



## DEATH INVESTIGATION SUMMARY - AMENDED

Case Number: 2018-03102

HERNANDEZ RODRIGUEZ, ROY ALEXANDER

County Pronounced: Bernalillo

Law Enforcement:

Agent:

Date of Birth: 2/18/1985

Pronounced Date/Time: 5/25/2018 3:32:00 AM

Central Office Investigator: Aeris Alexandros

Deputy Field Investigator: Aeris Alexandros COI

**Disclaimer: Cause and/or manner of death may have changed. See amendment.**

### CAUSE OF DEATH

Multicentric Castleman disease

*Due to*

Acquired immunodeficiency syndrome

### MANNER OF DEATH

Natural

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### Kurt Nolte MD

Chief Medical Investigator, Professor of Pathology  
and Radiology

All signatures authenticated electronically

Date: 4/8/2019 2:34:18 PM

## DECLARATION

The death of HERNANDEZ RODRIGUEZ, ROY ALEXANDER was investigated by the Office of the Medical Investigator under the statutory authority of the Office of the Medical Investigator.

I, Kurt Nolte MD, a board certified anatomic and forensic pathologist licensed to practice pathology in the State of New Mexico, do declare that I personally performed or supervised the tasks described within this Death Investigation Summary document. It is only after careful consideration of all data available to me at the time that this report was finalized that I attest to the diagnoses and opinions stated herein.

Numerous photographs were obtained along the course of the examination. I have personally reviewed those photographs and attest that they are representative of findings reported in this document.

This document is divided into 10 sections with a final Procedural Notes section:

1. Summary and Opinion
2. External Examination
3. Medical Intervention
4. Postmortem Changes
5. Evidence of Injuries
6. Internal Examination
7. Neuropathology
8. Microscopy
9. Postmortem Computed Tomography
10. Other

Should you have questions after review of this material, please feel free to contact me at the Office of the Medical Investigator (Albuquerque, New Mexico) - 505-272-3053.

## Medical Investigator

Kurt Nolte MD

## Medical Investigator Trainee

Last Date Saved: 4/17/2019 4:57:29 PM

**Amendment:**

The following dates in the summary and opinion section are amended as follows:

- First paragraph- date taken into federal custody should read May 11, 2018
- Fourth paragraph- date feeling better should read May 20, 2018
- Fifth paragraph- date lumbar puncture was performed should read May 22, 2018
- Sixth paragraph- date when there was pancytopenia and the hematocrit dropped to 20.2% should read May 23, 2018
- Seventh paragraph- date when she had the first of a series of at least 10 cardiac arrests should read May 24, 2018. Date when platelet count fell to 59,000/microliter should read May 25, 2018

## Medical Investigator

Kurt Nolte MD

## Medical Investigator Trainee

**SUMMARY AND OPINION**

## Pathologic Diagnoses

- Acquired immunodeficiency syndrome
  - Human herpesvirus-8 (HHV-8) positive multicentric Castleman disease (Tricore Reference Laboratory & CDC reports)
    - Lymphadenopathy, paratracheal and hilar regions
    - Splenomegaly
    - Diffuse alveolar damage
    - Anasarca
    - Multiple cardiac arrests with successful resuscitations
      - Acute hypoxic-ischemic encephalopathy & diffuse cerebral edema
      - Fractures, anterior ribs and sternum, resuscitative
    - Epstein-Barr virus (EBV) associated lymphoproliferative disorder
    - Kaposi's sarcoma
    - Ulcer, esophagus, shallow
- Left occipital subcutaneous scalp hematoma, small, by CT scan
- Dilated lacteal, jejunum, incidental
- Probe patent foramen ovale, incidental

## Opinion

This 33 year old transgender woman, Roy Alexander Hernandez Rodriguez, (with a preferred name of Roxsana Hernandez and also known as Jeffry Hernandez, Jeifri Hernandez-Rodriguez, and Yenfri Hernandez-Rodriguez) was taken into federal custody in California on May 11, 2017. At that time, she was ill with cough, congestion and fever. There was a history of an untreated human immunodeficiency virus (HIV) infection for 5-6 months. She was diagnosed with bronchitis at a Scripps Care Clinic on May 12, 2018 and given antibiotics. She was then transferred to New Mexico on May 16, 2018 for incarceration.

On intake medical screening within 12 hours of arrival, she was noted to be ill and was sent to the Cibola General Hospital Emergency Room in Grants, NM where she complained of fever, cough, sore throat, abdominal pain and vomiting. She was noted to be hypotensive, tachycardic, tachypneic, febrile, hypoxemic, anemic (hematocrit 25.3%) and thrombocytopenic (platelet count 69,000/microliter). A prothrombin time was elevated at 15.7 seconds. The d-dimer concentration was markedly elevated at 449 ng/ml. A rapid Strep test, throat culture, and blood cultures were negative. HIV infection was confirmed by testing for HIV antibodies. A computed tomography (CT) scan showed numerous pulmonary micronodules and enlarged hilar and mediastinal lymph nodes. Her clinicians thought she was in septic shock with an untreated HIV infection, dehydration (blood urea nitrogen 26 mg/dl, creatinine 1.0 mg/dl) and emaciation/starvation (albumin 2.2 g/dl). She was treated with antibiotics and fluids and was transferred to Lovelace Medical Center-Downtown in Albuquerque, NM on May 17, 2018.

