



MEDICAL FINDINGS

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Air Safety Investigator
Central Region

- The pilot's most recent application for an FAA medical application was on July 26, 2018.
 - o He reported 676 total hours with 41 hours in the preceding 6 months.
 - o He was issued a 3rd class medical certificate with the limitation "must wear corrective lenses for near and distant vision."
 - o He reported the use of livalo to lower cholesterol and triglyceride levels.
- The autopsy was conducted on May 22, 2020, by Forensic Medical of Texas, Tyler, Texas as authorized by the Justice of the Peace.
 - o The autopsy noted severe blunt force injuries.
 - o Under Cardiovascular System, the medical examiner noted:
 - The 250-gram heart appears normal in size and has smooth, glistening pericardia and epicardial surfaces with a normal amount of epicardial fat.
 - The epicardial coronary arteries are normally distributed and have eccentric atheromatous plaque resulting in the following stenosis: up to 40% of the left anterior descending coronary artery; and up to approximately 20% of the right coronary artery and the left circumflex coronary artery.
 - The coronary arteries are friable due to decomposition.
 - There is no evidence of coronary thrombosis.
 - The myocardium is red-brown and softened due to decomposition, without apparent pallor or fibrosis.
 - The cardiac chambers are mildly dilated due to decomposition.
 - The cardiac chambers and appendages are free of thrombosis.
 - There is no concentric left ventricular hypertrophy.
 - The endocardial surfaces are smooth and without hemorrhage.
 - The valve circumferences are proportionate to cardiac size, and there is no grossly apparent evidence of significant valvular stenosis or incompetence.
 - The aorta and its major branches arise normally and follow their usual distribution and have moderate atherosclerosis with calcification.
 - The vena cava and their major tributaries return to the heart in their usual distribution and are free of thrombi.

- The cause of death was severe blunt force injuries, and the manner of death was ruled an accident.
- Toxicology testing was conducting on samples from the pilot by the FAA Forensic Sciences Laboratory.
 - Samples were marked putrefied.
 - Testing was positive for:
 - Ethanol—35 mg/dL Liver, 95 mg/dL muscle
 - Propanol (N-) – detected in muscle
 - Diphenhydramine – detected in liver, **not** detected in muscle
 - Diphenhydramine is a non-prescription antihistamine for treating seasonal allergies and can cause sedation. It is acceptable for pilots but should not be used within 60 hours of flying and regular use is unacceptable.
 - Ethanol was also detected but in the presence of n-propanol and putrefaction was most likely produced post-mortem.

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