

ECU Brody School of Medicine

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REPORT OF AUTOPSY EXAMINATION

DECEDENT

Document Identifier B202101215

Autopsy Type ME Autopsy

Name Andrew Brown Jr

Age 42 yrs

Race Black

Sex M

AUTHORIZATION

Authorized By Walter A. Meads EMT-P **Received From** Pasquotank

ENVIRONMENT

Date of Exam 04/22/2021 **Time of Exam** 13:30

Autopsy Facility ECU Brody School of Medicine **Persons Present** James Spears, PA; Miranda Oliver, Autopsy Technician; Special Agent Ashlee Cowan of the North Carolina State Bureau of Investigation

CERTIFICATION

Cause of Death

PENETRATING GUNSHOT WOUND OF THE HEAD.

Other significant condition: Penetrating gunshot wound of the right upper arm.

The facts stated herein are correct to the best of my knowledge and belief.

Digitally signed by

Karen L. Kelly MD 07 June 2021 16:55

DIAGNOSES

I. Penetrating gunshot wound of the head:

A. Entrance: Midline of the posterior neck. No soot or powder tattooing.

B. Injuries:

1. Abrasion over upper back immediately below entrance wound.

2. Skin and muscle tissue of the posterior scalp.

3. Posterior midline subgaleal hemorrhage.

4. Massive subdural hemorrhage over the right cerebral hemisphere.

5. Diffuse acute subarachnoid hemorrhage over the right cerebral and both cerebellar hemispheres.

6. Cerebral and cerebellar lacerations and contusions along the wound track.

7. Right posterior cranial fossa entrance wound with circumferential internal beveling.

8. Multiple basilar skull fractures of the right posterior, middle and anterior cranial fossa and ethmoid sinus.

C. Exit: None.

D. Recovery:

1. One deformed, large-caliber, copper-jacketed projectile.

2. One deformed metal fragment.

3. One copper jacke fragment.

E. Direction: Back to front, left to right and upward.

II. Penetrating gunshot wound of the right arm:

- A. Entrance: Lateral right upper arm. No soot or powder tattooing.
- B. Injuries:
 - 1. Skin, subcutaneous and muscle tissues of the right upper arm.
 - 2. Right humeral head.
- C. Exit: None.
- D. Recovery: One deformed, large-caliber, copper-jacketed projectile.
- E. Direction: Slightly back to front, right to left and upward.

III. Additional traumatic injuries:

- A. A small laceration and abrasions with bruises of the right lower extremity.
- B. Multiple incised injuries of the right upper extremity.
- C. Multiple abrasions of the upper back.

IV. Additional findings:

- A. Cardiovascular system:
 - 1. Concentric left ventricular hypertrophy with a small chamber.
 - 2. Anomalous origin of the right coronary artery from the left sinus of Valsalva.
 - 3. Anterior descending coronary artery, 50-60% narrowed by atherosclerotic plaque.
- B. Moderate acute pulmonary edema.
- C. Benign renal cyst and small cortical nodule (incidental findings).
- D. Attempted resuscitation.
- E. Toxicology: Positive for caffeine and a low level of methamphetamine (0.014 mg/L).

IDENTIFICATION

Body Identified By

Accompanying Papers

EXTERNAL DESCRIPTION

Length 72.5 inches

Weight 226 pounds

Body Condition Intact

Rigor Rigor mortis is present in all major muscle groups and breaks with moderate pressure.

Livor Non-blanching, deep purple livor mortis is over the posterior/dependent portions of the body.

Hair The scalp is covered by 1 1/2-inch, black head hair. A 1/4-inch, black moustache is over the upper lip. A 1-inch, black beard is over the lower face.

Eyes Both normally-formed conjunctivae and congested sclerae are without petechial hemorrhages or icterus. Both irides are brown with round, symmetric, mid-position pupils.

Teeth The natural teeth over the upper and lower jaws are in good repair.

The following description excludes the later-described injuries.

The body is that of an unembalmed, normally-developed, normally-nourished, middle age-appearing, African-American man whose appearance is consistent with his reported age. The body is cold to touch after refrigeration. Skin surfaces are smooth and skin turgor is normal.

The head is normocephalic. Both nostrils are patent with an intact nasal septum. The normally-formed oral mucosal surfaces are atraumatic and the frenula are intact. Both external ears are normally formed and positioned. A single piercing is in each earlobe.