At Lovelace Medical Center-Downtown, she indicated that she was originally from Honduras but had been living in Mexico since she was 19 years old. She had cough and an unintentional 30 lb weight loss for 2 months while she was traveling through Mexico to the US, and fever for 2 weeks. There was cervical and inguinal lymphadenopathy. She was diagnosed with an untreated HIV infection, sepsis requiring vasopressors for hypotension, and malnutrition. An abdominal CT scan showed splenomegaly. A CT scan of the chest showed clear lungs, small pleural effusions, and bilateral axillary lymphadenopathy. A test for Treponema pallidum antibody was positive and an RPR was positive with a titer of 1:32. She was treated for syphilis. By May 19, 2018 the blood urea nitrogen and creatinine had normalized. A prealbumin concentration was low at 5.1 mg/dl. Tests for hepatitis B surface antigen and hepatitis C antibody were negative. A test for HIV viral load showed 744,000 copies/ml. The CD4 count was 189 cells/cubic millimeter and she was started on Bactrim to cover for Pneumocystis carinii pneumonia. A CT scan of the neck showed bilateral lymphadenopathy. A QuantiFERON TB GOLD test was negative. A test for Cryptococcus antigen was negative. A

urine Histoplasma antigen test was negative. An Epstein Barr virus panel showed prior exposure while a Monospot test was negative. Tests for Cytomegalovirus antibodies were negative for IgM and positive for IgG. Blood cultures from Cibola General Hospital were negative after 5 days. Sputum cultures were negative. Toxoplasmosis antibodies were negative. A malaria screen of a blood smear was negative. The lymphadenopathy was thought to be potentially secondary to the HIV infection. A nasopharyngeal swab was negative for influenza viruses, adenovirus, respiratory syncytial virus (RSV), rhinovirus, metapneumovirus, and parainfluenza viruses by PCR. On May 20, 2019 she was feeling better.

On May 21, 2018, she underwent an excisional biopsy of a right axillary lymph node which was later reported as demonstrating multicentric Castleman disease.

Neurosyphilis was considered. A lumbar puncture on May 22, 2019 showed a white blood cell count of 9 with 90% lymphocytes and a protein of 34. A VDRL on cerebrospinal fluid was non-reactive. Her fevers persisted.

On May 23, 2019, there was pancytopenia with a hematocrit that dropped to 20.2% and continued thrombocytopenia. She was transfused with red blood cells and platelets. She developed anasarca.

On May 24, 2018, she complained of shortness of breath. She underwent bilateral thoracentesis for expanded pleural effusions the same day. The left pleural fluid contained 490 white blood cells/microliter of which 16% were neutrophils and 46% were lymphocytes. The right pleural fluid had a similar count with 15% neutrophils and 65% lymphocytes. No organisms were seen. A malaria smear was negative. Fibrinogen was normal. A d-dimer concentration was elevated at 10.82 microgram/ml FEU. Abdominal distention with abdominal pain on palpation was noted. She demonstrated respiratory failure and was emergently intubated. The liver enzymes became elevated. The hematocrit was 22.5% and the platelet count was 105,000/microliter. She was transfused with more red blood cells. Another abdominal CT scan showed anasarca with moderate bilateral pleural effusions and moderate ascites and splenomegaly. The evening of May 24, 2019, she had the first of a series of at least 10 cardiac arrests with successful resuscitations until she was pronounced dead on May 25, 2018. On May 25, 2019 the platelet count had fallen to 59,000/microliter.

At autopsy, there was diffuse alveolar damage. The spleen and the lymph nodes in the chest were enlarged. Hematopathology consultants reviewed the antemortem lymph node biopsy, confirmed the diagnosis of multicentric Castleman Disease, and identified focal lymph node involvement by Kaposi's sarcoma. The multicentric Castleman Disease and Kaposi's sarcoma were associated with a human herpesvirus 8 (HHV-8) infection. Kaposi's sarcoma in the presence of HIV antibodies is an acquired immunodeficiency syndrome (AIDS) defining condition. The hematopathology consultants also identified an independent Epstein-Barr virus associated lymphoproliferative disorder.

An evaluation of autopsy tissues by the Infectious Disease Pathology Branch at the Centers for Disease Control and Prevention (CDC) confirmed the diagnosis of multicentric Castleman disease and identified positive staining for both HHV-8 (pancreas, spleen, lymph node, lung) and HIV (lymph node) infections. CDC testing excluded infection by hantavirus, Leptospira species, influenza viruses, parainfluenza viruses, and RSV. CDC testing also excluded infection by bacteria and fungi in lung tissues.

A small occipital scalp hematoma was seen by computed tomography (CT) scan. The origin of this injury is unknown. There were fractures of multiple ribs and the sternum from cardiopulmonary resuscitation attempts. No other injuries were observed.

