

GUSTAV AHR

17-2769

AUTOPSY REPORT

PIMA COUNTY, ARIZONA

TUCSON POLICE DEPARTMENT

CASE # 1711150636

NOVEMBER 16, 2017

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Re: GUSTAV AHR

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SUMMARY OF FINDINGS:

I. Combined toxic effects of fentanyl and alprazolam; See Axis Forensic Toxicology report

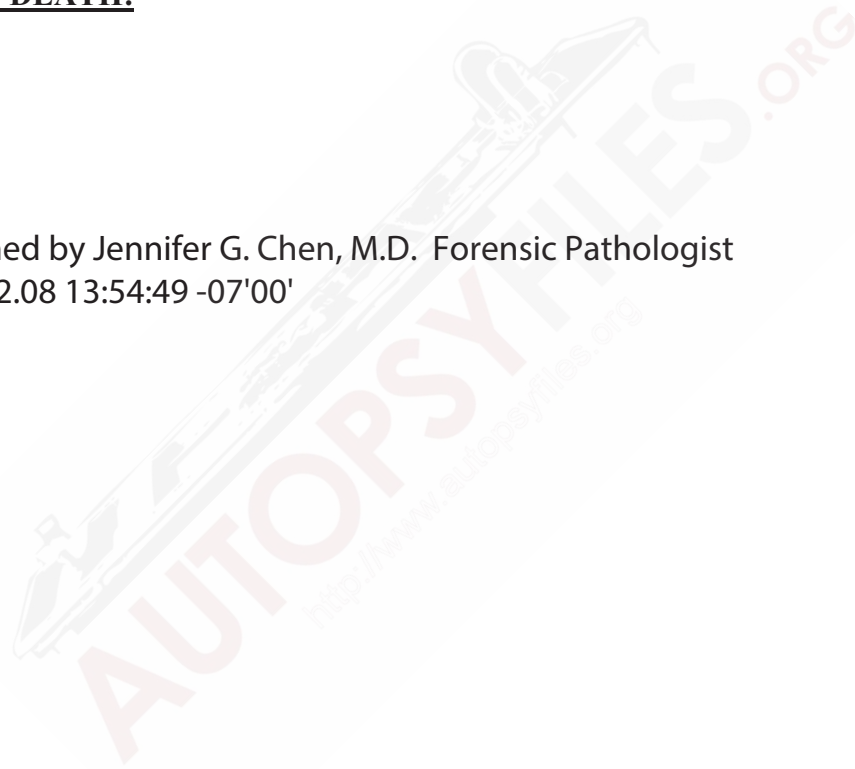
CAUSE OF DEATH:

Combined toxic effects of fentanyl and alprazolam

MANNER OF DEATH:

Accident

Digitally signed by Jennifer G. Chen, M.D. Forensic Pathologist
Date: 2017.12.08 13:54:49 -07'00'



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INTRODUCTORY REMARKS:

An autopsy is performed on the body of Gustav Ahr at the Pima County Office of the Medical Examiner on November 16, 2017, commencing at 0830 hours. Assisting with the examination are Pathology Assistants Kristine Clor and Kayla Hare. Documentary photographs are taken by Forensic Pathologist Jennifer G. Chen, M.D. Specimens are packaged and labeled by Kristine Clor.

PRESENTATION OF THE BODY:

The body is received in the supine position within a white body bag with intact blue Pima seal numbered 08335. The body is clad in a vest worn about the torso. A white metal chain necklace with pendant encircles the neck. Undershorts and multicolored pants are worn about the waist. A multicolored belt is in the loops of the pants at the waistline. A yellow metal bracelet encircles the left wrist. A white metal ring with yellow stones is on the third digit of the left hand. Black socks and tan boots are on the feet. A white metal ring is in the left naris. A white metal ring is in the left lower lip. A yellow metal earring is in the left earlobe.

