

OFFICE OF THE MEDICAL EXAMINER
DISTRICT I, FLORIDA
AUTOPSY PROTOCOL
MLA01-501

KLAUSUTIS, LORI KAYE

28/W/F

DOB: 08/02/72

DOD: 07/20/01 (FOUND)

INVESTIGATING AGENCY: FORT WALTON BEACH POLICE DEPARTMENT

INVESTIGATING OFFICER: DETECTIVE DAN SEQUEIRA

COMPLAINT NUMBER: 01-18498

COMMENT: In my opinion, Lori Kaye Klausutis died as a result of an acute subdural hematoma which occurred as a result of closed head trauma sustained in a simple fall. The etiology of the unprotected fall appears to be as a result of a cardiac arrhythmia from floppy mitral valve disease. The fall appears unprotected for two related reasons. First, there was no attempt of the person to guard against the fall. For example, sticking the hands or arms outward to brace or guard the head and body against impact with the floor or other objects (in this case, the desk). No injuries of any sort were identified on the hands or arms of Lori Klausutis. Secondly is the significant amount of force that the fall generated, causing the substantial internal head injuries. A conscious person capable of guarding a fall would normally not have hit the side of the desk with such a large amount of force as a near unconscious person free falling with no guarding reflexes. This finding emphasizes that there were no guarding reflexes in place.

There is no doubt that the head injury is as a result of a fall rather than a blow being delivered to the head by a moving object. Lori has a classic "contrecoup" injury or bruise to the brain, meaning that her brain was bruised on the opposite side from where the external force was applied. The left side of Lori's brain was bruised while the external abraded contusion (scratch and bruise) was in the right temple region. The contrecoup contusion results when a freely moving, mobile head strikes an unyielding, firm, fixed object in a fall as in the floor, or, in this case, the desk. This finding is in marked distinction from the "coup" contusion or that injury which results from a moving object (example - a ball bat) that strikes a stationary head. In the coup injury, there is bruising of the brain on the same side as the external injury. There was no coup contusion in Lori Klausutis.

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COMMENT (CONTINUED) :

patient. An autopsy can, however, identify those known cardiac conditions, grossly and microscopically, that are associated with cardiac arrhythmias that present themselves during life. A thorough forensic autopsy allows exclusion of other entities known to cause sudden death.

In this case, Lori Klausutis did not have a pulmonary embolus or an intraparenchymal brain hemorrhage or ruptured aneurysm. Her drug screen was unremarkable with no drugs in her system to cause her to suddenly become unconscious. These facts leave only a cardiac arrhythmia as the reason to go unconscious and subsequently fall and strike the desk in an unprotected fashion. If Lori's heart was normal, it would be problematic to postulate a plausible reason for a cardiac arrhythmia in such a young person. However, her heart was not normal. The heart contained an abnormality (floppy mitral valve) that is known to result in cardiac ectopy and dangerous cardiac arrhythmias.

Floppy mitral valve reportedly occurs in around 5% of the general population, being found in teenagers, young adults, and the elderly. Survival curves of populations with floppy mitral valve are indistinguishable from survival curves of the general population. Therefore, the incidence of sudden death in this disorder is low. However, the population with the condition is extremely large. Accordingly, deaths due to the floppy mitral valve are not rare in a busy medical examiners practice.

In summary, Lori Klausutis died as a result of the injury sustained when she struck the desk in an unprotected fashion. However, the etiology of the fall was most likely as a result of a sudden cardiac arrhythmia from her undiagnosed floppy mitral valve disease. In that all other reasonable causes of sudden death and injuries to cause fatalities have been excluded by autopsy and toxicologic studies, this leaves only the logical

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COMMENT (CONTINUED):

conclusion that the floppy mitral valve is the only viable remaining etiology that would have caused Lori Klausutis to, in essence, drop in mid stride. The manner of death is thus ruled as accidental. The above findings are rendered within a reasonable degree of medical certainty.

