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RESEARCH COMMUNICATIONS OF THE 28th ECVIM-CA CONGRESS

Rotterdam, The Netherlands, 6th to 8th September 2018

Index of Abstracts

LIST OF ORAL RESEARCH COMMUNICATIONS

SCH – Society of Comparative Hepatology

Thursday 6 September 2018

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Thursday 6 September 2018

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15.40-15.55	ESVC-O-6	Mateos Panero	Radiofrequency catheter ablation of accessory pathways in the dog: the Italian experience (2008-2016)
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16.10-16.25	ESVC-O-8	Takano	Breed characteristics in cardiac reverse remodeling and left ventricular systolic function after mitral valve repair in dogs

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14.55-15.10	ESVC-O-18	Lee	The misuse (overdose) of pimobendan may potentially induce myocardial fatigue in dogs with myxomatous mitral valve disease
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ESVONC – European Society of Veterinary Oncology

Thursday 6 September 2018

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ESVIM – European Society of Veterinary Internal Medicine

Friday 7 September 2018

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ISCAID - International Society for Companion Animal Infectious Diseases

Friday 7 September 2018

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ESVNU – European Society of Veterinary Nephrology and Urology

Friday 7 September 2018

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ESCG – European Society of Comparative Gastroenterology

Friday 7 September 2018

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17.00-17.15	ESCG-O-9	Jergens	Glucocorticoid effects on microbial community structure in canine inflammatory bowel disease
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17.45-18.00	ESCG-O-12	Salavati Schmitz	Retrospective analysis of dogs with inflammatory protein-losing enteropathy reveals that second-line immunosuppression is only necessary in 1/3 of cases and treatment requirements or outcome cannot be predicted by routine clinicopathological data

ESVE – European Society of Veterinary Endocrinology

Friday 7 September 2018

14.25-14.40	ESVE-O-1	Peterson	Radioiodine treatment of feline hyperthyroidism: measuring 24-hour thyroid ¹³¹ I uptake helps predict treatment failure or development of iatrogenic hypothyroidism
14.40-14.55	ESVE-O-2	Fabres	Evaluation of telmisartan administration as a suppression test for primary hyperaldosteronism diagnosis in cats

14.55-15.10	ESVE-O-3	Ferri	Pheochromocytoma in dogs undergoing adrenalectomy: an exploratory investigation of 24 cases
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Saturday 8 September 2018

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15.25-15.40	ESVE-O-10	Prasinou	The erythrocyte membrane lipidome profile in healthy dogs and changes in dogs with diabetes mellitus
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ESVCP – European Society of Veterinary Clinical Pathology

Saturday 8 September 2018

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12.05-12.20	ESVCP-O-7	Hope	Evaluation of the clinical utility of a point-of-care serum amyloid A (SAA) assay for the detection of inflammatory disease in dogs
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VBPS - Veterinary Blood Pressure Society

Saturday 8 September 2018

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11.50-12.05	VBPS-O-3	Archontakis	Comparison of two Doppler ultrasonography devices for measurement of systolic blood pressure in conscious dogs

ESVCN – European Society of Veterinary Comparative Nutrition

Saturday 8 September 2018

15.50-16.05	ESVCN-O-1	Mazaki Tovi	Arachidonic acid stimulates secretion of IL6 in feline primary adipose tissue culture
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LIST OF POSTER RESEARCH COMMUNICATIONS**SCH – Society of Comparative Hepatology**

SCH-P-1	Luckschander	Differentiation of different types of feline liver disease by clinical features, cytology and laboratory test results
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ESVC – European Society of Veterinary Cardiology