Clothing and personal effects accompanying the body are detailed in the "Property/Evidence Log" by Pathology Assistant Kristine Clor.

EVIDENCE OF MEDICAL INTERVENTION:

- 1) Defibrillator pads are on the anterior torso.
- 2) An intraosseous catheter is in the right tibia.

EVIDENCE OF ORGAN AND TISSUE PROCUREMENT:

None.

POSTMORTEM CHANGES:

The previously refrigerated body is cool to the touch. Rigor mortis is well developed and difficult to break. Postmortem lividity is distributed posteriorly, except in regions exposed to pressure, and blanches with pressure. The corneas are clear. The lips and mucous membranes of the mouth are moist. The body is well preserved.

EXTERNAL EXAMINATION:

This is the unembalmed body of an adult male with light complexion, appearing consistent with the reported age of 21 years, measuring approximately 73 inches in length and weighing 158

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pounds. The body is normally developed and appears well nourished. Monochromatic and polychromatic tattoos are on the head, neck, torso, upper extremities, and lower extremities.

The head is normocephalic. The head hair is blonde, straight and short, measuring approximately 2 inches. The head hair roots appear brown. Facial hair on the cheeks, chin and upper lip forms a beard and mustache. The face is symmetric. The facial bones and mandible are free of palpable fracture. The irides appear brown. The sclerae are anicteric. The conjunctivae are pink and show slight congestion. Neither ocular nor facial petechiae are identified. The nose is in the midline and the nares are clear. The ears are grossly unremarkable. The oral cavity is grossly unremarkable. The teeth are natural and are in a good state of repair. The trachea is palpable in the midline of the neck and no masses are appreciated. The chest is symmetric. The abdomen is flat and firm to palpation. The surface of the back shows the injuries described below.

The extremities are symmetrical and well developed. The appendicular skeleton is stable to palpation. No fractures are evident by visual inspection or manipulation. The hands and feet are normally formed. All the digits are present. The fingernails are long and contain underlying dirt. The fingernails display a patchy red nail polish. There is no pitting edema of the lower extremities.

The external genitalia are those of an adult male. The testes are palpable within the scrotum. The inguinal regions, anorectal area, and buttocks are grossly unremarkable.

EVIDENCE OF ACUTE INJURY:

Head and Neck:

No injuries are identified.

Torso:

A 12 x 9 cm red-brown abrasion is on the right upper back and a 12 x 5 cm red-brown abrasion is on the left upper back.

Extremities:

Red-brown abrasions on the right upper extremity at the elbow cover a 5 x 1.5 cm area. A 1.7 x 0.5 cm red-brown abrasion is on the left upper extremity at the elbow.

INTERNAL EXAMINATION:

Body Cavities:

The body is opened with the usual Y-shaped incision. The sternum and chest plate are intact. The organs of the thorax and abdomen are in their normal anatomic positions. No fluid collections or adhesions are in the pleural or peritoneal cavities.

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Cardiovascular System:

The heart weighs 380 grams and is of normal configuration. The epicardium is normal and there is approximately 5 ml of serous fluid in the pericardial sac. The coronary arteries arise from their usual positions on the proximal aorta, ramify appropriately across their respective ventricles in a right dominant pattern and exhibit no significant atherosclerosis. The atria and ventricles are normally formed and free of septal defects. The myocardium is red-brown throughout. The left (1.3 cm) and right (0.2 cm) ventricles are of normal thickness and show no dilatation. No significant abnormalities are found in the valves. The endocardium is normal. The aorta and its major branches are intact and exhibit no significant atherosclerosis.

Respiratory System:

The right and left lungs weigh 640 and 1000 grams, respectively. The pleural surfaces are smooth and glistening. Both lungs are red-purple and moderately congested, as evidenced by frothy red fluid that exudes from an incised portion of fresh lung. No enlarged air spaces, fibrosis, infiltrates or nodules are in the parenchyma. The major bronchi bifurcate and ramify in the usual fashion and have a tan-pink mucosa with no mucus plugs. The pulmonary arteries show no atherosclerosis and no thromboemboli.

