Pathology & Autopsy

HASPI Medical Anatomy & Physiology 02b Video & Internet Activity

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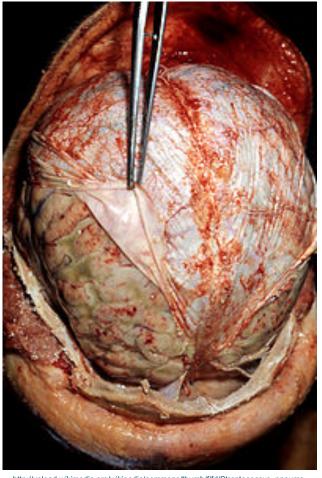
Pathology

Pathology is the study of disease. This is a very broad field with many specializations that examine cells, tissues, organs, fluids, and organ systems to diagnose the cause of disease. Clinical pathology tends to focus on what is occurring at the cellular and tissue levels, while anatomical pathology focuses on the entire organ or organ system. A pathologist is a board-certified physician and may work in a clinical setting or in a morgue performing autopsies.

The field of pathology that focuses on investigating cause of death is called forensic pathology. A forensic pathologist may be better known as a coroner or medical examiner, and must be well informed in both medicine and law. A forensic pathologist is responsible for:

- Determining the mechanism of death what did the person physiologically die from?
- Determining the manner of death what event caused the death?
- Trace evidence collect any evidence or details that may help in an investigation
- Identifying wounds and injuries document all wounds and identifying features
- Taking and examining tissue and fluid samples
- · Serving as an expert witness in court





http://upload.wikimedia.org/wikipedia/commons/thumb/fl/fd/Streptococcus_pneumoniae_meningitis, gross_pathology_33_lores.jpg/200px-Streptococcus_pneumoniae_meningitis, gross_pathology_33_lores.jpg

Autopsy

The examination of a corpse by a pathologist to determine cause of death is called an autopsy. An autopsy is an organized surgical procedure that involves a thorough exam of the body organs, injuries, and fluids. An autopsy may be performed for medical or legal reasons. A medical autopsy may be performed when the cause of death is sudden or unknown. A legal autopsy may be performed when the cause of death is suspicious. The following video activity will detail the usefulness of autopsy in the legal field.

Rothenberg, K. 2008. The Autopsy Through History. In Ayn Embar-seddon, Allan D. Pass (eds.). Forensic Science.

Monet, Gaby (Producer), & Ginsburg, Arthur (Director). 2005. *The Autopsy Files* [Motion picture]. United States: Home Box Office Inc., HBO Video.

Part A. Autopsy: Confessions of a Medical Examiner (60 min) Watch the video and answer the following questions.

Question **Answer**

Where and when was the office of the	
first forensic pathologist founded?	
Joan Bent Case	
Why did the police suspect that Joan	
Bent's husband may have been her	
murderer?	
What important information did the	
intact potatoes found in Joan Bent's stomach provide?	
Storilacii provide!	
Why did the body being found in cold	
weather help this investigation?	
Jane Doe Case	
What was interesting about the stomach	
contents? How did it help them identify	
the victim?	
The Shark Case	
How was the victim's arm able to lead to finding the victim's identity and the	
murderers?	
That defers :	
Maybeth Tinning Case	
How many children did the Tinning	
family lose? What were the causes of	
death?	
Why did Dr. Baden believe the children	
did not die of genetic disease?	
What does the blue baby indicate?	
What was the outcome of this case?	
Why did she murder her children?	

The Case of a Probable Suicide		
How many stories did the man fall?		
What did police believe happened?		
How was the medical examiner able to		
determine that it was not suicide?		
The Death of Billy Martin		
How did the medical examiner prove		
who was driving the car?		
and the same		
Donna Payant Case		
Where was her body found?		
How was Dr. Baden able to connect		
Donna Payant's murder to Marylee		
Wilson's murder? Who was the		
murderer?		
Attica Prison Case		
How did the prison officials say the hostages were killed?		
nostages were killeu!		
How were the hostages actually		
murdered?		
Latoya Thomas Case		
How did Muriel Thomas die?		
What made notice arrest Lateur		
What made police arrest Latoya Thomas for the murder?		
Thomas for the murder?		
How did the medical examiner		
determine that Latoya Thomas was not		
the murderer?		

Part B. Autopsy 2: Voices from the Dead (60 min) Watch the video and answer the following questions.

Question	Answer

The Unidentified Torso	
What did fishermen find in the	
Mississippi River?	
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Mile of mont of the deaders and the Course	
What part of the body was the torso?	
How did they know the torso had borne	
a child?	
How was the body dismembered?	
Tiow was the body district insered:	
Miles and the second of the force of	
Why was this portion of the torso so	
difficult to identify?	
How did Dr. Snow "deflesh" the torso?	
Why did he do this?	
Triny and the de time !	
How was the age and height of the	
victim determined?	
Who did the torso belong to and who	
murdered her?	
Maggots in Evidence	
How was the body found?	
What was found by the toxical gist	
What was found by the toxicologist	
when the maggots were blended and	
tested?	
How did the victim die?	
The Good Doctor	
How did Mark Cavaness die?	
Tion and many dayantoo die:	
11. 11.10	
How did Sean Cavaness die?	
How did the medical examiner's	
findings determine that Sean Cavaness	
had not shot himself?	
Who murdered the Cavaness brothers?	
Why?	
00	

The Jellyfish Case		
What did the finders of the bones originally believe the bones were from?		
What was used to cut through the bones of the body?		
What did the "jellyfish" end up being? How were they used to identify the victim?		
The Angel of Death		
Why were 10 bodies in Cincinnati ordered to be resumed?		
What did the medical examiner find in John Powell's autopsy?		
How does cyanide affect the body?		
Why was Donald Harvey suspected? How many patients did Harvey confess to killing?		
The Ron Settles Case		
What did the original medical examiner of Ron Settles report as cause of death?		
What did Dr. Baden's second medical examination determine?		
A Mother's Instinct		
What was the original cause of death of Dennis Jurgens?		
What was found from the second medical examination?		
Why was the damage to the bowel that caused death caused by severe trauma?		
The Fun House Dummy		
What was the body covered with? How were scientists able to determine the identity of the body?		

Part C. Autopsy Analysis

Now is your chance to perform a virtual autopsy and determine the cause of death. Go to the following website:

http://www.le.ac.uk/pathology/teach/va/titlpag1.html

You will have the opportunity to review a virtual autopsy case. Choose from cases 1-8 on the left hand side. Make note of any important information that would lead to a diagnosis below.

