Veterinary Bioscience: Metabolism

WEEK 3 – THE LIVER IN DISEASE
PRACTICAL CLASS 3 – CLINICAL PATHOLOGY IN THE ASSESSMENT OF THE LIVER

TEACHING STAFF

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LOCATION

Live Online Zoom Session

INTENDED LEARNING OUTCOMES

By the end of this practical class, you should be able to:

- select appropriate clinical pathology laboratory tests for the detection of liver disease in the major domestic animal species
- interpret clinical pathology laboratory test results to identify active and chronic hepatopathies
- distinguish the various causes of hyperbilirubinaemia using laboratory test results.

PRACTICAL OVERVIEW

This workshop will explore the role of clinical pathology tests in the diagnosis of various types of liver disease using clinical case material in various domestic animal species.

Examples will include cases of:

- active hepatopathy
- chronic hepatopathy
- jaundice
- hypoalbuminaemia.

KEYWORDS

alanine aminotransferase (ALT), aspartate aminotransferase (AST), glutamate dehydrogenase (GLDH), sorbitol dehydrogenase (SDH), lactate dehydrogenase (LDH), alkaline phosphatase (ALP), gamma glutamyl transferase (GGT), cholestasis, bilirubin, hyperbilirubinaemia, bilirubinuria, jaundice/icterus, bile acids, albumin, urea, glucose, cholesterol, coagulation factors, ammonia, microcytosis, acanthocytes, ammonium biurate crystals

FURTHER READING

Latimer KS. *Duncan and Prasse's Veterinary Laboratory Medicine. Clinical Pathology.* 5th ed. Chapter 7

McGavin MD and Zachary JF (eds). *Pathologic Basis of Veterinary Disease*. 5th ed. Chapter 8

Stockham SL and Scott MA. *Fundamentals of Veterinary Clinical Pathology.* 2nd ed. Chapters 12 and 13