Clinical Programme

Emergency Medicine and Surgery
Current interest in small animal accident and emergency medicine and surgery is greater now than ever before.

This exciting modular programme is dedicated to providing high quality, relevant, clinically useful information for the small animal practitioner. The programme is practically relevant and is presented using an approach based around the major organ systems.

### Get the most out of this programme and your CPD

<table>
<thead>
<tr>
<th>Extend your Clinical Knowledge and Skills</th>
<th>Achieve a General Practitioner Certificate (GPCert)</th>
<th>Achieve a Postgraduate Certificate (PgC)</th>
<th>Apply for Advanced Practitioner Status</th>
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<tbody>
<tr>
<td>Want to advance your knowledge and skills in a specific area? Simply take one of the single or paired modules in your area of interest.</td>
<td>Complete the full one year programme (all modules) and achieve the GPCert and attain 40 academic credits at Masters Level 7.</td>
<td>Continue to a PgC (60 academic credits), which combines the GPCert clinical studies with reflective practice. The Advanced Practitioner Module is 20 academic credits at Masters Level 7 and delivered by Harper Adams University.</td>
<td>After completing your Postgraduate Certificate you can apply for the RCVS Advanced Practitioner Status. Subject to meeting all of the other entry requirements set out by RCVS in the Applicant Guidance Notes.</td>
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01: 31.01.17
The initial approach to the emergency patient
Speaker: Gayle Hallowell
(MA VetMB PhD CertVA DipACVIM-LAIM DipACVECC FHEA MRCVS)

- Understand the administrative, legal and ethical issues involving the critically ill patient
- Appreciate triage systems and detail a suitable initial patient assessment
- Explain emergency vascular access techniques including jugular and intraosseous routes
- Understand pain management, stabilisation and monitoring
- Explain health and safety concerns and precautions including managing a situation involving potential zoonoses
- Appreciate infectious diseases and preventative healthcare
- Be aware of reference sources for the additional learning objectives on the recumbent patient and/or basic notes

02: 01.02.17
Laboratory diagnosis, clinical pathology and transfusion medicine
Speaker: Sara Gould
(BVetMed DSAM MRCVS)

- Understand sampling techniques, processing, storage and data recording
- Apply knowledge using the microscope to examine blood smears, urinary sediment and basic cytology and be able to diagnose common acute and chronic conditions seen in general practice
- Assess haemostasis
- Interpret clinical laboratory medicine information including haematology, biochemistry, electrolyte and arterial and blood gas analyses
- Understand when transfusion should be considered and appreciate that there are no ‘magic’ numbers
- Select appropriate blood products and protocols to minimise adverse outcomes
- Manage common conditions leading to haematological abnormalities requiring transfusion
- Assess, recognise and treat shock
- Appreciate the indications for the different types of fluid therapy with their advantages and disadvantages and the need for electrolyte supplementation
- Review techniques for venous access: sites, catheter placement, preparations and complications including advanced techniques and intraosseous techniques
- Have a general understanding of acid-base balance and its treatment
- Explain the need to monitor for complications during treatment and to record central venous pressure
- Appreciate the importance of acute malnutrition
- Formulate a plan to provide enteral, total parenteral and partial parenteral nutrition

03: 20.03.17
Supporting the emergency patient
Speaker: Paul Higgs
(MA VetMB CertSAM DipECVIM-CA MRCVS)

- Detail an approach to patient stabilisation prior to anaesthesia
- Select appropriate parenteral and inhalational anaesthetic regimes and appreciate their relative advantages and disadvantages. Sedation versus anaesthesia
- Have an understanding of anaesthetic equipment and monitoring techniques and their advantages and disadvantages
- Explain the selection of NSAIDs, opioids, local anaesthetic and topical treatment options for the emergency patient
- Understand the pharmacokinetics, potential interactions and adverse effects of commonly used therapeutic agents including anti-microbials and anti-parasiticides in addition to anaesthetics and anti-inflammatories in the emergency patient
- Understand the use of neuromuscular blockers

04: 21.03.17
Anaesthesia, analgesia, sedation and therapeutics
Speaker: Maria Angeles Jimenez Lozano
(CertVA DipECVAA MRCVS)

- Detail an approach to patient stabilisation prior to anaesthesia
- Select appropriate parenteral and inhalational anaesthetic regimes and appreciate their relative advantages and disadvantages. Sedation versus anaesthesia
- Have an understanding of anaesthetic equipment and monitoring techniques and their advantages and disadvantages
- Explain the selection of NSAIDs, opioids, local anaesthetic and topical treatment options for the emergency patient
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- Understand the use of neuromuscular blockers
Taught Modules

05: 23.05.17
The principles of surgery and the approach to trauma and wound management
Speaker: Guillaume Chanoit
(DVM MSc PhD DECVS DACVS MRCVS)

