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Jockey Club College of Veterinary
Medicine and Life Sciences
香港城市大學
City University of Hong Kong
in collaboration with Cornell University



WEBINAR SERIES

**FREE
WEBINAR**



VETERINARY NUTRITION

Date: 19 May 2022 to 24 November 2022
Start time: 8:00pm (Hong Kong Time)
Registration: <https://www.cityu.edu.hk/jcc/nutrition2022>



19 MAY

Managing GI conditions with diet: From home-cooked for IBD to low-fat for pancreatitis

Dr John Loftus (PhD, DVM, DACVIM (SAIM)), Assistant Professor, Section of Small Animal Medicine, Cornell University

Dr Loftus is an Assistant Professor in the Section of Small Animal Internal Medicine. He attended the University of Massachusetts, Amherst where he earned a BS in Animal Science and his PhD in Animal Biotechnology and Biomedical Science with a focus in immunology. He moved to Ithaca in 2008 to attend Cornell University's College of Veterinary Medicine, graduating with his DVM degree in 2012. Dr. Loftus is a Diplomate of the American College of Veterinary Internal Medicine. He was Section Chief, Nutrition at Cornell from 2018-2019 and Section Chief, Small Animal Internal Medicine from 2021 to present day.

Nutritional management of Chronic Kidney Disease (CKD)

JUN 9

Dr Pawel Beczkowski (DVM, PhD, DipECVIM-CA, MRCVS, HK registered, European and RCVS Recognised Specialist in Small Animal Internal Medicine), Clinical Associate Professor, Department of Veterinary Clinical Sciences, CityU

Pawel received his DVM from Lublin University of Life Sciences, Poland in 2008. He also holds a Wellcome Trust funded PhD from the University of Glasgow. His research has deciphered important aspects of virus evolution in the progression of natural feline immunodeficiency virus infection. Pawel has completed a clinical rotating internship at the Animal Health Trust and a residency in small animal internal medicine at the University of Glasgow. He is EBVS® European and Royal College of Veterinary Surgeons Recognised Specialist in Small Animal Internal Medicine. Before relocating to Hong Kong, Pawel worked in a busy referral hospital providing internal medicine referral services across the South of England. He has published and lectured widely and is passionate about infectious diseases and all aspects of small animal internal medicine.



23 JUN

Advances in Canine Neonatology : what's new in 2022 ?

Dr Emmanuel Fontaine (DVM, MSc, PhD, Diplomate of the European College of Animal Reproduction), Regional Scientific Communication Manager, Royal Canin

Emmanuel Fontaine graduated from the Toulouse Veterinary School in 2004, he continued his studies at the Alfort Veterinary School (Paris) as trainee Vet in the domestic carnivore unit of the Reproduction Department. From 2005 to 2011, he worked at the Centre d'Etude en Reproduction des Carnivores (CERCA) [Research Centre for Reproduction in Carnivores], a unit specializing in pet breeding assistance. Emmanuel Fontaine is also qualified at the European College for Animal Reproduction (ECAR) and completed his PhD in 2012 on the use of GnRH agonists in canines. From September 2011 to September 2018, he worked as Technical Services Veterinarian for the PRO team at Royal Canada. Since September 2018, he is in charge of the Regional Scientific Communication for the Americas at Royal Canin.

Nutrition and Heart Diseases: a diet or supplement for every condition (14 Jul) Nutraceuticals for Arthritis: can we make a difference? (15 Sep)

**JUL 14
AND
SEP 15**

Prof Joseph Wakshlag (DVM, PhD), Professor, Sections of Clinical Nutrition and Sports Medicine and Rehabilitation, Cornell University

Prof Joseph Wakshlag currently serves as Professor, Sections of Clinical Nutrition and Sports Medicine and Rehabilitation and Section Chief of Nutrition at Cornell University, College of Veterinary Medicine. Prof Wakshlag graduated from Cornell University's College of Veterinary Medicine. He continued his education at Cornell with a Ph.D. in Pharmacology and served two residencies in pathology and clinical nutrition. Prof Wakshlag is a Diplomate of the American College of Veterinary Nutrition as well as a Founding Diplomate of the American College of Veterinary Sports Medicine and Rehabilitation. Prof Wakshlag's body of research includes obesity management, nutritional intervention for working and sporting dogs, and cancer biology.



18 AUG

Supplements in cancer

Dr Antonio Giuliano (DVM, MS, GpCert(SAM), PgCert(CT), ECVIM (onc), MRCVS European, RCVS and HK Specialist in Small Animal Oncology), Clinical Associate Professor, Department of Veterinary Clinical Sciences, CityU

Dr. Antonio Giuliano graduated from the University of Messina in 2007. While working in general practice, he completed a master's degree in Small Animal Oncology from the University of Pisa, a post graduate certificate in cancer therapeutic at Barts Cancer Institute and the GpCert (SAM) in internal medicine. He completed a rotating internship in a busy referral practice in UK and an oncology internship and residency at the Queen Veterinary School Teaching Hospital (QVSH), at the University of Cambridge. After successfully completing the residency, he worked for one year as oncology clinician and supervisor at the QVSH. In the 2019 he moved to Hong Kong (HK) working as oncologist at CityU VMC, the largest multidisciplinary referral Hospital in HK. Dr Antonio Giuliano is a recognised European, RCVS and HK specialist in small animal oncology. He published numerous articles in international peer reviewed journals and presented his research in many international conferences.

