

Small Animal Surgery

Postgraduate Certificate (PgC)

The most in-depth and hands on modular surgery programme, which divides into a soft-tissue component in year one and an orthopaedic/spinal component in year two

Duration

Two years

**Programme
Begins**

October 2017

Locations

Swindon - Alexandra House
Sheffield - Benchmark House
Hatfield - Fielder Centre
Dublin - Finnstown

Access Requirements

Veterinary Surgeons who have been in practice for a minimum of two years.

Attendance

Attendance on the taught modules is typically once monthly on a weekday between 2.00pm and 8.00pm however, where there are case-based discussion webinars or practical sessions these times may vary.

Year 1 modules

01: 

Surgical asepsis and basic operative techniques: wounds and wound healing

- Instrumentation and instrument handling
- Antiseptics, sterilisation techniques and use of antibiotics
- Gloving and gowning
- Principles of wound healing – primary and delayed closure and secondary healing
- Principles of reconstructive surgery – skin flaps and grafts
- Principles and uses of surgical drains
- Hernias - hiatal, perineal, inguinal, umbilical, diaphragmatic, prepubic and peritoneopericardial

02: 

Gastrointestinal surgery I

- Salivary gland diseases – mucocoeles, trauma, hypersialism and neoplasia
- Oesophageal foreign bodies, trauma, strictures, diverticulum and neoplasia
- The stomach – gastric foreign bodies, dilatation/ volvulus, gastric outflow disease and gastric neoplasia

03: 

Gastrointestinal surgery II and liver, spleen and pancreas surgery

- Intestinal surgery – serosal and omental patching, obstructions and foreign bodies and neoplasia
- Megacolon, rectal prolapse and stricture
- The anus and perianal area – atresia ani, anal sac disease and anal furunculosis
- Liver, spleen and pancreas surgery

04: 

Urinary and reproductive tract surgery

- Obstructive diseases of the urinary tract – ureters, bladder and urethra
- Urinary tract trauma – kidneys, ureters, bladder and urethra
- Urinary incontinence
- Urinary tract neoplasia
- Disorders and surgery of the female and male reproductive tracts

05: 

PRACTICAL - TWO-DAY COURSE, DAY 1

Reconstructive surgery

- Wound closure – tension relief, prevention of 'dog ears' and relaxing incisions
- Pedicle flaps – advancement flaps, rotational flaps and transposition flaps
- Muscle and omental flaps – external abdominal oblique muscle flap and omental transposition
- Skin grafts – full thickness skin grafts and stamp grafts

06: 

PRACTICAL - TWO-DAY COURSE, DAY 2

Gastrointestinal and urinary tract surgery

- Oesophageal foreign bodies – pre-op management, anaesthesia, surgical anatomy, surgical technique, post-op care and assessment
- Gastric dilatation volvulus – temporary and permanent gastropexy
- Nephrectomy and nephrotomy – partial nephrectomy, ureteronephrectomy and indications for nephrotomy
- Urethrostomy – prescrotal, scrotal, perineal and prepubic

Year 1 modules

07:

Oral and pharyngeal surgery: the ear

- Surgery of the lips and cheeks, tongue and hard palate
- Maxilla/mandible – maxillectomy and mandibulectomy
- Pharyngeal surgery
- Tonsillar surgery
- The ear – lateral wall resection, vertical canal ablation, total canal ablation/lateral bulla osteotomy, ventral bulla osteotomy and haematomas

08:

Surgery of the upper airways: laryngeal and tracheal surgery

- The nose – neoplasia, autoimmune disease
- The nasal sinuses
- BOAS - Brachycephalic obstructive airway syndrome
- Laryngeal diseases – paralysis, collapse, trauma, stenosis and neoplasia
- Tracheal surgery – tracheotomy, tracheostomy, collapse, resection anastomosis, trauma, foreign bodies and neoplasia

09:

Surgery of the abdominal and thoracic cavities

- Peritonitis – pathophysiology, clinical signs and treatment
- Chest wall diseases – neoplasia and trauma
- Chylothorax
- PDA
- Thoracic surgery – instrumentation, thoracic drainage, thoracotomy procedures, lung lobectomy and pericardectomy

10:

Surgical oncology

- Principles of oncologic surgery
- Surgery for skin tumours, oral tumours, gastrointestinal tumours, urogenital tumours and chest wall tumours
- Feline specific tumours

11:

PRACTICAL - TWO-DAY COURSE, DAY 1

Head and neck surgery

- Total ear canal ablation (TECA) – suture materials and special instruments, post-op care and assessment and complications
- Ventral bulla osteotomy – suture materials and special instruments, post-op care and assessment complications
- Thyroid surgery – thyroidectomy in the dog, thyroidectomy in the cat demonstration
- Unilateral arytenoid lateralisation – pre-op management, anaesthesia, surgical anatomy, surgical technique, post-op care and assessment

12:

PRACTICAL - TWO-DAY COURSE, DAY 2

Thoracic surgery

- Thoracotomy – pre-op management, anaesthesia, surgical anatomy, surgical technique, post-op care and assessment
- Lung lobectomy partial and complete lobectomy
- Pericardectomy – subtotal and total
- Patent ductus arteriosus (PDA) – preoperative management, anaesthesia, surgical anatomy, surgical technique, post-op care and assessment

Year 2 modules

13: 

Orthopaedics I – joint diseases of the forelimb

- Conditions of the shoulder including luxation, osteochondrosis and dysplasia. Excision arthroplasty
- Conditions of the elbow including luxations, elbow dysplasia, developmental disease and un-united anconeal process
- Developmental carpal disease, carpal hyperextension and arthrodesis and luxations of the carpus and foot
- Growth plate disorders

14: 

Orthopaedics II – joint diseases of the hindlimb

- Conditions of the hip, including dysplasia, luxations, arthroplasty and total hip replacement
- Conditions of the stifle, including patellar luxation, osteochondrosis and cruciate rupture
- Conditions of the hock, including osteochondrosis and luxation

15: 

PRACTICAL - TWO-DAY COURSE, DAY 1

Joint diseases of the forelimb

- Shoulder joint - surgical approaches, bicipital tenotomy
- Elbow joint – surgical approaches, treatment of elbow dysplasia (medial coronoid disease, OCD, UAP and radio-ulnar incongruity)
- Carpal arthrodesis

16: 

PRACTICAL - TWO-DAY COURSE, DAY 2

Joint diseases of the hindlimb

- Hip joint – femoral head and neck ostectomy
- Stifle joint I – extracapsular repair of cranial cruciate ligament disease and meniscal inspection
- Stifle joint II – surgical correction of a luxating patella by tibial tuberosity transposition

17: 

Fracture repair I

- The initial assessment of the fracture patient
- Descriptions and applications of fracture classification
- Principles and decision making in fracture repair
- Methods of fracture fixation and implants, including plating and external fixation devices

18: 

Fracture repair II

- The principles of fracture reduction, including both closed and open techniques
- Options for bone grafting including both cancellous and cortical grafts
- Stabilisation of specific fractures of the fore and hindlimb
- Approaches to the following complications: Delayed union / Non-union / Mal-union / Osteomyelitis

Year 2 modules

19: 

PRACTICAL - TWO-DAY COURSE, DAY 1

Internal fixation

- Surgical repair of a fractured radius using a bone plate and screws
- Surgical repair of a fractured humerus using an intramedullary pin and a bone plate and screws
- Surgical repair of a fractured femur using an intramedullary pin and a bone plate and screws

20: 

PRACTICAL - TWO-DAY COURSE, DAY 2

External fixation and bone graft

- Cancellous bone grafting – harvesting cancellous bone from the proximal humerus
- Review of external fixation equipment – pins, bars and clamps
- Surgical repair of a fractured tibia with a type II linear frame
- Surgical repair of a comminuted radial fracture with a type Ib linear frame

21: 

Spinal surgery I

- Lesion localisation - the neurological examination and its interpretation
- The application of neurodiagnostics
- The approach to and management of paraplegia and tetraplegia
- Neurological emergencies, including cranial trauma and status epilepticus

22: 

Spinal surgery II

Theory and demonstration of

- Cervical disc surgery
- Thoracolumbar disc surgery
- Lumbosacral disc surgery
- CSF tap and myelography

Additional Information

You can join the programme at any time during the year, to find out more please visit us at -

www.improveinternational.com