

THE UNIVERSITY OF TENNESSEE

ATOMIC ENERGY COMMISSION

RESTRICTED

AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

VETERINARY NECROPSY PROTOCOL*

PROJECT Special AEC
CONTRIBUTOR Rust-Town

DATE 10-14-53

IDENTIFICATION

Cvino

?

Female

1 year

None Species

#1 Breed

Sex 697 Age

Hours intervening
between death and
autopsy

Other applicable identification
(Owner's name, color, identi-
fying mark, tag number)

Necropsy Number

CLINICAL DIAGNOSES: None

NECROPSY DIAGNOSES: None

CLINICAL ABSTRACT

This yearling was raised at Cedar City, Utah and had not been to the test site.
What had happened to its mother was not known.

192

*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

RESTRICTED

GROSS FINDINGS*

GENERAL: (Weight, condition of cadaver, hair coat, body orifices, scars, wounds, superficial tumors, etc.)

PRIMARY INCISION: (Subcutaneous fat, muscles, peritoneum, position of viscera, body lymph nodes, etc.)

Fisceral lymph node large and dark. Cut section was moist and grayish-pink in color.

RESPIRATORY SYSTEM: (Larynx trachea, bronchi, lymph nodes, lung, pleura.)

HEART: (Pericardium, epicardium, myocardium, endocardium, valves, coronary vessels.)

AORTA, BLOOD & LYMPH VESSELS:

SPLEEN:

Not unique.

*If additional space is required under any particular heading, continue where space is available or append additional sheets.

LIVER: (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

Thyroid not unique.

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus)

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

GENITAL SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

HEAD:

BRAIN:

SPINAL CORD:

BONE MARROW:

BONES & JOINTS:

MUSCULATURE:

BACTERIOLOGIC EXAMINATIONS

CHEMICAL EXAMINATIONS

REMARKS

Foot bones saved for radiochemical examination for strontium and yttrium.

Signature

Blocks of tissue cut 0.5 to 1.0 cm. thick, should be fixed in liberal quantities (10 times the volume of tissue) of neutral 10% formalin. Specimens should be submitted from each organ or structure, regardless of presence of gross lesions.

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THE UNIVERSITY OF TENNESSEE
ATOMIC ENERGY COMMISSION

AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

RESTRICTED

VETERINARY NECROPSY PROTOCOL*

PROJECT AEC Special

DATE 10-14-53

CONTRIBUTOR Bush-Kern

IDENTIFICATION

<u>Urine</u> Species <u>Horse</u> Hours intervening between death and autopsy	<u>?</u> Breed <u>FS</u> Other applicable identification (Owner's name, color, identifying mark, tag number)	<u>Female</u> <u>1 year</u> Sex <u>698</u> Age Necropsy Number
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CLINICAL DIAGNOSES:

None

NECROPSY DIAGNOSES:

None

CLINICAL ABSTRACT

This yearling lamb was raised in Cedar City, Utah and had never been out of the valley. The history of its mother's movements is unknown.

194

*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

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ER. (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

No thyroid saved

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus)

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

REPRODUCTIVE SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

HEAD:

BRAIN:

SPINAL CORD:

BONE MARROW:

BONES & JOINTS:

MUSCULATURE:

BACTERIOLOGIC EXAMINATIONS

CHEMICAL EXAMINATIONS

Foot bones saved for radiochemical analysis for strontium and yttrium.

REMARKS

Signature

Blocks of tissue cut 0.5 to 1.0 cm. thick, should be fixed in liberal quantities (10 times the volume of tissue) of neutral 10% formalin. Specimens should be submitted from each organ or structure, regardless of presence of gross lesions.

THE UNIVERSITY OF TENNESSEE
ATOMIC ENERGY COMMISSION
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AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

VETERINARY NECROPSY PROTOCOL*

PROJECT Special REC

DATE 10-11-53

CONTRIBUTOR Eust. T. T. T.

