

University of Sadat City Faculty of Veterinary Medicine Dept. of Parasitology (2014-2015)



Parasites of Fish (688M)

MASTER COURSE SPECIFICATION

1- Basic information

University	University of Sadat City
Faculty	Veterinary Medicine
Course Code:	688M
Course title:	Parasites of fish
Department offering the Course:	Parasitology
Program title:	Master in Veterinary Medical Sciences (parasitology)
Contact hours/week:	Lecture: 2 hours/ week
Contact nours/week:	Practical: 2 hours/ week
Course coordinator:	Dr. Mahmoud Abou laila

2- Professional information

1- Overall aims of course

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

- Identify different species of fish parasites with good Knowledge about their Taxonomy & morphological characters
- Professionally understand Biology of parasites, Survival strategies of parasites, the means of spread of parasites and behavioral ecology of different parasites

2- Intended learning outcomes of course (ILOs)

a-Knowledge and understanding

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

- a1- Identify Common Digenetic trematodes among Egyptian freshwater fish:.
- a2- Describe morphological, biological and geographical criteria of different parasites.
- a3- Recognize Intermediate hosts of Trematode (snails).
- a4- Know the control methods of Trematode Parasites and parasitic infections

b-Intellectual skills

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

- b1- Interpret common taxa of parasites based on morphological, biologic and geographical criteria and clinical observation.
- b2- Assess the differentiation between the behavior and ecology of different parasite species and stages in the environment.
- b3- Specify the factors responsible for differentiating between infection and disease caused by various parasites.
- b4- Carry out a protection from infection with different zoonotic parasites.
- b5- Carry out diagnosis of different fish parasites

c-Professional and practical skills

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

- c1- diagnose different helminthes infecting fish.
- c2- Write report on the different fish parasites.
- c3- Carry out a diagnosis of different parasitic infection in different fishes.
- c4- identify different ectoparasites of fishes.

c5- detecting the different parasites infecting fishes.

d-General and transferable skill

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

- d.1. Develop a team work.
- d.2. Design a presentation.
- d.3. Communicate effectively
- d.4. Prepare research results effectively.

3- Topics and contents

Touris]	No. of hours			
Topic	Lectures	Practical	Total		
Practical topics					
Class: Trematoda Order : Digenea	22	-	22		
General Morphology, body structure and biology	10	-	10		
- Development of Trematoda	10				
Common Digenetic trematodes among Egyptian freshwater fish:	22	-	22		
Family: Sangiunicolidae	10	-	10		
Order: Monogenea Trematode Parasites infecting Aquatic animals	6	-	6		
Intermediate hosts of trematodes (snails)	6	-	6		
Diagnosis of trematode infections	6	-	6		
Controle of Trematode Parasites and parasitic infections	6	-	6		
Practical topics					
Preparation of permanent mounts of trematodes (10 samples are required from each student at the end of the course)	-	22	22		
Specimens on slides cercaria of adult <i>Heterophyes</i> , Egg of <i>Heterophyes</i> , Cercaria <i>Heterophyes</i> , Encysted metacercariae in fish muscles.	-	22	22		
Specimens in jars or box Pirnella conica dried snail, - Fresh water snails	-	22	22		
field trip for collection of samples and recognition of trematodes	-	22	22		
Total	88	88	176		

4- Teaching and learning methods

- **4.1.** Lectures.
- **4.2.** Practical sessions.
- **4.3.** Self-learning and presentation.

5-Student assessment

a. METHODS:

Written exam	For assessment of knowledge, information and intellectual
	skills
Practical exam	For assessment of professional and practical skills
Oral exam	For assessment of knowledge, information and intellectual
	skills
Self learning	For assessment of knowledge, general and transferable skills
activities	

b. MATRIX ALIGNMENT OF THE MEASURED ILOS/ ASSESSMENTS METHODS:

	Asse	ssments meth	<u>ods</u>	
Method	Matrix alignmethods	ment of the	measured ILOs	/ Assessments
	K&U (a)	I.S (b)	P&P.S (c)	G.S (d)
Final-Term exam	1,2,3,4	1,3,4		
Practical exam		2, 5	1,2,3,4,5	
Oral exam	1,2,3,4	1,3,4		
Self learning activiti es				1,2,3,4

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
Self learning activities	10%	Signed list of presented materials

6- List of references

6.1. Essential books

1-Soulsby, E.J.L. (1996): Heminths, Arthropods and protozoa of poultry and rabbit.

