



University of Sadat City  
Faculty of Veterinary Medicine  
Dept. of Animal Hygiene and Zoonoses  
(2014-2015)



# Prevention and Control of Zoonotic Diseases

(782M)

## MVSc COURSE SPECIFICATION

1-Basic information	
Course Code:	782
Course title :	Prevention and Control of Zoonotic Diseases
Academic year:	2014-2015
Program title:	Master in Veterinary Medical Sciences ( Zoonoses)
Department offering the Course:	Department of Animal Hygiene and Zoonoses
Contact hours/week/semester:	Lecture: 2 hr/week Practical—hr/week
Course coordinator:	Dr : Sherif Zidan

## 2-Professional information

### **1- Overall aims of course**

At completion this course, the students should know the concept of Zoonoses and could be able to prevent the spread of diseases especially zoonotic diseases. The students should be able to apply methods for eradication of disease.

### **2- Intended learning outcomes of course (ILOs)**

#### **a-Knowledge and understanding**

**By the end of this course, the student should be able to**

- ) a.1 Outline the terms used in zoonoses, and related to the public health.
- ) a.2 Recognize the principals of disinfection and environmental hygiene and its relation to the public health.
- ) a.3 Explain the role of hygiene in controlling the public health problems and gaining the maximum profits from animal production.
- ) a.4 Discuss the impact of good hygiene on human health.
- ) a.5 Define the danger of emerging zoonotic diseases and the different strategies for control and eradication.

#### **b-Intellectual skills**

**By the end of this course the student should be able to :**

- ) b.1- Analyze and interpret data about existence, distribution, transmission and possible risk factors of disease.
- ) b.2- Evaluate the different strategies for prevention, control and eradication of the diseases.
- ) b.3- Investigate the disease in the field and connect the disease events with the possible causal factors.
- ) b.4- Interpret the suitable techniques for analysis of samples in a fast and simple manner.

#### **c-General and transferable skill**

**By the end of studying the course, the student should be able to**

- c.1. Work effectively as part of a team.
- c.2. Facilitate the use of library facilities and IT tools.
- c.3. Explore appropriate computer / keyboard skills including word
- c.4. Enhance the processing, spreadsheets, presentation packages and graph plotting.

### **3- Topics and contents**

Topic	No. of hours		
	Lect.	Pract.	Total

Common terms and policy of disease control and prevention	<b>16</b>		<b>16</b>
<b>Combating of communicable diseases.</b> -Sources of infection. - Methods for prevention and eradication of communicable diseases	<b>12</b>		<b>12</b>
<b>Disinfection and disinfectants.</b> - Disinfection, sterilization and antisepsis - Physical and chemical means of disinfection - Characters of ideal chemical disinfectants and their modes of action.	<b>12</b>		<b>12</b>
<b>Control measures.</b> -Preventive measures -Epidemic measures	<b>10</b>		<b>10</b>
<b>Control of bacterial diseases.</b> Anthrax, Tuberculosis, Listeriosis, Swine eryseplas , Glanders, Salmonellosis, Tuleramia ,human plague, Leptospirosis , rat bite fever....etc)	<b>12</b>		<b>12</b>
<b>Control of viral diseses .</b> (Rabies, Rift valley fever, FMD.....etc).	<b>12</b>		<b>12</b>
<b>Control of parasitic diseases.</b> faschioliasis, toxoplasmosis, taeniasis .....etc)	<b>8</b>		<b>8</b>
<b>control of the mycotic diseases</b>	<b>8</b>		<b>8</b>
<b>control of the Rechittesial diseases</b>	<b>8</b>		<b>8</b>
<b>Total</b>	<b>88</b>		<b>88</b>

### Teaching and learning methods

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

### Student assessment

#### a. METHODS:

1- Written examination	For assessment of knowledge, back calling and Intellectual skills
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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,	1,2,3,4		-
Oral exam	1,2,3,4,5,	1,2,3,4		-
Student activities (assay, seminar, etc.)				<b>1-4</b>

**5.3-Weight of assessments WEIGHT OF ASSESSMENTS:**

<b>Assessment</b>	<b>Allocated Mark</b>	<b>Evidence</b>
Final written exam	<b>50%</b>	Marked and signed written paper
Oral exam	<b>50%</b>	Signed list of oral exam marks
Student activities		Assay, presentations, review

**6. List of References**

**6.1.Essential book**

**Acha, P. N. and Szyfres, B. (2003):** Zoonoses and Communicable diseases common to man and animals. PAHO, Sci. Tech. Pub.3<sup>rd</sup> ed. Volume I (Bacterial diseases).

**James, H (1980):** CRC Handbook series of Zoonose:VolumeII . CRC press. Inc. Boca, Raton, Florida. International Standard book number 0-8493-2907-8 (vol II) Library of Congress card number 78-10696 printed in the United States. ISBN 0-8493-2907-8.

**6.2. Recommended Books**

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Standard Methods for Examination of Water and Waste Water. A.P.H.A. (2005): Inc., Washington D.C., USA.

**Mostafa, T.H. and Samaha, H.A.** (1995): Zoonoses. Alexandria University.

**W.H.O. (1992):**Informal consultation on the Intestinal protozoan infections. WHO/CDs/IPI 92. 2,1-41.

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#### **67.4. Other Resources, websites, journal....**

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Journal of Clinical. Microbiology.

- ❖ Journal of vector borne zoonoses.
  - ❖ Journal of Infection and Immunity.
  - ❖ Journal of Hygiene.
  - ❖ Journal of Animal Science.
  - ❖ Journal of parasitology.
  - ❖ Journal of Tropical Animal Health and Production.
- Microbiological Review Journal.
- Journal of Microbiology.

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### **7- Facilities required for teaching and learning**

**7.1** Data-show.

**7.2** Network for technology transfer.

**7.3** Computer.

	<b>Course coordinators</b>	<b>Head of department</b>
<b>Name</b>	Dr. Sherif Zidan	Prof. Dr. Ahmed Byomi
<b>Signature</b>		



**782 MVSc 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 leaning	Audio visual	Case study
Common terms	2	-	16	16		1				+	-			
Combating of communicable diseases.	2	-	12	12		2			1,	+	-			
Disinfection and disinfectants.	2	-	12	12		2,3	1		,3,4	+	-			
<u>Control measures.</u>	2	-	10	10		1,2,4	1		,2,3,4	+	-			
Control of bacterial diseases.	2	-	12	12		4	1		1,4	+	-			
Control of viral diseses .	2	-	12	12		5	2,3		1, 4	+	-			
Control of parasitic diseases.	2	-	8	8		5	4		1,4	+	-			
control of the mycotic diseases	2	-	8	8		1,4,	3		1,4	+	-			
control of the richetsialdiseases	2	-	8	8		1,4,	3		1, 4	+	-			

رئيس القسم العلمى: أ د احمد محمد بيومي

: د شريف زيدان

