



Poultry histopathology

ECTS: 1.00

SUBJECT MATTER CONTENT

LECTURE

Discussion of most often diagnosed disease in poultry practice, with particular emphasis on macroscopic and microscopic changes. The role of the result of the histopathological examination as evidence of the presence of a specific disease entity and, consequently, the role of the result of the histopathological examination in compensation proceedings.

CLASSES

Autopsy of breeding birds - in particular, the collection of all tissues and organs for histopathological examination. Creating microscopic slides using the paraffin method. Acquainting with histo- and immunohistochemical staining used in the histopathological laboratory. Histology of tissues and organs of farm birds. Introduction to the histopathology of breeding birds. Discussion of histopathological changes diagnosed in particular bacterial, viral, parasitic, deficient, metabolic disease entities and in the case of poisoning.

TEACHING OBJECTIVE

Acquainting with histopathological examination of tissues and organs of birds, which is an excellent diagnostic tool in pathology of poultry, sometimes being the only reliable diagnostic method. The student will acquire the ability to select the appropriate material for the study depending on the suspicion of a specific disease.

DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

Symbols for outcomes related to the discipline:

R/WA_P7S+++

Symbols for outcomes related to the field of study:

B.U6. +, B.W9. +, B.U20. +, B.U23. +, B.U16. +, B.U2. +, B.W1. +, A.W12. +, B.W6. +, B.U13. +, K.9.+, K.5+, A.W1. +, K.8.+, B.W8. +, B.U21. +

LEARNING OUTCOMES:

Knowledge:

W1 – The student knows the procedures for the correct collection of internal organs for histopathological examination. He knows the appropriate histochemical and immunohistochemical staining procedures used in the diagnosis of poultry diseases. Knows and understands the mechanism of morphological changes in the course of bacterial, viral, parasitic, deficient and metabolic diseases found in breeding birds.

Skills:

Legal acts specifying learning outcomes:
682/2020
Disciplines: Veterinary science
Status of the course: Fakultatywny
Group of courses: B - przedmioty kierunkowe
Code: ISCED 0841
Field of study: Veterinary Medicine
Scope of education:
Profile of education: General academic
Form of studies: full-time
Level of studies: uniform master's studies
Year/semester: 6/11

Types of classes: Lecture, Classes
Number of hours in semester: Lecture: 6.00, Classes: 9.00
Language of instruction: Polish
Introductory subject: Pathomorphology, Diseases of Poultry
Prerequisites: Knowledge of bacterial, viral, fungal and parasitic diseases of poultry

Name of the organisational unit conducting the course: Katedra Anatomii Patologicznej
Person responsible for the realization of the course: dr hab. wet. Michał Gesek, prof. UWM
e-mail: michal.gesek@uwm.edu.pl

Additional remarks:

U1 – The student is able to correctly collect material for histopathological examination. He can make histopathological preparations obtained from birds. Is able to select the appropriate tissue material for examination depending on the type of disease (suspected disease - selection of the appropriate material for examination - examination histopathological - diagnosis of the disease).

Social competence:

K1 – The student is ready to make appropriate decisions aimed at close cooperation with animal bird breeders in order to effectively recognize bird diseases and introduce solutions aimed at reducing bird mortality.

TEACHING FORMS AND METHODS:

Lecture(W1;U1;K1;):Presentation of disease diagnosed in breeding birds. Description of macroscopic and microscopic changes occurring in given disease.

Classes(W1;U1;K1;):Autopsy of breeding birds - in particular, the collection of all tissues and organs for histopathological examination. Creating microscopic slides using the paraffin method. Microscopic diagnosis of histopathological preparations of particular disease entities - bacterial, viral, parasitic, deficient, metabolic.

FORM AND CONDITIONS OF VERIFYING LEARNING OUTCOMES:

Lecture (Exam) - Test exam - selection tests - morphological diagnosis of macroscopic and microscopic photos of individual disease entities. The grading of grades is based on the score thresholds described in the faculty procedure "Principles of grading students". In the event of a top-down suspension of classroom classes and the need for distance learning, the methods of verifying the achievement of learning outcomes declared in the syllabus, i.e. the forms of passing the exam and exercises, may be changed in a manner adequate to situation. -

Classes (Colloquium practical) - Practical test - Assessment of performing an autopsy of birds. Assessment of the morphological diagnosis of microscopic specimens from the discussed disease entities. The grading of grades is based on the score thresholds described in the faculty procedure "Principles of grading students". In the event of a top-down suspension of classroom activities and the need for distance learning, the methods of verifying the achievement of learning outcomes declared in the syllabus, i.e. the forms of passing the exam and exercises, may change in manner appropriate to the situation. -

BASIC LITERATURE:

1. Abdul-Aziz T., Fletcher O.J., Barnes H.J., *Avian Histopathology*, Wyd. AAAP 2016, R. 2016
2. Saif Y.M. , *Diseases of Poultry*, Wyd. Blackwell publishing, 2008, R. 2008

SUPPLEMENTARY LITERATURE:

1. Mazurkiewicz M, Wieliczko A., *Choroby Drobiu*, Wyd. UP Wrocław, R. 2019