monico  
Monadnock Building  
53 W Jackson Blvd, Suite 337  
Chicago, IL 60604

January 29, 2023

**RE: Starved Rock Murders**

Dear Mr. Hale:

In connection with my engagement as an expert forensic pathologist, I have reviewed the medical records and case materials described below. This report states my findings and opinions, which are presented within a reasonable degree of medical probability in the field of forensic medicine. My conclusions and opinions are based on my education, training, and experience as a board-certified forensic pathologist actively practicing in pathology since 1986. Further details as to my background are contained in my curriculum vitae.

**Case Materials Reviewed**

Chester Weger-Crime Scene Photos  
Donna Kelly Statement of Facts  
Testimony Dr. John Maloney  
Starved Rock Victims Autopsy  
Newspaper Cutting: Says Starved Rock Crime Has Marks of Vengeance  
Newspaper Cutting: Hint Killer Was In Trio's Rooms  
Wayne Hess Trial Testimony

**Synopsis**

The three women, Mildred Lindquist, Frances Murph, and Lilian Oetting, checked into the Starved Rock Lodge. Their bodies were subsequently found by a search party in a cave at St Louis Canyon on Wednesday, March 16, 1960.

## **Autopsy Findings**

### **Body A – Subsequently identified as Mrs. Murphy (Grey Brown Hair)**

#### **Head and face Injuries:**

Multiple lacerations of the forehead  
Laceration of the scalp in the anterior midline  
Triangular avulsion, right side of the forehead  
Right periorbital hematoma  
Laceration and contusion of chin  
Contusion of left cheek  
The irregular wound of the left parietal region 7cm x 5 cm  
“Considerable” scalp contusion not otherwise defined  
Right parietal, temporal junction fracture  
Parietal sphenoid and parietal frontal sutures  
Right partial hinge fracture  
Orbital plate and left frontal fractures  
Subarachnoid hemorrhage on all surfaces  
Intraventricular hemorrhage

#### **Other Injuries:**

Aspirated blood in all lung lobes  
Absent half of left 2<sup>nd</sup> distal phalange (“apparently postmortem”)  
Lacerations into each joint of the left 5<sup>th</sup> finger, contusion on the dorsum of the hand  
Hematoma of left and right labia centered on the symphysis pubis

### **Body B – Subsequently identified as Mrs. Lindquist (Brown Grey Hair)**

#### **Head Injuries:**

Facies “distorted being caved in suggesting contact with cylindrical object approx. 3-5 inches in diameter.”  
Broken maxillary prosthesis  
Fractures of the left zygoma and antrum, maxilla, and left orbital bones.  
Laceration of buccal mucosa  
Lacerations, right frontal, left frontal, right parieto-occipital scalp  
Depressed skull fracture, right posterior parietal  
Left frontal fracture with orbital plate fracture  
Fracture through sella turcica with hinge fracture  
Posterior fossa fracture with right parietal brain lacerations and partial avulsion of the right cerebral peduncle  
“Severe injury to the head with crushing of the left side of the head and face. There is a strong possibility that when this blow was delivered, her head was resting against or was pushed against a firm, essentially flat object, causing the fracture on the right posterior portion of the skull.”

**Other Injuries:**

Hemoaspiration, all lobes of lungs

Superficial laceration at base of the nail, right 2<sup>nd</sup> finger

Contusion of left 2<sup>nd</sup> finger

Contusion and "separation of skin" in left shoulder region ~ 1 inch

**Body C – Mrs. Getting (Hair Grey Brown)**

**Head Injuries:**

Multiple bruises on the left side of the forehead with one laceration

Fractures of left zygomatic arch, maxilla, and mandible

Rupture of left eyeball

Partial avulsion of left ear

At least three scalp lacerations with partial avulsion of the scalp; marked hemorrhage into the scalp

**Fractures:**

A depressed skull fracture at the vertex "an essentially rectangular object or a pointed object" with a laceration of the brain

Basilar skull hinge fracture

Ethmoid and orbital plate fractures

"The entire skull is mobile on the vertebra."

Marked subarachnoid hemorrhage

**Other Injuries**

Hemoaspiration, all lobes of lungs

Scratch on the right wrist

**Opinions**

**Mrs. Murphy**

Blunt force injuries of the head from multiple directions. There are multiple frontal impacts, as well as left and right parietal impacts. The energy applied was sufficient to separate suture lines in the skull. There is the base of skull base fractures which are the source of bleeding into the respiratory tract and the aspiration of blood into the lungs. The injury to the left hand is consistent with a defense injury. This is consistent with this hand being free at some point in the assault.

**Mrs. Lindquist**

There are blunt force head impacts from multiple different directions (frontal, left, right). Extensive fracturing of facial bones, skull cap, and base. The skull base fracture is associated with bleeding and aspiration of blood. There is evidence of a depressed skull fracture. The base of skull fractures involves both a hinge fracture and a posterior fossa. Injuries to both hands are consistent with defense-type posturing (defense injury).

Mrs. Oetting:

There are blunt force head impacts from multiple directions (from the front and the top of the skull and face). There are basilar skull fractures and probable atlanto-occipital disarticulation. The base of skull fracture is the source of bleeding associated with the aspiration of blood into the lungs.

Conclusions:

All three women had severe head injuries. The amount of force to cause these injuries is substantial. For example, the base of skull fractures is more commonly seen in high-energy head impacts such as a fall from a height or in a motor vehicle collision. They can also occur with heavy solid objects applied at high speed.

The only defining features described are the cylindrical injury 3-5 inches in diameter and the squared-off or pointed injury. These would be consistent with an object of similar size and hardness to a baseball bat or steel pipe. The rectangular or pointed object would be something similar to a tool, such as a tire iron, the end of a 2x4 (lumber), or a hammer with a square head, such as a mallet or sledgehammer. These examples are not an exhaustive list and are illustrative only. The cylindrical object and the description, "an essentially rectangular object or a pointed object," are consistent with two different objects causing these wounds. The pointed or squared object is most consistent with a human-made object with that external format and meets the hard, solid, heavy criteria described above.

These objects must be solid, hard, and structurally sound. Hollow or light objects would not be sufficient to cause the severe skull fracturing seen in these cases. The camera and binoculars may be consistent with some of the superficial injuries but not with the severe skull fractures to the base of the skull. The considerable energy used to cause these injuries would also be applied to the object that caused these injuries. This would very likely result in damage to the object if it is not similar to steel or rock.

The hand injuries are consistent with defense posturing. Defense injuries are those seen when a part of the body is used to ward off blows.

All statements are made within a reasonable degree of medical certainty unless specified.

I reserve the right to add or change my opinions if the information supplied changes.

Sincerely,



David R Fowler MB. ChB. M.Med. Path. Forens

## **CURRICULUM VITAE**

David Richard Fowler, MB, ChB. M.Med. Path.  
Clinical Associate Professor, Department of Pathology and Pediatrics  
University of Maryland School of Medicine

**Date: 22022**

### **Contact Information**

David R Fowler Forensic Pathology LLC  
1408 Phoenix Rd  
Phoenix  
MD, 21131  
E-mail [dave.fowlerforensicpathology@gmail](mailto:dave.fowlerforensicpathology@gmail.com)

### **Education**

1978 – 1983 University of Cape Town, South Africa  
MB. Ch.B., Six-year medical degree

### **Post Graduate Education and Training**

- 1984 Victoria Hospital Cape Town, South Africa  
Internship: One-year internship, six months general medicine and six months general surgery.  
Intern representative to hospital board.
- 1985 Red Cross Children's Hospital, South Africa  
Division of Pediatric Pathology, University of Cape Town (UCT)  
Resident: One year rotating pediatric pathology residency.
- 1986-1990 University of Cape Town, South Africa  
M.Med. Path. (forens): Five-year full time pathology residency culminating in Degree of Master of Medicine, research dissertation, and certification in Forensic Pathology.
- 1991-1993 Resident, Anatomic Pathology, University of Maryland School of Medicine, Baltimore, Maryland
- 1993-1995 Fellowship, Forensic Pathology, Office of the Chief Medical Examiner, Baltimore, Maryland

### **Certifications**

- 1989 M.Med. Path. (forens) 1991 (South African Board Equivalent) ECFMG.  
Part 1 score 86; Part 2 score 84
- 1992 FLEX
- 1996 American Board of Pathology: Anatomic and Forensic Pathology.