The trachea is midline without palpable masses in a symmetric neck. The chest has a normal anterior/posterior diameter with normal male nipples and breasts without masses. A horizontal, 1-inch, elliptical scar is over the lateral left chest. The abdomen is slightly distended without palpable masses. A round, 1-inch scar is over the right lower quadrant. A diagonal, 1 3/4-inch, elliptical scar is over the right lower quadrant. A 4-inch, vertical, linear scar is over the left groin. The external genitalia are those of a normal, circumcised adult male. Both testicles are descended without palpable masses. The pubic

hair is in a normal adult male distribution pattern.

Both normally-formed, symmetric lower extremities have five toes on each foot. A round, 1/2-inch scar is below the right knee. A horizontal, 2 1/2-inch, linear scar is over the posterior right popliteal fossa. A 1 1/4-inch, elliptical, horizontal scar is over the posterior-medial right calf. A 1 1/4-inch, horizontal, elliptical scar is over the mid-posterior-medial right calf. A 1-inch, horizontal, elliptical scar is over the posterior right calf. A 1-inch, horizontal, linear scar is above the right lateral malleolus. A vertical, 6 1/2-inch, linear scar is centered over the left knee. A 3-inch, vertical, linear scar is over the anterior-medial upper left thigh.

Both normally-formed, symmetric upper extremities have five fingers on each hand. The fingernails may be clubbed. A 1 1/4-inch, irregular scar is over the lateral right upper arm. A 1/2-inch, elliptical, vertical scar is over the posterior left shoulder. A complicated, 7-inch, linear scar over the anterior-medial left upper arm extends medial to the left elbow. The normally-formed back has symmetric musculature and a straight spine. The buttocks and anus are unremarkable. A 1 1/2-inch, diagonal, elliptical scar is over the left mid-back.

IDENTIFYING FEATURES:

1. A permanent, black tattoo ("May God be with me") is over the right upper chest.
2. A permanent, black tattoo ("Nazya") is over the lateral right upper arm.
3. A permanent, black sleeve tattoo ("Ferebee", "Brown") surrounds the right forearm.
4. A permanent, black tattoo ("Patrice") is centered over the sternal notch.
5. A permanent, black tattoo ("Delphine Brown") is over the right upper back.

EVIDENCE OF MEDICAL INTERVENTION: Electrocardiographic and defibrillator patches are in their usual positions.

INJURIES

I. PENETRATING GUNSHOT WOUND OF THE HEAD:

A. ENTRANCE: A round, 1/8-inch gunshot entrance wound of the posterior midline of the neck is centered 8 inches below the top of the head at the posterior midline. A 1/4-inch eccentric abrasion is at 9 o'clock. One-sixteenth-inch skin tears are at 1, 4 and 11 o'clock. There is no soot or powder tattooing identified.

B. INJURIES: A 1/4-inch, round abrasion is centered 8 3/4 inches below the top of the head at the posterior midline directly below the entrance wound. Horizontal, 1/4-inch skin tears are at 3 and 9 o'clock. The wound track travels through the skin, subcutaneous and muscle tissues of the posterior scalp with a posterior subgaleal hemorrhage. A massive subdural hemorrhage covers the right cerebral hemisphere. Subarachnoid hemorrhage is present over the right cerebral and cerebellar hemispheres. The wound track then travels through a 6.0 x 4.0-centimeter defect of the upper right cerebellar hemisphere and into a 3.0-centimeter defect of the right inferior temporal lobe. Massive contusions are in the right inferior temporal lobe and throughout the right hippocampus.

The entrance wound in the right posterior cranial fossa shows circumferential internal beveling. Multiple basilar skull fractures extend through the right posterior and middle cranial fossa. These extend anteriorly into the right anterior cranial fossa and through the ethmoid sinus.

C. EXIT: None.

D. RECOVERY:

1. One deformed, large-caliber, copper-jacketed projectile.
2. One deformed, metal fragment.
3. One copper jacket fragment.

E. DIRECTION: Back to front, slightly left to right and upward.



II. PENETRATING GUNSHOT WOUND OF THE RIGHT ARM:

A. ENTRANCE: A 1/2-inch, round gunshot entrance wound of the lateral right upper arm is centered 14 1/2 inches below the top of the head and 3 inches lateral to the posterior limb midline. A 1/4-inch tissue ledge extends from 4 to 9 o'clock. There is no soot or powder tattooing present.

B. INJURIES: The wound track travels through the skin, subcutaneous and muscle tissues of the right upper arm. The wound track then enters the lateral right humeral head.

