AUTOPSY - INTRAUTERINE DEMISE PROTOCOL

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UCLA DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE **AUTOPSY SERVICE**

IPLEASE USE ADDITIONAL SHEETS AS NEEDED TO FULLY DESCRIBE

The state of the s
ABNORMAL FINDINGSJ
[Please insert these six lines at the beginning of both the PAD and FAD]
Mother's name:
Mother's MRN:
Approximate date of fetal demise, if known:
Date and time of delivery:
Date and time of autopsy: Post-mortem interval:
1 OSE-MOREM MICE Val.
[Please wrap the individual 'fill-in-the-blank' lines into paragraph format]
The body is that of a <i>male/female</i> infant weighing g., approximately *** percentile
for gestational age
The crown-rump length is cm and the crown-heel, cm. The occipito-frontal
circumference is cm.
Maceration is absent/mild/moderate/severe with .
Rigor is absent/mild/moderate/severe.
Lividity is absent/mild/moderate/severe (state site)
Edema is absent/focal/global (fetal hydrops).
The head is normo/micro/macro cephalic with/without molding or caput succedaneum.
The anterior fontanelle is x cm, the posterior fontanelle is x
cm, and the cranial sutures are overriding/mobile/normal.
The eyes are normally spaced/show hypertelorism; the inner canthal distance is cm
and the outer canthal distance cm.
The palpebral fissures are normal/upslanted/ downslanted, and the eyelids are
fused/separate.
The pupils are equal or unequal and measure and on the left and right

sides, respectively. [measure only if unequal]

The sclerae are white/discolored ; the corneas are clear/cloudy; and the irides are dark/light/The ears are not low set or posteriorly rotated. The pinna are soft/folded/firm The nose is normally formed.

The mouth is *edentulous*.

The lip and palate are intact.

The philtrum measures 0. cm.

The thorax appears *symmetric/distorted/narrow/broad*. The chest circumference is cm. The internipple distance is

The abdomen is *flat/scaphoid/protuberant/markedly distended*. The abdominal circumference is cm. There is *no/an* omphalocele or abdominal wall defect.

[Measure if present]

The segment of umbilical cord, measures x cm, and vessels are identified.

The back appears normal. No exposed neural tube defect or abnormal spinal curvature are present.

The anus is *patent/imperforate*.

The external genitalia are normally formed for a male/female. Both/right/left testes/ testis are/is in the scrotum.

Inguinal hernia is *absent/present*.

Extremities are unremarkable without contractures, syndactyly, polydactyly or clinodactyly. No palmar crease or sandal toe deformity are present. The foot length is cm. .

There are no other findings on external examination or .

A fetal radiograph was obtained which shows

The usual Y-shaped thoracoabdominal incision and U-shaped biparietal scalp incisions are made.

PERITONEAL CAVITY: The peritoneal surfaces are *smooth and dusky/glistening*.

The peritoneal cavity contains ml (or no fluid) of

clear/cloudy/yellow/serosanguineous fluid/or blood.

The liver is normally configured and is anatomically normally situated.

The spleen is normally configured and is anatomically normally situated.

The stomach is externally unremarkable/distended

The bowel is normally rotated without redundant mesentery such that the small intestine and large intestine are normally situated and the appendix is the in the *right lower quadrant/pelvis*.

The mesenteric lymph nodes are inconspicuous/unremarkable/diffusely enlarged.

PLEURAL CAVITIES: The visceral and parietal pleural surfaces are *smooth and dusky/shiny with/without petechiae*.

The right pleural cavity contains ml of clear/serous/serosanguineous fluid (or

blood) or no fluid.

The left pleural cavity contains ml of clear/serous/serosanguineous fluid (or

blood) or no fluid.

The lungs occupy 95% of their respective pleural cavities.

The right lung has ____lobes and the left lung has ____lobes.

PERICARDIAL CAVITY: The pericardial surfaces are *smooth and dusky/shiny*.

The cavity is free from adhesions and contains *ml of clear/serous/serosanguineous fluid (or blood)* or *no fluid.*

CARDIOVASCULAR SYSTEM:

HEART: The heart weighs g. The viscero-atrial situs is *solitus/inversus/ambiguous*.

There is a D ventricular loop with the cardiac apex and left ventricle to the left and a solitus relationship of the great arteries with the pulmonary artery anterior and to the right of the aorta.

(If other than "solitus", "D", and "solitus", describe more thoroughly the site of the apex, position and relationship of the ventricles, and great arteries).

The epicardium is smooth without/with a scant amount of adipose tissue.

There are/no epicardial petechiae.

The atria are/do not appear distended.

The foramen ovale is patent.

The valve of the foramen ovale appears *sufficient/fenestrated/deficient* over the ostium. There is no atrial septal defect.

The coronary sinus ostium is normal in size and location.

The mural and valvular endocardium is smooth and dusky/translucent/white.

The atrioventricular valves are thin and delicate with normal appearing chordae tendineae.

Both semilunar valves contain three cusps.

The ventricular chambers are not dilated.

The myocardium is brown and unremarkable.

There is no ventriculoseptal defect.

The measurements of the heart in cm are as follows:

Tricuspid Valve cm, Pulmonic Valve cm, Mitral Valve cm, Aortic Valve cm, Right Ventricular Myocardial wall cm, Left Ventricular Myocardial wall cm.