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DATE AND TIME OF EXAMINATION: Under the provisions of Chapter 406, Section 11 of the Florida State Statutes, an autopsy is performed at the Okaloosa Medical Examiner's Office on Friday, July 20, 2001, beginning at 1430 hours. In attendance were Janet Huter of the Medical Examiner's Office, Kenneth (Dusty) Rhodes and Detective Dan Sequeira of the Fort Walton Beach Police Department.

PRESENTATION OF THE BODY: The body was first viewed fully clothed, wrapped in a clean white sheet. A detailed description of the clothing and personal effects will be itemized below.

CLOTHING AND PERSONAL EFFECTS: The deceased is clad in an olive green pullover shirt with underlying white brassiere. The deceased is wearing a pair of tan khaki slacks with an underlying white thong. The deceased is also wearing a pair of tan socks and brown "Aigner" loafers. Located within each earlobe is a studded gold seashell. Located around the neck is a gold-colored metallic chain with a single gold colored boxcar with the inscription "Lori". Located on the left wrist is a gold-colored Seiko watch with a brown leather band. The time is correct. Located on the left fourth ring finger is a gold-colored wedding set comprised of a single gold-colored metallic band and a gold-colored ring containing a single clear stone. Also accompanying the body was a black purse and satchel. Identified in the purse are miscellaneous personal items, papers, credit cards, checkbook, gold-colored earrings and car keys. There is \$19.69 in cash and change within the purse. Located within the briefcase are miscellaneous papers and a date book. No other clothing or personal effects accompanied the body.

EXTERNAL EXAMINATION: The body is that of a normally developed, normally nourished, young adult white female appearing the listed age of 28 years. The body measures approximately 67 inches and

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EVIDENCE OF INJURY: The injuries consist of those associated with a blunt force closed head injury to the right fronto-temporoparietal region with underlying deep scalp hemorrhage, diastatic skull fracture, acute left subdural hematoma formation, and left temporoparietal contrecoup contusion formation of the brain.

Located within the right upper lateral forehead region, just within the hairline, is a superficial 1 ½ x 1 inch abrasion with light purple discoloration. Subsequent reflection of the scalp reveals modest amounts of recent bright red hemorrhage within the top of the right temporalis musculature. Reflection of the musculature off of the underlying cranium reveals the start of a fracture line which immediately enters the coronal suture, crossing the midline after 4 ½ inches of length and extending posteriorly within the anterior portion of the left parietal bone for a length of 2 ¾ inches. The diastatic fracture shows mild suture separation and the non-diastatic portions of the fracture are linear hairline fractures and are nondisplaced. Located within the scalp overlying the diastatic fracture is a 6 x 4 inch band of deep scalp hemorrhage which is centered immediately over the underlying diastatic fracture. Located within the posterior occipital region is a small deep scalp hemorrhage with no underlying fracture. Within the cranial vault there is no evidence of epidural blood accumulation. There is an acute subdural hematoma with a volume of approximately 75 to 80 cc located overlying the left cerebral cortex. The blood clot is non-organized with no adherence to the underlying brain or overlying dura. There are moderate amounts of associated subarachnoid hemorrhage present within the left temporoparietal cortical region. There is a large contrecoup contusion associated with this subarachnoid hemorrhage within the left temporoparietal region. The brain is removed in the usual manner and weighs 1290 grams. There is a mild left to right shift identified upon brain removal. The dura mater is thin,

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EVIDENCE OF INJURY (CONTINUED):

tough and pliable. The leptomeninges are smooth and glistening in areas distant from the subarachnoid hemorrhage and cortical contusions. The cerebrospinal fluid is serosanguinous. The gyri and sulci demonstrate their usual orientation and configuration throughout the asymmetric cerebral hemispheres. The brainstem and cerebellum are remarkable for mild cerebellar coning. There is bilateral uncal herniation present with more prominence identified on the left side. The vessels at the base of the brain, including the Circle of Willis, are normally positioned and no anomalies are identified. No aneurysms are present. The vessels contain no appreciable amounts of atherosclerotic plaque formation. The brain is retained for optimal fixation and subsequent examination. The dura is stripped from the cranial vault and there is a small ½ inch circular area of comminuted eggshell fractures to the center of the right anterior cranial fossa. No other basilar fractures are identified. The pituitary fossa is unremarkable. The foramen magnum demonstrates the normal orientation and the first portion of the spinal cord, at the level of transection viewed through the foramen magnum, is unremarkable. Following fixation, subsequent serial sectioning of the brain reveals no evidence of infection, neoplasm or remote trauma. The usual anatomic landmarks of the cerebrum, midbrain, cerebellum, pons, and medulla demonstrate no abnormalities other than the contrecoup cortical contusions which are primarily confined to the gray matter of the left temporoparietal cerebral cortex. No other abnormalities are identified.