IDENTIFICATION

Canine

?

Female

1 yr

None Species

29

Sex 699 Age

Hours intervening
between death and
autopsy

Other applicable identification
(Owner's name, color, identi-
fying mark, tag number)

Necropsy Number

CLINICAL DIAGNOSES:

None

NECROPSY DIAGNOSES:

None

CLINICAL ABSTRACT

This yearling had ranged in Nevada in an area near the atomic detonation.

196

*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

GROSS FINDINGS*

GENERAL: (Weight, condition of cadaver, hair coat, body orifices, scars, wounds, superficial tumors, etc.)

Abscess of skin of back - sample saved.

PRIMARY INCISION: (Subcutaneous fat, muscles, peritoneum, position of viscera, body lymph nodes, etc.)

Lymph nodes of viscera and axilla large and dark. On cut section moist, with pinkish periphery and very dark medullary portion

RESPIRATORY SYSTEM: (Larynx trachea, bronchi, lymph nodes, lung, pleura.)

HEART: (Pericardium, epicardium, myocardium, endocardium, valves, coronary vessels.)

AORTA, BLOOD & LYMPH VESSELS:

SPLEEN:

Not unique.

*If additional space is required under any particular heading, continue where space is available or append additional sheets.

LIVER: (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

~~Thyroid not unique~~

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus)

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

GENITAL SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

HEAD:

BRAIN:

SPINAL CORD:

BONE MARROW:

BONES & JOINTS:

MUSCULATURE:

BACTERIOLOGIC EXAMINATIONS

CHEMICAL EXAMINATIONS

Feet bones saved for radiochemical analysis for strontium and yttrium.

REMARKS

Signature

Blocks of tissue cut 0.5 to 1.0 cm. thick, should be fixed in liberal quantities (10 times the volume of tissue) of neutral 10% formalin. Specimens should be submitted from each organ or structure, regardless of presence of gross lesions.

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ATOMIC ENERGY COMMISSION

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AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

VETERINARY NECROPSY PROTOCOL*

PROJECT AEC Special

DATE 10-11-53

CONTRIBUTOR Post-Test

IDENTIFICATION

Crine

?

Female

1 year

None Species

510

Sex 700 Age

Hours intervening
between death and
autopsy.

Other applicable identification
(Owner's name, color, identi-
fying mark, tag number)

Necropsy Number

CLINICAL DIAGNOSES:

None

NECROPSY DIAGNOSES:

None

CLINICAL ABSTRACT

This animal ran in Nevada near the atomic bomb test site.

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*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

GROSS FINDINGS*

GENERAL: (Weight, condition of cadaver, hair coat, body orifices, scars, wounds, superficial tumors, etc.)

PRIMARY INCISION: (Subcutaneous fat, muscles, peritoneum, position of viscera, body lymph nodes, etc.)

The lymph nodes from the viscera and axilla are large and dark. On cut section they are dark centrally, but pinkish gray on the cortical portion.

RESPIRATORY SYSTEM: (Larynx trachea, bronchi, lymph nodes, lung, pleura.)

* hilar lymph node is swollen and filled with a creamy pus.

HEART: (Pericardium, epicardium, myocardium, endocardium, valves, coronary vessels.)

AORTA, BLOOD & LYMPH VESSELS:

SPLEEN:

Not unique.

*If additional space is required under any particular heading, continue where space is available or append additional sheets.

LIVER: (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

Thyroid not unique

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus).

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

GENITAL SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

HEAD:

BRAIN:

SPINAL CORD:

BONE MARROW:

BONES & JOINTS:

MUSCULATURE:

BACTERIOLOGIC EXAMINATIONS

CHEMICAL EXAMINATIONS

Feet bones are saved for radiochemical examination for strontium and yttrium.

REMARKS

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Signature

Blocks of tissue cut 0.5 to 1.0 cm. thick, should be fixed in liberal quantities (10 times the volume of tissue) of neutral 10% formalin. Specimens should be submitted from each organ or structure, regardless of presence of gross lesions.