ESVC-P-1	Carnabuci	Left shift of the ventricular mean electrical axis in healthy Doberman Pinschers
ESVC-P-2	Chang	Effects of a structured exercise program in sedentary dogs with asymptomatic myxomatous mitral valve disease: quality of life, and radiographic and echocardiographic parameters
ESVC-P-3	Parmentola	Indeterminate mean electrical axis of the QRS complex in the dog
ESVC-P-4	O'Shaughnessy	Clinical narrative analysis of clinical findings associated with measurement of N-terminal pro-B-type natriuretic peptide in dogs and cats
ESVC-P-5	Duarte	Adverse Effects of amlodipine on the treatment of heart failure in dogs with myxomatous mitral valve disease: preliminary results
ESVC-P-6	Roels	Assessment of pulmonary hypertension in dogs with angiostrongylosis before and after treatment
ESVC-P-7	Michalek	Serum uric acid concentrations in dogs with chronic heart failure and atrial fibrillation
ESVC-P-8	Michalek	Oxidative stress in cats with asymptomatic and symptomatic hypertrophic cardiomyopathy
ESVC-P-9	Lo	Is there an association between environmental factors and cardiovascular disease in dogs?
ESVC-P-10	Caivano	Longitudinal right ventricle strain and strain rate by 2-dimensional speckle tracking echocardiography in dogs with pulmonary hypertension
ESVC-P-11	Poissonnier	Epidemiological, clinical, echocardiographic features and prognosis of dogs with a thrilling murmur related to degenerative mitral valve disease: 374 cases (2006-2017)
ESVC-P-12	Heseltine	A retrospective multi-centre study investigating evidence of thrombosis in dogs diagnosed with atrial fibrillation

ESVONC – European Society of Veterinary Oncology

ESVONC-P-1	Johannes	Expression of prostaglandin ep4 receptor in canine osteosarcoma
ESVONC-P-2	Cueni	Methadone potentiates the effect of doxorubicin on a canine transitional carcinoma cell line

ESVONC-P-3	Ignatenko	Clinical manifestations and response to the therapy of extragenital intranasal form canine transmissible venereal sarcoma(CTVT): retrospective study 11 dogs in Ukraine
ESVONC-P-4	Granziera	The role of electrochemotherapy in management of tumours of the head in dogs
ESVONC-P-5	Cervone	Feasibility, safety and diagnostic yield of ultrasound-guided fine needle aspiration of cardiac masses in dogs

ESVIM – European Society of Veterinary Internal Medicine

ESVIM-P-1	Robin	Meta-analysis of the association between Mycoplasma species and canine lower respiratory tract disease
ESVIM-P-2	Roels	A questionnaire-based survey of owner-reported environment and care of West Highland white Terrier with or without idiopathic pulmonary fibrosis
ESVIM-P-3	Fastrès	Investigation of serum Kebs von den lungen 6 (kl-6) concentration as a predisposing factor and in the diagnosis of canine idiopathic pulmonary fibrosis in the West Highland white Terrier
ESVIM-P-4	Nivy	Trends in serum cobalamin, folate and total iron binding capacity concentrations in pregnant bitches and their association with hematological parameters and neonatal survival
ESVIM-P-5	Dominguez Ruiz	Inter-clinician reliability of the respiratory physical examination in dogs and cats with abnormal breathing patterns
ESVIM-P-6	Galiazzo	Endoscopic bronchial anatomy in the dog
ESVIM-P-7	Kehl	A novel CMAH gene variant leading to blood type b in ragdolls
ESVIM-P-8	Pierini	Evaluation of diet's effects and ability of the Hemocult® assay for the detection of faecal occult blood in healthy dogs
ESVIM-P-9	Johnson	Eosinophilic lung disease in 86 dogs (2006-2016)
ESVIM-P-10	Viitanen	Systemic and local immunoglobulin concentrations in Irish wolfhounds with recurrent bacterial pneumonia
ESVIM-P-11	Crisi	Evaluation of bronchoscopy and bronchoalveolar lavage findings in cats with Aelurostrongylus abstrusus in comparison to cats with feline bronchial disease
ESVIM-P-12	Palantzi	Long term survival in two dogs with sterile multifocal osteomyelitis
ESVIM-P-13	Grotheer	Retrospective comparison of cats with feline asthma and chronic bronchitis in a clinic population (2003 – 2016)
ESVIM-P-14	Grotheer	Evaluation of long-term therapy in cats with feline asthma and chronic bronchitis
ESVIM-P-15	Määttä	Matrix-metalloproteinase-7 activity in serum of West Highland White Terriers with idiopathic pulmonary fibrosis
ESVIM-P-16	Johnson	Bronchoalveolar lavage lymphocytosis in dogs (2006-2016)
ESVIM-P-17	Bazelle	Assessment of adverse effects of mycophenolate mofetil for treatment of immune mediated diseases in dogs
ESVIM-P-18	Blasi Brugué	Prevalence of subclinical Haemotropic Mycoplasmosis in healthy indoor cats eligible to become blood donors in the Iberian Peninsula
ESVIM-P-19	Cocci	Hyperplasia of the suprarytenoid pharyngeal fold in brachycephalic and nonbrachycephalic toy dogs: clinical presentation, treatment and outcome in 10 cases