A neuropathologic exam showed mild to moderate acute hypoxic-ischemic changes and mild diffuse cerebral edema likely secondary to the multiple cardiac arrests with successful resuscitations. There was no evidence of HIV/AIDS encephalopathy or an opportunistic HIV-related brain infection.

A culture of stool was negative for Yersinia enterocolitica, Escherichia coli O157:H7, and Campylobacter and Salmonella species. Stool was negative for Shiga toxin by PCR. Stool was negative for Giardia lamblia and Cryptosporidium by an enzyme immunoassay method.

The cause of death is best classified as multicentric Castleman disease due to acquired immunodeficiency syndrome. HHV-8 associated multicentric Castleman disease usually occurs in individuals with HIV infections and a weakened immune system. These individuals can develop a severe form of the disease that is rapidly progressive and lead to death within weeks such as seen in this decedent. Multicentric Castleman disease can present with a variety of nonspecific symptoms and signs reflective of an inflammatory process that include fever, night sweats, enlarged lymph nodes, loss of appetite and weight loss, shortness of breath, enlarged liver and spleen, pancytopenia, peripheral neuropathy, hypoalbuminemia, and skin rash. The decedent manifested most of these findings.

The manner of death is natural.

## Medical Investigator

Kurt Nolte MD

## Medical Investigator Trainee

External exam date time: 5/26/2018 10:23:00 AM  
 Authority for examination: OMI  
 ID confirmed at time of exam: Yes  
 Means used to confirm identity: Photo  
 Other verification means:  
 Location of orange bracelet: Left wrist  
 Name on orange bracelet: Decedent name  
 Other name on orange bracelet:  
 Location of green bracelet: Left wrist  
 Name on green bracelet: Decedent name  
 Other name on green bracelet:  
 Hospital ID tags or bracelets? Yes  
 If yes specify stated name and location: Left wrist- decedent name  
 Body length (cm): 164.00  
 Body weight (kgs): 60.00  
 BMI: 22.31

Development: Well-developed  
 Development comments:  
 Stature: Well-nourished  
 Age: Appears to be stated age  
 Anasarca: No  
 Edema localized: No  
 Dehydration: No  
 Scalp hair color: Blonde  
 Scalp hair color comments:  
 French braids with pigtailed  
 Scalp hair length: Long  
 Eyes: Both eyes present  
 Irides: Brown  
 Eyes corneae: Translucent  
 Eyes sclerae: White  
 Eyes conjunctivae: Translucent  
 Eyes petechiae: No  
 Palpebral petechiae: No  
 Bulbar petechiae: No  
 Facial petechiae: No

Oral mucosal petechiae:	No
Nose:	Normally formed
Ears:	Normally formed
Lips:	Normally formed
Facial hair:	Stubble in the pattern of a beard and moustache
Facial hair color:	Brown
Facial hair color comments:	
sparse hair	
Maxillary dentition:	Natural
Mandibular dentition:	Natural
Condition of dentition:	Adequate
Neck:	Unremarkable
Trachea midline:	Yes
Chest development:	Normal
Chest symmetrical:	Yes
Chest diameter:	Appropriate
Abdomen:	Flat
Anus:	Unremarkable
Back:	Unremarkable
Spine:	Normal
External genitalia:	Male
Breast development:	None
Breast masses:	None
Right hand digits complete:	Yes
Left hand digits complete:	Yes
Right foot digits complete:	Yes
Left foot digits complete:	Yes
Extremities:	Well-developed and symmetrical
Extremities comment:	
pink toenail polish slight edema	
Muscle group atrophy:	No
Senile purpura:	No
Pitting edema:	Yes
Muscle other:	No

#### Tattoo(s)

Tattoos present:	No
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#### Cosmetic Piercing(s)

Cosmetic piercing present:	No
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#### Scar(s)

Scar(s) present:	Yes
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Scar anterior chest: Yes  
Scar right hand: Yes  
Scar left hand: Yes  
Scar right knee: Yes  
Scar left thigh: Yes  
Scar left knee: Yes

**Reporting Tracking**

**Reported by:**

**Verified by:**

**Reviewed and approved by:**

Kurt Nolte MD on 6/7/2018 1:40:12 PM

Kurt Nolte MD on 4/8/2019 2:35:41 PM

Medical Investigator

Medical Investigator Trainee

Kurt Nolte MD

Evidence of medical intervention: Yes

Indwelling Tubes

If nasogastric tube present, specify course and position: No

If endotracheal tube present, specify course and position: No

Tracheostomy site/tube: No

Mediastinal tube(s): No

Chest tube(s): No

If Foley catheter present, specify course and position: No

Medical intervention other:

bandages over needle punctures, right forearm, right groin, left arm

Sutured wound with covering bandage in right axilla

CPR abraded contusions over sternum

Electrocardiogram (ECG) Monitoring Pads

ECG Monitoring Pads Present?: No

Defibrillator Pads

Defibrillator pads present?: No

Vascular Catheter(s):

Vascular catheter(s): No

Recent Surgical Intervention

Evidence of recent surgical intervention: No

Report Tracking

Reported by:

