



**GENERAL PRACTITIONER CERTIFICATE
IN SMALL ANIMAL REPRODUCTION – GPCert (SAR)**

SYLLABUS

This syllabus is designed as a guideline to the key areas that the delegate will be expected to understand. The emphasis is very much on the approach to different conditions – practical examination techniques, application of appropriate diagnostic procedures and an understanding of the potential complications associated with different body systems, rather than an exhaustive list of potential disorders. The veterinarian will instead be expected to have knowledge of common disorders and an appreciation of resource material from where further research can be undertaken into more unusual conditions. An understanding of normal anatomy and physiology, and how this impact on the pathogenesis and treatment of surgery diseases will be expected.

Endocrinology

- Reproduction
- Clinical evaluation of the oestrous cycle
- Particularities of the oestrous cycle
- Stages of the oestrous cycle
- Clinical and endocrinological characteristics

Assisted reproduction

- Vaginal cytology
- Hormonal profiles (Progesteronemia)
- Ovulation and fertilization
- Natural breeding
- Insemination - characteristics and technique

Gestation and Childbirth

- Gestation
- Fertilization and gestation diagnosis
- Care of the pregnant female
- Ectopic pregnancy and embryo resorption
- Birth (normal and assisted)
- Eclampsia

Dystocia, Caesarean section and post-caesarean neonatal resuscitation

- Dystocia - factors and treatment
- Caesarean section - preparation and general principles of surgical technique
- Post-caesarean neonatal resuscitation

Infertility in the bitch and in the cat

- Infertility

- Females with persistent, shortened heats and with normal cycles that do not stay pregnant
- Anoestrus, silent heats, extra reproductive causes
- Azoospermia
- Sperm abnormalities
- Sperm evaluation
- Spermograms

Pathology of the reproductive apparatus of the bitch and the cat

- Ovarian pathology
- Follicular and luteal cysts
- Ovarian neoplasia
- Ovarian remnant syndrome
- Uterine pathology
- Deferential diagnosis
- The pyometra
- Uterine torsion
- Subinvolution of placentation sites
- Uterine rupture
- Vagina and vulva pathology
- Vaginitis
- Vagina and vulva tumours
- Vaginal prolapse

Pathology of the male reproductive system

- Prostate disease
- Prostatic hyperplasia
- Acute and chronic prostatitis
- Testicle pathology
- Cryptorchidism
- Orchitis
- Testicular torsion
- Clinical assessment of testicular tumours
- Penis and foreskin pathology
- Penile protrusion
- Erection failure
- Urethral prolapse
- Balanoposthitis
- Assessment of penile injuries

Pathology of the mammary gland in the bitch and in the cat

- Mammary tumours
- Pseudopregnancy
- Acute and chronic mastitis
- Gangrenous mastitis
- Toxic milk syndrome

Reproductive pharmacology

- Reproductive pharmacology in the female
- Total oestrus inhibition
- Induction of ovulation and heat
- Interruption of gestation
- Reproductive pharmacology of the male
- Suppression of male reproductive function

Imaging study in reproduction

- Imaging study of the ovaries and uterus
- Ultrasound assessment of gestation
- Evaluation of foetal distress in the different phases of gestation
- Echographic evaluation of the male reproductive tract
- Ultrasound evaluation of the normal and pathologic prostate
- Ultrasound evaluation of testicular tumours
- Ultrasound evaluation of cryptorchid testicles

Clinical Neonatology and Paediatrics:

- Clinical Neonatology
- Neonatal physiology
- Exploration of the neonate
- Main pathologies of the neonate
- Neonatal hypoxia
- Hypothermia
- Dehydration
- Hypoglycaemia
- Neonatal pathologies resulting from the mother
- Neonatal bacterial septicemia
- Clinical Pediatrics
- Pathologies during the first year of age

Canine and Feline Reproduction Surgery

- Main surgeries in reproduction of the bitch and the cat
- Canine and feline ovariohysterectomy
- Canine and feline orchiectomy
- Surgery of the intra-abdominal cryptorchid dog and cat
- Mammary gland surgery
- Mammary tumours surgery
- Gangrenous mastitis and fibroadenomatosis
- Feline mammary
- Caesarean and Episiotomy
- Evaluation of the surgical technique
- Surgical resolution of vaginal prolapse