Recommendations
Second Joint
Animal Science Research Council
6th - 7th June 2003

Maharashtra Animal and Fishery Sciences University, Nagpur
RECOMMENDATIONS
OF
Second Joint
Animal Science Research Council
Maharashtra Animal and Fishery
Sciences University,
Nagpur

held on 6th - 7th June 2003
at
K. N. P. College of Veterinary Science,
Shirval, Dist : Satara.
Recommendations approved by
2nd Joint Animal Science Research Council
Maharashtra Animal and Fishery Sciences University,
held on 6th-7th June 2003 at K. N. P. College of
Veterinary Science, Shirval, Dist: Satara.

Project No. : BVC/PG-I/PHARM/01/2003

Title : Pharmacokinetics of Ceftriaxone and its urinary excretion in goats.

Recommendation : Ceftriaxone should be administered @ 4 mg/kg body weight by intravenous route followed by 3.5 mg/kg body weight by intramuscular route or 2.5 mg/kg by subcutaneous after 36 hours in goat.

शिफारस : शेल्फ्रिया औषधीची मात्रा प्रथमत: शरीर वजनाच्या 4 मिळी/किलो शीरंगारे दावी व तद्दूरांत 3.5 मिळी/किलो आंतररम्याव्य क्षेत्र 2.5 मिळी/किलो कालडीखाली 36 तासांतर देण्यात यावी.
Project No. : BVC/BACT/01/2003
Title : Detection of encephalitides from buffalo and goat brains slaughtered in Mumbai and Thane districts.
Recommendation : Brains of animals used for human consumption should be randomly examined for listeria and rabies which are zoonotic diseases, especially since brains are consumed in semi-cooked/fried manner.

Project No. : BVC/PG-I/MED/01/2003
Title : Standardization of health and welfare parameters in equines maintained for raising hyper-immune serum.
Recommendation : i) Fibrinogen and C-Reactive Protein (CRP) does not appear to be a good indicator of pain.
ii) “Equisam” may be used as the software tool in health and welfare management of the equines maintained for producing antigen and antisera.

Project No. : PGIVAS/ PG-I/SURG/01/2003
Title : Evaluation of propofol as a general anaesthetic in goat
Recommendation : i) Propofol @ 3 mg/kg body weight when administered in premeditated goats with diazepam @ 1 mg/kg is useful to produce satisfactory anaesthesia for surgical interventions of about 40 to 45 min. duration.

Project No. : PGIVAS/ PG-I/SURG/02/2003
Title : Comparative evaluation of different doses of lignocaine hydrochloride with and without alcohol in Biers block in goats
Recommendation : ii) The Bier’s block with 1% lignocaine hcl. in 2% alcohol can safely and satisfactorily be employed for surgery of lower limbs in goats.
Project No. : COVASP/ PG-I/SURG/03/2003

Title : Affections of cornea in bovine with special reference to keratitis

Recommendation : iii) The clinical cases of ulcerative keratitis can be successfully treated with cauterizing ulcer with 1% silver nitrate solution and membranoplasty and subconjunctival injection of 1ml placentrex.

Project No. : BVC/ PG-I/SURG/04/2003

Title : Use of lipid free propofol in day care surgery in canines.

Recommendation : i) Both lipid free propofol as well as lipid base propofol alone is recommended for undertaking major or minor operations in dogs in day care surgery.

ii) Both lipid base and lipid free Propofol (2.5 mg/kg) in combination with xylazine (0.5 mg/kg) is recommended for induction and maintenance of anaesthesia in day care surgery of canine.

Project No. : BVC/ PG-I/SURG/05/2003

Title : Use of Xylazine hydrochloride and Bupivacaine hydrochloride for epidural analgesia in canines.

Recommendation : Xylazine-bupivacaine combination produces longer duration of epidural analgesia with better quality of analgesia and excellent muscle relaxation in dogs. Hence a combination of 0.5 % bupivacaine hydrochloride@ 1 mg/kg body weight and xylazine hydrochloride @ 0.5 mg/kg body weight is recommended for induction of epidural analgesia for undertaking operation of abdomen, hind limbs and perineum in field condition.
Project No. : BVIC/ PG-1/SURG/06/2003

Title : Studies on castration in deer using xylazine ketamine anaesthesia.

