

Forensic Pathology for the Death, Homicide & Criminal Investigator: Terminology

CAUSE OF DEATH: The event or disease process initiating the chain of events culminating in the death of an individual

MECHANISM OF DEATH: The pathophysiologic process occurring in the body as the person dies

MANNER OF DEATH: The circumstances surrounding the initiating event that results in the death.

ESTIMATION OF POSTMORTEM INTERVAL: Rigor mortis, livor mortis, vitreous potassium concentration, decomposition

PATTERN INJURY: An injury in which the shape and size conform to a portion of the impacting object, a contour of the body, or a combination thereof.

BLUNT FORCE INJURIES: Abrasion, laceration, contusion, fracture

SHARP FORCE INJURY: Incision, stab wound

GUNSHOT WOUNDS: Estimation of range of fire, path of projectile, weapon characteristics, immediate incapacitation

ASPHYXIA: Suffocation, strangulation, ligature hanging, chemical asphyxiants

PEDIATRIC DEATHS: SIDS/SUID/SUDI deaths, inflicted versus accidental injury and death

DRUG RELATED DEATHS: Prescription drug deaths, stimulant deaths

INJURY AND DEATH IN CUSTODY: Sock rounds, pepper balls, restraints, TASERS, excited delirium

Public Agency Training Council

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National Criminal Justice
Public Safety Continuing Education

Sponsored By:

Yakima Police Department

Yakima, Washington

Training Seminar Forensic Pathology for the Death, Homicide and Criminal Investigator

**Instructor:
Tracey S. Corey, M.D.**

Dr. Tracey Corey is the Chief Medical Examiner for the State of Kentucky. Dr. Corey is a Clinical Professor of Pathology and the Division Director of Forensic Pathology at the University of Louisville School of Medicine. Dr. Corey is a Consultant to the FBI, National Center for the Analysis of Violent Crimes in the areas of Forensic Pathology & Pediatric Forensic Pathology since 1998. Dr. Corey is a member of College of American Pathologist, International Association of Bloodstain Pattern Analysts, American Academy of Forensic Sciences, and National Association of Medical Examiners. Dr. Corey lectures throughout the United States, including the FBI Academy, Quantico, Virginia and has many articles published in Peer-Reviewed Journals and Books. She has appeared as an expert in forensic pathology on national news shows including CBS 48 Hours and Good Morning America. She has been featured on Dateline NBC and the MSNBC series, "Dead Men Talking."

July 25 & 26, 2016
Yakima, Washington

Register online at: www.patc.com



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Forensic Pathology for the Death, Homicide & Criminal Investigator

Course Objectives:

Effective investigation of events involving injury or death requires recognition of patterns of physical findings on the body and at the scene. Such recognition is necessary to properly interpret the significance of the finding, and integrate this information into the case as a whole. Early recognition of certain patterns of injury on the human body allows the criminal investigator to properly assess the scene and begin proper procedure for collection of relevant evidence.

This course consists of the visual presentation of hundreds of cases of injury and death, including homicides, suicides, accidents, and deaths from natural disease. Many cases of nonfatal injury are also presented, including accidental and inflicted injury in children and adults. Important investigative aspects and patterns of injury of sexual assault cases are discussed. Characteristics of self-inflicted injuries are contrasted with injuries from assaults by other persons.

The course begins with an introduction to forensic pathology. Medical terminology frequently used by forensic pathologists is illustrated and defined through visual example and case presentation. It is important that investigators have a good understanding of such terminology, to understand the importance of various physical findings to their cases.

Cause, mechanism, and manner of death are discussed and defined. Each is discussed in depth, through case example. Estimation of postmortem interval and time of death are discussed. Patterns of decomposition are illustrated. The reasons that these changes occur are explained. Integration of physical findings on the human body with scene findings and historical information is stressed. These scene findings include bloodstain patterns and other important but often overlooked pieces of evidence. Proper recognition and collection of such trace evidence is emphasized.

The investigator is shown common patterns and causes of sudden natural death. Common risk factors, scene findings, and histories seen in sudden natural death are illustrated. Various causes at different age ranges are presented.

Categories of injury are then explored through example. Blunt force injuries and sharp force injuries are illustrated, and their production is explained. Scene findings including blood patterns in these cases are illustrated. Blunt force injuries are compared and contrasted with sharp force patterns. The investigator will learn to recognize patterns produced by various types of instruments, and the common ways such patterns are produced.

