

# Continued Professional Development



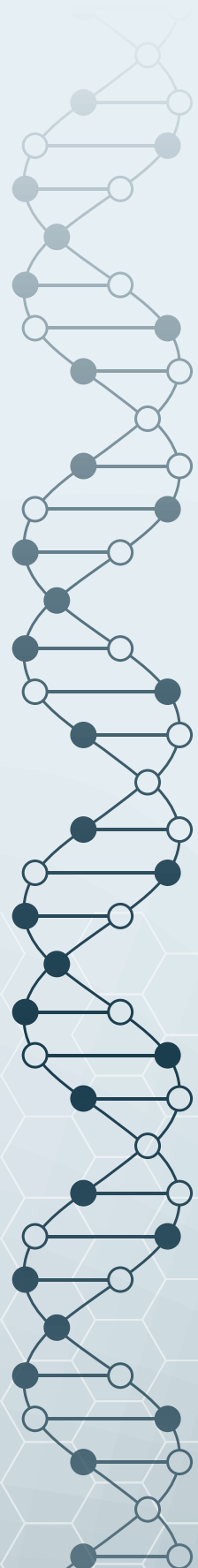
**NationWide**  
LABORATORIES

**FREE  
CONTENT**

**PAID  
CONTENT**

**BUNDLES**

**COMING  
SOON**



# Continued Professional Development



**NationWide**  
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# Cytology: How to get the best of it working as a team

Cytology is an extremely useful diagnostic tool, that can give us plenty of information when we work as a team. For the best possible interpretation of the cytological findings, we need to have presumptive diagnosis and understand the pathogenesis of the different conditions. Knowing this, we will be able to take the right sample, that will be evaluated by pathologists, which, considering the clinical history, location and presumptive diagnosis, can provide an accurate interpretation of the cytological findings. In this way, even though complementary diagnostic tests are frequently required, we can obtain an approximate, and in many cases definitive, accurate cytological diagnosis that helps the clinicians to select the best treatment and elaborate a prognosis.

## Learning Objectives:

- Association between presumptive diagnosis and types of samples
- Understand different types of sample collection according to different lesions
- Errors to avoid when taking and sending the sample Understand the association between cytology and histology of different lesions
- Identify different types of microscopic lesions

To view this webinar free of charge click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/cytology-how-to-get-the-best-of-it-working-as-a-team>



## Presented by Karina Fresneda

**MV. Specialist in Anatomohistopathological Veterinary Diagnosis**

Specialist in Anatomohistopathological Veterinary Diagnosis Karina graduated from the National University of the Centre of Buenos Aires Province in Argentina in 2000, and after two years of training she became Specialist in Anatomic-histopathological Veterinary Diagnosis. She has been teaching in Infectious Diseases at the same University for 15 years. At the same time, she was gaining experience, on her clinic and laboratory, as a clinician and working on clinical pathology, cytology and histopathology. She took a 3 year Residency in Anatomic Veterinary Pathology in University of California, Davis, where she received an intensive training on this field. She also enjoys teaching different courses on clinical pathology, cytology and histopathology.



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# Haematology and biochemistry results in equines: Interpretation and significance

This webinar covers the standard haematology and biochemistry tests performed at most UK laboratories and discusses interpretation with regards to organ systems and significance. Factors affecting certain parameters will be indicated as appropriate.

## Learning Objectives:

- Understanding basic haematology parameters.
- Biochemistry tests used for different organ systems.
- Understand when the result is significant.
- Interpretation in the light of clinical presentation.
- Further tests that may be indicated based on the results

To view this webinar free of charge click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/haematology-and-biochemistry-results-in-equines-interpretation-and-significance>



## Presented by Stacey A. Newton BVSc Cert EM (Int Med) PhD FRCPath MRCVS

Stacey qualified from the University of Bristol 1993. She then locums in general practice for six months before having a permanent job in a mixed practice in Pontefract. In 1995 she started an internal medicine residency in equine medicine at the University of Liverpool-based mainly at Leahurst. She obtained her certificate in equine medicine (internal medicine) during that time. At the end of the residency she went on to do a PhD in equine neurology, also based at the University of Liverpool. This was mainly based on headshaking in horses and working with Dr Knottenbelt. Part of the work was with Paul Eldridge a Neurosurgeon at The Walton Hospital, Liverpool. His speciality was Trigeminal neuralgia. The residency and PhD were funded by The home of Rest for Horses and Horseracing Betting Levy Board, respectively. The PhD was obtained in 2002. She then locumed for a variety of veterinary practices for six months before then joining Nationwide Laboratories which was then a privately-owned laboratory. She continued to work for the same laboratory as a clinical veterinary pathologist. She obtained her Diplomat of the Royal College of pathologists in 2008 and then went on to do become a Fellow of the Royal College of pathologists in 2010. She has various published papers during her time at university on equine medicine. She has also talked at the BEVA Congress and other venues providing CPD. She is currently working at Nationwide as a senior veterinary clinical pathologist.



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# Clinical pathology in cats and dogs: Why species, breed and age matter

The webinar will highlight important differences between canine and feline laboratory results, particularities of certain canine and feline breeds, as well as age-related differences in reference intervals of biochemical and haematological analytes.

## Learning Objectives:

- To recognise species differences in canine and feline haematology & biochemistry
- To recognise physiological haematology & biochemistry differences in young/growing patients
- To recognise haematology & biochemistry differences which may be seen in older patients
- To recognise common breed-associated differences in haematology & biochemistry
- To recognise common haematology & biochemistry abnormalities which may be artefactual

To view this webinar free of charge click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/clinical-pathology-in-cats-and-dogs-why-species-breed-and-age-matter>



## Presented by Helen Campbell BVM&S FRCPath MRCVS and Alina Bodnarlu DVM MSc PhD FRCPath MRCVS

Helen graduated from R(D)SVS Edinburgh in 2002 and worked in mixed and small animal practice in Derbyshire & Staffordshire for 5 years. In 2007 she joined NationWide Laboratories as a trainee clinical pathologist, obtaining her FRCPath in 2011. She particularly enjoys haematology, endocrinology, and case discussions and advice calls with vets.