INTERNAL EXAMINATION

HEAD: Previously described under "Evidence of Injury".

NECK: The neck muscles appear unremarkable and are without evidence of trauma. A layered dissection of the neck reveals no evidence of hemorrhage within either the superficial or deep

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NECK (CONTINUED):

musculature. The hyoid bone and the thyroid and cricoid cartilages are calcifying and intact without evidence of injury. The usual anatomic relationships are preserved. The cervical spine is intact and free of fractures. There is no evidence of infection or neoplasm. The tongue is removed and is free of bite marks or evidence of injury.

BODY CAVITIES: The body cavities are opened in the usual manner. The internal viscera have their normal positions and anatomic relationships. The left and right pleural cavities are moist and contain no significant fluid accumulations. The pleural surfaces are smooth and glistening and free of fibrous adhesions. The pericardial cavity is moist and has no significant fluid accumulation. No pericardial adhesions are identified. The leaves of the diaphragm are intact and without evidence of injury. The peritoneal cavity is moist with no significant fluid accumulation. The peritoneal surfaces are smooth and glistening and are free of fibrous adhesion formation. No evidence of infection or neoplasm is present.

CARDIOVASCULAR SYSTEM: The heart is normal in size and weighs 265 grams. The epicardial surface is glistening and free of petechial hemorrhages. The chambers demonstrate their usual size, shape, and configuration with no gross dilatation. The coronary arteries have a right-sided dominance and serial sectioning reveals widely patent coronary arteries with no significant atherosclerotic plaque formation. No hemorrhagic plaques or thrombi are identified. Cut sections of the ventricular myocardium reveal a beefy red homogeneous parenchyma with no thickening or scarring being identified. The cardiac valves are primarily thin and delicate and are free of vegetations or thickening of the chordae tendineae with the exception of the mitral valve. The mitral valve is remarkable for prominent parachuting hooding of both valve leaflets. There

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CARDIOVASCULAR SYSTEM (CONTINUED) :

is multifocal thickening of both leaflets with white-tan plaques identified within multiple regions of the valves. There is thickening of the valve cusps. No vegetations are identified on the valve cusp. The atria are of normal size and the endocardial surfaces are free of mural thrombi. The aorta follows its usual course and the origins of the major vessels are normally placed and unremarkable. The aorta contains an occasional yellow atheromatous streak. There is no evidence of aneurysm formation.

RESPIRATORY SYSTEM: The larynx and trachea show no abnormalities other than containing marked amounts of white froth which extend from the distal airways up out of the oropharynx. The right lung weighs 780 grams. The left lung weighs 670 grams. The lungs have their normal lobations. The cut surfaces of the lungs reveal a markedly congested red parenchyma with some accentuation within the posterior basilar segments. Serosanguinous fluid is easily exuded from the cut surface. There are no consolidations or nodules identified. No evidence of infection or neoplasm is present. The proximal pulmonary arteries are opened and are free of thromboemboli.

HEPATOBIILIARY SYSTEM: The liver weighs 1430 grams and has a smooth, intact, pink, glistening capsule. There are normal lobations with no areas of nodularity. Cut sections reveal a homogeneous red-brown parenchyma with normal anatomic landmarks. Blood does not ooze from the cut section. No infection or neoplasm is identified. The gallbladder is non-distended and contains approximately 15 cc of watery green bile. No gallstones are identified. The biliary tree is normally developed and otherwise unremarkable.