THE UNIVERSITY OF TENNESSEE
ATOMIC ENERGY COMMISSION

~~RESTRICTED~~
Valmies

RESTRICTED
AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

VETERINARY NECROPSY PROTOCOL*

PROJECT Special APC

DATE 10-14-53

CONTRIBUTOR Must-Town

IDENTIFICATION

Ovine

#4

F

6 Mo.

None Species

Breed

Sex 694 Age

Hours intervening
between death and
autopsy

Other applicable identification
(Owner's name, color, identi-
fying mark, tag number)

Necropsy Number

CLINICAL DIAGNOSES:

None

NECROPSY DIAGNOSES:

None

CLINICAL ABSTRACT

Animal was a bottle fed "doggie" born the past spring from a mother which had never been out of the Cedar City Utah Valley and had not been exposed to nearby atomic detonation fallout.

200

*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

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GROSS FINDINGS*

GENERAL: (Weight, condition of cadaver, hair coat, body orifices, scars, wounds, superficial tumors, etc.)

PRIMARY INCISION: (Subcutaneous fat, muscles, peritoneum, position of viscera, body lymph nodes, etc.)

Visceral and maxillary lymph nodes large and somewhat dark. On cut section they were moist and grayish pink in color.

RESPIRATORY SYSTEM: (Larynx trachea, bronchi, lymph nodes, lung, pleura.)

HEART: (Pericardium, epicardium, myocardium, endocardium, valves, coronary vessels.)

AORTA, BLOOD & LYMPH VESSELS:

SPLEEN:

Not unique

*If additional space is required under any particular heading, continue where space is available or append additional sheets.

LIVER: (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

Thyroid not unique

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus)

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

GENITAL SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

HEAD:

BRAIN:

SPINAL CORD:

BONE MARROW:

BONES & JOINTS:

MUSCULATURE:

BACTERIOLOGIC EXAMINATIONS

CHEMICAL EXAMINATIONS

Bones from feet saved for radio-chemical examination for radioyttrium and radiostrontium.

REMARKS

Signature

Blocks of tissue cut 0.5 to 1.0 cm. thick, should be fixed in liberal quantities (10 times the volume of tissue) of neutral 10% formalin. Specimens should be submitted from each organ or structure, regardless of presence of gross lesions.

THE UNIVERSITY OF TENNESSEE
ATOMIC ENERGY COMMISSION

W. H. H. H.

RESTRICTED

AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

VETERINARY NECROPSY PROTOCOL*

PROJECT AEC Special

DATE 10-14-53

CONTRIBUTOR East-Town

IDENTIFICATION

Cvine

2

Female 6 mo.

Species

None

Sex 655 Age

None

None

655

Hours intervening
between death and
autopsy:

Other applicable identification
(Owner's name, color, identi-
fying mark, tag number)

Necropsy Number

CLINICAL DIAGNOSES:

None

NECROPSY DIAGNOSES:

None

CLINICAL ABSTRACT

This lamb was a bottle fed "doggie" born the past spring. Neither it nor it's mother had been near any atomic detonation fall out, but had spent their entire life in the valley about Cedar City, Utah.

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*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

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GROSS FINDINGS*

GENERAL: (Weight, condition of cadaver, hair coat, body orifices, scars, wounds, superficial tumors, etc.)

PRIMARY INCISION: (Subcutaneous fat, muscles, peritoneum, position of viscera, body lymph nodes, etc.)

Visceral lymph nodes large and dark. On cut section they were moist and of a gray-pink color.

RESPIRATORY SYSTEM: (Larynx trachea, bronchi, lymph nodes, lung, pleura.)

HEART: (Pericardium, epicardium, myocardium, endocardium, valves, coronary vessels.)

AORTA, BLOOD & LYMPH VESSELS:

SPLEEN:

Not unique.