Fiber Fix: From constipation to diarrhea, the role of fiber for the nutritional management of gastrointestinal disease

OCT 20

Dr Sally Perea (DVM, MS, DACVN), Veterinary Nutritionist, Royal Canin

Dr. Sally Perea is a diplomat of the American College of Veterinary Internal Medicine (Nutrition). She completed her clinical nutrition residency, DVM, and MS at the University of California, Davis (UCD). She served there as an Assistant Clinical Professor, and later went on to work within industry, currently with Royal Canin R&D.



24 NOV

Current knowledge of the pathological mechanism of Atopy and how this can be targeted by nutrition

Dr Adrian Watson (PhD (Biochemistry)), Project Scientist (Hair & Skin), Royal Canin Innovation

Dr. Adrian Watson have worked in Mars R&D for 23 years in various functions mainly associated with the Clinical Nutrition of Cats and Dogs. Specialisms over the years have included nutritional management of Dermatological issues, Oral Health and Osteoarthritis. Dr. Adrian has also spent time working on Canine Genetics and the broader application of the omics revolution for our research effort. Dr. Adrian has always been thankful for the freedom that Mars Petcare afforded to him while working. It has given him the opportunity to explore exciting directions of research, while expanding knowledge of our pets' health and how it can be influenced by the food we provide.

Dr Xavier Langon (DVM, CES (Dermatology)), Senior Research Scientist (Dermatology), Royal Canin

Dr. Langon graduated from the National Veterinary School in Lyon, France in 1995. He practiced medicine and surgery as a general practitioner for 23 years, developing his interest and expertise in the relationship between symptoms and the immune system. Developing a growing interest in dermatology, he obtained a graduate certificate in dermatology in 2008 (C.E.S.) which led him to work for over 10 years on dermatology referrals. He is the author of more than 30 articles and short communications or posters in international congresses. Dr. Langon joined Royal Canin Research & Development team in 2018 as a Senior Scientist, to deliver scientific innovations in the Dermatology territory.



ABSTRACTS

19 May 2022

Managing GI conditions with diet: From home-cooked for IBD to low-fat for pancreatitis

Speaker: Dr John Loftus

Vomiting, diarrhea, and weight loss are common signs of GI diseases and related conditions such as pancreatitis. Diet can play a critical role in optimizing management for these patients. Choosing the best diet often requires an accurate diagnosis, understanding dietary characteristics that align with condition management, and trial and error. This seminar will briefly discuss the diagnostic approach to these cases and focus on selecting diets, from hydrolyzed to home-cooked, and implementing successful nutritional management.

9 June 2022

Nutritional management of Chronic Kidney Disease (CKD)

Speaker: Dr Pawel Beczkowski

Chronic Kidney Disease (CKD) is one of the most common causes of morbidity and mortality in small animal practice with estimated global prevalence ranging between 1 to 3% and 0.5 to 1.5% in cats and dogs respectively. The management of patients with CKD primarily involves the renoprotective treatments which are designed to slow the progression of kidney disease. Nutritional management is a corner stone in a long-term management of those patients. However, a comprehensive individual nutritional assessment and a complete IRIS staging are crucial before prescription of specific kidney diets. This talk will review the current state of knowledge concerning the diagnostic and therapeutic approach to patients with CKD with a particular focus on the evidence concerning efficacy of therapeutic renal diets in cats and dogs.

23 June 2022

Advances in Canine Neonatology : what's new in 2022 ?

Speaker: Dr Emmanuel Fontaine

(Moderated by Dr. Angel Almendros (DVM, MVM, PGCertSc, MRCVS, Dip. ABVP HK registered & American recognised Specialist in Canine & Feline practice), CityU JCC)

For a long time, canine & feline neonatology has been a grey area of veterinary medicine. Things have changed though in recent years, and new publications on this topic have completely change how we approach newborn kittens & puppies in our veterinary clinics. This presentation will be the opportunity to learn about the main differences when conducting a clinical exam in a newborn, what clinical decisions to take and which treatments to implement in neonatology and also find out how to optimize neonatal survival.

14 July 2022

Nutrition and Heart Diseases: a diet or supplement for every condition

Speaker: Prof Joseph Wakshlag

Heart disease comes in many shapes and sizes which result from primary dysfunction of the heart muscle leading to circulatory issues as well as structural issues related to valve abnormalities or outflow disease. Many require similar treatment regimens which include modest protein, low sodium and adequate magnesium and antioxidants in the diet. Other data suggests that there may be other alterations or supplementation that may be necessary to help with vascular tone like arginine, or the use of marine oils to mitigate inflammation, and maybe even alter conduction in the heart during arrhythmias. There has been much controversy related to grain-free diets and dilated cardiomyopathy in dogs, and although taurine is essential for heart function the latest examinations suggest that taurine may not be the primary issue related to this diet associated disease and there is much to be considered and discussed before damning every grain-free diet based on what we know about the current pet food industry and research coming from this arena.