Alina graduated from the Faculty of Veterinary Medicine Bucharest in 2004. Following her postgraduate studies, she worked for two years in small animal general practice in the UK. In 2010, she undertook a residency in Veterinary Clinical Pathology within a UK-based commercial veterinary diagnostic laboratory, with external training at the RVC and she was awarded her FRCPath in 2016. Between 2014 and 2017 Alina was a visiting teaching fellow at the School of Veterinary Medicine, University of Surrey. She joined NationWide Laboratories in 2017 and enjoys all aspects of veterinary clinical pathology, as well as discussing cases with clients.





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# What are you itching to know about feline atopic skin syndrome?

This webinar will aim to guide participants through the various cutaneous reaction patterns commonly seen in cats. Feline atopic skin syndrome (FASS) is likely similar to the one in dogs with genetic and environmental factor playing the major role. The hunting nature or the outside lifestyle of many cats makes controlling FASS challenging for both the owner and the veterinary surgeon. The management of FASS involves the use of anti-inflammatory/immunomodulatory drugs, allergen avoidance if feasible and allergen-specific immunotherapy.

## Learning Objectives:

- Know the most common environmental allergens causing FASS in cats
- Learn to recognise the cutaneous reaction patterns of cats with FASS
- Learn the most common therapeutic approach used in cats with FASS
- Discover which unlicensed drugs have been tried in cats with FASS
- Learn the benefit of the immunotherapy in cats with FASS

To view this webinar free of charge click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/what-are-you-itching-to-know-about-feline-atopic-skin-syndrome>



## Presented by Dr Rosario Cerundolo

DVM, Cert. VD, Dipl. ECVD, FRCVS

Rosario Cerundolo graduated from the Veterinary School, Naples (Italy) in 1987. In 1995 he started a Residency at the Royal Veterinary College (London, UK). In 1997 he gained the Certificate in Veterinary Dermatology; in 1998 the European Diploma in Veterinary Dermatology; in 2000 the RCVS Specialist in Veterinary Dermatology. In 2020 he was granted the Fellowship title of the RCVS. Until 2009 he was Associate Professor in Veterinary Dermatology at the University of Pennsylvania. Currently works at Dick White Referrals in Six Mile Bottom, and also as a consultant at Bayswater Referral Clinic in west London. He is a Honorary Associate Professor of Veterinary Dermatology at the University of Nottingham. He has been the former President of the European College of Veterinary Dermatology, the Chair of the Scientific Organising Committee of two of the past Annual Congress of the ESVD-ECVD. He has been the treasurer of the WCVD7 (Vancouver July 2012) and the WCVD8 (Bordeaux June 2016) and of the coming WCVD10 (Boston, July 2024).



# Getting the best of your pathologist: Post-mortems and surgical biopsies. Tips and tricks for vets in practice

Post-mortem examination (PME) may be offered by clinicians to investigate sudden unexplained death in pets. Beforehand, consent should be obtained, history taken, and the body weighed and scanned for a microchip. PME should be carried out within 24 hours of death and freezing the body should be avoided. All organs should be examined systematically, and descriptive notes and photographs taken. Samples of liver, lung, kidney and any lesions should be taken for histopathology. Liver, kidney, stomach content, lung, and fat may be frozen for toxicological analysis.

Incisional biopsies (IB) are useful for cases where the clinician requires an accurate diagnosis for decision-making. This is especially true for cases where radical surgery is anticipated (e.g. limb amputation for osteosarcoma) or for lesions which are not easily assessed by FNA (e.g. feline alimentary lymphoma). Excisional biopsies (EB) are not only diagnostic but also potentially curative and allow evaluation of surgical margins. Regardless of the type of sample submitted, it is imperative that relevant clinical history and differential diagnoses are communicated to the pathologist to maximize diagnostic accuracy.

To view this webinar free of charge click here or scan the QR code:

<https://www.bsavalibrary.com/content/chapter/10.22233/9781910443774.ch93sec2>



**Presented by Alison Lee** BSc MVB MRCVS DipACVP DVMS  
**and Danilo Wasques** MV MSc DipACVP

Alison studied veterinary medicine in University College Dublin (UCD). She also undertook an intercalated degree in veterinary pathology at the Royal Veterinary College. After a year in small animal practice she completed her anatomic pathology residency in UCD and became a diplomate of the American College of Veterinary Pathology. Her interests include oncology and exotic animals.



Danilo graduated from the University of São Paulo in Brazil in 2008, and became a resident in veterinary pathology in Londrina State University the next year. After gaining experience with cytology and surgical pathology of small animals in commercial diagnostic laboratories, Danilo went back to the University of São Paulo and obtained in 2018 a Master's degree in comparative and experimental pathology, with a focus in oncopathology. He has specialist interest in oncology, gastrointestinal pathology and dermatopathology.



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# Histiocytic diseases in dogs and cats: An overview of clinical presentation and diagnosis

Histiocytic proliferative disorders are the source of some confusion, given their complex nomenclature and nonspecific clinical presentations. These diseases occur in both dogs and cats and derive from Langerhans cells, dendritic cells and macrophages. This presentation provides an overview of histiocytic diseases in dogs (histiocytoma, cutaneous Langerhans cell histiocytosis, cutaneous histiocytosis, systemic histiocytosis, histiocytic sarcoma and dendritic cell leukaemia) and in cats (progressive histiocytosis, histiocytic sarcoma and pulmonary Langerhans cell histiocytosis), including their cellular origins and clinical presentation. An overview of their diagnosis, including the use of cytology, histopathology and immunohistochemistry is also provided. This session is aimed at veterinary surgeons, veterinary students and veterinarians with an interest in pathology.