*If additional space is required under any particular heading, continue where space is available or append additional sheets.

LIVER: (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

~~Thyroid not unique~~

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus)

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

GENITAL SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

HEAD:

BRAIN:

SPINAL CORD:

BONE MARROW:

BONES & JOINTS:

MUSCULATURE:

BACTERIOLOGIC EXAMINATIONS

CHEMICAL EXAMINATIONS

REMARKS

Feet bones saved for radiochemical analyses for strontium and yttrium

Signature

Blocks of tissue cut 0.5 to 1.0 cm. thick, should be fixed in liberal quantities (10 times the volume of tissue) of neutral 10% formalin. Specimens should be submitted from each organ or structure, regardless of presence of gross lesions.

THE UNIVERSITY OF TENNESSEE

ATOMIC ENERGY COMMISSION

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AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

VETERINARY NECROPSY PROTOCOL*

PROJECT Special AEC

DATE 10-14-53

CONTRIBUTOR Hust-Turn

IDENTIFICATION

<u>Ovine</u>	<u>?</u>	<u>Female</u>	<u>6 mo.</u>
Species		Sex	Age
<u>None</u>	<u>Band #2</u>	<u>6y2</u>	<u>Age</u>
Hours intervening between death and autopsy	Other applicable identification (Owner's name, color, identifying mark, tag number)	Necropsy Number	

CLINICAL DIAGNOSES:

None

NECROPSY DIAGNOSES:

None

CLINICAL ABSTRACT

Bottle fed "Doggie" lamb born previous spring, raised in Cedar City, Utah Valley. It is not thought that either the mother or this animal were ever subjected to fall out from near an atomic detonation.

204

*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

GROSS FINDINGS*

GENERAL: (Weight, condition of cadaver, hair coat, body orifices, scars, wounds, superficial tumors, etc.)

PRIMARY INCISION: (Subcutaneous fat, muscles, peritoneum, position of viscera, body lymph nodes, etc.)

Visceral and maxillary lymph nodes were large. On cut sections they were pinkish gray and moist on the cut surface.

RESPIRATORY SYSTEM: (Larynx trachea, bronchi, lymph nodes, lung, pleura.)

HEART: (Pericardium, epicardium, myocardium, endocardium, valves, coronary vessels.)

AORTA, BLOOD & LYMPH VESSELS:

SPLEEN:

Some capsular petechia.

*If additional space is required under any particular heading, continue where space is available or append additional sheets.

LIVER: (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

~~The thyroid~~ was not unique.

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus)

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

GENITAL SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

HEAD:

BRAIN:

SPINAL CORD:

BONE MARROW:

BONES & JOINTS:

MUSCULATURE:

BACTERIOLOGIC EXAMINATIONS

CHEMICAL EXAMINATIONS

Bones of feet were saved for radiochemical examination for radiostrontium and radioyttrium.

REMARKS

Signature

Blocks of tissue cut 0.5 to 1.0 cm. thick, should be fixed in liberal quantities (10 times the volume of tissue) of neutral 10% formalin. Specimens should be submitted from each organ or structure, regardless of presence of gross lesions.

THE UNIVERSITY OF TENNESSEE
ATOMIC ENERGY COMMISSION

RESTRICTED

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RESTRICTED
AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

VETERINARY NECROPSY PROTOCOL*

PROJECT Special AEC

DATE 10-11-53

CONTRIBUTOR East-Texas

IDENTIFICATION

Ovine

?

F

6 mos.

None Species

reed 73

Sex 693 Age

Hours intervening
between death and
autopsy

Other applicable identification
(Owner's name, color, identi-
fying mark, tag number)

Necropsy Number

CLINICAL DIAGNOSES:

None

NECROPSY DIAGNOSES:

None

CLINICAL ABSTRACT

This animal was a bottle fed "doggie" born the past spring in the Cedar City, Utah Valley. It was said that neither it nor its mother had been subjected to nearby atomic detonation fall out.

