

Physiopathology of Animal Reproduction CdS 8617
(2 modules, 3 CFU, 36 hrs; module 1: 13 hrs lectures and 5 hrs practical sessions;
module 2: 14hrs lectures and 4 hrs practical sessions)

Objective of the course: to provide students the knowledge of the etiopathogenesis of diseases of the reproductive tract in male and female that can affect fertility in domestic species.

MODULE 1 Lectures

Contents and learning outcomes	Themes	Specific contents	Hours
1. PRESENTATION OF THE COURSE (TOT. 0,5 HRS)		Presentation of the course, program, teachers, teaching methods, recommended texts, final examination.	0,5
2. COLLATERAL EXAMINATIONS FOR DIAGNOSIS OF GENITAL PATHOLOGIES IN THE DOG AND CAT (TOT. 4,5 HRS) [Acquisition of: a) techniques used for predicting ovulation time, and male and female genital diseases. b) knowledge necessary for the interpretation of normal and pathological aspects]	<i>Cytology of the male and female genital tract</i>	Vaginal cytology: normal and pathological aspects in relation to the estrous cycle phase. Normal cytology and associated with male and female genital pathologies	1,5
	<i>Colposcopy Hormone assays</i>	Colposcopy: normal aspects in relation to the phase of the estrous cycle, and to pathological conditions	1
	<i>Ultrasound of the male and female genital tract</i>	Normal ultrasound aspects associated with male and female genital pathologies	2
3. PATHOLOGIES FEMALE GENITAL SYSTEM OF DOG AND CAT (TOT. 4 HRS) [acquisition of: a) main pathologies of the female genital tract, b) basic aspects necessary for their diagnosis]	<i>Pathologies of the vulva and vagina</i>	Etiopathogenesis and clinical aspects of the main congenital and acquired diseases of dogs and cats	1,5
	<i>Pathologies of the uterus, cervix and salpingi</i>		1,5
	<i>Pathologies of the ovary</i>		1

<p>4. PATHOLOGIES MALE GENITAL SYSTEM OF DOG AND CAT (TOT. 4 HRS)</p> <p>[acquisition of: a) main pathologies of the male genital tract, b) basic aspects necessary for their diagnosis]</p>	<p><i>Pathologies of the penis and prepuce</i></p>	<p>Etiopathogenesis and clinical aspects of the main congenital and acquired diseases of dogs and cats</p>	1,5
	<p><i>Pathologies of the testicles and scrotum</i></p>		1,5
	<p><i>Pathologies of the accessory glands</i></p>		1

MODULE 1 Practical sessions

Contents and learning outcomes	Themes	Specific contents	Hours
<p>5. PRACTICE IN ANATOMOPATOLOGICAL ROOM (TOT. 2 HRS)</p> <p>[acquisition of: fundamental notions for the execution of a clinical examination, manual procedures and surgical accesses]</p>	<p><i>Topography, manual procedures, surgical accesses, instruments</i></p>	<p>Evaluation of the macroscopic aspect and topography of dog genital organs. Surgical access to the genital organs. Execution of manual procedure. Instruments.</p>	2
<p>6. DISCUSSION OF CLINICAL CASES. CYTOLOGY AND ECOGRAPHY AS COLLATERAL TESTS (TOT. 3 HRS)</p> <p>[acquisition of: a) ability to recognized a pathology on the base of cytological aspect, ultrasound images or pathological organs. b) evaluation of the estrous cycle phase based on colpocitology]</p>	<p><i>Cytology, echography and evaluation of macroscopic aspects of pathological organs</i></p>	<p>The student perform a diagnosis in simulated clinical cases, on the base of the cytological aspect, ultrasound images, or pathological organs</p>	3

MODULE 2 Lectures

Contents and learning outcomes	Themes	Specific contents	Hours
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<p>1. PATHOLOGIES OF THE FEMALE GENITAL TRACT IN FARM ANIMALS (TOT. 9 hrs) [acquirement of: a) main pathologies of female genital tract, b) fundamentals needed for the diagnosis]</p>	<i>Intersex</i>	Ethiopatogenesis and clinical aspects of the main congenital and acquired pathologies of farm animals	1
	<i>Pathologies of ovary</i>		3
	<i>Pathologies of uterine tubes, uterus and cervix</i>		4
	<i>Pathologies of vulva and vagina</i>		1
<p>2. PATHOLOGIES OF THE MALE GENITAL TRACT IN FARM ANIMALS (TOT. 5 hrs) [acquirement of: a) main pathologies of male genital tract, b) fundamentals needed for the diagnosis]</p>	<i>Pathologies of testicles and scrotum</i>	Ethiopatogenesis and clinical aspects of the main congenital and acquired pathologies of farm animals	2
	<i>Pathologies of accessory glands</i>		1
	<i>Pathologies of penis and prepuce</i>		1
MODULE 2 Practical sessions			
Contents and learning outcomes	Themes	Specific contents	Hours
<p>3. ESERCITAZIONE SU ORGANI (TOT. 2 hrs) [acquirement of: a) concepts and manual skills needed for a gynaecological exam; b) evaluation of the estrous cycle phase based on the macroscopic aspect; c) ability to formulate possible diagnosis based on the interpretation of pathological organs]</p>	<i>Anatomic review, manual skills, evaluation of aspects of pathologic organs</i>	Evaluation of macroscopic aspect of genital organs. Estrous cycle phase determination. Hypothesize diagnosis on the base of the evaluation of pathologic organs.	2

<p>4. ESERCITAZIONE SU STRUMENTI E ANIMALE (TOT. ORE 2)</p> <p><i>[acquirement of: a) concepts and manual skills needed for the collection of a sample for a bacteriological, cytological or histological exam; b) evaluation of the estrous cycle based on the clinical exam; c) ability to formulate possible diagnosis based on the clinical exam]</i></p>	<p><i>Instruments, manual skills, clinical case evaluation</i></p>	<p>Instruments for biological sample collection, clinical exam of an animal and evaluation of the ultrasonografic exam.</p>	<p>2</p>
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