## Learning Objectives:

- Recognise the various histiocytic disorders that occur in dogs and cats, including their origins and clinical presentation;
- Know the key differences and similarities between these conditions;
- Gain an understanding of the diagnostic approach to these diseases;
- Appreciate how immunohistochemistry may be used in the diagnosis of histiocytic diseases and the limitations of this technique in practice.

To view this webinar free of charge click here or scan the QR code:

<https://www.bsavalibrary.com/content/chapter/10.22233/9781913859008.Ch169>



## Presented by Alison Lee

BSc MVB MRCVS DipACVP DVMS

Alison studied veterinary medicine in University College Dublin (UCD). She also undertook an intercalated degree in veterinary pathology at the Royal Veterinary College. After a year in small animal practice she completed her anatomic pathology residency in UCD and became a diplomate of the American College of Veterinary Pathology. Her interests include oncology and exotic animals.





# Canine mast cell tumours: 50 shades of grading

Canine mast cell tumours (cMCTs) are common tumours in dogs, arising in the skin, subcutis and other sites such as mucous membranes and viscera. The biologic behaviour of cMCTs arising in the skin (cutaneous cMCTs) is extremely variable: some display a benign biologic behaviour and can be cured by marginal excision, while others demonstrate malignant behaviour, with recurrence despite wide margins, and metastatic spread to lymph nodes and other viscera. Predicting the behaviour of these neoplasms can be challenging for vets and pathologists alike.

This talk will provide a brief overview of the background to cutaneous cMCTs, followed by a discussion of the various means by which the potential biologic behaviour can be predicted. These include clinical assessment of the appearance and behaviour of the neoplasm, histologic grading (with both the three-tier/Patnaik and two-tier/Kiupel grading system), mitotic count, the immunohistochemical prognostic indicator Ki67, KIT staining pattern and PCR for mutations in exons 8 and 11 in the c-kit gene. This will give vets in practice an understanding of the various prognostic indicators available for assessment of these neoplasms, their potential limitations and in which practical scenarios they may be useful.

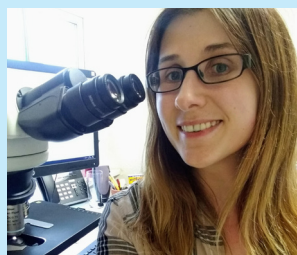
## Learning Objectives:

Recap of general background information re cMCTs

- How cMCTs are diagnosed
- Gain an understanding of the histologic parameters used to predict the biologic behaviour of cMCTs
- Gain an understanding of further laboratory tests used in the assessment of cMCT biologic behaviour:
- Immunohistochemical staining for Ki67
- KIT staining patterns
- c-kit PCR

To view this webinar free of charge click here or scan the QR code:

<https://www.bsavalibrary.com/content/chapter/10.22233/9781913859114.Ch100>



## Presented by Alison Lee BSc MVB MRCVS DipACVP DVMS

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# Interpretation of cytology and histology reports: An insight into the mind of a pathologist

Interpretation of histology and cytology reports is often quite straightforward, but it is not uncommon for clinicians to have to manage cases and make decisions in face of some degree of uncertainty that some reports convey.

In this presentation, a series of clinical cases will be presented, together with the results of a pathology report (cyto and/or histo), and the audience will have the opportunity to vote on how they would manage that case in light of these results.

Also, since nearly every diagnostic decision made by a pathologist has some degree of clinical impact, it will be an opportunity to give an insight into how the mind of a pathologist works.

Being an interactive presentation, it will be an opportunity to exchange experiences and to give feedback on how clinicians manage common and uncommon cases. In this presentation, each case/question is not supposed to have a correct answer. Rather, different approaches to each case will be presented, and a brief discussion of each case will take place afterwards, with some approaches backed up by scientific evidence whenever possible. The final objective is to strengthen the communication between pathologists and clinicians.

To view this webinar free of charge click here or scan the QR code:

<https://www.veterinary-practice.com/videos/interpretation-cytology-histology-reports>



## Presented by Danilo Wasques MV MSc DipACVP

Danilo graduated from the University of São Paulo in Brazil in 2008 and became a resident in veterinary pathology in Londrina State University the next year. After gaining experience with cytology and surgical pathology of small animals in commercial diagnostic laboratories, Danilo went back to the University of São Paulo and obtained in 2018 a Master's degree in comparative and experimental pathology, with a focus in oncopathology. In October 2021 Danilo passed the ACVP Phase II Certifying Examination in Veterinary Anatomic Pathology and earned the status of Diplomate. He has specialist interest in oncology, gastrointestinal pathology and dermatopathology.



# Cutaneous round cell tumours in dogs: Differentials and diagnostic dilemmas

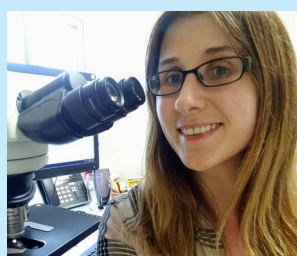
Dogs frequently present to first-opinion practice with skin masses, which may require diagnostic work-up including fine needle aspirate and/or biopsy. Cutaneous round cell tumours (CRCTs) (including mast cell tumours, histiocytic neoplasms, plasmacytomas, lymphomas and melanomas) comprise a significant proportion of these masses. Transmissible venereal tumour (TVT) is another CRCT, albeit one less frequently encountered in the UK. Diagnosis of these neoplasms is usually straightforward, but in some cases, these neoplasms can mimic each other (or other tumour types) requiring the pathologist to recommend further tests including immunohistochemistry. Frustratingly, in rare cases, immunohistochemistry results may be equivocal. This presentation provides a brief overview of round cell tumours in dogs as well a review of several case examples.