C. EXIT: None.

D. RECOVERY: One deformed, large-caliber projectile from the right humeral head.

E. DIRECTION: Slightly back to front, right to left and upward.

III. ADDITIONAL TRAUMATIC INJURIES: A 1/4-inch, nearly-elliptical abrasion/laceration of the anterior-lateral upper right thigh is centered 31 inches above the right heel and 2 inches lateral to the anterior limb midline. A 3/8-inch, round abrasion of the right lower thigh is centered 24 inches above the right heel at the anterior midline.

A 3/4-inch, vertical, incised wound of the lateral right upper arm is centered 17 inches below the top of the head and 3 inches lateral to the posterior limb midline. A second, vertical, 1/2-inch, incised wound is slightly posterior to the 3/4 inch incision. A vertical, 5/8-inch, incised wound of the lateral right forearm is centered 23 inches below the top of the head and 2 1/2 inches lateral to the anterior limb midline. Two, 1/4-inch, diagonal, incised wounds of the lateral right forearm are slightly anterior to the 5/8 inch wound. A 1-inch, diagonal, incised wound is over the mid-posterior right forearm. Three superficial incisions of the anterior-lateral right forearm measure 1/4 inch. A 1/4-inch abrasion is over the posterior right 5th metacarpal.

Multiple 1/16- to 1/8-inch abrasions over the upper back extend from 11 inches below the top of the head to 15 1/2 inches below the top of the head and 6 1/2 inches to the right of and 5 1/2 inches to the left of posterior midline.

DISPOSITION OF PERSONAL EFFECTS AND EVIDENCE

The following items are preserved as evidence

The following items are released under chain of custody to Special Agent Robert Evans of the North Carolina State Bureau of Investigation on May 03, 2021 at 1149 hours:

- A. One sealed, manila envelope containing: DNA standard.
- B. One sealed, manila envelope containing: pulled head hair.
- C. One sealed, manila envelope containing: pulled pubic hair.
- D. One sealed, manila envelope containing: projectile and fragments from brain.
- E. One sealed, manila envelope containing: projectile from right shoulder.
- F. One sealed, plastic container containing: white granular substance in baggie.
- G. One sealed, large, brown paper bag containing:
 1. Clothing:
 - a. One red T-shirt.
 - b. One white undershirt.
 - c. Black jeans with a black belt.
 - d. Blue jogging pants.
 - e. Plaid boxer shorts.
 2. Personal effects:

- a. One gray metal stud earring with black and clear stones.
- b. One multicolor rubber bracelet.
- c. One hundred and sixty-six dollars and ninety-nine cents (166.99; 4-\$20, 6-\$10, 3-\$5, 6-\$1, 22-\$0.25, 3-\$0.10, 2-\$0.05, 9-\$0.01).
- d. One NC Driver's License.
- e. Multiple credit and savings cards.
- f. Two movie tickets.
- g. One disposable cigarette lighter.
- h. One BMW key fob.
- i. One inhaler.



One DNA standard is routinely retained.

PROCEDURES

Radiographs

Anterior/posterior radiographs of the full body are completed and reviewed.

Special Evidence Collection

One plastic baggie containing a white, granular material is recovered from the decedent's mouth.

INTERNAL EXAMINATION

Body Cavities

The following description excludes previously-described injuries.

The body is opened using a routine thoracoabdominal incision to reveal mature adipose tissue at the umbilicus. The anterior, red-brown chest and abdominal muscles are without hemorrhage. The peritoneal cavity is free of fluid, hemorrhage or adhesions. After removal of the intact chest plate, the right and left pleural cavities are free of fluid, hemorrhage or adhesions. The intact pericardium contains a small amount of clear, straw-colored fluid. The organs are in their normal anatomic locations.

Cardiovascular System

Heart Weight 425 grams

The epicardial surface is shiny and glistening. From its external features, the heart is slightly enlarged.

The superior and inferior vena cavae and the coronary sinus connect normally to the normal right atrium. The right atrial appendage is normal without thrombi. The 14.5-centimeter tricuspid valve has normal, thin and delicate valve leaflets. The right ventricle is borderline hypertrophic; the compact myocardium along the mid-posterior wall measures 0.5 centimeter in thickness. The myocardium is dark brown with no gross lesions identified. The right ventricular outflow tract leads to a normal, unobstructed, 7.0-centimeter pulmonary valve, a normal, unobstructed main pulmonary artery and normal, unobstructed pulmonary artery branches.

The right and left pulmonary veins connect normally to the normal left atrium. The left atrial appendage is normal without thrombi. The 11.5-centimeter mitral valve has normal, thin and delicate valve leaflets. The left ventricle is concentrically hypertrophic with a small ventricular chamber; the compact myocardium along the mid-lateral and mid-septal walls measure 1.6 centimeters in thickness. The myocardium is dark brown with no gross lesions identified. The left ventricular outflow tract leads to a normal, 7.5-centimeter aortic valve, a normal ascending thoracic aorta, a normal leftward aortic arch with three normal aortic arch arteries and normal descending thoracic and abdominal aorta without atherosclerosis.