### Other Certifications

- 2000 HAZWOPER Hazardous Waste Site Worker.  
Meets OSHA 29 CFR 1910.120 and EPA 40 CFR 311
- 2000 Crisis Intervention Counseling: Practical Psychological Management of Nuclear,  
Biological and Chemical Incidents. International Critical Stress Foundation.

### Medical Licensure

- 1984 General Medical Council UK - inactive
- 1993 State of Maryland - active

### Employment History

2020 –Present. Forensic pathology and Medicine Consultant

### Professional Positions

- 1994-1998 **Assistant Medical Examiner**  
Office of the Chief Medical Examiner  
State of Maryland  
111 Penn St, Baltimore, MD 21201
- 1998-2000 **Deputy Chief Medical Examiner- Autopsy Services**  
Office of the Chief Medical Examiner  
State of Maryland  
111 Penn St, Baltimore, MD 21201
- 2000-2001 **Deputy Chief Medical Examiner –Statewide Services**  
Office of the Chief Medical Examiner  
State of Maryland  
111 Penn St, Baltimore, MD 21201.
- 2001-2002 **Acting Chief Medical Examiner**  
Office of the Chief Medical Examiner  
State of Maryland  
111 Penn St, Baltimore, MD 21201

**Professional Position - cont'd:**

2002-2019 **Chief Medical Examiner**  
Office of the Chief Medical Examiner  
State of Maryland  
900 West Baltimore Street, Baltimore, MD 21201

**Faculty Positions**

1986-1991 **Lecturer**  
Department of Forensic Pathology  
University of Cape Town, South Africa

1997-2004 **Clinical Instructor**  
Department of Pathology and Department of Pediatrics  
University of Maryland School of Medicine

2000-Present **Faculty**  
Charles McMathias, Jr.  
National Study Center for Trauma and  
Emergency Medical Systems  
701 West Pratt Street, 5<sup>th</sup> Floor  
Baltimore MD 21201

2002- 2008 **Adjunct Professor**  
University of Baltimore  
Yale Gordon College of Liberal Arts  
Division of Criminology, Criminal Justice, & Social Policy  
1420 North Charles St  
Baltimore MD 21201

2003 **Visiting Professor**  
Tonji Medical School Wuhan China  
People's Republic of China

2004-2010 **Clinical Assistant Professor**  
Department of Pathology and Department of Pediatrics  
University of Maryland School of Medicine

2011-Present **Clinical Associate Professor**  
Department of Pathology and Department of Pediatrics  
University of Maryland School of Medicine

2006- 2010 **Faculty**  
Armed Forces Institute of Pathology

- 2007-2010      **Visiting Professor**  
Wuhan University  
People's Republic of China
- 2010            **Visiting Professor**  
Shanghai Key Laboratory of Forensic medicine  
Institute of Forensic science, Ministry of justice  
People's Republic of China
- 2011            **Visiting Professor**  
Jongji Medical College;  
People's Republic of China
- 2012            **Visiting Professor**  
Fudan University Shanghai Medical School  
People's Republic of China
- 2014            **Visiting Professor**  
China University of Political Science and Law, College of Evidence Science  
People's Republic of China
- 2015            **Visiting Professor**  
University of Southern California

### **Professional Memberships**

- 1997-Present      National Association of Medical Examiners(Fellow)
- 1997-Present      American Academy of Forensic Sciences (Fellow)
- 2001-Present      Honorary Member – Harvard Associates in Police Science
- 2002 – Present      College of American Pathologists (Fellow)

### **Administrative Service**

### **Institutional Service**

- 1999-2002      Mass Fatality Working Group, US Army Soldier and Biological Chemical  
Command (SBCCOM). Aberdeen, Maryland
- 1999-2005      Coordinated Highways Action Response Team
- 1999- 2006      Baltimore Regional Operations Center Committee
- 1999-2005      Drug Early Warning System Action Team



1999-2009	State Child Fatality Review Team
1999	Public Health Focus Group, Department of Health and Mental Hygiene
1999-2009	State Child Fatality Review Committee Data Committee
2000	Evidence Processing Subcommittee Mass Fatality Working Group. US Army Soldier and Biological Chemical Command (SBCCOM), Aberdeen, Maryland
2001	Baltimore Child Fatality Review Team. Baltimore City Health Department
2001	Governor's Task Force on Forensic Sciences
2001	Member, Ad Hoc Committee Support Subgroup, Biological and Chemical Terrorism. National Association of Medical Examiners
2003-2011	State EMS Board

### **Local and National Service**

1984	Intern Representative Victoria Hospital Board
1987-1991	Residency Committee UCT
1989-1990	Residency Advisory Committee UCT

### **Local and National Service – cont'd:**

1990	Advisory Member UCT Student Health Committee
1990-1991	Board of the Faculty of Medicine University of Cape Town
1999-Present	Graduate Education Committee OCME
2000	Member, Network of Death Investigation Affairs, National Association of Medical Examiners
2001	Justice Act for Children Committee
2001-Present	Medicolegal Advisor – Harvard Associates in Police Science, Inc.
2002-2010	Board Member- Maryland EMS Board
2003-present	Editorial Board, The American Journal of Forensic Medicine and Pathology.

2003-Present	NAME Accreditation Committee (Chair)
2005- Present	NAME Strategic planning Committee
2005-Present	NAME International Affairs Committee
2006-Present	Board Member – Maryland Medical Legal Foundation, Inc., Baltimore, MD
2010-2012	Interagency Working Group on Inspection and Accreditation. White House Science and Technology Committee
2011-Present	Board Member National Association of Medical Examiners
2011-Present	Executive Committee Member National Association of Medical Examiners
2012-Present	Editorial Board, Journal of Forensic Radiology and Imaging
2012	Program Chair National Association of Medical Examiners Annual Conf.
2013	Nominating Committee National Association of Medical Examiners
2014	Vice President National Association of Medical Examiners
2015	President NAME
2016	Chairman of the Board NAME
2015-2017	Medicolegal Death Investigation OSAC
2017-Present	Forensic Sciences Standards Board Member

### **Teaching Service**

1994-Present	Resident Monthly Rotation, University of Maryland School of Medicine, 1st & 2nd year residents (approximately 4 residents per year)
1994-Present	Forensic Pathology Senior Rotation, University of Maryland School of Medicine 4th year medical students (approximately 7-10 students per year)
1994-Present	Forensic Pathology Elective, Johns Hopkins University, 4th year medical students (approximately 3 students per year)
1994-Present	Forensic Pathology Rotation, Armed Forces Institute of Pathology, Residents (approximately 4-6 residents per year)
1994-Present	Pathologists' Assistant Student Rotations, University of Maryland at Baltimore, Pathology Assistant students (approximately 7 - 10 students per year)

1994-Present	Department of the Navy, Bethesda, Maryland, Navy Medical Trainees (approximately 4 per year)
1994-Present	Forensic Pathology Rotation, Washington Hospital Center, 2nd & 3rd year residents (approximately 4-6 residents per year)
1995-Present	School of Pharmacy, University of Maryland, Death and bereavement class. The role of the medical examiner and forensic pathology in bereavement counseling.
1998-2000	Assistant Director Residency Training, OCME – State of Maryland
1999-2003	University of Maryland Medical School Pathology Series, Sophomore Pathology Teaching - II year medical students. Death certification and basic forensic pathology. (approx. 150 students)
2000-2008	University of Baltimore, Criminal Justice Program. The Role of the Medical Examiner in death investigation (approximately 30 students)
2001-2012	Director of Residency Training, OCME – State of Maryland
2001-Present	Program Director, Harvard Associates in Police Science Seminar
2002-2008	Course Director, Yale Gordon College of Liberal Arts Division of Criminology, Criminal Justice, and Social Policy. FSCS 464.102: Medico-legal Death Investigation: 15 Lectures, 3 credits
2011- 2102	Program Co-Director – Advanced Forensic Imaging Course

### **Grant Support**

1/1/03 – 12/31/11	David Fowler (Principal Investigator) 1% Data Sharing Program & Traffic Fatality Data Liaison Maryland Department of Transportation State Highway Administration Annual Direct Costs: \$160,600 Total Direct Costs: \$160,600 Reviews and provide data to State Highway Administration
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### **Completed Grants**

2000-2002	Dr. Ling Li (Principal Investigator)
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David Fowler (Co-Principal Investigator)  
Investigation of Infant Fatalities in Maryland (1990-2001)  
Maryland Infant and Child Loss Center  
Annual Direct Costs: \$18,000  
Total Direct Costs: \$18,000