## Learning Objectives:

- Review the clinical presentation of CRCTs
- Review the cytologic and histologic findings of CRCTs Understand why a straightforward diagnosis may not always be achievable
- Understand the utility of immunostaining in diagnosing CRCTs
- Review interesting causes in which CRCTs posed a diagnostic dilemma to the pathologist

To view this webinar free of charge click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/cutaneous-round-cell-tumours-in-dogs-differentials-and-diagnostic-dilemmas-1>



## Presented by Alison Lee BSc MVB MRCVS DipACVP DVMS

Alison studied veterinary medicine in University College Dublin (UCD). She also undertook an intercalated degree in veterinary pathology at the Royal Veterinary College. After a year in small animal practice she completed her anatomic pathology residency in UCD and became a diplomate of the American College of Veterinary Pathology. Her interests include oncology and exotic animals.



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# Lunchtime basic bitesize pathology: Small animal mammary pathology

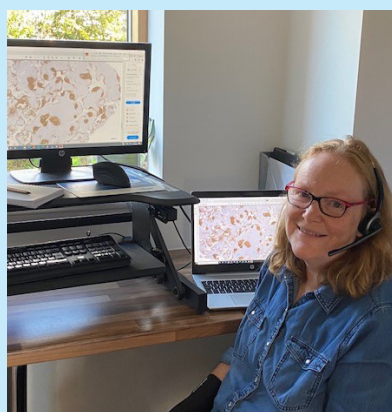
Grab a cuppa, some snacks and join us for an overview of mammary pathology in small animals. Mammary neoplasia is very common in dogs and cats. The diagnosis is confirmed by histopathology and is important for determining treatment and prognosis. In this session we will look at how to approach diagnosing mammary masses using cytology and histology and what to expect from your pathology report. We will speak about classification and the use of grading for mammary tumours in dogs and cats, as well as discussing some of the more recent helpful prognostic indicators. We will also touch upon mammary tumours in small mammals. The session is aimed at veterinary practitioners, nurses, new graduates and clinical stage veterinary students.

## Learning Objectives:

- Most common mammary tumours in dogs and cats
- Is there any value in a fine needle aspirate?
- The best way to submit a biopsy
- Classification and grading of mammary tumours in dogs and cats
- Useful prognostic indicators
- Mammary tumours in small mammals

To purchase this webinar click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/lunchtime-basic-bitesize-pathology-small-animal-mammary-pathology>



## Presented by Sandra Dawson

BSc BVMS FRCPath MRCVS

Sandra is a graduate of Aberdeen and Glasgow Universities, gaining a BSc in agriculture with honours in animal science in 1991 and her veterinary degree in 1995. She moved from working in mixed practice in 1997 to take up a residency in veterinary pathology at Edinburgh University, latterly lecturing in reproductive pathology. After 5 years in industry, where she gained her FRCPath, Sandra joined Nationwide Laboratories in May 2006. In 2011 Sandra was appointed to the Royal College of Pathologists board of examiners in the speciality of small domestic animals. She enjoys teaching and mentoring and is an active STEM ambassador. Sandra works with surgical biopsies and fine needle aspirates. She can advise on all aspects of histopathology in a wide range of species.



# Hypercalcaemia in dogs and cats: An overview

Hypercalcaemia is a common finding in both dogs and cats. In the dog common presentation is PUPD and hypercalcaemia is a differential that must be excluded when PUPD is the presenting clinical sign. In the cat clinical signs are often vague with anorexia as the most common clinical sign. The webinar will focus on pathogenesis and discuss parathyroid dependent as well as parathyroid independent hypercalcaemia. The difference between total calcium and ionised calcium will be discussed and its use in diagnosis along with the parathyroid hormone as well as the use of parathyroid related hormone, vitamin D and calcitriol. Sample management and submission will also be covered. Treatment will be mentioned at the end but will not be extensively discussed.

## Learning Objectives:

- What is defined as hypercalcaemia?
- Total calcium and ionised calcium: what is the difference?
- The difference between parathyroid related and parathyroid independent hypercalcaemia.
- Common clinical signs in the dog and cat.
- The use of ionised calcium and parathyroid hormone in diagnosis.
- Common causes of hypercalcaemia in the dog and cat. Treatment options.

To purchase this webinar click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/hypercalcaemia-in-dogs-and-cats-an-overview>



## Presented by Stacey A. Newton

BVSc Cert EM (Int Med)  
PhD FRCPath MRCVS

Stacey qualified from the University of Bristol 1993. She then locums in general practice for six months before having a permanent job in a mixed practice in Pontefract. In 1995 she started an internal medicine residency in equine medicine at the University of Liverpool-based mainly at Leahurst. She obtained her certificate in equine medicine (internal medicine) during that time. At the end of the residency she went on to do a PhD in equine neurology, also based at the University of Liverpool. This was mainly based on headshaking in horses and working with Dr Knottenbelt. Part of the work was with Paul Eldridge a Neurosurgeon at The Walton Hospital, Liverpool. His speciality was Trigeminal neuralgia. The residency and PhD were funded by The home of Rest for Horses and Horseracing Betting Levy Board, respectively. The PhD was obtained in 2002. She then locumed for a variety of veterinary practices for six months before then joining Nationwide Laboratories which was then a privately-owned laboratory. She continued to work for the same laboratory as a clinical veterinary pathologist. She obtained her Diplomate of the Royal College of pathologists in 2008 and then went on to do become a Fellow of the Royal College of pathologists in 2010. She has various published papers during her time at university on equine medicine. She has also talked at the BEVA Congress and other venues providing CPD. She is currently working at Nationwide as a senior veterinary clinical pathologist.