The ostium of the right coronary artery arises from the left sinus of Valsalva adjacent to the left coronary artery ostium. The anterior descending coronary artery is 50-60% narrowed by atherosclerotic plaque. The remaining coronary arteries are normal without atherosclerosis.

Respiratory System

Right Lung Weight 570 grams

Left Lung Weight 500 grams

The normally-formed epiglottis, vocal cords and proximal trachea are unobstructed. The normally-formed, unobstructed trachea and mainstem bronchi are lined by a tan mucosal surface and connect normally to normally-formed lungs. Both lungs have tense, maroon, shiny pleural surfaces with minimal pigment in a reticular pattern. The uniform, maroon, spongy parenchyma expresses moderate amounts of edema with moderate pressure. There are no masses, nodules or cysts. The normally-formed distal bronchial and pulmonary artery branches are unobstructed.



Gastrointestinal System

The tongue is normally formed without superficial or deep hemorrhage. The normally-formed, unobstructed esophagus is lined by a tan, linear mucosal surface and leads to a normally-formed, well-demarcated gastroesophageal junction without varices. The normally-formed stomach is lined by a tan mucosal surface and contains minimal brown fluid. The small and large bowel and the appendix are normal. The normal colon contains normal stool.

Liver

Liver Weight 1825 grams

The liver has a smooth, intact, shiny capsular surface. The uniform, red-brown parenchyma is soft without masses, nodules or cysts. The normally-formed gallbladder is lined by a dark green, velvety mucosal surface and contains approximately 20 milliliters of dark green, viscid bile without stones. Extrahepatic bile ducts are patent.

Spleen

Spleen Weight 115 grams

The spleen has a smooth, easily-wrinkled, intact capsular surface. The uniform, maroon parenchyma is normal in gross appearance.

Pancreas

The pancreas is normal in size, shape and gross appearance.

Urinary System

Right Kidney Weight 155 grams

Left Kidney Weight 150 grams

Both capsules strip with ease to reveal smooth, shiny, red-brown cortical surfaces. The right kidney has a 0.2-centimeter, yellow cortical nodule. A 1.5 x 1.5-centimeter, benign, fluid-filled cyst is in the left cortex. The corticomedullary junction is distinct and the cortex is normal in thickness. Normal medullary pyramids lead to normal pelves and normal caliber, unobstructed ureters. The normally-formed, empty bladder is lined by a tan mucosal surface.

Reproductive System

The prostate is normal in size, shape and gross appearance.

Endocrine System

The normally-formed, symmetric thyroid gland is dark brown, uniform and granular in gross appearance. Both adrenals are normal in size, shape and gross appearance. The pituitary gland is normal in size, shape and gross appearance.

Neurologic System

Brain Weight 1265 grams

Pertinent findings are described under "Injuries".

Immunologic System

Thymus Weight 30 grams

The thymus is normal in size, shape and gross appearance. Lymph nodes throughout the body are normal in size, shape and gross appearance.



Musculoskeletal System

The hyoid bone and the thyroid and cricoid cartilages are intact without fracture or hemorrhage. The anterior, red-brown neck muscles are without hemorrhage.

The rib cage and pelvis are intact circumferentially without fracture or hemorrhage. The vertebral column has a normal architecture without dislocation, subluxation or spondylosis.

SUMMARY AND INTERPRETATION

On April 21, 2021 at approximately 0825 hours, Emergency Medical Providers were dispatched to the scene of a shooting. They arrived to find Mr. Andrew Brown Jr. lying on a sidewalk unresponsive, apneic and pulseless with cardiopulmonary resuscitation in progress. A nearby vehicle had struck a tree. It was noted that multiple bullet holes were seen in the back, front and passenger side of the vehicle. Crew members noted a significant amount of blood near Mr. Brown. Upon assessment, he was noted to have what were believed to be gunshot wounds of the head. Injuries were felt to be non-survivable and he was pronounced dead at the scene at 0832 hours. According to reports, Pasquotank County Sheriff's Deputies were serving a warrant for Mr. Brown. Deputies were involved in the shooting and Special Agents of the North Carolina State Bureau of Investigation are investigating. An autopsy was ordered to investigate his death.