2002-2004 David Fowler (Co-Principal Investigator)  
Bed Sharing and Sudden Infant Death  
Maryland Infant and Child Loss Center  
Annual Direct Costs: \$10,000  
Total Direct Costs: \$10,000

2002-2004 Ling Li (Principal Investigator)  
David Fowler (Co-Principal Investigator)  
Maternal Microchierism: A Cause of Insulin-Dependent  
Diabetes Mellitus  
National Institute of Child Health and Human Development, NIH  
Annual Direct Costs: \$10,000  
Total Direct Costs: \$10,000

2003-2004 Dr. Ling Li (Principal Investigator)  
David Fowler (Co-Principal Investigator)  
The Fatty Acid Metabolic Disorders and Sudden Infant Death  
Maryland Infant and Child Loss Center  
Annual Direct Costs: \$12,000  
Total Direct Costs: \$12,000

## **Publications**

### **Masters Thesis.**

1. **Fowler DR:** Pediatric Spinal Cord Injury in Motor Vehicle Accidents: A Prospective Postmortem Study of 33 cases of Pediatric Motor vehicle Victims. (Submitted as the dissertation requirement for the Degree of M.Med. Path. (forens), June, 1991

### **Books**

Fowler, Rubio, Troncoso: *Essential Forensic Neuropathology*. First edited by Juan C. Troncoso, Ana Rubio and David R. Fowler, 07/2009; Wolters Kluwer., ISBN: 9780781778695

### **Book Chapters**

David Fowler: *Biomechanics of Injury*. *Essential Forensic Neuropathology*, 07/2009: chapter Biomechanics of Injury; , ISBN: 9780781778695

Frank D Kolodgie, Allen P Burke, Andrew Farb, David R Fowler, Robert Kutys, Thomas N Wight, Renu Virmani: *Plaque Erosion. The Vulnerable Atherosclerotic Plaque: Strategies for Diagnosis and Management*, 10/2007: pages 60 - 76; , ISBN: 9780470987575, DOI:10.1002/9780470987575.ch4

David R. Fowler, Kurt B. Nolte: *Biologic and Chemical Terrorism: Surveillance and Response. Handbook of Forensic Pathology.*, Edited by Froede RC, 01/2003: chapter 35 Biologic and Chemical Terrorism: Surveillance and Response.; College of American Pathologists., ISBN: ISBN: 0-930304-79-9

## Journal Publications

Guo L, Torii S, Fernandez R, et al. Genetic Variants Associated With Unexplained Sudden Cardiac Death in Adult White and African American Individuals. *JAMA Cardiol.* 2021;6(9):1013–1022. doi:10.1001/jamacardio.2021.1573

Esma Cihan, Dale C. Hesdorffer, Michael Brandsoy, Ling Li, David R. Fowler, Jason K. Graham, Michael Karlovich, Elizabeth J. Donner, Orrin Devinsky, Daniel Friedman *Neurology* Jun 2020, 94 (24) e2555-e2566; DOI: 10.1212/WNL.0000000000009463  
*Socioeconomic disparities in SUDEP in the US*

Prahlow, J.A., Ashraf, Z., Plaza, N., Rogers, C., Ferreira, P., Fowler, D.R., Blessing, M.M., Wolf, D.A., Graham, M.A., Sandberg, K., Brown, T.T. and Lantz, P.E. (2020), Elevator-Related Deaths. *J Forensic Sci*, 65: 823-832. <https://doi.org/10.1111/1556-4029.14235>

Cihan, E, Hesdorffer, DC, Brandsoy, M, et al. Dead in the water: Epilepsy-related drowning or sudden unexpected death in epilepsy? *Epilepsia.* 2018; 59: 1966–1972. <https://doi.org/10.1111/epi.14546>Volume59, Issue10

Esma Cihan, Orrin Devinsky, Dale C. Hesdorffer, Michael Brandsoy, Ling Li, David R. Fowler, Jason K. Graham, Michael W. Karlovich, Jaclyn E. Yang, Anne E. Keller, Elizabeth J. Donner, Daniel Friedman *Temporal trends and autopsy findings of SUDEP based on medico-legal investigations in the United States* *Neurology* Aug 2020, 95 (7) e867-e877; DOI: 10.1212/WNL.0000000000009996

Kageyama, Y., Saito, A., Pletnikova, O. *et al.* Amyloid  $\beta$  toxic conformer has dynamic localization in the human inferior parietal cortex in absence of amyloid plaques. *Sci Rep* 8, 16895 (2018). <https://doi.org/10.1038/s41598-018-35004-3>

Zabiullah Ali, Nikki Mourtzinis, Bakr B. Ali, David R. Fowler: *A Pilot Study Comparing Postmortem and Antemortem CT for the Identification of Unknowns: Could a Forensic Pathologist Do It?*. *Journal of Forensic Sciences* 09/2019; DOI:10.1111/1556-4029.14199

Ferdia Bolster, Zabiullah Ali, David Fowler, Barry Daly: *Manuscript Title: Imaging of Resuscitation and Emergency Resuscitation Devices – Lessons Learned from Post Mortem Computed Tomography.* *Journal of Forensic Radiology and Imaging* 05/2019; 17., DOI:10.1016/j.jofri.2019.05.002

- Michelle Duren, Johnathon Ehsani, Brydon Grant, David Fowler: *Geographic variation and trends in opioid-involved crash deaths in Maryland: 2006–2017*. *Accident Analysis & Prevention* 04/2019; 125:1-6., DOI:10.1016/j.aap.2019.01.012
- Yusuke Kageyama, Atsushi Saito, Olga Pletnikova, Gay L. Rudow, Yumi Irie, Yang An, Kazuma Murakami, Kazuhiro Irie, Susan M. Resnick, David R. Fowler, Lee J. Martin, Juan C. Troncoso: *Amyloid  $\beta$  toxic conformer has dynamic localization in the human inferior parietal cortex in absence of amyloid plaques*. *Scientific Reports* 12/2018; 8(1)., DOI:10.1038/s41598-018-35004-3
- Hiroyoshi Mori, Sho Torii, Emanuel Harari, Hiroyuki Jinnouchi, Ryan Brauman, Samantha Smith, Robert Kutys, David Fowler, Maria Romero, Renu Virmani, Alope V. Finn: *Pathological mechanisms of left main stent failure*. *International Journal of Cardiology* 07/2018; 263:9-16., DOI:10.1016/j.ijcard.2018.02.119
- Olga Pletnikova, Yusuke Kageyama, Gay Rudow, Katherine D. LaClair, Marilyn Albert, Barbara J. Crain, Jing Tian, M.B. David Fowler, Juan C. Troncoso: *The spectrum of preclinical Alzheimer's pathology and its modulation by ApoE genotype*. *Neurobiology of Aging* 07/2018; 71., DOI:10.1016/j.neurobiolaging.2018.07.007
- Donghee Han, Sho Torii, Kazuyuki Yahagi, Fay Y. Lin, Ji Hyun Lee, Asim Rizvi, Heidi Gransar, Mahn-Won Park, Hadi Mirhedayati, Wijnand J. Stuijzand, Lohendran Baskaran, Briain ó Hartaigh, Hyung-bok Park, Sang-eun Lee, Zabiullah Ali, Robert Kutys, Hyuk-Jae Chang, James P. Earls, David Fowler, Renu Virmani, James K. Min: *Quantitative measurement of lipid rich plaque by coronary computed tomography angiography: A correlation of histology in sudden cardiac death*. *Atherosclerosis* 05/2018; 275., DOI:10.1016/j.atherosclerosis.2018.05.024
- Aeshita Dwivedi, Fay Lin, Navneet Narula, Asim Rizvi, Wijnand Stuijzand, Ji Hyun Lee, Donghee Han, Yao Lu, Mahn Won Park, Hadi Mirhedayati Roudsari, Alessandra DiFranco, Kazuyuki Yahagi, Sho Torii, Robert Kutys, Erica Jones, Jessica Pena, Subhi Al'Aref, Michael Eagle, Dana Jackson, David Fowler, James Earls, James K. Min, Renu Virmani: *USE OF DUAL-ENERGY CORONARY COMPUTED TOMOGRAPHY FOR EVALUATION OF NECROTIC CORE IN PATIENTS WITH SUDDEN CARDIAC DEATH*. *Journal of the American College of Cardiology* 03/2018; 71(11):A1485., DOI:10.1016/S0735-1097(18)32026-6
- Isabelle L. Horon, Pooja Singal, David R. Fowler, and Joshua M. Sharfstein, 2018: *Standard Death Certificates Versus Enhanced Surveillance to Identify Heroin Overdose–Related Deaths* *American Journal of Public Health* 108, 777\_781, <https://doi.org/10.2105/AJPH.2018.304385>
- Zabiullah Ali, Christopher Cox, Michala K. Stock, Eddy E. Zandee vanRilland, Ana Rubio, David R. Fowler: *Estimating Sex Using Metric Analysis of the Scapula by Postmortem Computed Tomography*. *Journal of Forensic Sciences* 02/2018; 63(4)., DOI:10.1111/1556-4029.13751
- Hiroyoshi Mori, Dheeraj R. Atmakuri, Sho Torii, Ryan Braumann, Samantha Smith, Hiroyuki Jinnouchi, Anuj Gupta, Emanuel Harari, Melsi Shkullaku, Robert Kutys, David Fowler, Maria Romero, Renu Virmani, Alope V. Finn: *Very Late Pathological Responses to Cobalt–Chromium Everolimus-Eluting, Stainless Steel Sirolimus-Eluting, and Cobalt–Chromium Bare Metal Stents in Humans*. *Journal of the American Heart Association* 11/2017; 6(11):e007244., DOI:10.1161/JAHA.117.007244
- Donghee Han, Fay Lin, Ji Hyun Lee, Asim Rizvi, Mahn Won Park, Hadi Mirhedayati Roudsari, Lohendran Baskaran, Heidi Gransar, Ashley Beecy, Khalil Anchouche, Subhi Al'Aref, Kazuyuki