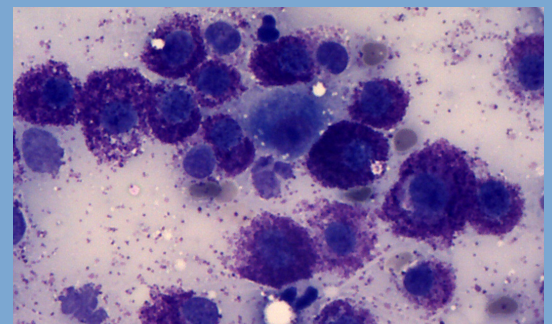
# Basic cytology for practitioners

The webinar is aimed at veterinary surgeons and vet nurses who have started or wish to start preparing and interpreting their cytology in-house. It will cover the most common situations encountered in practice where cytology may be useful for diagnosis.

## Learning Objectives:

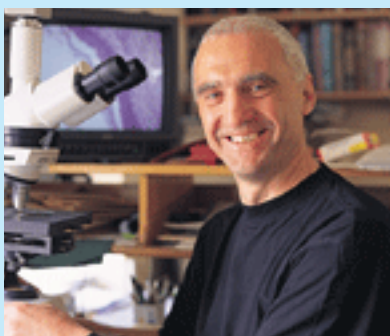
- Equipment needed;
- Acquisition of good quality samples for microscopy;
- Basic principles of interpretation; Examples of common lesions;
- Problems and artefacts.

**MCT - even under low power these cells are not adhering together and are lying separated. This is typical of a round cell tumour. These round cells have cytoplasmic granules and this is absolutely diagnostic for a mast cell tumour.**



To purchase this webinar click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/basic-cytology-for-practitioners>



## Presented by Trevor Whitbread

BSc BVSc DipECVP MRCVS

Trevor Whitbread BSc BVSc DipECVP MRCVS was in a mixed practice in Leicester before returning to Liverpool as a lecturer in the Department of Veterinary Pathology. He gained experience in general diagnostic pathology and clinical chemistry before specialising in histopathology and cytology. He has a special interest in dermatopathology and is now a Diplomat of the European College of Veterinary Pathology.



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# Help! It's a ferret!

Despite being domesticated for over 3000 years, many vets still feel unequipped to deal with these playful pets. Over the last ten years there has been a dramatic increase in ferrets being kept purely as pets and now there are more pet ferrets than working ferrets in the UK.

With an undeserved reputation as being aggressive, smelly animals, most ferrets are actually delightful, curious and playful animals. The vast majority of pet owners identify their pet as being a member of their family and as such they expect the same high level of care for their pet ferret as their pet dog or cat.

This session is designed to show how ferrets can easily be integrated into your caseload. Husbandry will be briefly covered and introduce common conditions encountered in the ferret. Time will be given for questions and discussion.

This session is suitable for: veterinary surgeons, veterinary nurses, and clinical stage veterinary students.

## Learning Objectives:

- Ferrets are not all aggressive!
- Vets have transferable skills
- Reproductive control
- Develop a differential list for common conditions

To purchase this webinar click here or scan the QR code:

<https://www.thewebinarvet.com/webinar/help-its-a-ferret>



## Presented by Madonna Livingstone

BVMS MRCVS

Known as the practice geek, Madonna qualified from Glasgow Vet School in 2002. She joined the Ark Veterinary Clinics Ltd Coatbridge in 2004 and has grown the exotic side of the practice to the extent it now occupies over 70% of her case load both first opinion and referral. Although her main interest is in exotic animal species, she also enjoys soft tissue surgery and behaviour of all species. Madonna is an exotics consultant for NationWide Laboratories which includes interpretation of results for many different species. She is always happy to help any vets with cases. Currently Madonna is owned by two GSD, nine ferrets, and two rescue cockatiels.



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# Exotics: CPD bundle

## Common Conditions in Uncommon Species

Many vets and nurses who are not familiar with exotics panic when they are presented with one. But if you go back to basics and think about it logically, you will find that it is much easier than you expected. In this webinar Madonna Livingstone goes through some common conditions in such species as rodents, reptiles and exotic birds. The webinar features detailed case studies complete with diagnosis and treatment options. Madonna gives practical advice and shares resources that will help vets and nurses in practice to provide appropriate care for an exotic pet.

## My Approach to the Anorexic Rabbit

Despite the fact that rabbits are the 3rd most popular pet in the UK, they are still classified as exotics. In this webinar Madonna Livingstone shares her experience in treating rabbits and gives practical advice to vets and nurses on how to transfer their skills from dogs and cats to the less familiar species. Anorexia in rabbits is a real medical emergency. It can be caused by anything and the animal can die very quickly. An understanding of basic rabbit anatomy and physiology in conjunction with appropriate care, prompt diagnosis and treatment are essential for a successful outcome. It is also vital to remember that anorexia is a symptom, not a diagnosis. Madonna goes through detailed case studies explaining the causes and effects of anorexia in this species.

**To purchase this bundle click here or scan the QR code:**

<https://www.thewebinarvet.com/shop/product/exotics-bundle-with-nationwide-labs/?v=79cba1185463>



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# Cattle: CPD bundle

## **Lameness: A Condition of Cows that Starts in Heifers**

Lameness is one of the major ailments of dairy cows, but the problem starts in heifers. The distress it causes to the afflicted animals is reflected in decreased milk yields and an increase in infertility. This webinar explores the issue and provides a guide to prevention and hoof care. It covers the incidence and costs of lameness, the structure of foot, with its function and possible inflammation, hoof trimming, and the treatment of common diseases.

## **Improving Calf Rearing: Colostrum, Management & Disease**

The purpose of this webinar is to enable the dairy farmer, beef producer and calf rearer to keep their stock healthy and productive. The emphasis is on the importance of caring for the animals correctly from the very early stages and the big effect this has on subsequent performance and economics. Newborn calves must receive high quality colostrum. Colostrum contains antibodies or immunoglobulins (essential proteins) necessary to provide the calf with protection from disease. Roger Blowey explains in detail the best practices in feeding and caring for calves to give them a good start in life and to provide for better development of the animal from young calf to adult.

