



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



# Bacterial Diseases of Poultry (761M)

## MASTER COURSE SPECIFICATION

### A. BASIC INFORMATION

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

## 2- Professional information

### 1- Overall aims of course

**Upon successful completion of the course, the student will be able to:**

- ❖ Identify the different bacterial diseases affecting different bird's species.
- ❖ Develop approaches for prevention, diagnosis and treatment of bacterial diseases.

### 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 and rabbits.
- a.3. Explain the characteristics clinicopathologic lesion of bacterial diseases.
- a.4. Clarify the vaccination programs against bacterial diseases.
- a.5. Recognize the different methods for 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. Select 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.

#### **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.

#### **d-General and transferable skill**

**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
<b>Total</b>	<b>88</b>	<b>88</b>	<b>176</b>

### 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. MATRIX ALIGNMENT OF THE MEASURED ILOs/ ASSESSMENTS METHODS:

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

## C. WEIGHT OF ASSESSMENTS:

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

## 6- List of references

<b><u>6.1. Essential books</u></b>
<b>1-Diseases of poultry 12<sup>th</sup> edition</b> 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 , Websites .....etc

- 1- Poultry Science Journal
- 2- British poultry science Journal
- 3- Poultry Disease Journal

Website

J [www.idexradil.com](http://www.idexradil.com)

J [www.vlfarming.com/-diseases](http://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)	IS (b)	P.P. S (c)	G.T.S (d)	Lect ·	Pract ·	Self & active learning	Audi o visual	Case stud y
Fowl cholera	4	-	4	4		1,2,3,4,5, 6	1,2,3, 4		1,2,3, 4	+	-			
Riemerella anatipestifer infection.	4	-	4	4		,2,3,4,5	1,2,3, 4		1,2,3, 4	+	-			
Infectious coryza.	4	-	4	4		,2,3,4,5,6	1,2,3, 4		1,2,3, 4	+	-			
Mycoplasmosis	8	-	8	8		1,2,4,6	1,2,3, 4		1,2,3, 4	+	-			
Salmonellosis	8	-	8	8		4,5,6	1,2,3, 4		1,2,3, 4	+	-			
Colibacillosis.	8	-	8	8		2,3,5	2,3		1,2,3, 4	+	-			
Spirochaetosis.	4	-	4	4		2,3,4,5	1,2,3, 4		1,2,3, 4	+	-			
Clostridial infections	8	-	8	8		3,4,6	1,2,3, 4		1,2,3, 4	+	-			
Avian tuberculosis.	4	-	4	4		2,3,4,5	1,2,3, 4		1,2,3, 4	+	-			

Paratyphoid infections	8	-	8	8		2,3,4,5	1,2,3,4		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	1,3	-	+			
Sensitivity test	-	12	12		12			1,3,4	1,3	-	+			
<b>Total</b>			176	88	88									