Injuries from firearms are discussed. The investigator is taught how to differentiate entrance wounds from exit wounds. The investigator is taught to recognize physical findings to allow estimation of range of fire in handgun wounds and shotgun wounds. Patterns arising from distinctive types of ammunition and weapons are shown.

Other types of injury and death to be illustrated and explained include: asphyxia, drug-related deaths, fire-related deaths, electrocution, drowning, and motor vehicle collisions.

Patterns, diseases, and investigative approaches unique to the investigation of injury and death in children are given special consideration and discussion. The unique investigative approach required for pediatric cases is emphasized.

At the conclusion of the course, the investigator will possess a good visual library of common pattern injuries that will facilitate recognition of these patterns and their significance early in the investigative process. The investigator will recognize subtle trace evidence, and know proper collection and preservation thereof. The investigator will be able to maximize investigative effectiveness by recognizing the significance of physical findings on bodies and at scenes. The investigator will be able to integrate this knowledge base into the facts of a specific case to draw sound and defensible forensic conclusions. We see what we look for, and we look for what we know.

Seminar Agenda Forensic Pathology for the Death, Homicide & Criminal Investigator

July 25 & 26, 2016 • Yakima, Washington

Monday, July 25, 2016

- 8:00 a.m.—8:20 a.m. **Registration**
- 8:20 a.m.—9:30 a.m. Cause, Mechanism and Manner Of Death
- 9:30 a.m.—10:30 a.m. Sudden Natural Death, Drug Related Deaths, and Drowning
- 10:30 a.m.—11:30 a.m. Estimation Of Postmortem Interval and Patterns of Decomposition
- 11:30 a.m.—12:30 p.m. **Lunch (On Your Own)**
- 12:30 p.m.—2:00 p.m. Pattern Injuries - Blunt Force Injury and Explosions
- 2:00 p.m.—3:30 p.m. Pattern Injuries - Sharp Force Injury and Chopping Injury, Blood Stain Patterns
- 3:00 p.m.—4:30 p.m. In-Custody Injury and Death, Integration Of Scene and Autopsy Findings-Case Examples

Tuesday, July 26, 2016

- 8:00 a.m.—9:00 a.m. Fire Deaths and Electrocutions
- 9:00 a.m.—10:30 a.m. Asphyxia and Sexually Motivated Homicides, Trace Evidence Collection
- 10:30 a.m.—12:00 p.m. Gunshot Wounds and Shotgun Wounds, Including Immediate Incapacitation
- 12:00 p.m.—1:00 p.m. **Lunch (On Your Own)**
- 1:00 p.m.—2:00 p.m. Mass Fatality Investigation
- 2:00 p.m.—3:00 p.m. Pediatric Death Investigation— SIDS/ SUID /SUDI Deaths, and Suffocations
- 3:00 p.m.—4:30 p.m. Pediatric Death Investigation - Accidental vs. Inflicted Injury Including Head, Skeletal, and Abdominal Injuries
- 4:30 p.m. Certificate Presentation

Cut Along Dotted Line

3 Ways to Register for a Seminar!

1. **Register Online** at www.patc.com — Yellow link upper left corner
2. **Fax Form** to Public Agency Training Council **FAX: 1-317-821-5096**
3. **Mail Form** to

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Checks, Claim Forms, Purchase Orders should be made payable to:

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If you have any questions please call
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Seminar Title:	Forensic Pathology for Investigators	Seminar ID #14218
Instructor:	Tracey Corey	
Seminar Location:	Yakima Police Department Special OPS Training Room 207 South 3rd Street Yakima, Washington 98901	
When:	July 25 & 26, 2016	
Registration Time:	8:00 A.M. (July 25, 2016)	Note: Identify with PATC to receive discounted room rates.
Hotel Reservations:	Ledgestone Hotel 107 North Fair Avenue Yakima, Washington 98901 1-509-453-3151 \$89.00 Single or \$109.00 Double (plus tax)	
Registration Fee:	\$295.00 Includes Forensic Pathology Class Manual, Coffee Breaks, and Certificate of Completion.	

Names of Attendees

1. _____
2. _____
3. _____
4. _____

Agency _____

Invoice To Attn: _____
(Must Be Completed)

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