## **Milk Quality and Mastitis Control**

Mastitis in dairy herds is a worldwide problem, with significant implications for milk yields and quality, economic losses, and animal health and welfare. Effective control makes a considerable difference to the farmer and the animal. Roger Blowey explains basic principles in a clear and practical way, covering anatomy, epidemiology, milking machines, disinfection, somatic cell counts, and diseases of the udders and teats in order to provide an understanding of the causes of mastitis and measures of control and prevention.

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## **Presented by Roger Blowey** BSc, BVSc, FRCVS, FRAgS, RCVS

Roger Blowey trained at Bristol University where he gained honours degrees in veterinary science and biochemistry. After a period at the Central Veterinary Laboratory, Weybridge, studying metabolic profiles, he returned to Gloucester where he is a partner in a mixed practice, the Wood Veterinary Group. Roger's special interests are preventive medicine and the interaction of nutrition, disease and environment on the productivity of livestock units. He has lectured extensively on these subjects in Britain and overseas, featured in educational programmes on radio and television and has written numerous original papers and books on a wide range of topics. He is an RCVS Specialist in cattle Health and Production, and has been awarded a Fellowship of the Royal College of Veterinary Surgeons for meritorious contributions to learning, the RASE Bledisloe Veterinary Award for outstanding achievements in the veterinary field, and the BVA Dalrymple-Champneys medal for work of outstanding merit in the advancement of veterinary science.



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# Parasitology: CPD bundle

## **Flea Insecticide Resistance - Is It Why My Flea Control Isn't Working?**

Fleas are a complex insect species and cause pets and their owners a lot of concern worldwide. Besides being clinically important, the cat flea, *Ctenocephalides felis*, is responsible for the production of flea allergic dermatitis, acts as the vector of many bacterial pathogens, and serves as the intermediate host for cestode and filarid parasites. Despite an arsenal of effective products, failures in flea control programmes are commonplace. In this webinar Ian Wright talks about effective flea control and the reasons why it might fail, as he feels that the role of insecticide resistance is overplayed. Ian speaks about the flea reproductive break point — what it is and how it is pivotal for successful control. He believes that it is vital for veterinary professionals to give good advice, consider compliance and manage expectations if flea control programmes are to be successful.

## **Winning the War Against Fleas**

Flea populations thrive thanks to warmer winters; thus, we can expect to see more and more fleas on our pets. The most common flea infesting cats, dogs, ferrets and rabbits is the cat flea. The success of the cat flea is defined by its rapid reproduction, persistent environmental stage and the ability to parasitise a wide range of mammalian hosts, including foxes and hedgehogs. Ian speaks about cat flea's life cycle, its veterinary significance, diagnosis, treatment and control, including considerations for choosing effective adulticides as well as challenges one might face with pyrethroids and growth regulators. To bring flea infestations under control and then keep them off our pets we need to treat all susceptible pets in the home with a product that will kill fleas quickly and efficiently to stop them breeding. Pet owners need to be educated that not all flea treatments are the same and they need to be applied correctly in the context of each particular case.

## **Toxocarosis: Zoonotic Risk and Management**

Toxocarosis is a rare infection transmitted from animals to humans (zoonosis) caused by the parasitic roundworms commonly found in the intestine of dogs (*T. canis*) and cats (*T. cati*). Ian speaks about the life cycle of roundworms, zoonotic potential, risk factors, control and prevention. Humans can catch it mostly from handling soil or sand contaminated with infected animal faeces. It usually affects young children, because they are more likely to play in a contaminated environment and put their hands in their mouths. However, cases have been reported in people of all ages. The best way to reduce the chances of developing toxocarosis is to practise good hygiene: washing hands with soap and warm water after handling pets or coming into contact with sand or soil. Toxocarosis is preventable and debilitating disease. Responsibility lies with the councils and veterinary profession to promote regular deworming, hygiene and disposal of faeces.

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## **Presented by Ian Wright** BVMS, MSc, MRCVS

Ian is a veterinary surgeon and co-owner of the Mount Veterinary Practice in Fleetwood. He has a master's degree in veterinary parasitology and carries out research in practice including work on intestinal nematodes and tick-borne diseases. He is head of the European Scientific Counsel of Companion Animal Parasites (ESCCAP) UK and Ireland and guideline director for ESCCAP Europe. Ian has numerous peer reviewed published articles and is editorial board member for Companion Animal journal as well as peer reviewing for numerous other journals.





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# Endocrinology: CPD bundle

Addison's disease and Cushing's syndrome are opposite sides of the same coin. Both are manifestations of dysfunction of the adrenal glands. Cushing's syndrome is marked by excessive levels of cortisol. On the other hand, Addison's Disease is caused by low levels of cortisol and aldosterone.

NationWide Laboratories put together a CPD bundle dedicated to these two common endocrine disorders, testing for which is included in our portfolio. NationWide Specialist Laboratories is part of our group specialising in veterinary endocrinology. We use high quality radioimmunoassay techniques for hormone analysis. We have a wide range of knowledge, expertise and equipment and our diagnostic services are supported by access to several world-renowned veterinary clinical and laboratory endocrinologists.

## Hyperadrenocorticism diagnosis and treatment monitoring

Hyperadrenocorticism (HAC) also known as Cushing's syndrome is a condition in which the adrenal glands overproduce certain hormones, in particular cortisone. It is a common endocrine syndrome that affects middle-aged and geriatric dogs. There are two major types of HAC in dogs. Pituitary-dependent hyperadrenocorticism (PDH) is the result of the inappropriate secretion of adrenocorticotrophic hormone (ACTH) by a pituitary adenoma. Adrenal-dependent hyperadrenocorticism (ADH) comes from a tumour in one of the adrenal glands that sit on top of the kidneys. It is necessary to differentiate between PDH and ADH to provide a more accurate prognosis and enable the full range of possible treatments to be discussed with the dog's owner. In this webinar Peter Graham goes through symptoms, diagnostics and treatment options. The first step in the approach to Cushing's disease is to use a combination of the clinical signs and laboratory abnormalities to determine if confirmatory testing is required. Peter gives a detailed overview of screening laboratory tests as well as endocrine diagnostic tests with their sensitivity and specificity ratios. He also speaks about pharmaceutical products to be used as medical treatment and monitoring therapies.