- Yahagi, Sho Torii, Briain O. Hartaigh, Hyung Bok Park, Sang-Eun Lee, Robert Kutys, David Fowler, James Earls, Jessica Pena, Hyuk-Jae Chang, James Min, Renu Virmani: *QUANTITATIVE MEASUREMENT OF CORONARY INTRA-PLAQUE NECROTIC CORE BY CORONARY CT ANGIOGRAPHY IN VICTIMS OF AUTOPSY-PROVEN SUDDEN CORONARY DEATH: A COMPARISON TO A HISTOLOGIC REFERENCE STANDARD*. Journal of the American College of Cardiology 03/2017; 69(11)., DOI:10.1016/S0735-1097(17)34991-4
- Asim Rizvi, Fay Lin, Briain O. Hartaigh, Ji Hyun Lee, Donghee Han, Yao Lu, Mahn Won Park, Hadi Mirhedayati Roudsari, Subhi Al'Aref, Ashley Beecy, Khalil Anchouche, Kazuyuki Yahagi, Sho Torii, David Fowler, Robert Kutys, James Earls, Jessica M. Peña, James K. Min, Renu Virmani: *DUAL-ENERGY CORONARY COMPUTED TOMOGRAPHY EVALUATION OF HIGH-RISK ATHEROSCLEROTIC PLAQUE IN SUDDEN CARDIAC DEATH PATIENTS: VALIDATION WITH HISTOPATHOLOGIC GOLD STANDARD*. Journal of the American College of Cardiology 03/2017; 69(11)., DOI:10.1016/S0735-1097(17)34894-5
- Hadi Mirhedayati Roudsari, Fay Lin, Briain Ó. Hartaigh, Asim Rizvi, Ji Hyun Lee, Donghee Han, Mahn Won Park, Yao Lu, Subhi J. Al'Aref, Khalil Anchouche, Ashley Beecy, Kazuyuki Yahagi, Sho Torii, David Fowler, Robert Kutys, James Earls, Jessica Peña, James Min, Renu Virmani: *OPTIMAL METHOD FOR NECROTIC CORE IDENTIFICATION IN CORONARY PLAQUE WITH DUAL-ENERGY COMPUTED TOMOGRAPHY: MATERIAL DECOMPOSITION AND ATOMIC NUMBER*. Journal of the American College of Cardiology 03/2017; 69(11)., DOI:10.1016/S0735-1097(17)35039-8
- David R. Fowler: *Drug Intoxication and the Need to Autopsy: A Diagnosis of Exclusion?*. 03/2017; 7(1):2-6., DOI:10.23907/2017.001
- Hiroyoshi Mori, Christoph Lutter, Kazuyuki Yahagi, Emanuel Harari, Robert Kutys, David R. Fowler, Elena Ladich, Michael Joner, Renu Virmani, Alope V. Finn: *Pathology of Chronic Total Occlusion in Bare-Metal Versus Drug-Eluting Stents*. JACC. Cardiovascular Interventions 02/2017; 10(4)., DOI:10.1016/j.jcin.2016.11.005
- Rong Li, Li Hu, Lingli Hu, Xiang Zhang, Rebecca Phipps, David R. Fowler, Feng Chen, Ling Li: *Evaluation of Acute Alcohol Intoxication as the Primary Cause of Death: A Diagnostic Challenge for Forensic Pathologists*. Journal of Forensic Sciences 01/2017; 62(5)., DOI:10.1111/1556-4029.13412
- Zabiullah Ali, Ferdia Bolster, Eric Goldberg, David Fowler, Ling Li: *Systemic air embolism complicating upper gastrointestinal endoscopy: a case report with post-mortem CT scan findings and review of literature*. 01/2017; 1(1)., DOI:10.1080/20961790.2016.1252898
- Liliang Li, Yang Zhang, Allen Burke, Aimin Xue, Ziqin Zhao, David Fowler, Yiwen Shen, Ling Li: *Demographic, Clinical and Pathological Features of Sudden Deaths due to Myocarditis: results from a State-wide Population-Based Autopsy Study*. Forensic science international 01/2017; 272., DOI:10.1016/j.forsciint.2016.12.037
- Zabiullah Ali, David R. Fowler: *En Bloc Examination of the Neck in Pediatric Homicide Cases: A Proper Way For Complete Assessment of Neck Trauma*. 12/2016; 6(4):622-637., DOI:10.23907/2016.059
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#### Conference Proceedings

- Ferdia Bolster, Zabiullah Ali, David Fowler, Barry Daly: *Imaging of Resuscitation and Emergency Resuscitation Devices - Lessons Learned from Post Mortem Computed Tomography*. Radiological Society of North America 2015 Scientific Assembly and Annual Meeting; 12/2015



- Angela D. Levy, Howard Theodore Harcke, Edward L. Mazuchowski, Barry David Daly, David Fowler: *CSI: Radiology Conversations between the Radiologist and Forensic Pathologist*. Radiological Society of North America 2012 Scientific Assembly and Annual Meeting; 11/2012
- Angela D. Levy, Howard Theodore Harcke, Edward L. Mazuchowski, Barry David Daly, David Fowler: *CSI: Radiology Conversations between the Radiologist and Forensic Pathologist*. Radiological Society of North America 2011 Scientific Assembly and Annual Meeting; 11/2011
- J. Shields, L. Li, D. R. Fowler, Y. Zhang, A. P. Burke: *Nonspecific Cardiomyopathy: A Common Cause of Death with a Need for Standardization of Terminology*. 100th Annual Meeting United States-and-Canadian-Academy-of-Pathology; 02/2011
- J. Shields, L. Li, D. R. Fowler, Y. Zhang, A. P. Burke: *Nonspecific Cardiomyopathy: A Common Cause of Death with a Need for Standardization of Terminology*. 100th Annual Meeting of the United States and; 02/2011
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- N. Cresswell, Y. Zhang, D. Fowler, R. Kutys, A. Burke, L. Li: *Left Ventricular Hypertrophy Is a Common Cause of Sudden Unexpected Death in African-Americans*. 98th Annual Meeting of the; 01/2009
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- I Horkayne-Szakaly, E Rushing, D Fowler, M Riudavets, J Troncoso, A Rubio: *Primary intracranial hemorrhage and drug abuse: An autopsy study*. 81st Annual Meeting of the American-Association-of-Neuropathologists; 05/2005
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## **Abstracts and Presentations**

