

## **ABSTRACTS-(JCDR-2016, VOLUME-XII)**

### **Canine Research**

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#### **1. Pigmentary Keratopathy In Brachycephalic Dogs - A Review**

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#### **ABSTRACT**

The article include introduction, pathophysiology, clinical signs, diagnosis, treatment of pigmentary keratopathy in brachycephalic dogs.

#### **2. SCENARIO OF CANINE DISTEMPER - A Review**

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#### **ABSTRACT**

Present review article include history, etiology, transmission, prevalence, pathogenesis, clinical signs ,diagnosis ,treatment and prevention of canine distemper.

### 3. STUDIES ON VERTEBRAL HEART SIZE IN DOGS SUFFERING FROM DILATED CARDIOMYOPATHY

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#### ABSTRACT

This study is to appraise in (VHS) in healthy dogs and those suffering from dilated Cardiomyopathy dogs. Thoracic radiographs of all dogs which included in study were divided into two groups; the dogs without any clinical, radiographic, electrocardiographic and echocardiographic abnormality were included in Healthy Control group and those with clinical history of lethargy, fatigue, exercise intolerance and radiographic, electrocardiographic and echocardiographic evidence of cardiomegaly were included in DCM group. Mean VHS value in control group was  $9.7 \pm 0.09$  (Mean  $\pm$  SE) and in DCM group it was  $12.12 \pm 0.17$  (Mean  $\pm$  SE). DCM group dogs were showed generalized cardiomegaly. In conclusion, in the present study dogs with DCM group had a highly significant elevated Vertebral Heart Score as compare to control group.

### 4. CLINO-DIAGNOSTIC STUDIES OF CANINE EHRLICHIOSIS

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#### ABSTRACT

Out of 104 dogs 21 dogs affected with canine ehrlichiosis were diagnosed based on nested polymerase chain reaction with characteristic clinical features of pyrexia, history of tick infestation earlier/presence of ticks, anorexia, depression and lethargy, pale mucous membrane, congested mucous membrane, melena, epistaxis, petechial and ecchymotic hemorrhages, lymphadenopathy, splenomegaly, oedema, lameness, uveitis, and corneal opacity. Microscopic examination of Giemsa-stained peripheral thin blood smears and buffy coat smears revealed 1.92% (2/104) and 7.69% (8/104) positive for the intracytoplasmic morulae or inclusion bodies of *E. canis* in monocytes and lymphocytes. Positive cases of canine ehrlichiosis were treated with doxycycline @ 5mg/kg but po bd for 28 days and showed rapid improvement and recovery after 2 weeks.

## 5. STUDIES ON ELECTROCARDIOGRAPHIC ALTERATION IN DOGS SUFFERING FROM DILATED CARDIOMYOPATHY

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### ABSTRACT

A study was conducted for the diagnostic value of ECG in dogs suffering from Dilated Cardiomyopathy (DCM). ECG of all dogs which included in study were divided into two groups; Healthy Control group (n=15) and DCM group (n=30). Electrocardiographic readings were recorded for all the dogs included in the study on standard single channel ECG machine. All leads were recorded at paper speed of 25 mm / second and another long rhythm strip of lead II was recorded at paper speed of 50mm/second containing 12-15 QRS complexes. This rhythm strip was subjected to further analysis to calculate heart rate, heart rhythm, measurements of P wave, PR interval, QRS complex, R wave, ST segment, T wave and mean electrical axis. Present study recorded significant increase in (p>0.05) in heart rate, various rhythm disturbances like sinus arrhythmias, atrial fibrillation, ventricular premature complexes and ventricular tachycardia. Alterations in PQRST complexes included wide P waves and QRS complexes suggestive of left atrial and left ventricular enlargement in dogs suffering from DCM.