ISCAID – International Society for Companion Animal Infectious Diseases

ISCAID-P-1	Breu	Diagnostics of canine Leishmania infection by ELISA and/or PCR-a comparative study
ISCAID-P-2	Su	Clinical and laboratory findings of sixty naturally Babesia gibsoni infected dogs

ISCAID-P-3	Aboim	Blood Cultures and the detection of multidrug-resistant bacteria in companion animals
ISCAID-P-4	Duque	Use of neutrophil gelatinase-associated lipocalin (NGAL) in the early diagnosis of renal damage in canine leishmaniasis
ISCAID-P-5	Xenoulis	Seroepidemiology of feline leukemia virus (felv) and feline immunodeficiency virus (fiv) in cats in Greece
ISCAID-P-6	Carreton	Clinical Picture of Cats Seropositive for <i>Dirofilaria immitis</i> in a Hyperendemic Area: Is this Feline Disease Still Being Misdiagnosed?

ESVNU – European Society of Veterinary Nephrology and Urology

ESVNU-P-1	van Israel	Comparison of point-of-care (Pocketchem™ UA) and reference laboratory protein/creatinine ratio measurements on canine and feline urine samples for diagnosis of proteinuria
ESVNU-P-2	Lauenstein-Bosse	Evaluation of serum transforming growth factor beta 1 in cats with chronic kidney disease
ESVNU-P-3	Moberg	Overweight and obesity did not predispose to subclinical bacteriuria in a mixed population of 152 middle aged and elderly cats – a prospective cross-sectional study
ESVNU-P-4	Sørensen	In-house culture and susceptibility reduce antibiotic over-prescription in dogs with suspected cystitis – a randomized controlled trial
ESVNU-P-5	Oscarson	Bacterial culture results from urine and ejaculates in healthy intact male dogs
ESVNU-P-6	Riesgo	Retrospective study (2004-2017) of 137 uroliths diagnosed at the Complutense Veterinary Teaching Hospital
ESVNU-P-7	Dokuzeylül	Clinical efficacy of the Marbofloxacin usage in dogs and cats diagnosed lower urinary tract disorders
ESVNU-P-8	Sargent	Moderate dietary phosphate restriction and fibroblast growth factor 23 in healthy older cats
ESVNU-P-9	Monari	Pattern of renal tubular damage and dysfunction in dogs with intrinsic acute kidney injury due to leptospirosis and other causes
ESVNU-P-10	Scarpa	Big endothelin-1 in cats with CKD: preliminary evaluation
ESVNU-P-11	Carreton	Evaluation of renal function in dogs infected by <i>Dirofilaria immitis</i> in relation to microfilaremia, parasite burden and pulmonary pressure
ESVNU-P-12	Defauw	Evaluation of acute kidney injury in dogs with <i>Babesia rossi</i> infections
ESVNU-P-13	Burchell	Salt and sugar in your larder make your kidneys work harder