LYMPHORETICULAR SYSTEM: The spleen weighs 130 grams and has a wrinkled, intact, red-purple, non-taut capsule. Cut section reveals the usual anatomic landmarks with an unremarkable

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LYMPHORETICULAR SYSTEM (CONTINUED):

parenchyma. There is no evidence of infection or neoplasm. The thymus is involuting and is being replaced by fat. Numerous lymph nodes are identified in the chest and abdominal cavities and appear unremarkable.

GASTROINTESTINAL SYSTEM: The esophagus is unremarkable with no abnormalities identified. No erosions are identified. The posterior oropharynx contains the white froth previously identified within the respiratory system. The stomach lies in a normal position and contains approximately 300 cc of fruity salad material. No pills or pill fragments are identified. The mucosal lining appears intact and is continuous into a normal duodenum and small bowel. The proximal small bowel appears unremarkable. The appendix is present in a retrocecal position. The large bowel is unremarkable.

GENITOURINARY SYSTEM: The right kidney weighs 120 grams and the left kidney weighs 125 grams. The capsules strip with ease to reveal a smooth red cortical surface. Bivalving of the kidneys reveals a sharp corticomedullary architecture. The pelvocalyceal system appears unremarkable and is continuous into normal appearing ureters. There is no evidence of infection or neoplasm. The ureters course normally into the urinary bladder and are free of obstruction. The urinary bladder contains approximately 30 cc of yellow urine. The bladder mucosa is white-tan and appears unremarkable. The uterus with attached fallopian tubes and ovaries is present and is normal in size. Serial sectioning of the endomyometrium at 0.5 cm intervals reveal an unremarkable tan-white endometrial lining with no evidence of intra-uterine pregnancy. No myometrial nodularity is identified. The ovaries appear normal with no abnormalities. The fallopian tubes appear unremarkable. No further prosection is performed.

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ENDOCRINE SYSTEM: The thyroid gland, adrenal glands, and pancreas show the usual anatomic features without evidence of natural disease or injury.

MUSCULOSKELETAL SYSTEM: The hairline skull fracture has previously been identified. No other fractures are present. The skeletal muscle demonstrates the normal beefy red appearance. The bone marrow where visualized is firm, dark red and otherwise unremarkable.

PROCEDURES:

1. Identification photograph taken.
2. Injury photographs taken.
3. Small tissue specimens are retained in 10% formalin.
4. Peripheral blood, urine, vitreous, and bile are retained for toxicologic analysis.
5. Oral, vaginal, and anal swabs are taken by myself and slides prepared by myself with the evidence being retained.
6. Fingernail clippings, head hair standards and blood are retained.
7. Clothing is retained as evidence by Kenneth Rhodes of the Fort Walton Beach Police Department.
8. Fingerprints are taken and retained as evidence by Kenneth Rhodes of the Fort Walton Beach Police Department.

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TOXICOLOGIC ANALYSIS:

Volatiles (blood and urine): Negative.

Comprehensive Drug Screen (blood): Negative.

Comprehensive Drug Screen (urine): Salicylic acid positive.

University of Florida Diagnostic Referral Laboratories
Department of Pathology, Immunology and Laboratory Medicine
2310 SW 13th Street
Gainesville, FL 32608
352-846-1600

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REF LAB NO: 21278-01-R

NAME: Klausutis, Lori

M.E. CASE NO: 01-501

RECEIPT DATE: 07/24/2001

Forensic Toxicology Laboratory

RECEIVED: Materials from Dr. Michael E. Berkland, District One (Okaloosa), Medical Examiners Office,
206 Staff Drive, Ft. Walton Beach, FL 32548 (850)-651-7771

SPECIMEN(S) SUBMITTED: blood, urine, bile, vitreous humor and stomach contents

RESULT:

Volatiles (blood): negative

Volatiles (urine): negative

Comprehensive Drug Screen (blood): negative

Comprehensive Drug Screen (urine): Salicylic Acid positive

RESULT CERTIFICATION:

Results Certified by:

Bruce A. Goldberger
Bruce A. Goldberger, Ph.D., DABFT
Director of Toxicology & Clinical Associate Professor
BG/BG 8/3/01 [0223][0226]

NA/CC/DWJ

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