Verified by: Kurt Nolte MD on 1/24/2019 11:01:15 AM

Reviewed and approved by: Kurt Nolte MD on 4/8/2019 2:35:41 PM

Medical Investigator

Kurt Nolte MD

Medical Investigator Trainee

External exam date: 5/26/2018 10:19:00 AM  
Body temperature: Cool subsequent to refrigeration  
Rigor mortis: Fully fixed  
Livor mortis - color: Purple  
Livor mortis - fixation (if applicable): Partially fixed  
Livor mortis - position (if applicable): Posterior  
State of preservation: No decomposition

Report Tracking

Reported by:  
Verified by: Kurt Nolte MD on 5/26/2018 10:21:38 AM  
Reviewed and approved by: Kurt Nolte MD on 4/8/2019 2:35:41 PM

Medical Investigator

Medical Investigator Trainee

Kurt Nolte MD

Are there any injuries: Yes

**Evidence of Injury:**

Autopsy date: 6/7/2018 12:58:00 PM

#	Injury	Location	Injury Description
1	Blunt injury	Head	See Computed Tomography (CT) section

**Report Tracking**

Reported by:

Verified by: Kurt Nolte MD on 3/15/2019 11:03:36 AM

Reviewed and approved by: Kurt Nolte MD on 4/8/2019 2:35:41 PM

## Medical Investigator

Kurt Nolte MD

## Medical Investigator Trainee

Date of Autopsy: 6/7/2018 12:58:00 PM

Date of Internal Exam: 6/7/2018 1:01:00 PM

## BODY CAVITIES

Chest cavities examined:	Yes
See evidence of injury section	No
Organs in normal anatomic position	Yes
Other organ position comments	
Diaphragm:	Intact
Serosal surfaces:	Smooth and glistening
Body cavity adhesions present:	No
Fluid accumulation present:	Yes
Fluid accumulation right chest cavity:	Yes
Fluid accumulation left chest cavity	Yes
Fluid accumulation pericardial sac:	No
Fluid accumulation abdominal cavity:	Yes
Fluid accumulation pelvis:	No
Fluid accumulation comments:	
	200 ml clear pink fluid each chest cavity
	300 ml similar fluid abdominal cavity

## HEAD

Brain examined:	Yes
See separate forensic neuropathology consultation report	Yes
See evidence of injury section:	No
See evidence of medical Intervention section:	No
See postmortem changes section:	No
Brain fresh (g):	1300
Brain fixed (g):	1295
Facial skeleton:	No palpable fractures
Calvarium:	No fractures
Skull base:	No fractures
Skull comments:	

## Spinal Cord

Spinal cord examined: No

## Middle Ears

Middle ears examined: No

## Neck

Neck examined: Yes

See Evidence of Injury section: No

See Evidence of Medical  
Intervention section: No

See Postmortem Changes section: No

Subcutaneous soft tissues: Unremarkable

Strap muscles: Unremarkable

Jugular veins: Unremarkable

Carotid arteries: Unremarkable

Tongue: Unremarkable

Epiglottis: Unremarkable

Hyoid bone: Unremarkable

Larynx: Other - See comments

Palatine tonsils: Not examined

Other neck comments: edema in aryepiglottic folds  
approximately 1 cm area of hemorrhage in laryngeal mucosa

## CARDIOVASCULAR SYSTEM

Heart examined: Yes

See separate Cardiovascular  
Pathology report: No

See Evidence of Injury section: No

See Evidence of Medical  
Intervention section: No

See Postmortem Changes section: No

## Heart

Right coronary ostium position: Normal

Left coronary ostium position: Normal

Supply of the posterior  
myocardium: Right coronary artery

Heart fresh (g): 250.0

Heart fixed (g):

## Coronary artery stenosis by atherosclerosis (in percent):

Right coronary ostium: 0

Proximal third right coronary  
artery: 0

Middle third right coronary artery: 0

Distal third right coronary artery: 0

Left coronary ostium: 0

Left main coronary artery: 0

Proximal third left anterior  
descending coronary artery: 0Middle third left anterior  
descending coronary artery: 0

Distal third left anterior descending coronary artery:	0
Proximal third left circumflex coronary artery:	0
Middle third left circumflex coronary artery:	0
Distal third left circumflex coronary artery:	0

**Cardiac Chambers and Valves:**

Cardiac chambers:	Unremarkable
Tricuspid valve:	Unremarkable
Pulmonic valve:	Unremarkable
Mitral valve:	Unremarkable
Aortic valve:	Unremarkable
Right ventricular myocardium:	No fibrosis, erythema, pathologic infiltration of adipose tissue or areas of accentuated softening or induration
Left ventricular myocardium:	No fibrosis, erythema, or areas of accentuated softening or induration
Atrial septum:	Other - See comments
Ventricular septum:	Unremarkable
Other septal comments:	

2-3 mm diameter probe patent foramen ovale

**Aorta**

Aorta examined:	Yes
Orifices of the major vascular branches:	Patent
Coarctation:	No
Vascular dissection:	No
Aneurysm formation:	No
Complex atherosclerosis:	No
Other aortic pathology:	No