ESCG – European Society of Comparative Gastroenterology

ESCG-P-1	Cerquetella	Proteomics of canine feces from healthy Boxer dogs: a pilot study
ESCG-P-2	Hayashi	Elevated blood urea nitrogen and thrombocytopenia during treatment as prognostic factors for canine acute pancreatitis
ESCG-P-3	Ohta	Expression of leucine rich alpha-2-glycoprotein (LRG) in the duodenal mucosa of dogs with chronic enteropathy
ESCG-P-4	Loze	Differential diagnosis of ileocolic masses associated with intestinal obstruction in cats: A retrospective study of 8 cases (2015-2017)
ESCG-P-5	Marolf	Comparison of computed tomographic angiography and ultrasonography in the diagnosis of acute canine pancreatitis
ESCG-P-6	Allenspach	Canine jejunum and enteroids derived from healthy dogs are useful models to evaluate the gastrointestinal side effects of NSAIDs
ESCG-P-7	Marsilio	Characterization of the fecal microbiome of cats with chronic enteropathy

ESCG-P-8 Lavoué Serine proteases activity in intestinal tissue of dogs with inflammatory bowel disease (IBD) - a new insight into the pathogenesis of IBD?

ESCG-P-9 Bertolani Hypercobalaminemia in 144 samples from cats and dogs

ESVE – European Society of Veterinary Endocrinology

ESVE-P-1 Oliveira Leal The use of ACTH-depot for ACTH stimulation test in dogs with hyperadrenocorticism under trilostane therapy: changes to the conventional protocol

ESVE-P-2 Le Boedec Predictive model to estimate ionized calcium from routine serum biochemical profiles in cats

ESVE-P-3 Burchell Episodic nocturnal hypoglycaemia in healthy New Zealand working dogs

ESVE-P-4 Wehner Efficacy of orally administered anti-thyroid drugs for the treatment of hyperthyroid cats

ESVE-P-5 Lamoureux Iatrogenic hypoadrenocorticism following treatment with trilostane for hyperadrenocorticism in dogs: a description of 10 cases

ESVE-P-6 Stammeleer Evaluation of free T4 (fT4) measurement after equilibrium dialysis (FT4ED) and a chemiluminescent enzyme immunoassay (FT4CEIA) in hyperthyroid cats before and after treatment with radioiodine (¹³¹I)

ESVE-P-7 García del Real Torralva Prevalence of hypokalemia in feline diabetes

ESVE-P-8 Pérez Alenza Evolution of trilostane dosage in dogs with pituitary dependent hyperadrenocorticism during the first year of treatment

ESVE-P-9 García San José Survival of dogs with naturally occurring hyperadrenocorticism

ESVE-P-10 Alonso Miguel Efficacy and safety of toceranib phosphate in dogs diagnosed with beta cell neoplasia

ESVE-P-11 Burlacu Neural network based model for glycemic dynamics predictions in feline diabetes mellitus

ESVE-P-12 Carotenuto Use of tandem mass spectrometry (LC-MS/MS) for the measurement of thyroid hormones in dogs with spontaneous hypothyroidism

ESVE-P-13 Malerba Accuracy of a flash glucose monitoring system in dogs with diabetic ketoacidosis

ESVE-P-14 Rapastella Predictors of response to pituitary radiotherapy in dogs with and without pituitary dependent hyperadrenocorticism

ESVE-P-15 González Sanz Telmisartan versus benazepril on the management of systemic hypertension in dogs with hyperadrenocorticism

ESVCP – European Society of Veterinary Clinical Pathology

ESVCP-P-1 Nivy Efficacy of specific antivenin and fresh frozen plasma in reversing Daboia palaestinae venom-induced hemostatic derangement - an in vitro study

ESVCP-P-2 Gerke Insulin-like growth factor-1 and 26S proteasome as possible biomarker for metabolic states in dogs suffering from chronic diseases

ESVCP-P-3 Marazzi Preliminary investigation of haematological and biochemical parameters as prognostic markers in dogs with severe inflammation

ESVCP-P-4 Cantos Barreda Changes in anti-leishmania antibody levels in serum and saliva after three months of treatment in dogs with clinical leishmaniosis