The venae cavae enter the right atrium

The ductus venosus is patent.

All four pulmonary veins enter the left atrium; there is no anomalous pulmonary venous connection.

The coronary ostia are in normal position.

The coronary arteries have a *right/left/dominant* or aberrant distribution on the epicardial surface.

The great vessels arise from a *left/right* sided aortic arch in a normal manner.

The caliber of the ascending aorta is normal, and there is no aortic coarctation.

The ductus arteriosus is patent.

The branch pulmonary arteries arise normally from the pulmonary trunk and are of normal caliber.

RESPIRATORY SYSTEM:

The trachea and major bronchi are lined by *smooth/tan/purple/* mucosa, their lumens contain fluid. There is no tracheal-esophageal fistula.

LUNGS: The weight of the lungs is: right g; left g. The cut surfaces *are airless/hemorrhagic*. The intraparenchymal bronchi and vessels appear normal. There are no cysts or localized lesions.

HEMATOPOIETIC AND LYMPHATIC SYSTEM:

The thymus weighs g.

The external surface is *ivory/rose colored* and lobulated *without/with* petechiae.

The cut surfaces are soft and unremarkable.

SPLEEN: The spleen weighs g.

The capsule is dusky/shiny.

On section the parenchyma is *soft and deep red* without localized lesions

The Malpighian corpuscles are inconspicuous.

The lymph nodes are inconspicuous/tan and soft.

Bone marrow is red.

GASTROINTESTINAL SYSTEM:

The mucosa of the esophagus is *grey with longitudinal folds* and its lumen *is empty/contains* fluid.

The mucosa of the stomach is *unremarkable or* and its lumen contains .

The length of the small bowel is cm, the large bowel is cm. The mucosa of the small intestine is *unremarkable* and its lumen contains . There is no Meckel diverticulum.

The mucosa of the large intestine is *unremarkable* and its lumen contains *green meconium*.

LIVER: The liver weighs g.

The capsule is dull/shiny and smooth/disrupted

On section the parenchyma is homogenous and brown without cysts, other localized lesions or fibrosis.

The bile, which is green, is freely expressed from the gallbladder into the duodenum or Patency of the extrahepatic bile ducts is evident by the presence of green meconium in the intestines. No calculi are noted.

PANCREAS: The pancreas is tan and coarsely lobulated. On section, *it is light tan and otherwise unremarkable*.

ENDOCRINE SYSTEM:

ADRENALS: The weight of the adrenals is: right g; left g. They are normally shaped. The cut surfaces reveal bright yellow fetal cortex and thin brown central zones.

GENITO-URINARY SYSTEM:

OR

KIDNEYS: The weight of the kidneys is: right g; left g.

The renal arteries and veins are free from thrombi. The capsules strip easily from the *smooth* renal surfaces that exhibit fetal lobulations.

On section the cortex and medulla are *clearly* demarcated. There are no cysts or localized lesions.

The renal pelves and ureters are lined by grey, translucent mucosa.

BLADDER: The mucosa of the bladder is *ivory*. The ureteral orifices and urethra at the trigone are normal. The urachus is *closed/patent*.

GENITALIA: The prostate gland is small, firm and reveals no gross abnormalities. The testes are *descended in the scrotum/in the inguinal canal/intra-abdominal*.

The vaginal mucosa is unremarkable. The uterus, cervix and fallopian tubes have a normal infantile appearance with an elongated cervix and small fundus. The ovaries are thin *with small/without* cysts.

ORGANS OF THE NECK: The thyroid and larynx reveal no gross abnormalities. The submaxillary glands are *tan and unremarkable*. (Delete if not examined) # parathyroids are identified. (Delete if not examined)

BRAIN: The soft tissues of the scalp are *unremarkable/edematous/hemorrhagic*. The sutures *are separated by cm*.

The brain is initially examined fresh; it weighs . Please see the Neuropathology Report, when issued, for further description.

(Delete if not applicable – Confirm description with the NeuroPath Fellow) The dura mater is *unremarkable*. The dural sinuses are *free from thrombi*.

The falx cerebri and the tentorium cerebelli are *intact*. The pia arachnoid is *clear*. There is *no* subarachnoid *hemorrhage nor exudate*. The convolutions and sulci are *appropriate for gestational age*.

The middle ears are not examined.

A segment of the *thoracoabdominal* spinal cord is removed by the anterior approach and reveals *no gross abnormalities*.

The pituitary gland is unremarkable.

MUSCULO-SKELETAL SYSTEM:

BONES: The vertebral bodies are *normally formed*, the joint spaces are *unremarkable*, and the marrow space is *deep red*. *No other bones are examined*.

ADDITIONAL AREAS OF DISSECTION OR SPECIAL STUDIES:

Placental Examination (S):

PHOTOGRAPHS:

MICROSCOPIC BLOCKS TAKEN:

AUTHOR: Typist

Date

WEIGHTS AND MEASUREMENTS WITH REFERENCE RANGES

(Paste in the output from the Gestational Age Anthropometry Website)

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Matthew D. Cain, Joseph R. Siebert, Egiebade Iriabho, Alexander Gruneberg, Jonas S. Almeida, and Ona Marie Faye-Petersen (2015) Development of Novel Software to Generate Anthropometric Norms at Perinatal Autopsy. Pediatric and Developmental Pathology: May/June 2015, Vol. 18, No. 3, pp. 203-209.