Significant autopsy findings included a penetrating gunshot wound of the head at the posterior midline with injuries including subgaleal, subdural and subarachnoid hemorrhages, cerebral and cerebellar lacerations and contusions along the wound track and multiple fractures of the right posterior, middle and anterior cranial fossa. A penetrating gunshot wound of the right upper arm caused injuries of the skin, subcutaneous and muscle tissues of the right upper arm and the right humeral head. Deformed, large-caliber, copper-jacketed projectiles were recovered from both wound tracks. Additional injuries included a small laceration, abrasions with bruises of the right lower extremity, incised injuries of the right upper extremity and abrasions with bruises of the upper back.

Additional findings included moderate acute pulmonary edema, origin of the right coronary artery from the left sinus of Valsalva (anomalous origin of the right coronary artery), mild atherosclerotic narrowing of the anterior descending coronary artery, concentric left ventricular hypertrophy with a small chamber (hypertensive type), a yellow renal cortical nodule and a benign, fluid-filled renal cortical cyst.

Toxicology of aortic blood was positive for caffeine and other organic bases. Peripheral blood was positive for a low blood level of methamphetamine (0.014 mg/L). After discussion with the Chief Toxicologist at the Office of the Chief Medical Examiner, the reported level of methamphetamine is low and likely did not play a role in Mr. Brown's cause or manner of death.

Given the autopsy and toxicological findings, it is my opinion that Mr. Andrew Brown Jr.'s cause of death was due to a penetrating gunshot wound of the head. Another significant condition included a penetrating gunshot wound of the right upper arm.

DIAGRAMS

1. Body Diagram: Adult (Front/Back)
2. Body Diagram: Head (Front/Back/Sides)
3. Body Diagram: Arms
4. Body Diagram: Adult (Front/Back)