206

*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

RESTRICTED

GROSS FINDINGS*

GENERAL: (Weight, condition of cadaver, hair coat, body orifices, scars, wounds, superficial tumors, etc.)

PRIMARY INCISION: (Subcutaneous fat, muscles, peritoneum, position of viscera, body lymph nodes, etc.)

Lymph node from viscera was dark and large. On cut section it was moist and grayish pink.

RESPIRATORY SYSTEM: (Larynx trachea, bronchi, lymph nodes, lung, pleura.)

HEART: (Pericardium, epicardium, myocardium, endocardium, valves, coronary vessels.)

AORTA, BLOOD & LYMPH VESSELS:

SPLEEN:

Not unique.

*If additional space is required under any particular heading, continue where space is available or append additional sheets.

LIVER: (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

Thyroid not saved through oversight.

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus)

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

GENITAL SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

HEAD:

BRAIN:

SPINAL CORD:

BONE MARROW:

BONES & JOINTS: _____

MUSCULATURE:

BACTERIOLOGIC EXAMINATIONS

CHEMICAL EXAMINATIONS

3 ones of the feet save for radiochemical analysis for radiostrontium and radioyttrium.

REMARKS

Signature

Blocks of tissue cut 0.5 to 1.0 cm. thick, should be fixed in liberal quantities (10 times the volume of tissue) of neutral 10% formalin. Specimens should be submitted from each organ or structure, regardless of presence of gross lesions.

THE UNIVERSITY OF TENNESS
ATOMIC ENERGY COMMISSION

Valines

RESTRICTED

AGRICULTURAL RESEARCH PROGRAM

ADDRESS:

VETERINARY NECROPSY PROTOCOL*

PROJECT Special EC

DATE 10-14-53

CONTRIBUTOR Post-Tum

IDENTIFICATION

Ovies

?

Female aged

None Species

701

Sex 701 Age

Hours intervening
between death and
autopsy

Other applicable identification
(Owner's name, color, identi-
fying mark, tag number)

Necropsy Number

CLINICAL DIAGNOSES: None

NECROPSY DIAGNOSES: None

CLINICAL ABSTRACT

Location of this aged ewe was uncertain but it was believed by Mr. Clark that this animal was suffering from radiation injury therefore probably was near atomic bomb test site at time of detonation.

208

*See suggestions outlined in Veterinary Post Mortem Procedures, published by the Army Institute of Pathology, 1947.

GROSS FINDINGS*

GENERAL: (Weight, condition of cadaver, hair coat, body orifices, scars, wounds, superficial tumors, etc.)

Skin of face saved for examination of round lesion (3 cm) which owner felt was radiation induced.

PRIMARY INCISION: (Subcutaneous fat, muscles, peritoneum, position of viscera, body lymph nodes, etc.)

Lymph nodes from maxilla and viscera were slightly swollen and moist and dark on cut surface

RESPIRATORY SYSTEM: (Larynx trachea, bronchi, lymph nodes, lung, pleura.)

HEART: (Pericardium, epicardium, myocardium, endocardium, valves, coronary vessels.)

AORTA, BLOOD & LYMPH VESSELS:

SPLEEN: Not unique.

*If additional space is required under any particular heading, continue where space is available or append additional sheets.

LIVER: (Gallbladder, bile ducts)

ENDOCRINE GLANDS: (Thyroid, parathyroid, thymus, pituitary, pancreas, adrenals, pineal)

Thyroid not unique.

GASTROINTESTINAL TRACT: (Mouth, tongue, esophagus, stomach, small intestine, cecum, colon, rectum and anus)

URINARY SYSTEM: (Kidneys, ureters, bladder, urethra)

GENITAL SYSTEM: (Testis, epididymis, spermatic cord, prostate, seminal vesicles and bulbo-urethral glands, penis, ovaries, oviducts, uterus, cervix, vagina, vulva)

Metritis - no tissue saved.