ESVCP-P-5 Breu Prevalence of braf variant V450E in urine, smears, and biopsies of canine transitional cell carcinoma

ESVCP-P-6 Nielsen Global measurement of coagulation in plasma from healthy cats - a potential tool for detection of thrombosis

ESVCP-P-7 Miglio Breed Specific hemato - biochemical reference intervals for the adult hunting dogs using a blood donor data base

ESVCP-P-8	Rubio	Effects of different storage conditions on markers of oxidative stress in canine serum samples
ESVCP-P-9	Franco-Martínez	The salivary proteome in dogs with canine parvovirus
ESVCP-P-10	Gomez	Beta-hydroxybutyrate and adiponectin in overweight healthy dogs
	Fernandez-Blanco	
ESVCP-P-11	Franco-Martínez	Validation of a new point-of-care immunoassay for serum cortisol measurement in canine serum samples
ESVCP-P-12	Vizi	Evaluation of a point-of-care veterinary hematocrit meter in 57 dogs
ESVCP-P-13	Lidbury	Analytical validation of a point-of-care assay for the measurement of serum C-reactive protein concentrations in dogs

ESVCN – European Society of Veterinary Comparative Nutrition

ESVCN-P-1	Koizumi	Studies on a new body condition scoring by morphometric method in dogs (2nd report)
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medication and with diseases that affect blood pressure. The aim of this study was to compare Doppler ultrasonography and oscillometry with or without proprietary optimizations for non-invasive BP measurement in conscious cats.

Twenty seven feline in-patients from the Feline Clinic of a University veterinary hospital were included in this prospective study. All measurements were obtained according to the guidelines in American College of Veterinary Internal Medicine consensus statement to achieve standardized conditions. Both devices were operated according to the manufacturer's guidelines and used alternatively as the first device.

Five systolic blood pressure (SBP) measurements were obtained by the Doppler and oscillometric (with and without proprietary optimizations) devices and were averaged prior to statistical analysis. Bland Altman analysis was used to determine the agreement. The differences in SBP were plotted against the mean of each pair of measurement. The bias was defined by the mean differences between two methods. The precision was calculated from the standard deviation (SD) of the differences and limits of agreement was calculated from the bias $\pm 1.96 \times \text{SD}$. A paired sample T test was run to determine whether there was a statistically significant mean difference in the SBP measurement of the two methods. Overall statistical analysis was achieved using Excel with Minitab 17 Software. Comparison of the methods gave an average bias of +26.99 mmHg with 95% CI between 19.30 and 34.69 mmHg. The lower limit of agreement (LLA) was set at -11.13 mmHg and 65.12 for the upper limit of agreement (ULA); the difference between the upper and lower limit was 76.25 mmHg. Comparison produced an average bias of 20.83 mmHg with 95% CI between 14.85 and 26.81 mmHg. The limits of agreements were set at -8.80 for LLA and 50.45 ULA; the difference between LLA and ULA was 59.25 mmHg. As indicated by the bias, the oscillometry (with or without proprietary optimizations) overestimated the SBP. The mean difference between the two NIBP devices was significantly different. The findings of this study suggest that Doppler ultrasonography and oscillometry with or without proprietary optimizations cannot be used interchangeably. Different methodology should be taken into an account before using non-method specific reference ranges and starting antihypertensive treatment or substaging patients with kidney disease.

Disclosures

No disclosures to report.

VBPS-O-3

Comparison of two Doppler ultrasonography devices for measurement of systolic blood pressure in conscious dogs

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Serial blood pressure measurements are of vital significance for the assessment of dogs with diseases or on medications that are known affect the blood pressure. The Doppler ultrasonography device that was used for the establishing reference ranges for blood pressure was recently discontinued and data regarding the agreement of different Doppler ultrasonography devices are limited. The aim of this study

was to compare two Doppler devices, Parks Medical Doppler and the Mano Médical Vet BP Doppler, for the measurement of systolic blood pressure (SBP) in conscious dogs.