8th ed. Baillier, Tidal and Cassel, London.

2-Dawes, B. (1963): Advances in parasitology. Vol. (1-20).

6.3. Journals, Websitesetc

- 1- Parasitology today
- 2- The Journal of parasitology
- 3- www.asp.unl.edu/
- 4- www.aavp.org
- 5- www.dpd.cdc.gov
- 6- www.vetmed.wise.edu

Course coordinator:

Head of department:

Dr. Mahmoud Abou Laila

Prof. Dr. Nasr Moawad El-Bahy

Matrix alignment of course topics and ILOs

	No. of hours /week			ILOs				T&L. methods				
Theoritical Topic	Lect.	Pract.	Total hours	K&U (a)	I.S (b)	P.P.S (c)	G.T.S (d)	Lect.	Pract.	Self & active leaning	Audio visual	Case study
Class: Trematoda Order : Digenea	22	-	22	1,2,3,4	1,2		1,2,3,4	٧	-	٧	٧	
General Morphology, body structure and biology	10	-	10	1,2,3	1,2,3		1,2,3,4	٧	-			
 Development of Trematoda Common Digenetic trematodes among Egyptian freshwater fish: 	22	-	22	1,2,3	1,2		1,2,3,4	٧	-	٧	V	
Family: Sangiunicolidae	10	-	10	1,2,3	1,2		1,2,3,4	٧	-	٧	٧	
Order: Monogenea Trematode Parasites infecting Aquatic animals	6	-	6	1,2	1		1,2,3,4	٧	-	٧	٧	
Intermediate hosts of trematodes (snails)	6	-	6	1,4	3,4		1,2,3,4	٧	-	٧	V	
Diagnosis of trematode infections	6	-	6	1,4	3,4		1,2,3,4	٧	-	٧	٧	
Controle of Trematode Parasites and parasitic infections	6	-	6	1,4	3,4		1,2,3,4	٧	-	٧	٧	
pracitical Topic												
Preparation of permanent mounts of trematodes (10 samples are required from	-	22	22		5	1,2	1,2,3,4	-	٧			

each student at the end of the course)										
Specimens on slides cercaria of adult <i>Heterophyes</i> , Egg of <i>Heterophyes</i> , Cercaria <i>Heterophyes</i> , Encysted metacercariae in fish muscles.	-	22	22	1,2,4	1,2,3,4	-1	٧	٧	V	٧
Specimens in jars or box Pirnella conica dried snail, - Fresh water snails	-	22	22	1,3,4,5	1,2,3,4,5	-	٧	٧	٧	V
field trip for collection of samples and recognition of trematodes	-	22	22	1,3,4,5	1,2,3,4	-	٧	٧	٧	V
Total	88	88	176							

Tonio	No. of hours					
Торіс	Lectures	Practical	Total			
Practical topics						
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General Morphology, body structure and biology	10	-	10			
- Development of Trematoda	10					
Common Digenetic trematodes among Egyptian freshwater fish:	22	-	22			
Family: Sangiunicolidae	10	-	10			
Order: Monogenea	(-	6			
Trematode Parasites infecting Aquatic animals	6					
Intermediate hosts of trematodes (snails)	6	-	6			
Diagnosis of trematode infections	6	-	6			
Controle of Trematode Parasites and parasitic infections	6	-	6			
Practical topics						
Preparation of permanent mounts of trematodes		22	22			
(10 samples are required from each student at the end of the course)	-					
Specimens on slides	-		22			
cercaria of adult Heterophyes, Egg of Heterophyes, Cercaria		22				
Heterophyes, Encysted metacercariae in fish muscles.						
Specimens in jars or box	-	22	22			
Pirnella conica dried snail, - Fresh water snails						
field trip for collection of samples and recognition of trematodes	-	22	22			
Total	88	88	176			