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CLINICAL RECORD

A.M. DATE AND HOUR DIED

A.M. DATE AND HOUR AUTOPSY PROTOCOL

FRAL AUTOPSY HEAD ONLY PROTOCOLY

FROM MICH. DIAGNOSES (Midwing specifical)

CDR 11.1. THORNTON BOSWELL, NC, USA (04 043 322)

Et. = 72½ inches Wr. = 170 pounds Eyes = blue Hair = Reddish brown

PATHOLOGICAL DIAGNOSIDE

CAUSE OF DEATH: Gunchor would, bead.

APPHOVED LICENATURATION (WARD required) AGE SEX PLACE IDENTIFICATION NO. ALTOPSY NO.

MILITARY ORGANIZATION (Warn required) AGE SEX PLACE
PRESIDENT: UNITED STATES 46 Mala Câuca
PRESIDENT: UNITED STATES 46 Mala Required Propriet Name—Last, dreds
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middle; drade; deade; described for modified feedbilly)

MENNEDY, JOHN F.

CR362à

STORY PROTOCOL

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CLINICAL SUMMARY:

According to available information al deceased, President John 7. Kennedy,

and riding in an open car in a motorcade during an official visit to Dallas, Tenar on 22 November 1963. The President was sitting in the right rear seat with Mrs. Kennedy seated on the same seat to his left. Sitting directly in front of the President was Governor John B. Connolly of Texas and directly in front of Mrs. Kennet Mrs. Connolly. The vehicle was moving at a slow rate of speed down in inclination on underpass that leads to a freeway route to the Dallas Trade Mart whenether president was to deliver an address.

Three shots were heard and the President forward bleeding from the head. (Governor Connolly was seriously wounded by same gunfire.) According to newspaper reports ("Washington Post" November 23, 196 tob Jackson, a Dallas "Times Herald"Photographer, said he looked around as he head the shots and saw a rifle barrel disappearing into a window on an upper floor of the carby Texas School Book Depository Building.

Shortly following the wounding of the sen the car was driven to Parkland Hospital in Dallas. In the emergency room of a compital the President was attended by Dr. Malcolm Perry. Telephone communication relative to the perry on November 23, 1963 develops the following information relative to the pervations made by Dr. Perry and procedures performed there prior to death.

Dr. Perry noted the massive wound of cond and a second much smaller wound of the low anterior neck in approximately the aidline. A tracheostomy was performed by extending the latter wound. At this poploody air was noted bubbling from the wound and an injury to the right lateral was been the trached was observed. Incisions were made in the upper anterior cheet wal be the trached was observed. Incisions were made in the upper anterior cheet wal be the trached was observed. Incisions were made in the upper anterior cheet wal be the trached was observed. Incisions were made in the upper anterior cheet wal be the trached was observed. Despite those measures cardial and saline were begun and oxygen was administered. Despite those measures cardial arrest occurred and closed chest cardiac massage failed to re-establish cardiac a tracked was pronounced dead approximately thirty to forty minutes after recards wounds.

The remains were transported via the residential plane to Washington, D.C. and subsequently to the Naval Medical Scho National Naval Medical Center, Bethesda, Maryland for postmortem examination.

ENERAL DESCRIPTION OF BODY:

The body is that of a muscular, wall developed and well nourished adult (

tale measuring 72½ inches and weighing approximately 170 pounds. There is beginning mortis, minimal dependent liver mertis of the dereum, and early algor mertical is reddish brown and abundant, the eyes are blue, the right pupil measuring a diameter, the left 4 mm. There is edema and ecchymosis of the inner canthus to the left cyclid measuring approximately 1.5 cm. in greatest diameter. There is the left cyclid measuring approximately 1.5 cm. in greatest diameter. There is the left cyclid measuring approximately 1.5 cm. in greatest diameter. There is the underlying beach over the right supra-orbital ridge with abnormal mobilish a underlying bone. (The remainder of the scalp will be described with the skull

There is elected blood on the external ears but otherwise the ents, names, and mouth are essentially unremarkable. The teeth are in excellent repair and there is some pallor of the cal mucous membrane.

t posterior . ....ated on the upper : llimator oval chorax just above to supper border of the st there is a 7 x 4 acromion proce wound. This wour measured to be 14 cm. a the tip of the Ti and 14 cm. below tip of the right/masto: :oceas:

nack at aped in the low aproximately the level of the third and fourth trackeds Plays and and long crease verse wound with widely gaping irregular edges. (The depth and character of these wounds wil be further described below.)