Forty canine in-patients of a University veterinary hospital were included in this prospective study. SBP was measured indirectly using the standardised process according to American College of Veterinary Internal Medicine guidelines. Both devices were operated according to the manufacturer's guidelines and used alternatively as the first device.

Statistical analysis was performed using Matlab software, along with Bland-Altman analysis and scatter graphs to determine agreement, standard deviation (SD) and for each device's ability to detect hypertensive animals. Finally, least-squares linear regression fit data was evaluated for significance in relation to age, cuff size and heart rate.

The mean difference between the two devices was 0.61 suggesting good correlation. A linear rank correlation test was also performed on the SBP readings. The R correlation coefficient was found to be 1, which suggests strong correlation between devices. A mean of -0.61 indicates that the overall difference between the mean systolic BP differences between the two devices is -0.61mmHg. This shows that statistically, the devices are agreeable. No significance in relation to age, cuff and heart rate was identified.

This study suggests that the SBP measurements from these two Doppler devices correlate well, allowing different device measurement comparison and the use of the same SBP reference range.

Disclosures

No disclosures to report.

ESCG-P-1

Proteomics of canine feces from healthy Boxer dogs: a pilot study

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The aim of this work was to detect and identify proteins of canine feces from healthy Boxer dogs by a proteomic approach. Dog proteins detected in feces may be of help in investigating (e.g. pathogenesis, diagnosis, follow-up) canine gastrointestinal (GI) diseases. As a first step, an attempt to define the "healthy" proteome pattern of canine feces has been performed. Feces sampled from two groups (8 and 7 patients each) of healthy (no GI signs + no pre/probiotic administration + no change in diet within the last 3 months) Boxer dogs, were included in the study. Two-dimensional polyacrylamide gel electrophoresis (2DE) and liquid chromatography-tandem mass spectrometry (LC-MS/MS) were performed. Eight spots from 2DE were considered interesting due to their expression pattern and therefore were selected as candidates for LC-MS/MS analysis. By consulting SwissProt & NCBI nr databases, MASCOT and SONAR results allowed us to find the origin species of 4 out of 8 proteins: *Canis lupus familiaris*, *Flavobacteriaceae* bacterium, *Prochlorococcus marinus*, *Candida glabrata*. Especially the protein from *Canis lupus familiaris* resulted to be very interesting, cause owing to the hosts (dogs). It was identified as Immunoglobulin lambda-1 light chain isoform X36. If confirmed, this datum

could be very interesting for the future perspectives of this kind of studies, being a protein involved in the immune response of the host, but also in some kind of tumor, and other pathological conditions.

Disclosures

No disclosures to report.

ESCG-P-2

Elevated blood urea nitrogen and thrombocytopenia during treatment as prognostic factors for canine acute pancreatitis

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Canine acute pancreatitis (AP) has been easily diagnosed via the canine pancreas-specific lipase (Spec-cPL) test in recent years. Although several blood tests related prognostic factors for AP have been identified, prognostic factors during treatment are still unclear. In this study, we aimed to identify the prognostic factors of AP during treatment.

The subjects included were 128 patients with AP who underwent hospitalization treatment. AP was diagnosed on the basis of clinical signs and the abnormal Spec-cPL result ($> 400 \mu\text{g/L}$), concurrently with exclusion of other gastrointestinal diseases via ultrasonography. At the end of treatment, 95 patients were alive, while 33 died. In patients with elevated blood urea nitrogen (BUN) levels at the first visit, the risk for death was high ($P = 0.001$, odds ratio [OR]: 4.53; sensitivity, 87%; specificity, 40%). In patients with Spec-cPL $> 700 \mu\text{g/L}$ at the first visit, the risk for death tended to be high ($P = 0.06$, OR: 3.03). However, there were no significant differences in clinical symptoms, other blood test markers, and abdominal ultrasonography findings at the first visit. Furthermore, the risk for death was very high in patients in whom elevated BUN levels were noted after 3-5 days of treatment ($P < 0.0001$, OR: 75; sensitivity, 88%; specificity, 91%). In addition, the risk for death was high in patients with thrombocytopenia (platelet count $< 148 \times 10^3/\mu\text{L}$) during treatment ($P = 0.002$, OR: 10; sensitivity, 91%; specificity, 50%).