1. **Fowler, DR**, Pediatric Spinal Cord Injury in Motor Vehicle Accidents: Annual Meeting of the American Academy of Forensic Sciences, San Antonio, Texas, 1994.
2. **Fowler, DR**, Platt, M., Smialek, J.E., Endotoxin in Abdominal Trauma: Annual Meeting of the American Academy of Forensic Sciences, Nashville, Tennessee, 1996.
3. **Fowler, DR**, Smialek, J.E., Hypothermia Caused and Related Deaths in the State of Maryland. Annual Meeting of the National Association of Medical Examiners, Albuquerque, New Mexico, October 30 - Nov. 4, 1998.
4. **Fowler, DR**, Smialek, J.E., Medical Examiner Computer Network 101, Annual Meeting of the National Association of Medical Examiners, Albuquerque, New Mexico, October 30 - Nov. 4, 1998.
5. Brown, D.K., Titus, J.M., **Fowler, DR**, Smialek, J.E., Restrained Driver Injury Patterns In Fatal Motor Vehicle Collisions, Montgomery County, Maryland 1995-1997, Annual Meeting of the National Association of Medical Examiners, Albuquerque, New Mexico, October 30 - Nov. 4, 1998.
6. Smith J., **Fowler DR**, Topoleski T., Smialek J.E., Quantification Of The Force Required to Fracture The Human Hyoid/Thyroid Complex. Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 19, 1999.
7. **Fowler DR**, Smialek J.E., Homicide in the Kitchen. Three Unusual Cases of Blunt and Sharp Force Injury. Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 19, 1999.
8. Fowler CJ, Dixon AM, **Fowler DR**, Pellerin F. Understanding and preventing "accidental" child deaths: the contribution of forensic investigation. Annual Meeting of the American Academy of Forensic Sciences, Orlando, Florida, February 19, 1999.
9. **Fowler, DR**, Smialek, J.E., Weapons of Mass Destruction Preparedness: Practical Considerations of the Office of the Chief Medical Examiner, State of Maryland, Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21-26, 2000.
10. Ripple, M., **Fowler, DR**, Smialek, JE: Evaluation of Aortic Injury in Driver Fatalities Occurring in Motor Vehicle Accidents in the State of Maryland for 1998, Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21-26, 2000.
11. Stern, C., **Fowler, DR**, Troncoso, J., Smialek, J.E., Seizure Disorder as a Cause of Death in Maryland, Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21-26, 2000.
12. Goslinoski, L., **Fowler, DR**, Smialek, J.E., Overview of Adolescent Suicide Cases in Maryland During a Five Year Period (1995-1999), Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19-24, 2001
13. Herawi, M., **Fowler, DR**, Smialek, J.E., Suicide by Explosive Substances, Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19-24, 2001
14. Chrostowski, L., Titus, J., **Fowler, DR**, Smialek, J.E., MDMA ("Ecstasy") Related Deaths in Maryland (1997-2000), Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19-24, 2001
15. Ensign, B., **Fowler, DR**, Smialek, JE: Patterns of Injury Associated With Wearing of Body Armor in Subjects Involved in Motor Vehicle Accidents, Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19-24, 2001
16. Nicolaescu, A., Kufera, J.A., Titus, J.M., **Fowler, DR**: The Changing Faces of the Medico-legal Autopsies at the Office of the Chief Medical Examiner of the State of Maryland - A Decade of Experience. Annual Meeting of the American Academy of Forensic Sciences, Atlanta, February 11-16, 2002

17. Reimer, E.C., Levine, B.S., Titus, J.M., **Fowler, DR**: Oxycodone Related deaths in Maryland 1998-2000. Annual Meeting of the American Academy of Forensic Sciences, Atlanta, February 11-16, 2002
18. Li, L., **Fowler, DR**, Liu, L., Ripple, M.G., Lambros, Z., Smialek, J.E., Investigation of Infant Fatalities in Maryland (1990-1999), Annual Meeting of the American Academy of Forensic Sciences, Chicago, Illinois, February 17-22,2002
19. Chute, D., **Fowler, DR**, Basketball-Related Sudden Deaths in Young Adults: A Medical Examiner Study, Annual Meeting of the American Academy of Forensic Sciences, Chicago, Illinois, February 17-22,2002
20. Levine, B.S., Moore, K.A., Ramcharitar, V., Ramacharitar, R., **Fowler, DR**, Interpretation of Postmortem Diphenhydramine Concentrations, Annual Meeting of the American Academy of Forensic Sciences, Chicago, Illinois, February 17-22,2002
21. Ripple, M.G., Titus, J.M., **Fowler, DR**, Autopsy Procedure and Findings in a Case of Inhalational Anthrax, Annual Meeting of the American Academy of Forensic Sciences, Chicago, Illinois, February 17-22,2002
22. Ali, Z., Ripple, M.G., Levine, B.S., **Fowler, DR**: Diabetic Ketoacidosis – A Silent Death, Annual Meeting of the American Academy of Forensic Sciences, Chicago, Illinois, February 17-22,2002
23. Thali, M., Kneubuehl, B.P., Rodriguez, W.C., Smirniotopoulos, J., Richardson, CA.C., **Fowler, DR**: Godwin, M.L., Jurrus, A., Fletcher, D., Mallak, C.T., Coins as Intermediate Targets: Reconstructive Analysis With Body Models, Annual Meeting of the American Academy of Forensic Sciences, Chicago, Illinois, February 17-22,2002
24. Ali, Z., Rubio, A., **Fowler, DR**: Fatal Ethylene Glycol Intoxication in the State of Maryland for the Last Seven Years, Annual Meeting of the American Academy of Forensic Sciences, Chicago, Illinois, February 17-22,2002
25. Gwynn, L.K., Rubio, A., **Fowler, DR**: Bilateral Perforation of the tympanic membranes in a Tornado Victim: An Under-Reported Injury? Annual Meeting of the American Academy of Forensic Sciences, Chicago, Illinois, February 17-22,2002
26. Aronica-Pollak PA, Titus JM, Kutys RJ, Burke AP and **Fowler DR**. Sudden Death Following Recreational Activity in Marfan's Syndrome. Presented at the National Association of Medical Examiners meeting in San Jose, California September 2003.
27. Ephedra: A Series of 16 Deaths in Men and Women Using Anorexigens, A.P.Burke, E.K.Mont, T.L.Zemrus, L.Pearse, **Fowler, DR**, Virmani, R: Presented at the National Association of Medical Examiners, 2003 Annual Meeting, San Jose, California: September, 2003.
28. Aronica-Pollak PA, Titus JM, Kutys RJ, Burke AP and **Fowler DR**. Anomalous Coronary Arteries and Sudden Death in Athletes. Presented at the National Association of Medical Examiners meeting in San Jose, California September 2003.
29. Li, L., **Fowler, D.R.**, Liu, L., Smialek, JE.: Investigation of Infant fatalities in Maryland (1990-1999). 55<sup>th</sup> Annual Meeting of Forensic Sciences. Post Presentation. Chicago Feb 16-22 2003.
30. Aronica-Pollak PA, Mont EK, **Fowler DR**, and Burke AP. Cardiovascular Pathology in Sudden Death Among Anabolic Steroid Users. Presented at the National Association of Medical Examiners meeting in San Jose, California September 2003.
31. Allan, C, Ling Li, Susan Hogan, Allen Burke, Mary Ripple, **Fowler, DR**: Cardiac Sarcoidosis and Sudden Death. Platform presentation, American Academy of Forensic Sciences, Dallas, TX. February, 2004
32. Southall, P., Li, L., **Fowler, D.**: Police Custody Deaths in the State of Maryland: Passing the Torch. 56 Annual Meeting of American Academy of Forensic Sciences. Dallas, Texas, Feb. 16-21, 2004.

