



CMHD Pathology Report



CMHD Pathology Core

Toronto Centre for
Phenogenomics
25 Orde St. 3rd fl.
Toronto, Ont. M5T 3H7
Tel.(416) 586-8375
Fax (416) 586-5993

contact: Dr. Susan
Newbigging
email:
newbigging@lunenfeld.ca

Principle Investigator: Dr. Jacqui White

Institute: Wellcome Trust Sanger Institute
Address: Attn: Linda Read Wellcome Trust
Genome Campus Hinxton Cambridge CB10
1SA, UK

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Pathologist: H. Adissu

Mouse Genetics Project

Wellcome Trust Sanger
Institute
Wellcome Trust Genome
Campus
Hinxton, Cambridge
CB10 1SA
UK

email:
MGPenquiries@sanger.ac.uk
[Mouse Portal](#)
[Europhenome](#)

CMHD LabID: N12-1510

Relevant History:

Phenotypes:

decreased CD8-positive T cell number
decreased NK T cell number
decreased NK cell number
integument phenotype
increased susceptibility to infection induced morbidity/mortality
increased susceptibility to bacterial infection induced morbidity/mortality

AnimalID: M00184978 (Male)

Histopathology Findings:

liver (MA:0000358)

Histopath Description:

Multifocal macrovesicular lipid deposition in hepatocytes

Morphological Diagnosis:

Distribution: multifocal; **Severity:** moderate; **MPATH Diagnosis:** steatosis MPATH:622

Definitive Diagnosis:

Moderate hepatic steatosis

stomach (MA:0000353)

Histopath Description:

Moderate neutrophilic gastritis.

Morphological Diagnosis:

Distribution: multifocal to coalescing; **Severity:** moderate; **MPATH Diagnosis:** inflammation MPATH:212

Definitive Diagnosis:

Neutrophilic gastritis

AnimalID: M00184982 (Male)

Histopathology Findings:

liver (MA:0000358)

Morphological Diagnosis:

Distribution: diffuse; **Severity:** severe; **MPATH Diagnosis:** steatosis MPATH:622

Definitive Diagnosis:

Hepatic lipodosis, severe

adrenal gland (MA:0000116)**Histopath Description:**

There is a small, well-circumscribed mass in the cortex. It is encapsulated by a thin layer of pale eosinophilic material and fusiform cells (connective tissue with fibroblasts) and is made of nests of polygonal cells interspersed by a very thin fibrovascular membrane. The architecture is reminiscent of the zona glomerulosa and zona fasciculate of the mature adrenal gland.

Morphological Diagnosis:

Distribution: focal; **MPATH Diagnosis:** choristoma MPATH:477

Definitive Diagnosis:

accessory adrenal cortical tissue

lymph node (MA:0000139)**Histopath Description:**

The mesenteric lymph node is enlarged (greater than three-fold). There are multiple follicles with large germinal centers. The sinuses contain large numbers of mature lymphocytes.

Morphological Diagnosis:

Duration: Sub-acute; **Distribution:** Diffuse; **Severity:** moderate;

Definitive Diagnosis:

Lymphoid hyperplasia.

Histopathology Comments:

The changes in the mesenteric lymph node are suggestive of draining of a regional inflammatory process. However, such a process was not observed in the tissues examined.

AnimalID: M00184987 (Female)**Histopathology Findings:****liver (MA:0000358)****Histopath Description:**

Multifocal macrovesicular lipid deposition in hepatocytes

Morphological Diagnosis:

Distribution: multifocal; **Severity:** moderate; **MPATH Diagnosis:** steatosis MPATH:622

Definitive Diagnosis:

Moderate hepatic steatosis

lymph node (MA:0000139)**Histopath Description:**

The mesenteric lymph node is enlarged (greater than three-fold). There are multiple follicles with large germinal centers. The sinuses contain large numbers of mature lymphocytes.

Morphological Diagnosis:

Duration: Sub-acute; **Distribution:** Diffuse; **Severity:** moderate; **MPATH Diagnosis:** hyperplasia MPATH:134

Definitive Diagnosis:

Lymphoid hyperplasia.

Histopathology Comments:

The changes in the mesenteric lymph node are suggestive of draining of a regional inflammatory process. However, such a process was not observed in the tissues examined.

AnimalID: M00184984 (Female)**Histopathology Findings:****liver (MA:0000358)****Morphological Diagnosis:**

Distribution: diffuse; **Severity:** severe; **MPATH Diagnosis:** steatosis MPATH:622

Definitive Diagnosis:

Hepatic lipidosi, severe

thymus (MA:0000142)**Histopath Description:**

There is a 100 um diameter epithelial cyst.

Morphological Diagnosis:

Distribution: focal; **MPATH Diagnosis:** cyst MPATH:62

Definitive Diagnosis:

Epithelial cyst

brain (MA:0000168)**Histopath Description:**

Mild hydrocephalus.

Morphological Diagnosis:

MPATH Diagnosis: hydrocephalus MPATH:639

Definitive Diagnosis:

Mild hydrocephalus of the lateral ventricles

spleen (MA:0000141)**Histopath Description:**

marked erythroid hyperplasia. Lymphoid follicles are enlarged with many of them having germinal centres.

Morphological Diagnosis:

Severity: moderate; **MPATH Diagnosis:** extramedullary hemopoiesis MPATH:595

Definitive Diagnosis:

extramedullary erythroid hyperplasia; lymphoid hyperplasia

bone marrow (MA:0000134)**Histopath Description:**

Marrow cellularity is estimated at 80-90%. Erythroid cells are markedly increased with myeloid to erythroid ratio ranging from 2:1 to 3:1 (normal ME ratio is 4:1 to 6:1 in controls). Megakaryocytes are present within normal limits. All cell lineages appear to have synchronous maturation.

Morphological Diagnosis:

Distribution: generalized; **Severity:** mild; **MPATH Diagnosis:** hyperplasia MPATH:134

Definitive Diagnosis:

Erythroid hyperplasia

Report Summary and Recommendation:

Incidental lesions attributable to diet or strain background are observed in this line.