

The missile is found to penetrate the stomach along the greater curvature of the body of the stomach, the penetration measuring 9 cm. It exits from the stomach along the posterior wall, lesser curvature, 2 cm. distal to the cardioesophageal junction. The penetration measures 8 cm. It pursues a course backwards and to the right slightly caudad to the callas axis and there is extensive hemorrhage in this area. The anterior and right antero-lateral aspect of the aorta is torn with the superior mesenteric artery being severed. The right renal artery shows destruction and hemorrhage along the cephalad portion. The right renal vein is torn and the tear involves the inferior vena cava, the dorsal surface. It courses through the upper pole of the right kidney along the anterior surface causing a jagged and irregular laceration covering a distance of 5 x 2 cm. with penetration into the calyces. It becomes peritonized in the hepatorenal pouch and there is a jagged and irregular laceration of the liver covering a distance of 9.5 x 2 x 2 cm. From the liver it penetrates the diaphragm posteriorly on the right side. It then passes adjacent to the lung in the pleural space and the right lung is not penetrated. The eleventh rib to the right of the midline is irregularly fractured and an exit type of wound in this region and in the soft tissue along the posterior axillary line right side there is an incised wound and fragmentation of the rib.

NECK ORGANS: The neck organs are examined. They are not remarkable. The thyroid is intact. No evidence of injury is noted. The thyroid gland is not remarkable grossly.

LUNGS: The trachea and bronchi are not remarkable. The right lung is quite well aerated. The left lung is atelectatic. The peribronchial tissue is not remarkable, however, there is hemorrhage in the posterior mediastinum.

HEART: Examination of the right atrium as well as the right ventricle and a pulmonary artery shows frothing bubbles. The epicardium is markedly congested with petechial hemorrhages, more marked over the left ventricular portion. The heart weighs 330 gm. There are a few subendocardial petechial hemorrhages. Along the anterior right ventricular surface there is a single suture. This is in the epicardial fat. The right ventricle measures 2 to 3 cm., the left 1.2 to 1.3 cm. The valvular circumferences are as follows: aortic valve - 7 cm., mitral valve - 10.5 cm., tricuspid valve - 11.5 cm., and pulmonic valve - 7 cm. The coronary ostia are in the normal location. The coronary arteries are examined in situ, found to be thin, delicate, of normal distribution and free of occlusions. There are left ventricular myocardial hemorrhages.

LIVER: The liver weighs 1260 gm. The penetration of the liver has previously been described.

GALLBLADDER & BILIARY TREE: Not remarkable.

PORTACAVAL SYSTEM: Examination of the portacaval system is made. There is frothing blood in the portacaval system. Extensive hemorrhage is noted to surround this, particularly in the region of the pancreas.

PANCREAS: The pancreas is surrounded by hemorrhage. The parenchyma of the pancreas is not penetrated and the ductal system is not remarkable.

SPLEEN: The spleen weighs 200 gm. The penetration of the spleen has previously been described.

DIAPHRAGMS: The penetrations of the diaphragms have previously been described.