It is important to monitor BUN levels and platelet count periodically as prognostic factors of AP.

Disclosures

No disclosures to report.

ESCG-P-3

Expression of leucine rich alpha-2-glycoprotein (LRG) in the duodenal mucosa of dogs with chronic enteropathy

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Canine chronic enteropathy (CE) is an idiopathic gastrointestinal disorder characterized by chronic gastrointestinal signs. Leucine rich alpha-2-glycoprotein (LRG) has recently been identified as a novel biomarker of human inflammatory bowel disease, Crohn's disease, and ulcerative colitis (UC). Serum LRG concentrations correlate well with the clinical and endoscopic disease activity in UC. Unlike other acute-phase proteins, such as C-reactive protein, LRG is reportedly expressed not only by hepatocytes, but also by intestinal epithelial cells. The expression

of LRG protein is elevated in the intestinal mucosae from patients with UC. Therefore, the aim of this study was to examine the expression of LRG mRNA and protein in the duodenal mucosae of dogs with CE.

Twenty-four dogs diagnosed with CE were enrolled, and left-over biopsy samples from the duodenum were evaluated for LRG expression, with both quantitative polymerase chain reaction (qPCR) and immunohistochemistry. As a control, cryopreserved biopsy samples from the duodenum of ten healthy control dogs with no clinical signs of gastrointestinal disease were used. The Wilcoxon rank sum test was used to compare the LRG mRNA expression in the two groups. The relationship between LRG mRNA expression and the canine chronic enteropathy clinical activity index (CCECAI) or a histopathological score graded according to the guidelines of the WSAVA International Gastrointestinal Standardization Group was evaluated with Spearman's rank correlation coefficient. Statistical significance was defined as $P < 0.05$.

The expression of LRG mRNA was significantly higher in CE dogs than in the healthy controls. The expression of LRG mRNA was significantly higher in the high CCECAI (≥ 12) group than in the low CCECAI (< 12) group. In contrast, there was no correlation between LRG mRNA expression and the WSAVA score. On immunohistochemistry, LRG protein expression was higher in the intestinal epithelial cells of the duodenal mucosae of CE dogs than in those of the healthy controls.

In conclusion, this study demonstrates that LRG mRNA and protein expression is increased in the duodenal mucosae of dogs with CE. LRG mRNA expression is also associated with a high clinical score. Future studies will evaluate the clinical utility of measuring serum LRG concentrations in dogs with CE.

Disclosures

No disclosures to report.

ESCG-P-4

Differential diagnosis of ileocolic masses associated with intestinal obstruction in cats: A retrospective study of 8 cases (2015-2017)

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Few studies report ileocolic masses in cats and their etiology. In this context, the main causes described include lymphoma, feline infectious peritonitis, feline gastrointestinal eosinophilic sclerosing fibroplasia, feline intestinal mast cell tumor (2 cases), hemangiosarcoma (1 case), actinomycetoma (1 case) and intussusception. Moreover, they are often associated with a poor prognosis.

Inclusion criteria of this retrospective study were: (1) presence of an ileocolic mass (ICM) diagnosed by abdominal ultrasonography, (2) a surgical excision or biopsy of the ICM by laparotomy after standard preoperative investigations and (3) a histological evaluation of the ICM performed. Eight cats (2 males, 6 females) were recruited in the study, mostly domestic shorthair (6 versus 1 Maine Coon, and 1 Chartreux). Six were neutered (1 male, 5 females). The median age was 2.5 years old [range 1 - 12] and the median weight was 3.1 kilograms [range 2.3 - 6.8]. The main clinical signs at presentation were chronic