33. Aronica-Pollak PA, Titus JM, and **Fowler DR**. Autopsy Findings in Hypothermia: A Five-Year Retrospective Study. Presented at the American Academy of Forensic Sciences meeting in New Orleans, Louisiana February 2005.
34. Chu AY, Allan C, Ripple MG, Greenbert TZ, **Fowler DR**. Fatal dog maulings associated with infant swings. Poster presentation. American Academy of Forensic Sciences, New Orleans, LA, February 2005.
35. Colvin SM, Allan C, Locke L, Ripple MD, **Fowler DR**. Analytical electron microscopic detection of aluminum received intravenously. Platform presentation (co-winner of Best Resident Paper), American Academy of Forensic Sciences, New Orleans, LA, February 2005.
36. Stash JA, Ali Z, Allan C, Rubio A, Ripple MG, **Fowler DR**. Heightened awareness of bioterrorism: three cases of unusual skin lesions. Platform presentation (co-winner of Best Resident Paper), American Academy of Forensic Sciences, New Orleans, LA, February 2005.
37. Brassell, M.A., Allan, C.H., Ripple, M.G. and **Fowler, DR**, A demographic analysis of youth and teen suicides in Maryland (1994-2003). Annual Meeting of the American Academy of forensic Sciences, Seattle, WA. Feb 2006.
38. Ripple, M., Rinehart, C., Hsu, M., Artigiani, E., Wish, E., **Fowler, DR**: Methadone Deaths are on the Increase in Maryland (1998-2004). Presented at the Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA. Feb 2006.
39. Rubio, A., Riudavets, M., Li, L, Cox, C., Reisz, D., **Fowler, DR**: Neuropathology of Pre-Teen Homicides in the State of Maryland: 1994-2004. Presented at the Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA. Feb 2006.
40. Grant, J., Southall, P., Fowler, DR, Scott, S: Death in Custody: A Historical Analysis. Presented at the Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA. Feb 2006.
41. Brassell, M.A., Allan, C.H., Ripple, M.G. and **Fowler, DR**, A demographic analysis of youth and teen suicides in Maryland (1994-2003). Presented at the Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA. Feb 2006.
42. Prashar, S., Grant, J., Hogan, S., **Fowler, DR**, Ripple, M., Kramer M: Antemortem and Postmortem Toxicological Findings in Motor Vehicle Accidents, Maryland (2003-2004) Does Impairment Equal Death? Presented at the Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA. Feb 2006.
43. Jufer, R., Levine, B., Green, D, Ripple, M., **Fowler, DR**: Absence of Elevated Carboxyhemoglobin Following Inhalation of Automobile Exhaust. Presented at the Annual Meeting of the American Academy of Forensic Sciences, Seattle, WA. Feb 2006.
44. Zulauf, D., Ripple, M., **Fowler, DR**: The "Choking Game": Enhancing Investigation of Asphyxial Deaths: Presented at the National Association of Medical Examiners Annual Meeting, San Antonio, Texas, October 2006
45. Saki, S., Jufer, R., Levine, B., Greenberg, T., **Fowler, DR**: Case Report: A Meclizine (Antivert ®) Related Death. Presented at the Society of Forensic Toxicologists, Austin, Texas, August 2006.
46. Jufer, R., Cox, D., Levine, B., Jacobs, A., **Fowler, DR**: Distribution of Phencyclidine (PCP) into Vitreous Humor. Presented at the Society of Forensic Toxicologists, Austin, Texas, August 2006.
47. Zhang, X., Ling, L., Yan, P., Levine, B., **Fowler, DR**: Alcohol, drugs and homicide: Presented at the Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX, Feb. 2007.
48. Rubio, A., Reisz, D., Cox, C., **Fowler, DR**: Weight that kills: adults with natural deaths are heavier than those dying non-naturally; a cross-sectional study. Presented at the Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX, Feb. 2007.
49. Jufer, R., Levine, B.S., **Fowler, DR**: Prevalence of Diltiazem in Cocaine-Positive Postmortem Cases in Maryland. Presented at the Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX, Feb. 2007.

50. Vincenti, D.M., Aronica-Pollak, P.A., Sharfstein, J.M., **Fowler, DR**: Exsanguination Associated with Vascular Access Sites in Hemodialysis Patients. Presented at the Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX, Feb. 2007.
51. Brassell, M.A., Ripple, M.G., **Fowler, DR**: Open fractures in pediatrics mimicking gunshot wounds. Presented at the Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX, Feb. 2007.
52. Aronica-Pollak, P.A., Titus, J.M., **Fowler, DR**: Non-Traumatic Homicide Following Assault: 16 Cases – A Review of Investigation, Pathology, Toxicology, and Judicial Outcome. Presented at the Annual Meeting of the American Academy of Forensic Sciences, San Antonio, TX, Feb. 2007.
53. Zhang, X., Li, L., Zielke, R., Rubio, A., Ripple, M., **Fowler, DR**: Cause of Death in Autistic Patients: a Forensic Autopsy Study; Presented at the National Association of Medical Examiner Annual Meeting, Savannah, Georgia, October 2007.
54. Manzo, C., Zulauf, D., **Fowler, DR**: Investigative Findings in a Serial Murder Case in Baltimore, Maryland. Presented at the National Association of Medical Examiner Annual Meeting, Savannah, Georgia, October 2007.
55. Glenn, A., Ali, Z., Zulauf, D., **Fowler, DR**: Evaluation of a Staged Homicide and Staged Suicide. Presented at the National Association of Medical Examiner Annual Meeting, Savannah, Georgia, October 2007.
56. Titus, J., Grant, J., Zulauf, D., **Fowler, DR**: Non-Traumatic Sports Related Deaths in the State of Maryland from 2003-2006. Presented at the National Association of Medical Examiner Annual Meeting, Savannah, Georgia, October 2007.
57. Greenberg, T., Zulauf, D., **Fowler, DR**: Compressional Asphyxia of a Two Year Old by a Dresser: Autopsy, Investigation and Legal Disposition. Presented at the National Association of Medical Examiner Annual Meeting, Savannah, Georgia, October 2007.
58. Greenberg, T., Stephany, J., **Fowler, DR**: Two Cases of Industrial Mulch Spreader/Bark Blower Fatalities in Maryland and Florida: Description and Investigation by the National Institute for Occupational Safety and Health (NIOSH) Fatality Assessment and Control Evaluation (FACE). Presented at the National Association of Medical Examiner Annual Meeting, Savannah, Georgia, October 2007.
59. Sakinedzad, S., Jufer, R., Levine, B., **Fowler, DR**: Age-Related Differences in Blood Alcohol Concentration in Acute Alcohol Intoxication Fatalities. Presented at the Society of Forensic Toxicologists annual Meeting, Duham, North Carolina, October 2007.
60. Jufer, R., Sakinedzad, S., Levine, B., Rubio, A., **Fowler, DR**: Metabolism and Destruction of Strychnine in a Fatal Intoxication. Presented at the Society of Forensic Toxicologists Annual Meeting, Duham, North Carolina, October 2007.
61. Xiang, Z., Li, L., Grant, J., Rubio, A., Levine, Phipps, RJ, **Fowler, DR**: Pattern of Drug Abuse Fatalities in Teenagers. Presented at the Annual Meeting of the American Academy of Forensic Sciences, Washington, DC, February 2008.
62. Daly B., Sliker, C, Ali, Z., Zulauf, D., Titus, J., Ripple, M., **Fowler, DR**: Preliminary Study and Potential Role of CT Imaging Autopsy in the Investigation of Death Due to Accidental Blunt Trauma, Presented at the Annual Meeting of the American Academy of Forensic Sciences, Washington, DC, February 2008
63. American Academy of Forensic Sciences. Half day workshop of Forensic Radiology (Co-Chair) 2008
64. Li L., Xiang Z, Thomas, E, **Fowler, DR**: Deaths from Methadone Use Among Teenagers in Maryland During 1991-2006, Presented at the International Forensic Science Meeting, New Orleans, LA, July 2008.