18 August 2022

Supplements in cancer

Speaker: Dr Antonio Giuliano

In the past few years, numerous nutraceutical/supplement products with claimed 'anticancer' properties, have been available on the market. A recent survey by Bianco et al.,2020 and published in Veterinary and Comparative Oncology Journal, highlighted that there has been a significant rise in supplements use among owners of dogs with cancer. However, there is limited evidence to establish the safety or effectiveness of these products, and also no indication about any possible interaction with chemotherapy drugs. It is highly possible that some new natural compounds found in supplements could have some anticancer activity in vitro. However, it must be remembered that only 4% of drugs effective in vitro are found to beneficial in clinical trial and approved for cancer treatment!

Most 'anticancer' supplements in the market belong to a family of natural compounds with an antioxidant-free radical scavenging property. As we know, free radicals (e.g., reactive oxygen species [ROS]/nitrogen [NOS]) are highly unstable molecules that accumulate inside cells during their normal cellular metabolism. They bind to the DNA and cause damage, which, if not repaired, causes mutations and increases the risk of cancer developing. Antioxidants and free radical scavengers are able to reduce free radicals inside the cells and thus reduce the risk of cancer formation. As such, it's theoretically reasonable and quite rational to believe that antioxidants can be used as cancer preventive drugs. It is well known that there are natural antioxidants, contained mainly in vegetables, that are very important in the prevention of various cancers.

There is however some confusion among pets' owners and occasionally even among scientists and veterinarians about the difference between cancer prevention and cancer treatment. Treatment and prevention of cancer are two very different matters. As an example; Cancer is treated effectively with chemotherapy, but the risk of developing cancer after chemotherapy treatment it is not reduced, but it is actually increased. For the same reason, despite people can prevent colon cancer with a high vegetable diet, human oncologists cannot cure colon cancer with broccoli or spinach!

In conclusion, nutraceutical or supplements with strong antioxidant properties are likely effective in the prevention of some cancers, but are most likely not effective in the treatment of cancer and in some cases, some supplements could even be detrimental.

15 September 2022

Nutraceuticals for Arthritis: can we make a difference?

Speaker: Prof Joseph Wakshlag

This seminar will focus on evidence-based nutraceutical use for the dog with chronic osteoarthritis. Supplements and foods are often used to help mitigate the inflammation associated with joint disease and other supplements are used for chondroprotection. We have sufficient evidence in veterinary medicine to use marine oils as a means to help mitigate some of the inflammation while other supplements for inflammation are not particularly well studied, however, there are many studies in humans using botanicals like curcumin, pycnogenol, and Boswellia to raise our interest in the canine world. Chondroprotection is another factor in degeneration and some feel it is important to provide substrates like glucosamine and chondroitin sulfate as a building block for cartilage integrity, however, there is little evidence in dogs that this is beneficial, yet once again, there is intriguing data from long term human studies using both glucosamine and chondroitin sulfate as well as avocado soybean unsaponifiables. A handful of other honorable mentions will be discussed briefly including the increased use of CBD-rich hemp as a therapy for pain relief which is showing its merits in recent literature.

20 October 2022

Fiber Fix: From constipation to diarrhea, the role of fiber for the nutritional management of gastrointestinal disease

Speaker: Dr Sally Perea

(Moderated by Dr. Angel Almendros (DVM, MVM, PGCertSc, MRCVS, Dip. ABVP HK registered & American recognised Specialist in Canine & Feline practice), CityU JCC)

Dietary fiber plays many important roles in supporting the health of the gastrointestinal tract. In this lecture we will review the different fiber types and characteristics, and how these different fibers can be leveraged within the diet to nourish colonocytes, the microbiome, and promote improved stool quality in dog and cats. We will also review specific fiber responsive gastrointestinal disease, and how fiber can play a key role in disease treatment and long-term management.

24 November 2022

Current knowledge of the pathological mechanism of Atopy and how this can be targeted by nutrition

Speaker: Dr Adrian Watson & Dr Xavier Langon

(Moderated by Dr. Stefan Hobi (Dr.med.vet., Dip. ECVD and AiCVD HK registered & European recognised Specialist in Dermatology), CityU JCC)

Canine atopic dermatitis (CAD) is a clinical hypersensitivity of the dermis and is considered as a multifactorial and complex inflammatory process, sometimes associated with an observable allergic reaction. From understanding its mechanisms to its successful long-term management, CAD remains a complex entity that can be difficult to navigate for general practitioner. This webinar will summarize and provide an update on the latest understanding and best practice for the diagnosis and treatment of CAD and underline the key role of nutrition.