

**2017**

Improve  
International 

**Clinical Programme**

# Ophthalmology

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# This comprehensive and stimulating programme is designed to be practically relevant for the small animal practitioner.

The programme will provide you with a thorough understanding of the anatomy, development and physiology of the eye and will cover the full spectrum of ocular diseases seen in the domestic species. The principles of inherited ocular disease, ocular pharmacology and therapeutics, ocular pathology and ocular surgery will be discussed.

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

<p><b>Extend your Clinical Knowledge and Skills</b></p> <p>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.</p>	<p><b>Achieve a General Practitioner Certificate (GPCert)</b></p> <p>Complete the full one year programme (all modules) and achieve the GPCert and attain 40 academic credits at Masters Level 7.</p>	<p><b>Achieve a Postgraduate Certificate (PgC)</b></p> <p>Continue to a PgC (60 academic credits), which combines the GPCert clinical studies with reflective practice.</p> <p>The Advanced Practitioner Module is 20 academic credits at Masters Level 7 and delivered by Harper Adams University</p>	<p><b>Apply for Advanced Practitioner Status</b></p> <p>After completing your Postgraduate Certificate you can apply for the RCVS Advanced Practitioner Status.</p> <p>Subject to meeting all of the other entry requirements set out by RCVS in the Applicant Guidance Notes.</p>
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# Taught Modules

**Alexandra House**  
Whittingham Drive  
Wroughton  
Swindon  
SN4 0QJ

**01:**  **01.02.17**

**Examination of the eye**

**Speaker: Lorraine Fleming**

(BVetMed CertVOphthal MRCVS)

- Use diagnostic ophthalmic instruments including focal illumination, the direct ophthalmoscope, slit lamp biomicroscope and indirect ophthalmoscope to perform a confident ocular examination
- Undertake tonometry
- Undertake gonioscopy
- Understand more advanced and specialist techniques available for ophthalmic examination
- Consider radiography, electroretinography, ultrasound, CT and MRI scans as diagnostic aids
- Understand diagnostic cytology, microbiology and biopsy sampling and appreciate the applications of the different methods of investigation
- Describe a systematic approach to the investigation of ophthalmology cases including accurate record keeping

**02:**  **02.02.17**

**Anatomy and physiology of the eye, basic embryology and histology**

**Speaker: Lorraine Fleming**

- Understand basic ophthalmic embryology and post natal ocular development
- Describe comprehensively the anatomy of the eye
- Understand ocular physiology including the tear film, aqueous production, lens metabolism and retinal physiology

- Appreciate the normal and pathological appearance of histological samples including the significance of abnormalities detected
- Understand basic ocular immunology

**03:**  **10.04.17**

**Ocular therapeutics and pharmacology**

**Speaker: Claudia Hartley**

(BVSc CertVOphthal DipECVO MRCVS)

- Understand the principles of medicating the eye
- Be familiar with topical and systemic drug administration
- Explain vehicles and preparations for ophthalmic drug administration
- Appreciate classes of drugs
- Choose the correct drug for common ophthalmic conditions

**04:**  **11.04.17**

**The orbit and globe, eyelids and nictitans membranes**

**Speaker: Claudia Hartley**

- Describe the anatomy and clinical conditions involving the orbit, globe, eyelids and nictitans membranes (third eyelids)
- Understand the presenting signs of and differential diagnoses for congenital and acquired orbital disease
- Understand the effect of facial conformation on globe and eyelid position and its associated effects
- Appreciate breed predispositions and species differences

- Understand the aetiopathogenesis of proptosis and its treatment options
- Appreciate the different types of entropion and ectropion and their impact on ocular health
- Understand the aetiopathogenesis of nictitans membrane disorders

**05:**  **05.06.17**

**The conjunctiva and naso-lacrimal system: writing a case report**

**Speaker: Sally Turner**

(MA VetMB DVOphthal MRCVS)

- Describe the anatomy of the conjunctiva and understand the aetiopathogenesis of conjunctival disease and its treatment
- Describe the nasolacrimal system and abnormalities that can affect it
- Understand secretory and excretory components, normal lacrimation and the components of the pre-corneal tear film
- Appreciate kerato-conjunctivitis sicca
- Understand the problems associated with nasolacrimal drainage
- Appreciate the approach to writing a case report, including case selection, literature searches and accurate referencing

# Taught Modules

06:  06.06.17

## The cornea, sclera and episclera Speaker: Lorraine Fleming

- Describe normal corneal anatomy, corneal healing and the factors which can affect it
- Understand how the cornea responds to insults
- Understand the different causes of corneal ulceration and its treatment
- Explain non ulcerative corneal disease
  
- Appreciate the anatomy of the episclera and sclera and understand the pathology which can affect these