**Vena Cava**

Great vessels examined:	Yes
Vena cava and major tributaries:	Patent

**RESPIRATORY SYSTEM**

Lungs examined:	Yes
See separate Cardiovascular Pathology report:	No
See Evidence of Injury section:	No
See Evidence of Medical Intervention section:	No
See Postmortem Changes section:	No
Lung right (g):	1240
Lung left (g):	1070
Upper and lower airways:	Unobstructed, and the mucosal surfaces are smooth and yellow-tan

Pulmonary parenchyma color:	Dark red-purple
Pulmonary parenchyma congestion and edema:	Marked amounts of blood and frothy fluid
Pulmonary trunk:	Free of saddle embolus
Pulmonary artery thrombi:	None
Pulmonary artery atherosclerosis:	None

## HEPATOBIILIARY SYSTEM

Liver examined:	Yes
See Evidence of Injury section:	No
See Evidence of Medical Intervention section:	No
See Postmortem Changes section:	No
Liver (g):	1760
Bile vol (mL):	
Gallstones autopsy:	No
Gallstones autopsy desc:	
Hepatic parenchyma (color):	Pale brown
Hepatic parenchyma (texture):	Unremarkable
Hepatic vasculature:	Unremarkable and free of thrombus
Gallbladder:	Unremarkable
Gallstones:	None
Intrahepatic biliary tree:	Unremarkable
Extrahepatic biliary tree:	Unremarkable

## GASTROINTESTINAL SYSTEM

Alimentary tract examined:	Yes
See Evidence of Injury section:	No
See Evidence of Medical Intervention section:	No
See Postmortem Changes section:	No
Stomach contents vol (mL):	20
Stomach contents description:	thick yellow liquid
Appendix found:	Yes

## Esophagus

Course:	Normal course without fistulae
Mucosa:	Other - See comments
Other esophageal comments:	smooth grey-white mucosa with 1 x 0.5 cm shallow hemorrhagic ulcer in mid portion

## Stomach

Mucosa:	Usual rugal folds
Pylorus:	Patent and without muscular hypertrophy

## Small Intestine

Luminal contents:	Partially digested food
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**Mucosa:** Other - See comments  
**Caliber and continuity:** Appropriate caliber without interruption of luminal continuity  
**Other small intestine comments:**  
 1cm yellow soft mucosal nodule in jejunum

**Colon**

**Luminal contents:** Unformed stool  
**Mucosa:** Unremarkable  
**Caliber and continuity:** Appropriate caliber without interruption of luminal continuity

**Pancreas**

**Form:** Normal tan, lobulated appearance

**GENITOURINARY SYSTEM**

**Genitourinary system examined:** Yes  
**See Evidence of Injury section:** No  
**See Evidence of Medical Intervention section:** No  
**See Postmortem Changes section:** No

**Kidneys**

**Kidneys capsules:** Thin, semitransparent  
**Cortical surfaces:** Smooth  
**Cortices:** Normal thickness and well-delineated from the medullary pyramids  
**Calyces, pelves and ureters:** Non-dilated and free of stones and masses  
**Other kidney comments:**  
 pale brown  
**Kidney right (g):** 130  
**Kidney left (g):** 130  
**Urine volume (mL):** 0  
**Urine description:**

**Urinary Bladder**

**Urinary bladder mucosa:** Gray-tan and smooth

**Male**

**Male:** Yes

**Testicles**

**Location:** Bilaterally intrascrotal  
**Size:** Unremarkable  
**Consistency:** Homogeneous  
**Other testicle comments:**

**Prostate Gland**

**Size:** Unremarkable  
**Consistency:** Homogeneous  
**Other prostate gland comments:**

**RETICULOENDOTHELIAL SYSTEM**

**Reticuloendothelial system examined:** Yes

See Evidence of Injury section: No  
 See Evidence of Medical Intervention section: No  
 See Postmortem Changes section: No

**Spleen**

Spleen (g): 555  
 Spleen parenchyma: Moderately firm  
 Spleen capsule: Intact  
 Spleen white pulp: Indiscernible

**Bone Marrow**

Color: Red-brown, homogeneous and ample

**Lymph Nodes**

Regional adenopathy: Other - See comments  
 Other lymph node comments:  
 prominent 1-4 cm paratracheal and hilar lymph nodes

**Thymus**

Thymus (g):  
 Parenchyma: Absent (involution by adipose tissue)

**ENDOCRINE SYSTEM**

Endocrine system examined: Yes  
 See Evidence of Injury section: No  
 See Evidence of Medical Intervention section: No  
 See Postmortem Changes section: No

**Pituitary Gland**

Size: Normal

**Thyroid Gland**

Position: Normal  
 Size: Normal  
 Parenchyma: Homogeneous

**Adrenal Glands**

Adrenal right (g):  
 Adrenal left (g):  
 Size: Normal  
 Parenchyma: Yellow cortices and gray medullae with the expected corticomedullary ratio

**MUSCULOSKELETAL SYSTEM**

Musculoskeletal system examined: Yes  
 See Evidence of Injury section: No  
 See Evidence of Medical Intervention section: No  
 See Postmortem Changes section: No  
 Bony framework: Unremarkable  
 Musculature: Other - See comments