## 6. M-MODE ECHOCARDIOGRAPHIC MEASUREMENTS IN HEALTHY LABRADOR DOGS

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### ABSTRACT

M-mode echocardiographic parameters were determined in 17 clinically normal and apparently healthy Labrador dogs - both males (10) and females (7). These dogs did not show any

electrocardiographic or radiographic evidence of cardiomegaly and were then subjected to M-Mode Echocardiographic examination. Standard M-Mode measurements were recorded for both the sexes separately and included parameters like RVDd, LVDd, LVDs, IVDd, IVSs, PWd, PWs, LVM, EF %, FS%, EPSS, Left Atrial (LA) diameter, Aortic diameter (Ao) and LA/Ao ratio. Correlation of all these M Mode echocardiographic parameters was established with the body weight, body surface area and sex. No significant difference ( $p > 0.05$ ) was found between males and females with respect to all these parameters. However, an obvious and expected significant ( $p < 0.05$ ) difference was observed in the systolic and diastolic values of left ventricle, interventricular septum and posterior wall.

## 7. GREEN PET TREATS VALIDATION FOR STEM CELL PROLIFERATION

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### ABSTRACT

Herbal biscuits for dogs were prepared using *Ocimum sanctum* (organic tulsi powder) and given to the dogs. The cellular proliferative activity on dog mesenchymal stem cells was confirmed using XTT tetrazolium dye reduction assay. The ability of herbal extract on cellular protective activities was carried out using in vitro proliferation activity analysis on dog blood progenitor cells. which is proved to be a potent anti-stressors. The dogs were evaluated on the basis of standard assay techniques namely, single bowl test and two bowl tests which resulted that dog accepted two pan or force choice preference test.

## **8. VERTEBRAL HEART SCORE IN HEALTHY LABRADOR DOGS**

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### **ABSTRACT**

Vertebral heart score (VHS) was calculated in 17 healthy Labrador dogs (10 males and 7 females) - to serve as breed reference range for clinicians and filed veterinarians- under Indian conditions. There was no significant difference in the VHS values between male and female dogs.

## **9. PERICARDIAL EFFUSION IN A DOG - A Case Report**

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### **ABSTRACT**

A male Labrador dog aged 7yrs with history of ascites was reported in the clinics. On physical examination fluid thrill was present in the abdomen and fluid collected had high protein level of >3g/l. On ECG, QRS complex was less than 1mV and showed low amplitude. Radiography showed globe like heart. Echocardiography showed large amount of fluid around the heart. Pericardiocentesis was performed and 25ml fluid was removed from pericardial sac. The dog showed eventful recovery by pericardiocentesis and therapy with digoxin, enalapril and spironolactone.

## **10.MEDICAL MANAGEMENT OF HEPATIC ORIGIN ASCITES IN A BITCH - A Case Report**

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### **ABSTRACT**

Hepatic origin ascites in a bitch was reported with the history of inappetance and symmetrical distended abdomen, clinical examination revealed high rectal temperature, tachycardia, pale mucus membrane, dehydration, dyspnea and fluid thrill on palpations of abdomen. Hemato-biochemical evaluation, showed increased neutrophils, decrease in erythrocytes, hemoglobin and increased alanine amino transferase and alkaline phosphatase, decrease in total protein value and albumin. Radiography and ultrasonography of abdomen revealed ground glass appearance and floating viscera in the anechoic effusion, respectively. The bitch was treated successfully with antibiotics, diuretics, amino acid and liver tonics along with protein rich diet.

## **11.PNEUMOTHORAX IN LABRADOR RETRIEVER PUPPY - A Case Report**

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### **ABSTRACT**

A 50 days old Labrador Retriever puppy was reported with anamnesis that the animal had fallen from a height of four feet after that complaints of dyspnoea and heavily intermittent open mouth breathing. Thoracic auscultation revealed dull lung sounds dorsally, and muffled heart sounds. Thoracic radiography revealed pneumothorax. The pup was treated with oxygen therapy, cefotaxim, dexamethasone, etofylline and theophylline with uneventful recovery.

## 12. DEMODICOSIS IN A DOG - A Case Report

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### ABSTRACT

A pug male dog of nine months old was presented with a history of inappetence, excessive itching, hair loss, redness and erythematous scaly lesions on the skin of forehead. Deep skin scrapping examination was revealed the presence of *Demodex canis* mites. The dog was successfully treated with ivermectin, benzoyl peroxide shampoo and Amitraz.