• Stabilise a patient prior to surgery, plan surgery and manage complications
• Appreciate the indications for immediate surgical intervention
• Understand surgical asepsis, theatre protocol and the rational use of antimicrobials in surgical patients
• Approach the acute management of haemostasis, abdominal trauma, brain and/or spinal trauma and respiratory trauma
• Approach external soft tissue wounds, myocardial injury and musculoskeletal trauma

06: 24.05.17
Gastrointestinal emergencies
Speaker: Guillaume Chanoit

• Approach the acute abdomen
• Understand the common emergency conditions affecting the oesophagus, stomach, small intestine, large intestine, liver and pancreas
• Formulate a diagnostic plan, including the use of imaging modalities, and effective monitoring strategies for these cases
• Understand appropriate surgical intervention

07: 10.07.17
Cardiovascular emergencies & CPCR
Speaker: Joao Loureiro
(DVM CertVC DipECVIM-CA MRCVS)

• Understand the cardiovascular assessment and management of patients presented with cardiovascular emergencies
• Utilise and interpret a range of diagnostic techniques including ECGs, radiographs, echocardiographs and laboratory data
• Diagnose and manage acute canine congestive heart failure, feline cardiomyopathy and aortic thromboembolism
• Diagnose and manage pericardial disease and understand how to perform pericardiocentesis
• Diagnose and manage cardiac arrhythmias
• Consider the predisposing factors likely to result in cardiac arrest, how this changes the approach to CPCR and determining prognosis following CPCR
• Understand the various components of CPCR (DABC) and their various importance

08: 11.07.17
Respiratory tract emergencies
Speaker: Paul Higgs

• Understand the general approach to dyspnoea
• Utilise and interpret a range of diagnostic techniques for respiratory patients including auscultation, radiography, endoscopy and arterial blood gas analysis to localise the underlying cause
• Appreciate the methods of oxygen delivery and be able to monitor the efficacy of treatment
• Understand the problems associated with oxygen delivery
• Explain the techniques available for drainage of the pleural cavity
Neurological and neurotoxicological emergencies
Speaker: Laurent Garosi
(DVM DipECVN MRCVS)
• Perform a neurological examination
• Select appropriate diagnostic tests and apply them to individual cases, including radiography and CSF analysis
• Understand how to manage common neurological emergencies
• Appreciate the fundamentals of neurosurgery
• Recall the common toxicities such as insecticides, molluscicides, rodenticides, herbicides, household preparations and plants
• Diagnose, treat and assess the prognosis of patients presented with the common poisonings

Renal, urinary tract, reproductive and paediatric emergencies
Speaker: Dan Holden
• Apply diagnostic techniques including laboratory investigations and imaging to these cases
• Investigate and manage common renal and urinary tract emergencies
• Understand the principles of renal, ureteral, bladder and urethral surgery
• Formulate an approach to cystocentesis and the placing and maintenance of urinary catheters and appreciate their limitations
• Understand normal reproductive physiology and function and the physiology of conversion from foetal to neonatal circulation
• Appreciate the common important clinical signs associated with reproductive and paediatric emergencies
• Plan a diagnostic approach to these cases and manage common conditions

Endocrine and metabolic emergencies
Speaker: Dan Holden
• Detail the common metabolic conditions requiring urgent or emergency therapy
• Understand the impact of metabolic disturbances on the patient’s major body systems
• Devise an approach to the diagnosis and management of common endocrine emergencies
• Understand key diagnostic tests and their application

Emergencies in rabbits, rodents and cage birds
Speaker: Richard Saunders
(BVSc BSc CertZooMed DZooMed (Mammalian) MRCVS)
• Interpret the practical findings of a physical examination
• Formulate a diagnostic approach to common presentations of emergency conditions
• Manage common emergency conditions
• Approach the anaesthesia and analgesia of these species in emergency situations

Practical session
Speaker: Guillaume Chanoit
This practical day will provide delegates with the opportunity to practise the following techniques in the wet-lab:
• Tracheotomy and chest drain placement
• Emergency abdominal surgery including the approach to the acute abdomen and peritonitis, enterotomy and enterectomy
• Gastric dilatation/volvulus and gastropexies
• Urinary obstruction including urethrotomy in the dog and a demonstration of perineal urethrostomy in the cat
## Pricing for 2017

### Payment Options

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<th>GPCert Programme:</th>
<th>Payments</th>
<th>Initial Payment</th>
<th>Total payable</th>
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### Payment terms & conditions

1. A non-refundable initial payment of £924.00 is due on registration in order to secure the booking. Deposits can be paid by cheque, credit card or bank transfer.

2. Full payment to be made by BACS, credit card or cheque within 30 days of the deposit payment in order to be eligible for the discounted rate.

3. Direct debit plans are administered and collected on our behalf by Animal Healthcare Limited.

4. Multiple booking discounts available, please contact us on 01793 759159 for further information.

5. Individual and Paired Module Pricing shown above does not include the exam fees of Harper Adams University and ESVPS.

6. If paying by direct debit we must receive the first payment prior to the course commencing.

### For those individuals continuing to PgC, the tuition fee for the Advanced Practitioner Module is £1,250 payable to Harper Adams University.