Subcutaneous soft tissues: Other - See comments  
Other musculoskeletal system anasarca in exposed soft tissues  
comments:

**ADDITIONAL COMMENTS**

**Report Tracking**

Reported by:  
Verified by: Kurt Nolte MD on 6/7/2018 1:54:19 PM  
Reviewed and approved by: Kurt Nolte MD on 4/8/2019 2:35:41 PM

**Medical Investigator**

Kurt Nolte MD

**Medical Investigator Trainee****Summary:****NEUROPATHOLOGIC FINDINGS:**

- I. Mild to moderate acute hypoxic-ischemic changes.
- II. Mild diffuse cerebral edema.
- III. Scattered chronic inflammatory infiltrate, leptomeninges.

**SUMMARY AND EXPLANATION OF FINDINGS:**

The decedent is a 33-year-old man with a medical history significant for AIDS.

Neuropathologic examination demonstrates a macroscopically normal appearing brain with mild cerebral edema. Microscopically, mild to moderate acute hypoxic-ischemic changes are present. Scattered chronic inflammatory mononuclear infiltrates involve the leptomeninges of the hippocampal section and the pons.

Microscopic features of HIV/AIDS encephalopathy are not present (multinucleated giant cells and microglial nodules). Features of opportunistic CNS infections are not identified.

<b>Brain exam date:</b>	6/27/2018 12:00:00 AM
<b>Brain:</b>	Yes
<b>Dura:</b>	Yes
<b>Other materials available for exam:</b>	Pituitary gland
<b>Brain Dissection Method:</b>	Cerebrum - coronal
<b>Brain fresh:</b>	1300.00
<b>Brain fresh:</b>	
<b>Brain fixed:</b>	1295.00

**Evidence of Injury****General Description (External):**

<b>Dura mater:</b>	Smooth and without masses
<b>Dural venous sinuses:</b>	Patent
<b>Cortical bridging vein:</b>	Disrupted upon brain removal
<b>Other cortical bridging vein comment(s):</b>	Disrupted upon brain removal
<b>Leptomeninges:</b>	Smooth and translucent
<b>Superficial Cortical Vasculature:</b>	No thromboses or vascular malformations
<b>Gyral convolution patterns:</b>	Within normal limits
<b>Gyral convolutions:</b>	Slight widening and flattening
<b>Uncal processes:</b>	Not grooved or herniated
<b>Cerebellar tonsils:</b>	Not grooved or herniated
<b>Basilar arterial vasculature:</b>	Normal
<b>Cranial nerve roots:</b>	Normal

**General Description (Internal):**

<b>Cerebral cortex:</b>	Intact and without contusion
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Gray-white matter junctions:	Distinct
Internal capsule:	No neoplasm, cyst, abscess or hemorrhage
Ventricular system:	Appropriately configured and not compressed
Deep gray nuclei:	No neoplasm, cyst, abscess or hemorrhage
<b>Other comment(s) about the deep gray nuclei:</b>	
Hippocampi:	No neoplasm, cyst, abscess or hemorrhage
Mammillary bodies:	No neoplasm, cyst, abscess or hemorrhage
Superior cerebellar vermis:	No neoplasm, cyst, abscess or hemorrhage
Cerebellar parenchyma:	No neoplasm, cyst, abscess or hemorrhage
Brainstem structures:	No neoplasm, cyst, abscess or hemorrhage
Proximal cervical spinal cord:	No neoplasm, cyst, abscess or hemorrhage
Substantia nigra:	Normally pigmented
Locus ceruleus:	Normally pigmented

#### Other Tissues Examined

Spinal cord:	Other
<b>Other comment(s) about the spinal cord:</b>	
The superior cervical spinal cord shows no abnormalities.	
Eyes:	Not examined
Cervical spine:	Not examined

#### Microscopic Description

The isocortex (left frontal and left occipital) demonstrates normal appearing isocortex with appropriate lamination and morphologically appearing neurons with scattered acute hypoxic-ischemic changes. The subcortical white matter is appropriately myelinated and contains normal appearing supporting glia. Frequent capillaries contain abundant polymorphonuclear cells. The overlying leptomeninges are thickened by collagen strands with scant chronic mononuclear inflammatory cells.

Sections of the left basal ganglia and right thalamus show mild acute hypoxic-ischemic changes. The extreme capsule, claustrum, external capsule and internal capsule are histologically normal. Scattered small vessels demonstrate abundant polymorphonuclear cells. The thalamus demonstrates histologically normal appearing large neurons.

The hippocampus shows mild acute hypoxic-ischemic changes involving CA1, with otherwise normal histology. The leptomeninges show focal chronic inflammatory infiltrate comprised of macrophages and plasma cells.

The pons is histologically and structurally normal, with normal appearing pontine nuclei, corticospinal/corticobulbar tracts, and transverse pontocerebellar tracts. The leptomeninges are thickened, with chronic inflammatory cells composed of macrophages and plasma cells.

