



University of Sadat City
Faculty of Veterinary Medicine
Dept. of Poultry and Rabbits Medicine
(2014-2015)



Bacterial Diseases of Poultry (761P)

PHD COURSE SPECIFICATION

A. BASIC INFORMATION

University:	University of Sadat City
Faculty:	Veterinary Medicine
Program on which the course is given:	PhD in Veterinary Medical Sciences (Poultry and Rabbits Diseases)
Department offering the Course:	Poultry and Rabbits Medicine
Course code:	761P
Course title:	Bacterial Diseases of Poultry
Lecture (hr/week):	2
Practical (hr/week):	2
Course coordinator:	Dr. Alaa Gaballa

2- Professional information

1- Overall aims of course

The aim of this course is to provide the postgraduate students with up- to- date basic and advanced information and knowledge about the common bacterial diseases of poultry especially that conceding with the causes. They also understand the epidemiological patterns; pathogenesis, clinco- pathological features. Moreover, the students should have the ability of diagnosis, differential diagnosis, outline of treatment, control and prevention of these diseases in-between individual animal and farm level.

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

By the end of this course the graduate should be able to:

- a.1. Define the different bacterial diseases concepts.
- a.2. Recognize the epidemiology of bacterial diseases of poultry.
- a.3. Understand the pathogenesis and clinico-pathological and clinical character of bacterial of poultry .
- a.4. . Clarify the vaccination programs against bacterial diseases.
- a.5. Recognize the advanced different methods of diagnosis and treatment of bacterial diseases
- a.6. List factors affecting severity and occurrence of bacterial diseases.

b-Intellectual skills

By the end of this course the graduate should be able to :-

- b.1. Analysis reasons and sources of bacterial infection in poultry farms.
- b.2. Apply the proper approach for diagnosis and differential diagnosis.
- b.3. Design the biosecurity and vaccination programs to control bacterial infection in the poultry and rabbits.
- b.4. Select the most suitable and economic way of treatment and prevention of bacterial disease in poultry .
- b.5. Interpret the interaction between infectious agents ,environment and hosts.

c-Professional and practical skills

By the end of this course the graduate should be able to:

- c.1. Carry out clinical and postmortem examination.
- c.2. Carry out sampling, labeling and preservation of samples.
- c.3. Able to perform isolation and identification of bacterial agents
- c.4. Evaluate the requirements of drug dose according to sensitivity test for control the bacterial diseases
- c.5. Carry out some of serological tests used for detection of bacterial antigens or antibodies.

c.6. Able to explain the principle and limitations of a range of more advanced practical techniques
<u>d-General and transferable skill</u>
By the end of studying the course, the student should be able to
d.1. Work effectively as part of a team.
d.2. Efficiently make use of library facilities.
d.3. Explore appropriate computer / keyboard skills including word
d.4. Processing, spreadsheets, presentation packages and graph plotting.

3- Topics and contents

Topic	No. of hours		
	Lectures	Practical	Total
Fowl cholera	4	-	4
Riemerella anatipestifer infection.	4	-	4
Infectious coryza.	4	-	4
Mycoplasmosis	8	-	8
Salmonellosis	8	-	8
Colibacillosis.	8	-	8
Spirochaetosis.	4	-	4
Clostridia infections	8	-	8
Avian tuberculosis.	4	-	4
Paratyphoid infections	8	-	8
Staphylococcosis	4	-	4
Campylobacteriosis.	4	-	4
Pseudomonas infection	6	-	6
Turkeys Bordetellosis/Turkey Coryza.	8	-	8
Ornithobacterium Rhinotracheale Infection (ORT).	2	-	2
Avian Chlamydiosis.	4	-	4
Clinical examination of bacterial diseases	-	12	12
Postmortem examination	-	20	20
Collection and preservation of samples from affected poultry	-	12	12
Isolation and identification of different bacteria	-	12	12
Serological tests for bacteria	-	20	20
Sensitivity test	-	12	12
Total	88	88	176

4- Teaching and learning methods

- 4.1. Lectures.
- 4.2. Practical.
- 4.3. Self-learning activities.