**Presented by Peter Graham and Michael Herrtage**



## Presented Peter Graham BVMS PhD CertVR DipECVCP MRCVS

Peter graduated from Glasgow in 1989; he is a clinical pathologist and endocrinologist with an international reputation. Following his post-graduate studies, he was appointed as a lecturer in Veterinary Clinical Pathology at Glasgow. He was Assistant Professor and Section Chief of the endocrinology section of the Animal Health Diagnostic Laboratory at Michigan State University, recognised as the world's largest endocrinology laboratory. His particular professional interests include internal medicine and clinical pathology. In addition, Peter has an impressive bibliography and is a popular speaker at veterinary meetings throughout the world. He was Managing Director of NationWide Laboratories and CSLS 2002-2014 and is now Associate Professor of Endocrinology and Clinical Pathology, University of Nottingham.

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# Endocrinology: CPD bundle

*Continued*

## Atypical hyperadrenocorticism & hypoadrenocorticism

Atypical hyperadrenocorticism (AHAC) is a syndrome in which a dog appears to have hyperadrenocorticism based on history, physical examination and clinico-pathological findings, but ACTH stimulation test, LDDXM suppression test (and UCCR) fall into accepted reference ranges. Hypoadrenocorticism is a syndrome that results from deficiency of both glucocorticoid and mineralocorticoid secretion from adrenal cortices. Destruction of more than 95% of both adrenal cortices causes a clinical deficiency of all adrenocortical hormones and is termed primary hypoadrenocorticism (also known as Addison's disease). Atypical hypoadrenocorticism is the term used to describe cases of primary hypoadrenocorticism in which the serum sodium and potassium concentrations at the time of testing are within their reference ranges. In this webinar Michael Herrtage speaks about clinical signs and diagnostics, explores laboratory findings and gives an overview of treatment options.

**Presented by Peter Graham and Michael Herrtage**

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## Presented Michael Herrtage

MA BVSc DVSc DVR DVD DSAM MRCVS Dip ECVIM Dip ECVDI

Michael Herrtage graduated in Veterinary Medicine from the Liverpool University in 1975. He is currently Professor of Small Animal Medicine in the Department of Veterinary Medicine. He became a Fellow of St. Edmund's College in 1990. He and is in charge of the small animal medicine and diagnostic imaging services at the Queen's Veterinary School Hospital. His clinical responsibilities include all aspects of small animal medicine and diagnostic imaging, but he has a particular interest in endocrine and metabolic disorders. He has spoken at many international meetings and published over 200 articles in refereed journals. He was awarded the British Small

Animal Veterinary Association (BSAVA) Woodrow Award in 1986 for outstanding contributions in the field of small animal veterinary medicine and the BSAVA Blaine Award for outstanding contributions to the advancement of small animal medicine in 2000. In 2014, he was awarded the World Small Animal Veterinary Association International Award for Scientific Achievement for outstanding contributions by a veterinarian, who has had a significant impact on the advancement of knowledge concerning the cause, detection, cure and/or control of disorders of companion animals. He has been President of the British Veterinary Radiology Association, President of the British Small Animal Veterinary Association, President of the European Society of Veterinary Internal Medicine and the first President of the European Board of Veterinary Specialisation, which was instrumental in promoting and co-ordinating the development of veterinary specialisation in Europe. He is a Diplomate of both the European College of Veterinary Internal Medicine and of the European College of Veterinary Diagnostic Imaging and was until recently President of the European College of Veterinary Internal Medicine.



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# Companion: CPD Bundle

## Well pet, unwell lab results: what next?

A comprehensive physical examination and diagnostic laboratory tests are invaluable for detecting health problems early in senior pets. Wellness screens can provide reassurance of “wellness” and identify subclinical disease for prognosis and early intervention. However, “abnormal” results can be generated when there are no clinical signs. In this webinar Peter Graham shares his experience on how to read these results. He speaks about the statistics of reference ranges (which by definition imply probability of one or more “abnormal” results) vs cut off values and the importance of specificity in wellness and screening programmes, positive and negative predictive values and precision of analysers. His advice is not to be misled by pre-analytical and analytical errors, to focus on reassurance of the “normal” results, though certain abnormalities even in a well appearing animal warrant repeat testing or work up. Peter goes through the most common senior abnormalities and helps his audience to conclude: “Is the result important and what should be done next?”

## Presented by Peter Graham BVMS PhD CertVR DipECVCP MRCVS

## Recent advances in the diagnostic of Chronic Kidney disease in companion animals

For veterinarians, one important concern is an early diagnosis of chronic kidney disease (CKD), defined as primary renal disease present for an extended period of time, primarily in elderly cats. In dogs, CKD is less common but progresses more rapidly, with survival times after diagnosis often less than a year. In this webinar Sam Williams speaks about the importance of CKD in clinical practice and frequency in which the condition is seen among cats and dogs. Then he moves onto the pathology behind this condition and how it is thought the disease develops on the cellular level. Sam speaks about the ways CKD is generally diagnosed currently and about new tests – SDMA and GFR – which may enable clinicians to identify the disease before the clinical signs are present. He gives a detailed overview of cases he has worked on recently using these new diagnostic methods and describes their outcomes. And finally, he speaks about screening protocols that can be set up to catch the problem earlier and what categories of patients should be targeted for screening.