65. Zhang Y, Yan P, Thomas E, Ling L; **Fowler DR**, Zielke, RH: Sudden Unexpected Infant Deaths in Maryland: implications for future prevention, Presented at the International Forensic Science Meeting, New Orleans, LA, July 2008.
66. Alexander RT and **Fowler DR**: Ephemeral Petechial-Like Spots in a Victim of a House Fire, Presented at the American Academy of Forensic Sciences National Meeting, Denver, CO, 2009.
67. Moser, L, Ripple, MG and **Fowler, DR**: Prolonged survival time following duodenal transection in a child with abdominal trauma. Oral presentation at the American Academy of Forensic Sciences Meeting, Denver, Colorado, February 19, 2009.
68. Shaw, K, Shah, PA, Sliker, CW, Ali, Z, Hisley, KC, Titus, J, Ripple, MG, **Fowler, DR**: and Daly, D: CT autopsy imaging in the state medical examiner setting: Logistic issues, techniques, findings, and potential. Oral presentation at the American Academy of Forensic Sciences Meeting, Denver, Colorado, February 21, 2009
69. Ripple, M, Li, L, and **Fowler. DR**: Investigation and Autopsy Procedures in Cases Involving Conducted Energy Devices (CEDs) in the State of Maryland. Oral presentation at the Second International Conference on Evidence Law and Forensic Science. Beijing, China, July 25-26, 2009
70. Ripple, M, Ling Li, L, and **Fowler, DR**: Investigation and Autopsy Procedures in Cases Involving Conducted Energy Devices (CEDs) in the State of Maryland. Oral presentation at the American Academy of Forensic Sciences Meeting, Seattle, Washington, February 2010
71. Zhang, X, Li, L, Zhou, L and **Fowler, DR**: Natural Causes of Sudden Unexpected Infant Death: a 7-Year Retrospective Forensic Autopsy Study in Hubei China presented at the American Academy of Forensic Sciences Meeting, Seattle, Washington, February 2010.
72. Banerjee, P, Ali, Z, Levine, B, **Fowler, DR**: Fatal Caffeine Intoxication: a Series of Eight Cases from 1999-2009. Presented at the American Academy of Forensic Sciences Meeting, Seattle, Washington, February 2010
73. Starling-Roney, R, Rubio, R, Vincent, D and **Fowler, DR**: Temporal Variation of Alcohol Related Firearm Deaths. Presented at the American Academy of Forensic Sciences Meeting, Seattle, Washington, February 2010.
74. Johnson, M, MD, Rubio, A, Troncoso, J, **Fowler, DR**, Ling Li: Axonal injury in young pediatric head trauma: A comparison study of  $\beta$ -amyloid precursor protein A( $\beta$ -APP) immunohistochemical staining in traumatic and non-traumatic deaths. Presented at the American Academy of Forensic Sciences Meeting, Seattle, Washington, February 2010
75. **Fowler DR**, Daly B CSI: Radiology Conversations between the Radiologist and Forensic Pathologist Presented at RSNA November 2010
76. Utility of Whole-body Post Mortem Computed Tomography Imaging in Detection of Elder Abuse and Neglect: Comparison with and Potential Substitution for Standard Autopsy Barry David Daly, Sopo Lin, Zabiullah Ali, Minh Lu, Krystal Archer-Arroyo, Clint W. Sliker, Michael E. Mulligan, David Fowler Radiological Society of North America 2010 Scientific Assembly and Annual Meeting; 12/2010
77. Johnson, K, Weedn, V, Nedley, S, Maier, J, Ripple, M, and **Fowler, DR**: The Use Raman Spectroscopic Imaging in Cases of Ethylene Glycol Toxicity. Presented at the American Academy of Forensic Sciences Meeting, Chicago, Illinois, February 2011.
78. Case Report of a Fatal Intoxication by Nucynta® Dori M. Franco, DO, Zabiullah Ali, MD, Barry S. Levine, PhD, Robert A. Middleberg, PhD, Annette Ervin, BS, Francis X. Diamond, BS, David R. Fowler, MD
79. Two Suicidal Deaths From Head Injuries Caused by Unusual Sharp Force Instruments and Review of the Literature Patricia A. Aronica-Pollak, MD, and Mary G. Ripple, MD, Juan C. Troncoso, MD,; Kyle C. Shaw, MBBS, David R. Fowler, MD

80. Fowler DR, Daly B CSI: Radiology Conversations between the Radiologist and Forensic Pathologist Presented at RSNA November 2011
81. Lu, D, Chang, L, Zhang, X, Li, L, **Fowler, DR**: Overview of Clinical Forensic Medicine in Beijing, China. Presented at the American Academy of Forensic Sciences Meeting, Atlanta, Georgia, February 2012.
82. Boggs, C, Ripple, M, Ali, Z, Levine, B, Jufer-Phipps, R, Doyon, S, **Fowler, DR**: Anaphylaxis After the Injection of Buprenorphine. Presented at the American Academy of Forensic Sciences Meeting, Atlanta, Georgia, February 2012.
83. Weinberg, M, Weedn, V, Weinberg, S, Clark, S, and **Fowler, DR**: Characteristics of Medical Examiner/Coroner Offices Currently Accredited by the National Association of Medical Examiners. Presented at the American Academy of Forensic Sciences Meeting, Atlanta, Georgia, February 2012.
84. Logistic Challenges in the Initiation and Development of a Forensic Computed Tomography Scanning Service at a United States Medical Examiner's Office Jamie Elifritz, MD; Mike Spinoe RT, Barry Daly, MD, Zabiullah Ali MD, and David Fowler, MD, Presented at the American Academy of Forensic Sciences Meeting, Atlanta, Georgia, February 2012
85. Kesha K, Boggs C, Ripple M, Allan CH, Levine B, Jufer-Phipps R, Doyon S, **Fowler, DR**: Methylenedioxypropylamphetamine ("Bath Salts") Related Death: Case Report and Review of the Literature. Presented at the American Academy of Forensic Sciences Meeting, Atlanta, Georgia, February 2012.
86. Shields, J, Banerjee, P, Zerbe, T, Magers, A, Ripple, M, **Fowler, DR**: DNA Analysis of Spermatozoa Recovered From the Gastric Contents of a Homicide Victim Identifies Assailant. Presented at the National Association of Medical Examiner's Meeting, Baltimore, Maryland, October 2012.
87. Aronica-Pollak, P, Sharfstein, JM, **Fowler, DR**: The Role of the Medical Examiner's Office in the Development of Regulations to Ban the Sale of Crib Bumpers in the State of Maryland. Presented at the National Association of Medical Examiner's Meeting, Baltimore, Maryland, October 2012.
88. Eagle, M, Zulauf, **Fowler, DR**: Then and Now: Technology Trends in Forensic Medicine. Presented at the National Association of Medical Examiner's Meeting, Baltimore, Maryland, October 2012.
89. Kolovich, RM, Harris, K, Titus, J, Ripple, M, **Fowler, DR**, Kennedy, K, McRann, D: A Collaborative Approach Between the Maryland OCME's Office and the Living Legacy Foundation to Increase Opportunities for Tissue Donation. Presented at the National Association of Medical Examiner's Meeting, Baltimore, Maryland, October 2012
90. Zulauf, D, Miller, B, Taylor L, **Fowler, DR**: The Threat of the Gang Life: Reporting Potential Gang Association. Presented at the National Association of Medical Examiner's Meeting, Baltimore, Maryland, October 2012.
91. Zulauf, D, **Fowler, DR**: Miniature Models to Mock Crime Scenes: Utilizing Alternative Training Methods. Presented at the National Association of Medical Examiner's Meeting, Baltimore, Maryland, October 2012.
92. Fitzgerald, M, **Fowler, DR**, Zulauf, D: The Importance of Scene Findings in the Investigation of Accidental Deaths Due to Inhalation of Ethyl Chloride. Presented at the National Association of Medical Examiner's Meeting, Baltimore, Maryland, October 2012.
93. Yan, P, Zhou, L, Xu, D, Zhang, X, **Fowler, DR**, Li, L: Natural Causes of Sudden Infant Deaths in Hubei, China. Presented at the National Association of Medical Examiner's Meeting, Baltimore, Maryland, October 2012
94. Fowler DR, The Maryland Forensic Imaging Experience. Presented at the International Society of Forensic Radiology and Imaging. Zurich, May 2012

95. Fowler DR, Daly B CSI: Radiology Conversations between the Radiologist and Forensic Pathologist Presented at RSNA November 2012
96. Shields, J, Ali, Z, Rubio, A, Jufer-Phipps, R, Levine, B, Doyon, S, Ripple, M, **Fowler, DR**: Death due to excited delirium associated with synthetic marijuana use: A review of two recent cases. . Presented at the American Academy of Forensic Sciences Meeting, Washington, DC February 2013.
97. Yang, T, Zhang, X, Ripple, M, **Fowler, DR**, Li, L: Using Interpolation to Estimating Postmortem Interval on the Condition of Various Ambient Temperature. Presented at the American Academy of Forensic Sciences Meeting, Washington, DC February 2013.
98. Fowler DR Thali M, Oliver W. Workshop on Forensic radiology and Imaging. AAFS Washington DC February 2013.
99. Carney, E, Fowler, DR: Pseudo Searing of the Skin Around Contact Gunshot Wounds, Presented at the America Academy of Forensic Pathology, Washington, DC, February 2013
100. Forensic Radiology: Current and Future Use in Medicolegal Death Investigation. Howard T. Harcke, Jr., MDDavid R. Fowler, MD Edward Mazuchowski II, MD, PhD
101. Examination of the Cervical Spinal Cord in Infants and Toddlers Mehdi Koolae, MDAna Rubio, MD, PhD, OCME, 111 Penn Street, Baltimore, MD 21201; Olga Pletnikova, MD, PhD,; Zabiulah Ali, MD, Joseph J. Chen, MD, Narita J. Shet, MD,; David R. Fowler, MD, Juan Troncoso, MD,
102. Heroin Overdose — Just Another Reason to Lose Those Extra Pounds? Zhuo Wang, MD, Mary G. Ripple, Rebecca Jufer-Phipps, PhD, Barry S. Levine, PhD, David R. Fowler, MD, Russell T. Alexander, MD,
103. Accuracy and Reliability of Craniometric Variables Obtained From 3D-Computed Tomography Images Zabiullah Ali, MD, Kyra E. Stull, MS; Meredith L. Tise, MA, David R. Fowler
104. Idiopathic Arterial Calcification of Infancy: A Case Report With Postmortem Computed Tomography (PMCT) and Histologic Findings Zabiullah Ali, MD, Pamela E. Southall, MD, David R. Fowler, MD.
105. Fentanyl-Laced Heroin: A Maryland Public Health Problem Natasha L. Grandhi, MD Rebecca Jufer Phipps, PhD, Mary G. Ripple, MD, Suzanne Doyon, MD, David R. Fowler, MD
106. Postmortem Distribution of Acetyl Fentanyl Xiang Zhang, MD. Rebecca Jufer Phipps, PhD, Barry S. Levine, PhD, Patricia Aronica, MD, James Locke, Melissa A. Brassell, MD, Wendy S. Warren, DO, Mary G. Ripple, MD, and David R. Fowler, MD