Situated on the anterior chest wall in the nipple line are bilateral 2 cm. long recent transverse surgical incisions into the subcutaneous tissue. The one on the left is situated II cm. caphalad to the nipple and the one on the right 3 cm. cephalad to the nipple. There is no hemorrhage or ecchymosis associated with these wounds. A similar clean wound measuring 2 cm. in length is situated on the antero-lateral aspect of the left mid arm. Situated on the antero-lateral aspect of each ankle is a recent 2 cm. transverse incision into the subcuteneous tissue.

There is an old well healed 8 cm. McBurney abdominal incision. Over the lumbar spine in the midline is an old, well healed 15 cm. scar. Siguated on the upper entero-lateral espect of the right thigh is an old, well healed 8 cm. scar.

## MISSILE WOUNDS:

1. There is a large irregular defect of the scalp and skull on the right involving chiefly the parietal bone but extending somewhat into the temporal and occipital regions. In this region there is an actual absence of scalp and bone producing an defect which measures approximately 13 cm. in greatest diameter.

From the irregular margins of the above scalp defect tears extend in stellate fashion into the more or less intact scalp as follows:

- a. From the right inferior temporo-parietal margin anterior to the right ear to a point slightly above the tragus.
- b. From the anterior parietal margin anteriorly on the forehead to approximatel; 4 cm. above the right orbital ridge.
- c. From the left margin of the main defect across the midline entero-laterally for a distance of approximately 8 cm.
  - d. From the same starting point as c. 10 cm. postero-laterally.

Situated in the posterior scalp approximately 2.5 cm. laterally to the right and slightly above the external occipital protuberance is a lacerated wound measuring to most a fine the underlying bone is a corresponding wound through the skull when the bone when viewed from the inner aspect of the skull.

Clearly visible in the above describe large shull defect and exuding from it is lacerated brain tissue which on close inspection proves to represent the major portion of the right cerebral hemispher At this point it is noted that the fulx cerebri is extensively lacerated with direction of the superior saggital sinus.

Upon reflecting the scalp multiple of fracture lines are seen to radiate from both the large defect at the vertex and smaller wound at the occiput. These vary greatly in length and direction, the measuring approximately 19 cm. These result in the production of numerous frag which vary in size from a few millimeters to 10 cm. in greatest diameter.

The complexity of these fractures an fragments thus produced tax satisfactory verbal description and are better apprein photographs and rountgenograms which are prepared.

The brain is removed and preserved f

further study following formalin fixation.

Received as separate specimens from Temas are three fragments of skull bone which in aggregate roughly approximate dimensions of the large defect described above. At one angle of the largest of fragments is a portion of the perimeter of a roughly circular wound presumably exit which exhibits beveling of the outer aspect of the bone and is estimated to measure approximately 2.5 to 3.0 cm. in diameter. Roentzenograms of this fragments minute particles of metal in the bone at this margin. Roentzenograms of skull reveal multiple minute metallic fragments along a line corresponding with joining the above described small occipital wound and the right supra-orbital refragments of the disrupted right cerebral cortex two small irregularly a fragments of metal are recovered. These measure 7 x 2 mm. and 3 x 1 mm. These placed in the custody of Agents Francix X. O'Neill, Jr. and James W. Sibert, of Federal Bureau of Investigation, who executed a receipt therefor (attached).

is that described above in the upper right posterior thorax. Beneath the skin is ecclymosis of subcutaneous tissue and musculature. The misdle path through fascia and musculature cannot be easily probed. The wound presumably of exit that described by Dr. Malcolm Perry of Dallas in the low anterior carvical regulation observed by Dr. Perry the wound measured "a few millimeters in diameter", ever it was extended as a tracheostomy incision and thus its character is distant the time of autopsy. However, there is considerable acchymosis of the strain muscles of the right side of the neck and of the fascia about the trached adjant to the line of the tracheostomy wound. The third point of reference in connect

these two wounds is in the apex (supra-clavicular portion) of the right pleural cavity. In this region there is contusion of the paric' .. pleurs and of the extre apical portion of the right upper lobe of the lung. In both instances the diamete of contusion and acchymosis at the point of maximal involvement measures 5 cm., no the visceral and parietal pleura are intact overlying these areas of trauma.