## Presented by Sam Williams PhD MSc

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# Companion: CPD Bundle Continued

## Ultrasonography in veterinary acute and critical care

Veterinarians use many modes of imaging, from radiographs (X-rays) to computed tomography (CT) scans and magnetic resonance imaging (MRI). Each type employs different methods to create images, and each is best suited to distinct bodily components. While CT and MRI units are rarely seen outside of large specialty practices, ultrasound technology is becoming more and more common, with many clinics using ultrasound machines on a daily basis for diagnosis and other procedures. It is non-invasive, reliable, fast and affordable. In this webinar Roger Wilkinson goes through case studies and shows how ultrasound can help to get diagnosis sooner than later which is really important in acute and critical cases.

**Presented by Roger Wilkinson** MA VetMB CertVD CertSAM MRCVS IVUSS certificate holder

## Cytology and culture-guided antibiotic use

Antimicrobial resistance (AMR) represents one of the most important human and animal health-threatening issues worldwide. The question Stephen Sheen is posing in this webinar is: "If prescribing is linked to AMR, would reducing the number of prescriptions reduce the rate at which AMR increases?" He goes through a number of case studies showing methods that can be used to detect if bacterial infection is present, including cytology and culture to diagnose bacterial infection correctly. Stephen points out that everyone involved in animal healthcare has a part to play in fighting the issue. For example, a practice policy for empirical prescribing (whilst awaiting cultures) can optimize therapy and minimise inappropriate use of antibacterials, so does avoiding using certain antibacterials as first line agents and only using them when other agents are ineffective (ideally determined by culture and sensitivity testing). This webinar shows how prudent use of antimicrobials helps to reduce the incidence of infections that involve multi-drug resistant bacteria which is key in preventing the spread of these organisms and in maintaining the efficacy of the drugs that are currently available.

**Presented by Stephen Steen** MSc FIBMS CHS (ABHI)

## Personalised medicine - the future of life-long preventative care

This webinar will explore the concept of personalised / precision medicine and how to start planning for its implementation in day to day practice. Personalised Medicine tailors veterinary care to individual pets based on their predicted risk of disease and likely response to intervention. Veterinary professionals acknowledge the benefits of personalised medicine, but those benefits can be difficult to achieve in practice unless there is appropriate team training and commitment. Most pet owners want care to be tailored to the needs of their specific pets, but don't necessarily know what their pets need – for this they rely on the veterinary health care team.

**Presented by Noam Pik** BVSc BMVS MBA MACVS



## Presented Peter Graham BVMS PhD CertVR DipECVCP MRCVS

Peter graduated from Glasgow in 1989; he is a clinical pathologist and endocrinologist with an international reputation. Following his post-graduate studies, he was appointed as a lecturer in Veterinary Clinical Pathology at Glasgow. He was Assistant Professor and Section Chief of the endocrinology section of the Animal Health Diagnostic Laboratory at Michigan State University, recognised as the world's largest endocrinology laboratory. His particular professional interests include internal medicine and clinical pathology. In addition, Peter has an impressive bibliography and is a popular speaker at veterinary meetings throughout the world. He was Managing Director of NationWide Laboratories and CSLS 2002-2014 and is now Associate Professor of Endocrinology and Clinical Pathology, University of Nottingham.



## Presented Sam Williams PhD, MSc

Sam studied Natural Sciences at Cambridge University, specialising in Zoology, before returning to London to complete a master's in forensic science at King's College, London. He then stayed at King's to complete his PhD, specialising in analytical chemistry with a focus on mass spectrometry. Then he headed up the development of a commercial service aimed at the veterinary market, working both with the Royal Veterinary College and a commercial partner, deltaDOT, developing therapeutic drug monitoring assays and establishing a commercial service to offer these services to practicing vets. He is a member of the London Toxicology Group.



## Presented Roger Wilkinson MA VetMB CertVD CertSAM MRCVS IVUSS certificate holder

When Roger qualified in 1991 there wasn't a post-grad medicine qualification available, so he did a dermatology certificate as the next best thing. In 1997 the RCVS created the CertSAM and he got to do the certification that he wanted in the first place. Over the years, medicine cases lead to him spending more and more time in ultrasonography. Since there was no ultrasonography-only qualification in the UK, he signed up with the USA-based International Veterinary Ultrasound Society (IVUSS) and got CertSAM in 2002. Finally, in November 2015 Roger completed the ESPVS cardiology PgC programme which carries eligibility for advanced practitioner status for cardiology. Today Roger is Advanced Practitioner for internal medicine & cardiology and partner at Vet Practice Support.



## Presented Stephen Steen MSc FIBMS CHS (ABHI)

Stephen has two Fellowships of the Institute of Biomedical Sciences (Bacteriology and Virology), is Board Certified as a Histocompatibility Specialist with the American Board of Histocompatibility & Immunogenetics (ABHI), holds a Master's Degree in Pathological Sciences with an Immunology specialty, and has both an HNC in Biomedical Sciences (Medical Microbiology elective) and an HND in Animal Welfare and Management. He studied at John Moores University, Liverpool, and at The University of California, San Francisco. Stephen has authored many papers on multi-drug resistant bacteria and their treatment, as well as giving talks on that subject. Stephen worked as a Laboratory Manager and Microbiology Advisor at NationWide Laboratories.



## Presented Noam Pik BVSc, BMVS, MBA, MACVS

Noam graduated as a veterinary surgeon from Murdoch University, WA. Australia in 1996 after completing an independent research project on the effects of Progesterone on exercise physiology in racing mares. He gained further qualification in business management and marketing and has lectured at the Koret School of Veterinary Medicine, the Hebrew University of Jerusalem, Israel before returning to Australia in 2001 and establishing the South-eastern Animal Emergency Centre in 2003 and the Veterinary Referral Hospital in 2005. In 2008 Noam established the Australian Specialized Veterinary Pathology (ASAP) Laboratory (now part of Primary Healthcare) and Orivet Genetics Laboratory in 2010. The latter is focused on delivering personalised medicine and genetic solutions to veterinarians, pet owners and breeders of companion animals.





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