## 13. DIETARY MANAGEMENT OF RENAL INSUFFICIENCY IN A DOG - A Case Report

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### ABSTRACT

Renal insufficiency in an eight year old Labrador dog is reported with clinical diagnosis, haemato-biochemical and urinary examination and its successful correction by adopting clinical as well as dietary measures.

## 14. DIABETES MELLITUS IN DOG - A Case Report

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## ABSTRACT

A 1.5 years old, male Spitz dog presented with the history of increased thirst, increased urination, weight loss, and bilateral corneal opacity, clinical examination revealed tachycardia and bilateral cataracts. Haemato-biochemical evaluation revealed increased fasting blood sugar, increased serum glutamic oxaloacetic transaminase and serum alkaline phosphatase. The case was managed by insulin therapy and diet.

### 15.CANINE DISTEMPER IN A DOG - A Case Report

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## ABSTRACT

A male Labrador presented with the history of fever, anorexia, watery discharge from nose and eye, vomiting, diarrhoea and nervous signs, clinical examination revealed tachycardia, high rectal temperature, sunken eye ball due to dehydration and muscular spasm of limb muscles. Haematological evaluation showed increase in total leukocyte count, decrease haemoglobin and decreased platelets count. The case was diagnosed by history, clinical signs and Positive Rapigen Canine Distemper Ag test and treated successfully with ceftriaxone and tazobactam, metaclopramide, ranitidine, 5% DNS, Ringer's lactate, levofloxacin and ornidazole and phenobarbital.

### 16.SURGICAL MANAGEMENT OF INGUINAL GRAVID HYSTEROCELE IN A BITCH

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### **ABSTRACT**

A 4 years old nondescript bitch with non-inflammatory swelling in the inguinal region which increased in size gradually over a period of 6 month was diagnosed as inguinal hysterocele with two fetuses outside the abdominal cavity visualized on radiography. Surgery was performed over the hernial sac and two mummified fetuses were removed, uterus was repositioned through the inguinal ring. Inguinal herniorrhaphy was performed and an uneventful recovery was reported within 8 days.

### **17.THERAPEUTIC MANAGEMENT OF GENITAL TRANSMISSIBLE VENEREAL TUMOR IN DOGS**

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### **ABSTRACT**

Genital transmissible venereal tumor (TVT) in a 10 years old, female and 8 years old, male dog were reported with a history of anorexia and bleeding from genitalia. Clinical examinations revealed the cauliflower-like mass at the base of penis in male and at the dorsal surface of vagina in female. The dogs were successfully treated with vincristine.

### **18.HISTOPATHOLOGICAL OBSERVATION OF EPULIS IN GERMAN SHEPHERD**

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### **ABSTRACT**

A 8 year old German Shepherd dog with a complaint of localized painless pinkish firm growth between the teeth on the gingiva with halitosis and difficult eating. Mass was excised under anesthesia. Grossly, mass was hard in consistency and covered with partially ulcerated mucosa.

Microscopically, the tissue section was composed of stroma proliferation of fibrous connective tissue with collagenous matrix. Overlaying squamous epithelium was ulcerated and hyperplasia and hypertrophy of the epithelium was observed. Mass was diagnosed as Epulis.

## **19.CANINE MANAGEMENT PRACTICES ADOPTED BY THE DOG OWNERS**

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### **ABSTRACT**

A total of 60 dog owners were selected by using simple random sampling method. Data were collected through the personal interview. The findings of the study show that majority(95%) of dog owners adopt the exercise in dog while minimum (26.6%) adoption had registration of dog from all managemental practices.The results revealed that majority(97.22%) of pet owners go first to doctor when their dog become ill among health care practices. Majority (98.33%) of pet owners protect their dog from adverse climatic condition in housing practices and from feeding practices results showed that majority(65%) of owners provide feed supplement to their pet.

## **20.BEAGLE DOG - A Breed Review**

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### **ABSTRACT**

Breed origin, physical characteristics, care and use of Beagle dog is reported.

## **21.BURMESE CAT - A Breed Review**

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### **ABSTRACT**

Breed origin, physical characteristics, care and use of Burmese cat is reported.