University of Mosul Lecture No.: 1 College of Veterinary Medicine

Date: 2024-2025

**Unit of Scientific Affairs** 

Website: https://uomosul.edu.iq/veterinarymedicine/

Lecture title: Disturbances of Growth Cell Adaptation

Lecturer Affiliation: University of Mosul / College of Veterinary Medicine /

**Department of Pathology and Poultry Diseases/** 

**Assistant lecturer Atheer Nabeel Taha** 

Diagnosis: Hyperplasia (Coccidiosis in rabbit).

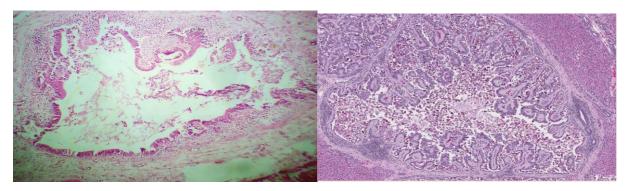
Organ: Liver, bile duct.

Stain: hematoxylin and eosin (H&E)

## **Lesions:**

1. Presence of different stages of parasite (Coccidia) that leads to chronic irritation.

- 2. Increase in the number of epithelial cells lining the biliary canaliculi which appear as finger projection that lead to stenosis of the lumen.
- 3. Infiltration of inflammatory cells (eosinophils).



University of Mosul Lecture No.: 1

**College of Veterinary Medicine** 

Date: 2024-2025

**Unit of Scientific Affairs** 

Website: <a href="https://uomosul.edu.iq/veterinarymedicine/">https://uomosul.edu.iq/veterinarymedicine/</a>

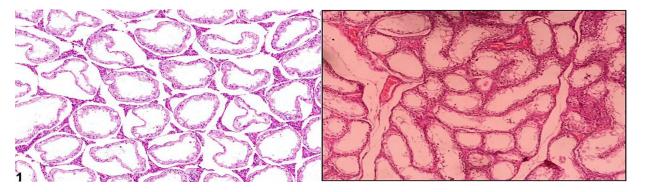
Diagnosis: Atrophy.

Organ: testes of rabbit.

Stain: H&E

## **Lesions:**

- 1. Decrease in the number of seminiferous tubules.
- 2. Edema between seminiferous tubules.
- 3. Arrest of spermatogenesis & there are no sperms in the lumen of seminiferous tubules.
- 4. Different size and shape of seminiferous tubules.



Diagnosis: Hypertrophy.

Organ: Heart.

## Lesions:

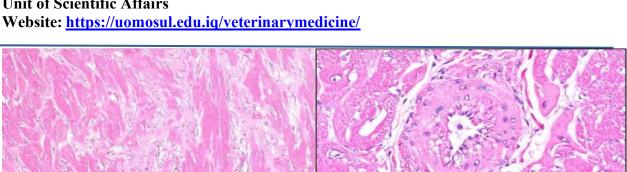
- 1. Cardiomyocytes are irregularly arranged.
- 2. Cardiomyocytes are enlarged with abundant. eosinophilic cytoplasm and a large vesicular central nucleus.
- 3. The tunica media of intramyocardial vessels is expanded by hypertrophic smooth muscle cells.

**University of Mosul** Lecture No.: 1

**College of Veterinary Medicine** 

Date: 2024-2025

**Unit of Scientific Affairs** 



Diagnosis: Metaplasia.

Organ: Liver.

Stain: H&E

## **Lesions:**

1. Disappearance of normal architecture of hepatic tissue.

2. Transformation of hepatic tissue into fibrous tissue.

3. There is infiltration of mononuclear inflammatory cells.

4. Transformation of hepatic tissue to bone lamellae.