### **Invited Lectures to Professional Organizations**

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| 1997 | Maryland Society of Pathologists, The biomechanics of motor vehicle injuries.                                |
| 1998 | Howard County Circuit Court (Inns of Court), Basic forensic medicine.  |
| 1999 | Maryland Criminal Defense Attorneys Association, Gunshot wounds and basic ballistics.                        |
| 2002 | Georgia Society Of pathologists: Weapons of mass destruction Seminar. Brunswick Georgia Seminar, Co-director |
| 2008 | State of Maryland Public Defenders Office Annual Conference. OCME Policies and Practices.                    |



### **Invited lectures – Federal Training and National Organizations**

- 1999 Alcohol Tobacco and Firearm Agency. The pathology of explosive injuries. Federal Law Enforcement Training Facility, Brunswick, Georgia.
- 2000 Annual National Public Defenders Conference. Causes of death: - Anatomic and physiological considerations. Baltimore.
- 2000 Advanced Course of Forensic Pathology. Advanced ballistics. FBI Academy, Quantico, Virginia (approximately 45 students per class).
- 2001-2010 FBI Academy Lecture, Death Investigation Program, National Academy. Sudden Infant Death and Child Abuse. Quantico, Virginia (approximately 40 students per class).
- 2002 International Law Enforcement Agency (ILEA) Medical Examiner System, Sharp and Blunt Force injuries and Gunshot Wounds. Budapest Hungary.
- 2005-2012 New Jersey State Police Advanced Homicide Seminar.
- 2008-2012 AFIP Basic Course in Forensic Pathology Mass Fatality Preparation
- 2010 Interagency Workgroup on Inspection and Accreditation. The White House Science and Technology Committee. Overview of medical examiner systems in the US and the role of accreditation
- 2018 OCDETF Regional meeting panel on Opioids
- 2018 OCDETF South Carolina Prosecuting Opioid deaths

### **Invited Lectures – Academic and Medical Institutions**

- 1996 Medical College of Georgia, Department of Pathology. Gunshot wounds and basic ballistics.
- 1998 Department of Pediatric Trauma Johns Hopkins Hospital. Gunshot wounds and basic ballistics.
- 1999 Department of Pediatric Trauma Johns Hopkins Hospital. The biomechanics of motor vehicle collisions and pediatric cervical spinal cord trauma in motor vehicle collisions.
- 2000 Easton Memorial Hospital. Shore Health Systems. The role of the Medical Examiner in Death Investigation and Health certification. Attended by Shore Health Systems medical staff, Talbot County Medical Officer of Health, paramedical staff, E.M.T.s, police, Forensic Investigators, Funeral Directors and teleconferenced to other Shore Health System facilities.

- 2001-2010 The Johns Hopkins Bloomberg School of Public Health Injury Prevention Center, Summer Institute. The Biomechanics of Injury
- 2001-2010 The Johns Hopkins Bloomberg School of Public Health Injury Prevention Center, Summer Institute. Overview of the Medical Examiner System.
- 2002 Frederick Memorial Hospital Grand Rounds. The role of the Medical Examiner in death investigation and death certification.
- 2002 The Johns Hopkins Hospital Emergency Medicine Department Grand Rounds: An Overview of Forensic Pathology and Wound Patterns.
- 2002 The University of Maryland Department of pathology. Death Certification, Practical issues and pitfalls.
- 2005 Seminar Series on Forensic Pathology, Tongji Medical School, Wuhan, People's Republic of China
- 2005 2006 DHMH Annual Fetal and Maternal Health Conference. Pediatric Death Investigation
- 2008 Seminar Series on Forensic Pathology, Fudan University, Shanghai People's Republic of China
- 2010 Johns Hopkins School of Public Health. Topics in Public Health Series. The Medical Examiner and the Public's Health.
- 2012 Overview of death investigation in Maryland. People's Republic of China
- 2015 The Multifactorial Role of the Medical Examiner in Protecting the Public's Health and Safety. USC

### **Invited Lectures – State and Local Agencies and Organizations**

- 1999 Maryland Public Defenders Office Montgomery County. Gunshot wounds and basic ballistics.
- 1999 Anne Arundel County Police Department. An overview of basic forensic pathology and the Medical Examiner.
- 1999 Public Health Focus Group, Public Health Section. The OCME mass fatality incident plan.
- 1999 Public Health Focus Group, Hospitals and EMS section. The OCME mass fatality incident plan.

- 1999 Maryland Emergency Management Agency (MEMA), Annual Conference. Emergency Management for the 21<sup>st</sup> Century. Mass fatality preparation at the OCME. Dunes Manor Hotel, Ocean City.
- 2000 Baltimore City Police Department Lecture Series. Forensic pathology and death investigation.
- 2000 State Police Academy. Forensic Pathology and Death Investigation. Pikesville State Police Barracks.
- 2001 St Mary's County States Attorney office. Training seminar on death investigation and major Assaults. The role of the Medical Examiner in the team approach to death investigation. Charlotte Hall Maryland.
- 2001 Maryland Emergency Management Agency and Montgomery County Fire and Rescue Service. Second Annual Decontamination/WMD Symposium. University of Maryland Shady Grove Center. Mass fatality planning and decontamination.
- 2002 Health Officers Round table: The OCME and Mass Fatality Planning. Practical Issues for Health Officers.
- 2002 Howard County Community College, Basic Criminal Investigation seminar. Time of death, Sharp and Blunt force and Gunshot wounds. Columbia Maryland.
- 2010 Health Officer Round Table OCME Pandemic Flu Preparation and Response.

### **Other Invited Lectures**

- 1995 Westminster High School. The Role of Forensic Pathologists in Death Investigation. Forensic Pathology as a career.
- 1999 Maryland Funeral Directors Association. Annual Meeting. Part 1: The Medical Examiner and the Team Approach to Death Investigation. Part 11: Chemical weapon Fatality Management and The Funeral Director, Maryland's Approach.
- 1998-2000 Leadership Associates. An overview of basic forensic pathology and the Medical Examiner.
- 2001-2016 Maryland Funeral Directors Association, Annual Conference. OCME Update. Dunes Manor Hotel Ocean City.

### **Conferences: Invited as Expert Participant**

- 1995 8<sup>th</sup> Maryland DWI and Vehicular Homicide Conference. The Maritime Institute Conference Center, Linthicum Heights, Maryland. April 18-21, 1995

- 1999 The 1999 Environmental Safety Seminar. Omni Hotel Baltimore. November 18, 1999
- 1999 Response to a Biological Weapon of Mass Destruction Incident. Baltimore City Health Department. Harbor Hospital Conference Center. June 29, 1999
- 1999 "Who Ya Gonna Call" Bioterrorism Conference. Harbor Hospital Conference Center. December 6, 1999.
- 2000 2<sup>nd</sup> Annual Public Information Officer Anti-Terrorism Symposium. Maryland Emergency Management Agency. November 2, 2000.
- 2001 Baltimore Region Multi-Agency Traffic Incident Management Conference. Baltimore Regional Transportation Board, Federal Highway Administration. Level Volunteer Fire Department, Havre De Grace, Maryland, September 17, 2001
- 2001 The modular Emergency Medical System Concept development Conference 2001. US Army Soldier and Biological Chemical Command (SBCCOM) and Biological Weapons Improved Response Program (BWIRP) Chemical Demilitarization Facility, Aberdeen Proving Grounds. Maryland, January 30-31, 2001
- 2011-2104 Annual suicide prevention Conference. Overview of the Medical Examiner

**Invited Workshop**

- 2001, 2002 The Governor's 8<sup>th</sup> Annual Conference on Child Abuse and Neglect. The role of the Medical Examiner's Office in child fatality reviews. Baltimore Convention Center.