

**ANDROLOGIA VETERINARIA
(2 CFU 24 ore)**

Obiettivi formativi del corso: Anatomy of the male reproductive tract. Endocrine control of testicular function. Spermatogenesis. Breeding soundness examination. Semen collection techniques in domestic animals. Macro and microscopic evaluation of the semen. Theoretical and practical aspects of semen preservation in domestic animals. Infertility..

Lezioni

Topics and skills acquired	Topics	Specific contents	Hours
1. PRESENTATION COURSE: BASIC CONCEPTS HOW TO ADDRESS COURSE	Introductory lesson	Course Presentation, program, teachers, methods educational, suggested books, final test	1
2. REMINDERS OF ANATOMY AND PHYSIOLOGY	Recall of anatomy	The main characteristics of anatomy and topography of the male genital tract with the particularities of species	1
	Recall of Physiology	Aspects of genital physiology. Spermatogenesis, spermiogenesis, puberty, testicle hormonal regulation	1
3. CAUSES OF IPO / INFERTILITY IN FEMALE	Ipo/infertility in female	Description of the causes of female infertility in the different domestic species	1
4. CAUSES OF IPO / INFERTILITY IN MALE	Impotentia coeundi	Description in domestic animals	2
	Impotentia generandi	Description in domestic animals	
	Ipo/Infertility and nutrition	Description in domestic animals	
5. LAW FOR ANIMAL REPRODUCTION	Law	Illustration of the italian law for animal reproduction	1
4. MALE BREEDING EXAMINATION	Male BSE	Illustration of the execution of a clinical examination of the male in the different domestic species	3
5. SEMEN COLLECTION	Semen collection	Main collection techniques of semen used in different species of domestic animals..	1
6. MACRO AND MICROSCOPIC SEMEN EVALUATION	Semen evaluation	Methods and basic specifications for the macroscopic and microscopic semen assessment	4
7. SEMEN STORING FOR ARTIFICIAL INSEMINATION	Semen Dilution	Caratteristiche fondamentali di un diluitor e differenze di specie. Diluizione del materiale seminale per uso fresco, refrigerato e congelato nelle diverse specie animali e dose inseminante	1
	Semen Storing	Methods of refrigeration and storage of semen, packaging. Semen evaluation after freezing	2

PRACTICE

SLAUGHTERED TESTIS	Anatomy, instruments, artificial vagina	For each student: macroscopic evaluation of the testis; isolation of the epididymis and epididymal sperm, fitting an artificial vagina	2
THAW AND MICROSCOPIC EVALUATION OF SEMEN	Seme evaluation	For each student: Thawing semen, isolation of sperm alive and vital, microscopic evaluation of motility and vitality, evaluation of sperm concentration	2
VISIT TO NATIONAL INTSITUTE OF ARTIFICIAL INSEMINATION	Visit to INFA	Semen recovery from the stallion; macro and microscopic evaluation of stallion semen using computerized technology.	2