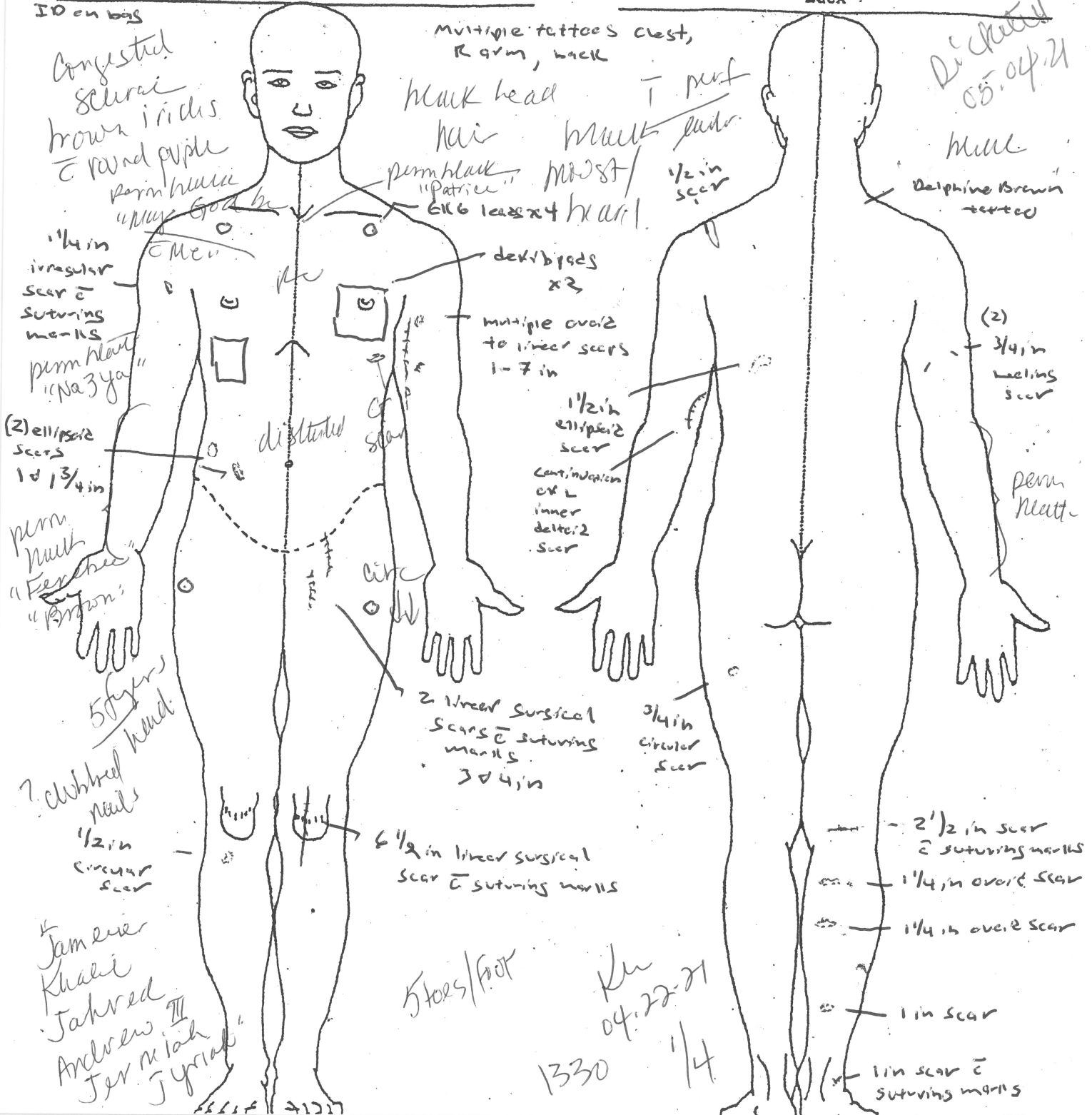
medical therapy, marked scars

Blue envelope sealed
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Front

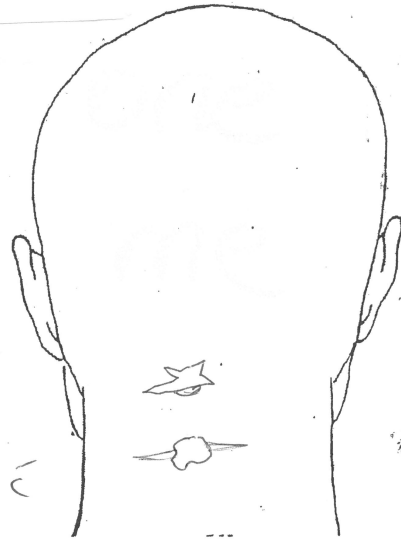
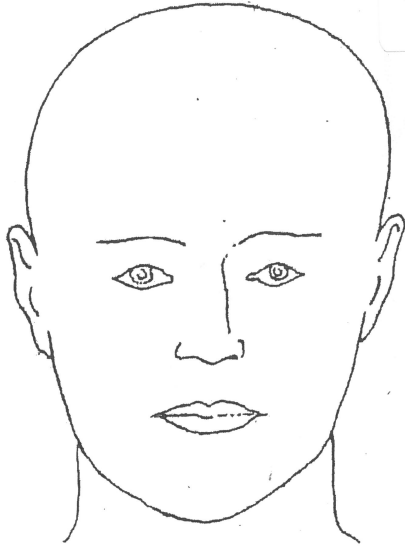