5-Student assessment

A. METHODS:

1- Written examination	For assessment of knowledge, back calling and Intellectual skills
2- Practical examination	For assessment of practical and professional skill.
3- Oral examination	For assessment of knowledge and Intellectual skills
4- Student activities	For assessment of knowledge and general and transferable skills

B. MATRIXALIGNMENT OF THE MEASURED ILOs/ ASSESSMENTS METHODS:

	K.U (a)	I.S (b)	P.P.S (c)	G.S (d)
Written exam	1,2,3,4,5,6	1,2,3,4,5		
Practical exam			1,2,3,4,5,6	
Oral exam	1,2,3,4,5,6	1,2,3,4,5		
Student activities				1-4

C. WEIGHT OF ASSESSMENTS:

Assessment	Allocated Mark	Evidence
Final written exam	50%	Marked and signed written paper
Practical exam	20%	Marked and signed practical exam paper
Oral exam	20%	Signed list of oral exam marks
Student assignments	10%	Representative samples of presented materials

6- List of references

6.1. Essential books

1-Diseases of poultry 12th edition

Edited by saif,Fadly and Glisson (Iowa state University press Ames, Iowa, USA) 2008

2-Avian Medicine and Surgery

Edited by Robert B.Altman (W.B.Saunders company)1997

6.2. Recommended texts

1-Principle s of poultry Science

Edited by S.P.Rose (CAB International UK)2006

2-Poultry diseases sixth edition

Edited by frank Jordan 2008

6.3. Journals , Websitesetc

1- Poultry Science Journal

2- British poultry science Journal

3- Poultry Disease Journal

Website

J www.idexxradil.com

J www.vlfarming.com/-diseases

Course coordinator:

Dr.Alaa Abdelrazik Gaballa

Head of department:

Prof. Dr. Shaaban Gadallah

Matrix alignment of course topics and ILOs

Topic	No. of hours /week		Total hours	Hours for lect.	Hours for pract.	ILOs				T&L. methods				
	Lect.	Pract.				K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	Lect .	Pract .	Self & active learning	Audi o visua l	Case stud y
Fowl cholera	4	-	4	4		1,2,3,4,5, 6	1-5		1,2,3, 4	+	-			
Riemerella anatipestifer infection.	4	-	4	4		,2,3,4,5	1-5		1,2,3, 4	+	-			
Infectious coryza.	4	-	4	4		,2,3,4,5,6	1-5		1,2,3, 4	+	-			
Mycoplasmosis	8	-	8	8		1,2,4,6	1-5		1,2,3, 4	+	-			
Salmonellosis	8	-	8	8		4,5,6	1-5		1,2,3, 4	+	-			
Colibacillosis.	8	-	8	8		2,3,5	1-5		1,2,3, 4	+	-			
Spirochaetosis.	4	-	4	4		2,3,4,5	1-5		1,2,3, 4	+	-			
Clostridial infections	8	-	8	8		3,4,6	1-5		1,2,3, 4	+	-			
Avian tuberculosis.	4	-	4	4		2,3,4,5	1-5		1,2,3, 4	+	-			
Paratyphoid infections	8	-	8	8		2,3,4,5	1-5		1,2,3,	+	-			

									4					
Staphylococcosis	4	-	4	4		3,4,5	3,4		1,2,3,4	+	-			
Campylobacteriosis.	4	-	4	4		1,4,6	2,3		1,2,3,4	+	-			
Pseudomonas infection	6	-	6	6		1,4,6	1,3		1,2,3,4	+	-			
Turkeys Bordetellosis/Turkey Coryza.	8	-	8	8		1,4,6	2,3		1,2,3,4	+	-			
Ornithobacterium Rhinotracheale Infection (ORT).	2	-	2	2		1,4,6	3,4		1,2,3,4	+	-			
Avian Chlamydiosis.	4	-	4	4		1,4,6	1,2,3,4		1,2,3,4	+	-			
Clinical examination of bacterial diseases	-	10	10		10		2	1	1,3	-	+			
Postmortem examination	-	12	12		12		2	1	1,3	-	+			
Collection and preservation of samples from affected poultry	-	12	12		12		2	2	1,3	-	+			
Isolation and identification of different bacteria	-	12	12		12			2,3	1,3	-	+			
Serological tests for bacteria	-	20	20		20			2,4,5,6	1,3	-	+			
Sensitivity test	-	12	12		12			1,3,4,6	1,3	-	+			
Total			176	88	88									