Microscopic examination of the cerebellum shows mild to moderate acute hypoxic-ischemic changes involving the Purkinje cells and the dentate nucleus.

Sections of dura mater show no abnormality. The anterior pituitary gland demonstrates normal cytoarchitecture. The posterior pituitary gland is composed of normal appearing neuropil.

\*Unless otherwise indicated sections are stained only with hematoxylin and eosin (H&E).

Cassette Code	Tissue Location	Stain
B1	Frontal lobe	
B2	Basal ganglia, left	
B3	Thalamus	
B4	Hippocampus	
B5	Occipital lobe	
B6	Pons	
B7	Cerebellum	
B8	Dura, pituitary	

**Report Tracking**

**Reported by:**

**Verified by:** Kurt Nolte MD on 8/21/2018 10:49:16 AM

**Reviewed and approved by:** Kurt Nolte MD on 4/8/2019 2:35:41 PM

## Medical Investigator

Kurt Nolte MD

## Medical Investigator Trainee

**Microscopic description:**

Heart: No pathologic abnormality.

Lungs: Extensive intra-alveolar mononuclear cells, neutrophils, erythrocytes and fibrin with focal hyaline membranes and interstitial expansion. PAS, GMS and AFB stains show no organisms.

Kidney: No pathologic abnormality.

Liver: Autolysis. Moderate microvesicular fatty change in hepatocytes. Paucity of lymphocytes in portal triads.

Adrenals: Autolysis. No pathologic abnormality.

Pancreas: Autolysis. No pathologic abnormality.

Esophagus: Focal non-specific submucosal chronic inflammation. No ulcer appreciated. A PAS stained section shows Candidal-type organisms without associated inflammation on a desquamated mucosal fragment likely representing colonization. A GMS stained section is negative for organisms.

Stomach: Autolysis. No pathologic abnormality.

Small intestine: Autolysis. A section of duodenum has no pathologic abnormality. A section of jejunum has dilated submucosal lymphoid channels.

Colon: Sections of colon including rectum show autolysis with no pathologic abnormality.

Spleen: Autolysis.

Lymph nodes: Autolysis. See Hematopathology Consultation report for description of well preserved histology on antemortem lymph node biopsy.

\*Unless otherwise indicated sections are stained only with hematoxylin and eosin (H&E).

Block	Tissue Location	Description	Stain
A1	Heart		
A2	Right lung		
A3	Liver, kidney		
A4	Adrenals		
A5	Rectum		
A6	Spleen, pancreas		
A7	Esophagus		
A8	Stomach		
A9	Duodenum		
A10	Left lung		
A11	Hilar and paratracheal lymph nodes		
A12	Esophageal ulcer		
A13	jejunum and jejunal mucosal nodule		
A14	Colon		

**Report Tracking****Reported by:****Verified by:**

Kurt Nolte MD on 3/27/2019 5:48:08 PM

**Reviewed and approved by:**

Kurt Nolte MD on 4/8/2019 2:35:41 PM



**Medical Investigator**

Kurt Nolte MD

**Date of examination:** 6/7/2018 12:58:00 PM**Study date:** 5/26/2018 9:37:00 AM**Accession number:****Exam type:****Technique:****Comparison:****Comments:**

Lungs:

Diffuse opacification of both lungs.

Left lung calcified granuloma.

Small bilateral pleural effusions.

Multiple nonspecific enlarged mediastinal lymph nodes.

Calcified left hilar lymph nodes.

Heart, Pericardium and Thoracic Aorta:

Small pericardial effusion.

Liver and Gallbladder:

Negative

Pancreas:

Negative

Spleen:

Negative

Kidneys:

Right nephrolith

Adrenal Glands:

Calcification of left adrenal from prior infection or hematoma

Gastrointestinal Tract:

Fluid filled but nondilated loops of bowel.

Moderate abdominal ascites.

Multiple mesenteric lymph nodes.

Urinary Bladder:

Negative

Genitalia:

Negative.

Subcutaneous scrotal edema

Brain and meninges:

Negative

Skull:

No fracture

Diffuse subcutaneous edema. Small subcutaneous scalp hematoma over left occipital region.

Cervical Vertebrae:

Computed Tomography

Negative  
Extensive cervical lymphadenopathy.

Thoracic and Lumbar Vertebrae:  
Negative

Thoracic wall:  
Rib fractures: Anterior left 3-6 rib fractures and anterior right 2-4 rib fractures likely from resuscitation.  
Sternal fracture: Nondisplaced transverse sternal fracture likely from resuscitation.

Pelvis:  
Negative  
Multiple enlarged inguinal lymph nodes.

Extremity fracture:  
No acute or subacute extremity fractures. Diffuse subcutaneous edema.

Body surface injury:  
Diffuse subcutaneous edema. Extensive edema precludes evaluation for soft tissue injury.  
Axillary lymphadenopathy, some calcified on the right.

**IMPRESSION:**

- Left scalp hematoma. No other evidence of soft tissue injury although diffuse soft tissue edema/anasarca could obscure soft tissue findings of injury.
- Extensive lymphadenopathy may be related to HIV or HIV related infection, lymphoma, or other etiology.
- Anasarca.
- Diffuse opacification of lungs may relate to diffuse pulmonary edema, ARDS, or pneumonia.