BODY DIAGRAM

Back



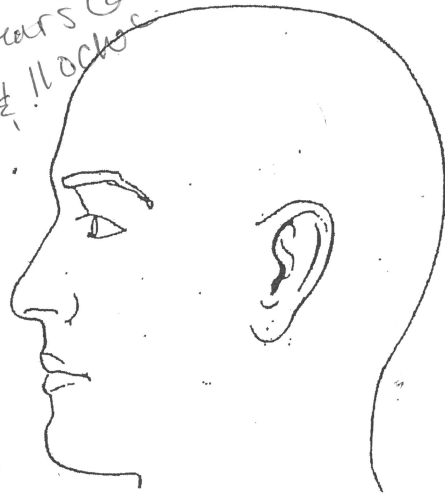
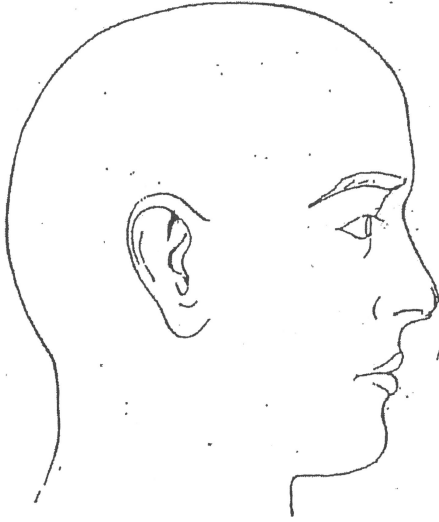
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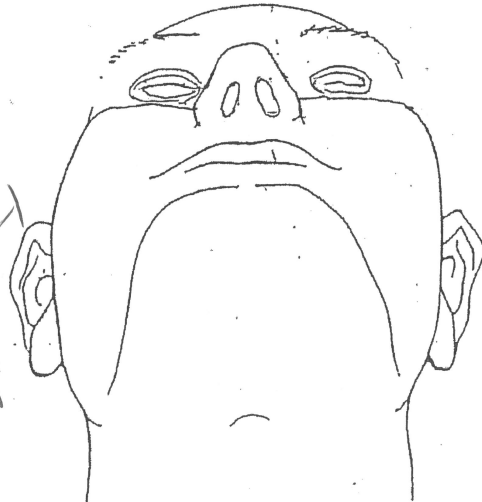
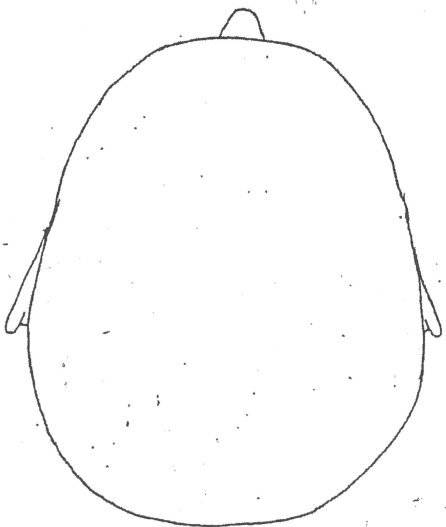