07:  24.07.17

## The uveal tract and lens Speaker: Sally Turner

- Recognise congenital and acquired defects involving the uveal tract and describe the presenting signs of anterior uveitis, posterior uveitis, panuveitis and the approach to diagnosis and treatment
- Approach non neurological abnormalities of the pupil
- Understand aqueous opacification
- Describe the anatomy and physiology of the normal lens
- Recognise lenticular disease and the range of congenital and acquired disease that can affect the lens and understand cataractogenesis
- Understand the approach to cataract surgery together with patient selection, aftercare and potential complications
- Appreciate primary and secondary lens luxation

08:  25.07.17

## Glaucoma and neuro-ophthalmology Speaker: Sally Turner

- Describe the production and drainage of aqueous humour and the pathophysiology of the normotensive globe
- Define glaucoma and understand the different types of primary and secondary glaucoma and species differences
- Appreciate treatment options for glaucoma
- Describe a logical approach to the investigation of neuro-ophthalmic problems and understand the relevant neurological pathways and the autonomic nerve supply
- Recognise normal and abnormal nystagmus
- Investigate and offer treatment options for blindness of central origin
- Understand disorders of ocular motility

09:  18.09.17

## The retina, vitreous and optic nerve

Speaker: Kerry Smith  
(BVetMed CertVOphthal DipECVO MRCVS)

- Understand the normal anatomy of the retina, species differences in retinal vascular patterns and the pathological changes which can occur and their manifestation
- Understand the process of chorioretinitis
- Appreciate both inherited and acquired retinopathies
- Understand the anatomy of the vitreous,

congenital and acquired conditions and explain the different types of vitreal degeneration

- Describe the anatomy and physiology of the normal optic nerve, explain congenital and acquired conditions of the optic nerve and understand the investigation of optic nerve disease

10:  19.09.17

## Ocular neoplasia and ocular manifestations of systemic disease

Speaker: Kerry Smith

- Recognise primary and secondary ocular neoplasia and explain its management
- Discuss the ocular manifestations of systemic disease including infectious, metabolic, nutritional, toxic, immune mediated or vascular aetiologies
- Understand the work up for suspected systemic disease
- Appreciate treatment options for systemic disease in general practice

# Taught Modules

11 & 12:  

17.10.17 & 18.10.17

## Ophthalmic surgery – practical techniques day 1 & day 2

Speaker: Lorraine Fleming

### Day one

- Recognise commonly used ophthalmic instruments and understand their use
- Use loupes and understand operating microscopes for surgical magnification
- Select appropriate suture material and needle designs
- Discuss pre and post-operative care of surgical patients and appropriate anaesthetic regimes
- Understand the basic surgical principles as they pertain to ophthalmic surgery

### Day two

- Perform common surgical techniques for treating disease of the orbit, globe, eyelids, third eyelid, conjunctiva and cornea
- Perform reconstructive eyelid surgery
- Understand and perform different methods for enucleation
- Understand the principles of intra ocular surgery

13:  27.11.17

## Inherited ocular disease and case based discussion

Speaker: Sally Turner

- Understand inherited ocular disease, the principles of genetics and modes of inheritance and pedigree data analysis

- Appreciate different methods of reducing such disease including eye testing schemes and genetic testing
- Explain the different conditions which affect different breeds of dog
- Clinically recognise congenital inherited conditions encountered such as collie eye anomaly, congenital cataract, retinal dysplasia, goniodysgenesis and persistent hyperplastic primary vitreous
- Clinically recognise non-congenital inherited conditions such as hereditary cataract, primary lens luxation, generalised progressive retinal atrophy and retinal pigment epithelial dystrophy
- Case based studies, delegates should be able to:
  - List differential diagnoses
  - Formulate investigation plans
  - Formulate treatment protocols for common ophthalmic problems

14:  28.11.17

## Comparative ophthalmology

Speaker: Ben Blacklock

(BVetMed CertVOphthal DipECVO MRCVS)

- Approach the ophthalmic examination of the rabbit, bird and reptile
- Have a basic understanding of the evolution of the eye
- Appreciate species differences in ocular anatomy
- Be familiar with common diseases seen in rabbits, birds and reptiles
- Discuss the role of various species in ocular toxicology

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# Pricing for 2017

Payment Options		Payments	Initial Payment	Total payable
All prices exclude VAT				
GPCert Programme:	Payment in full (5% discount)	£5,458.00	£924.00	£6,382.00
	12 monthly payments	£478.75		£6,669.00
Module Options:	Single module payment	N/A	N/A	£429.00
	Paired module payment	N/A		£816.00

In partnership with:



Modules 11 & 12 due to their practical nature are £1,099.00 (+ VAT).

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

## 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.



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