INCISIONS:

The scalp wounds are extended in the co plane to examine the cranial content an customary (Y) shaped incision is used to examine the body cavities.

THICRACIC CAVITY:

The bony cage is unremarkable. The the organs are in their normal positions an lactionships and there is no increase in free pleural fluid. The above described a of contusion in the apical portion of the right pleural cavity is noted.

LUNGS:

The lungs are of essentially similar an pearance the right weighing 320 Cm., th left 290 Ga. The lungs are cell scrated with smooth glistening pleural surfaces a gray-pirk color. A 5 cm, dismeter area of purplish red discoloration and increase firmmess to palpation is situated in the apical portion of the right upper lobe. This corresponds to the similar area described in the overlying parietal pleura. Incision in this region reveals recent hemorrhage into pulmonary parenchyma.

HEART:

The pericardial cavity is smooth walled and contains approximately 10 cc. of st: colored fluid. The heart is of essentially normal external contour and weighs 350 The pulmonary artery is opened in situ and no abnormalities are noted. The cardia chambers contain moderate amounts of postmortem clotted blood. There are no gross abnormalities of the leaflets of any of the cardiac valves. The following are the circumferences of the cardiac valves: aortic 7.5 cm., pulmonic 7 cm., tricuspid 12 cm., mitral ll cm. The myocardium is firm and reddish brown. The left ventrica myocardium averages 1.2 cm. in thickness, the right ventricular myocardium 0.4 cm. The coronary arteries are dissected and are of normal distribution and smooth walls and elastic throughout.

ABDOMINAL CAVITY:

The abdominal organs are in their normal positions and relationships and there is no increase in free peritoneal fluid. The vermiform appendix is surgically absent and there are a few adhesions joining the region of the cecum to the vontral abdominal wall at the above described old abdominal incisional scar.

SKELETAL SYSTEM:

Aside from the above described skull wor there are no significant gross skeletal

abnormalities.

PHOTOGRAPHY:

Black and white and color photographs depicting significant findings are copos

but not developed. These photographs were placed in the custody of Agent Roy H. . Kellerman of the U. S. Secret Service, who executed a receipt therefore (attached).

Roentgenograms are made of the entire 61.1 .ately submitted threa

fragments of skull bone. These are develor -- placed in the custody of Agent Roy H. Kellerman of the U. S. Secre: . ........ who executed a receipt therei (asuached).

SUMMERY:

Dased on the above observations it is opinion that the deceased died as a To of two perforating gunshot wounds inflicted by high velocity projectiles fired by person or persons unknown. The projectiles were fired from a point behind and so what above the level of the deceased. The observations and available information do not permit a satisfactory estimate as to the sequence of the two wounds.

The fatal missile entered the skull ab and to the right of the external occipital protuberance. A portion of the projec traversed the cranial cavity in a posterior-anterior direction (see lateral skull roentgenograms) depositing minute particles along its path. A portion of the pro jectile made its exit through the parietal bone on the right carrying with it portions of cerebrum, shull and scalp. The two wounds of the skull combined with the force of the missile produced extensive fragmentation of the skull, Taceratio the superior caggital sinus, and of the right cerebral hemisphere.

The other missile entered the right su posterior thorax above the scapula and traversed the soft tissues of the supra-se ular and the supra-clavicular portions of the base of the right side of the neck. This missile produced contusions of the right apical parietal pleura and of the a portion of the right upper lobe of the lung. The missile contused the strap musc of the gight side of the neck, damaged the traches and made its exit through the ancerior surface of the neck. As far as can be ascertained this missile struck n bony surrectures in its path through the body.

In addition, it is our opinion that th mound of the skull produced such extensive damage to the brain as to preclude the possibility of the deceased surviving this injury.

A supplementary report will be submitt following more detailed examination of the brain and of microscopic sections. Ho .it is not anticipated that these examinations will materially alter the findings.

J. HUMES

CDR, MC, USN (497831)

" A" THORNTON BOSWELL

, MC, USN (489878)

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