Hepatobiliary System and Pancreas:

The liver weighs 1640 grams and has a smooth, glistening capsule overlying firm brown parenchyma. The cut surfaces show no evidence of cirrhosis. The gallbladder contains a small amount of viscous, green bile. The mucosa is unremarkable. No stones are present. The pancreas appears normal in size and consistency.

Gastrointestinal System:

The esophagus is lined by an unremarkable tan-gray mucosa. The gastric mucosa is normally rugated, and the stomach contains approximately 15 ml of red-brown fluid. No intact pills, pill slurry or food fragments are identified within the stomach. The small bowel, colon, and rectum are grossly unremarkable. The appendix is present.

Genitourinary System:

The right and left kidneys weigh 160 and 180 grams, respectively. The capsules strip with ease from the smooth dark-red cortical surfaces. On section, the cortices are of normal thickness. The medullary pyramids, calyces, pelves and ureters are unremarkable. The renal arteries show no atherosclerosis. The bladder contains approximately 100 ml of clear, yellow urine. The mucosa is unremarkable. The prostate is normal size with a homogenous tan cut surface. The testes are normal in size with an unremarkable tan parenchyma.

Reticuloendothelial System:

The spleen weighs 180 grams and has a smooth, gray intact capsule. The parenchyma is dark red and firm. On section, there is no evidence of infarction or neoplasia. Regional lymph nodes are

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grossly unremarkable. Residual thymic tissue overlying the pericardium is tan, lobulated and unremarkable.

Endocrine System:

The thyroid gland is symmetrical and normal size. The homogenous, red-tan parenchyma is free of nodules, hemorrhage, or cysts. The adrenal glands are of normal size and free of hemorrhage and nodularity. The pituitary gland is grossly unremarkable.

Musculoskeletal System:

The bony framework and supporting musculature are not unusual.

Neck:

Examination of the soft tissues of the neck, including the strap muscles and large vessels, reveals no abnormalities. The larynx and trachea are unobstructed. No airway mucosal edema is appreciated. The hyoid bone and laryngeal cartilages are intact. The anterior cervical spine and atlanto-occipital joint are stable to manipulation.

Head:

Reflection of the scalp reveals no abnormalities. The calvaria is intact. The dura is intact and free of discoloration and thickening. The base of the skull is examined after stripping the dura and is intact. There are no epidural, subdural or subarachnoid hemorrhages. The brain weighs 1600 grams. Moderate brain swelling is seen with flattening of the gyri and narrowing of the sulci. The leptomeninges are thin and transparent. The structures at the base of the brain, including the cranial nerves and blood vessels, are unremarkable. The circle of Willis and major arteries are intact and free of atherosclerosis and aneurysm. Sections through the cerebral hemispheres demonstrate unremarkable cortical gray ribbon and normal subcortical white matter. The basal ganglia, thalami and Ammon's horn are unremarkable. The ventricles show slight narrowing with smooth ependymal surfaces. Sections through the brainstem and cerebellum are unremarkable.

MICROSCOPIC DESCRIPTION:

Representative tissue sections are submitted to Tissue Techniques for histology. Three hematoxylin & eosin stained slides are examined and essentially confirm the gross impression. Sections of myocardium show focal red blood cells in the interstitium. Sections of lungs show congestion with intra-alveolar red blood cells. A section of kidney shows no significant histopathologic abnormalities. A section of liver shows microvesicular steatosis.

Slide Key: 1 – heart; 2 – right lung, kidney; 3 – left lung, liver.

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RADIOGRAPHS:

No radiographs are taken.

TOXICOLOGY:

Peripheral blood, vitreous fluid and urine are submitted to Axis Forensic Toxicology. See Axis Forensic Toxicology report for results.