8" Vrot @
Puc
1/4" round
gs wound

1/4" electric
abrasion @ 9 o'clock
1/4" skin tears @
1, 4 & 11 o'clock



8 3/4" Vrot
@ pull
round, 1/4"
abrasion
horizontal 1/4" skin
tears @ 3 & 9 o'clock



1/4"
04.22.21
2/4

BODY DIAGRAM—ARM



17 1/2" DTT
3" lat to PLML
2" 3/4

14 1/2" DTT
3" lat to PLML
1/2" round
2" round
g worn

1/4" ledge
4-9 o'clock

23" DTT
2 1/2" lat to PLML
Vertical
5/8"

PK
04.22.21
3/4

RIGHT



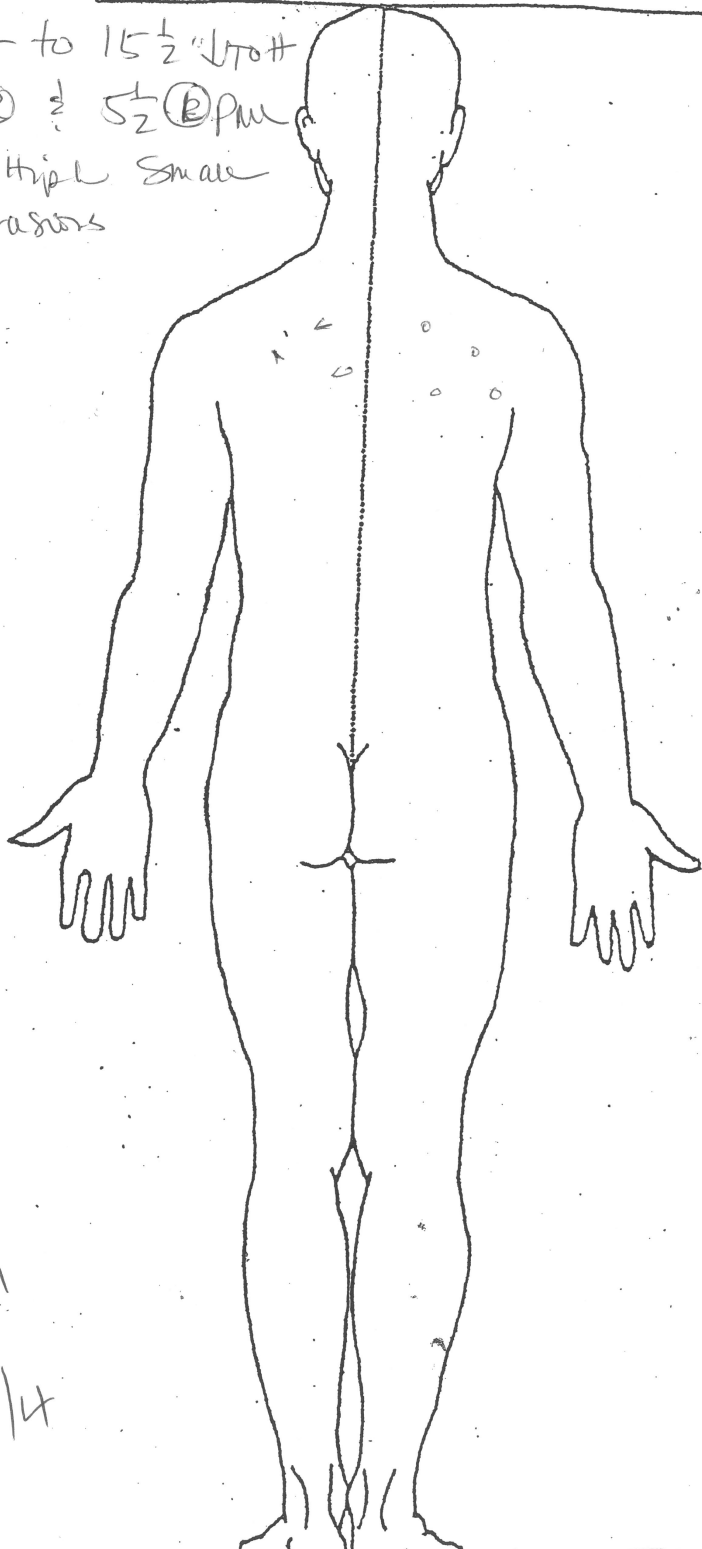
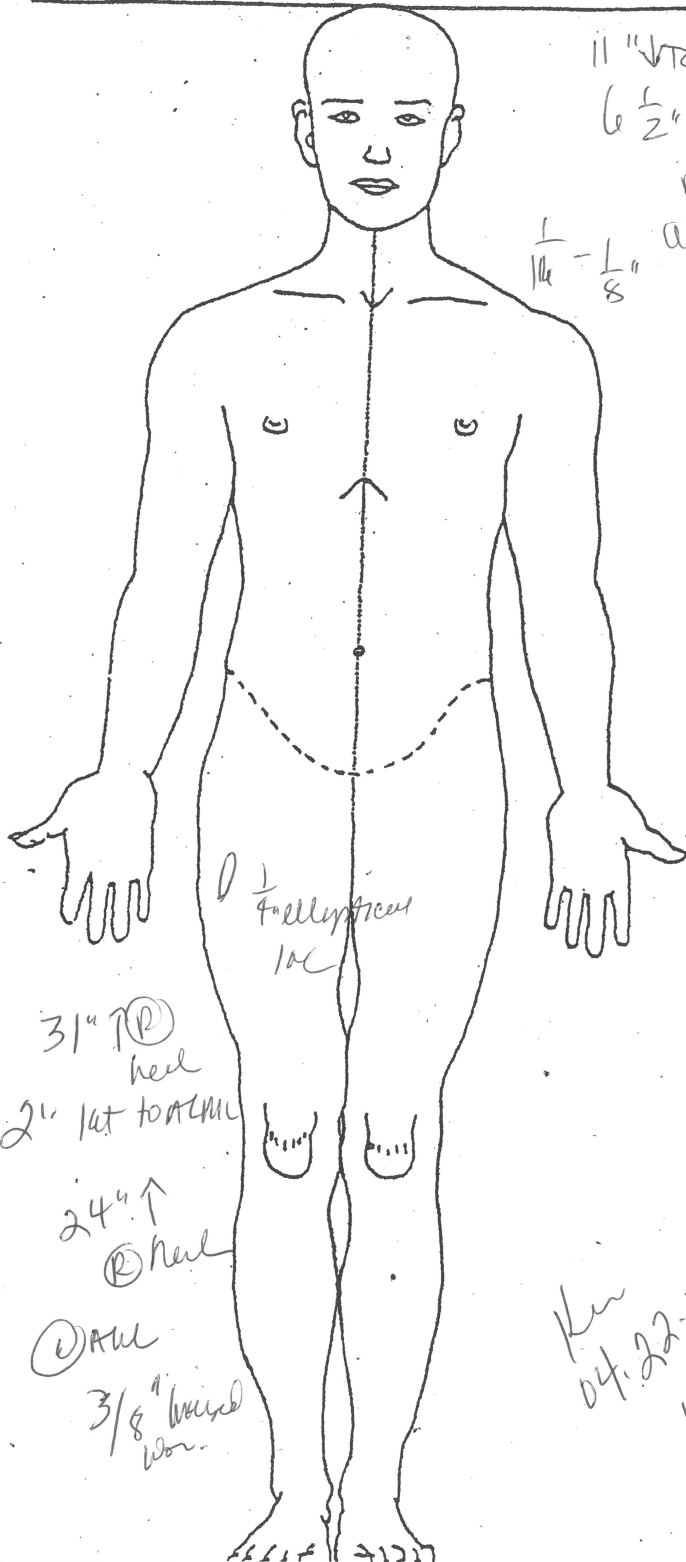
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AUTOPSY B _____
Page _____

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BODY DIAGRAM

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Ken
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