Interpreting radiologist:  
Gary Mlady MD, Chair, UNM Dept of Radiology  
Above report sent via email on 12/10/18

**Report Tracking**

<b>Reported by:</b>	
<b>Verified by:</b>	Kurt Nolte MD on 3/11/2019 4:01:02 PM
<b>Reviewed and approved by:</b>	Kurt Nolte MD on 4/8/2019 2:35:41 PM

Medical Investigator

Medical Investigator Trainee

Kurt Nolte MD

Date of examination: 6/7/2018 12:58:00 PM

Other comments:

Internal visceral examination conducted on 6-7-18

Report Tracking

Reported by:

Verified by: Kurt Nolte MD on 6/7/2018 1:09:25 PM

Reviewed and approved by: Kurt Nolte MD on 4/8/2019 2:35:41 PM

Case Number: 2018-03102  
Decedent Name: HERNANDEZ RODRIGUEZ, ROY ALEXANDER  
Pathologist: Kurt Nolte MD  
Fellow/Resident:  
Date of Examination: 6/7/2018 12:58:00 PM

**Morphology technican(s) present**

<b>Yellow Sheet</b>	<b>Morphology Technician</b>
Identification	Micaela Aragon-Greer
Evidence	Micaela Aragon-Greer
Radiology	Micaela Aragon-Greer
Retention	Micaela Aragon-Greer
LabOther	Micaela Aragon-Greer
Autopsy	Micaela Aragon-Greer
Evidence	Micaela Aragon-Greer
Attendees	Micaela Aragon-Greer

**Morphology technican supervisor(s) present**

<b>Yellow Sheet</b>	<b>Morphology Technician Lead</b>
Identification	Jordan Sousa
Autopsy	Cassandra Toledo
Evidence	Jordan Sousa
Radiology	Jordan Sousa
Retention	Jordan Sousa
LabOther	Sheena Curtis
Attendees	Jordan Sousa

**Autopsy attendees**

**Other morphology technicians present:**

Daria Koehlert- Staff Tech

Jordan Sousa- Sr Tech

## Specimens obtained for laboratory testing

HIV serology:	No
HIV spin and store:	Yes
HCV/HBV serology :	No
Influenza serology:	No
Other serology:	No
Freezer protocol:	No
DNA card:	Yes
Metabolic screen:	No
Cytogenetics:	No
Med-X protocol:	No
Urine dipstick:	No
Blood cultures (bacterial):	No
Lung cultures (bacterial):	No
CSF culture (bacterial):	No
Spleen culture (bacterial):	No
Stool culture (bacterial):	No
Other bacterial culture (specify):	
Mycobacterial culture (lung):	No
Mycobacterial culture (other):	No
Viral Cultures:	No

## Approach to autopsy dissection

Rokitansky evisceration:	No
Virchow evisceration:	Yes
Modified evisceration:	No

## Special autopsy techniques

HIV serology:	No
Pericranial membrane removal:	No
Neck anterior dissection:	No
Neck posterior dissection:	No
Facial dissection:	No
Vertebral artery dissection (in situ):	No
Cervical spine removal:	No
Layered anterior trunk dissection:	No
Anterolateral rib arc dissection:	No
Back dissection:	No
Posterior rib arc dissection:	No
Extremity soft tissue dissection:	No
Eye enucleation:	No
Inner middle ear evaluation:	No
Maxilla or mandible resection:	No
Spinal cord removal (anterior):	No
Spinal cord removal (posterior):	No
Other dissection(s):	

## Tissues retention

Stock jar with standard tissue retention:	No
Rib segment:	No
Pituitary gland:	No
Breast tissue (women only):	No
Brain retention:	No
Spinal cord retention:	No
Cervical spine retention:	No
Heart retention:	No
Heart-lung block retention:	No
Rib cage retention:	No
Long bone retention:	No
Other retention,specify:	

## Disposition of tissues retained for extended examination

**Specimen outcome:** Not applicable; no tissues were retained for extended examination.

Number of scene photos produced by the OMI

Scene Photos: 0

Number of autopsy photos produced by the OMI

Autopsy Photos: 58

Evidence collected

FBI blood tube: No  
 Blood spot card: No  
 APD blood card: No  
 Thumbprint: Yes  
 Fingerprints: No  
 Palmprints: No  
 Print hold: Yes  
 Oral swab: No  
 Vaginal swab: No  
 Anal swab: No  
 Other swab: No  
 Fingernails: No  
 Scalp hair: No  
 Pubic hair: No  
 Pubic hair combing: No  
 Projectile(s): No  
 Retain clothing: No  
 Retain valuables: No  
 Retain trace evidence: No  
 Retain body bag: No  
 Retain hand bags: No  
 Ligature: No

Other evidence retained:

Personal effects

Property Type	Property Description	Property Detail
Valuables	Hair tie	n/a
None	Other	No Clothing Items to Inventory
Fingerprints	Describe	one set

Clothing

Property Type	Property Description	Property Detail
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