Recommendation : i) A combination of xylazine (0.5 mg/kg) and ketamine (2.5 mg/kg) is recommended for immobilization of deer for the purpose of blood collection, radiography, short distance transportation and major and minor surgery.

ii) Yohimbine hydrochloride at the dose rate of 0.125 mg/kg is recommended for quick reversal of xylazine-ketamine anaesthesia in deers. Doxapram (0.5 mg/kg) could be used for shortening the recovery of xylazine-ketamine anaesthesia but deers should be observed at least for 3 hours for post anaesthetic recovery.

शिफारस

Project No. : BVIC/ PG-1/SURG/06/2003

Title : Studies on castration in deer using xylazine ketamine anaesthesia.

Recommendation : i) योहिंबिन हायड्रोक्लोराइड का दoses रेट 0.125 mg/kg प्रोत्साहित है, सब्बिं में कीटामिन (2.5 mg/kg) का प्रयोग संबंधी हस्तक्षेपणा मात्रा में देरी से प्रवर्तित होता है। दोक्साप्राम का (0.5 mg/kg) प्रयोग के लिए योहिंबिन-कीटामिन अनास्थितता का संबंधी हस्तक्षेपण कीटामिन देरी से प्रवर्तित होता है। देरी से प्रवर्तित हस्तक्षेपण के लिए अन्दरुनी मात्रा में देरी से प्रवर्तित होता है।
Project No. : NVC/ PG-I/SURG/07/2003

Title : Evaluation of propofol in combination with ketamine and Fentanyl citrate in canines.

Recommendation : The duration of surgical anaesthesia lasts for longer duration with Fentanyl Citrate @ 0.005mg/kg B.W. I/V and Propofol (5mg/kg BW. I/V), hence it is advisable for major surgical intervention in canines.

Project No. : COVAS P/ PG-I/LPT/01/2003

Title : Studies on quality of chhana from buffalo milk and its suitability for making rasogulla

Recommendation : i) Desirable quality of chhana can be obtained from buffalow milk (4% fat) with addition of 0.15% sodium citrate upon its coagulation at 60° C and rasogulla obtained from such chhana is sensorarily acceptable.

Project No. : COVAS P/ PG-I/LPT/02/2003

Title : Process optimization of chhana from buffalo milk.

Recommendation : iii) Acceptable quality of chhana with respect to its chemical as well as sensory quality can be achieved by coagulation of standardized (6% fat) buffalo milk with 20% water at 60 - 70° C. This chhana can be successfully utilized for the production of acceptable quality of rasogolla.
Project No. : DTC/DT/01/2003

Title : Standardization of method for preparation of Probiotic Acidophilus milk and studies on implantation abilities of the culture in GI tracts of tribal kids below five years.

Recommendation : iii) Regular feeding of probiotic Acidophilus milk 100 ml. (having 10^7 cfu/g of *Lactobacillus acidophilus*) to the tribal kids reduces the incidence of gastro intestinal and related ailments and improve their health.

Project No. : COVAS P/ PG-I/AGB/01/2003

Title : Genetic polymorphism among chicken breeds assessed through MASA and RAPD markers.

Recommendation : i) The poultry breeders should get their birds screened for polymorphism for different loci using different primers by modern techniques like RAPD and MASA. This may prove useful for the increase in production and diagnosis of genetic diseases.

Project No. : COVASP/ PG-I/AGB/02/2003

Title : Genetic polymorphism of DRB 3 gene for cattle and livestock species.

Recommendation : ii) The animal breeder should go for screening polymorphism for MHC locus as well as K-casein to effect proper selection of the animals for production and disease resistance.
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<tr>
<th>Project No.</th>
<th>BVC/ PG-I/ANI.NUTR/01/2003</th>
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<tbody>
<tr>
<td>Title</td>
<td>Performance of growing crossbred calves on complete feed containing different levels of energy.</td>
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<tr>
<td>Recommendation</td>
<td>i) The Jawar straw based complete feed containing 64% TDN can be formulated by using various agro industrial by-products. This complete feed can be successfully and economically used for growing calves.</td>
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<td>Title</td>
<td>Effect of different schedules of multi-strain probiotic on the performance of broilers.</td>
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<tr>
<td>Recommendation</td>
<td>iii) The probiotic provilacc can be used in the diet of broilers @ 250 g/T for 6 weeks for improved and effective performance.</td>
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<tr>
<td>Title</td>
<td>Studies on effect of feeding different planes of nutrition during advance stage of pregnancy and early lactation in cattle</td>
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<tr>
<td>Recommendation</td>
<td>ii) For profitable performance of dairy animal (Cow/heifer), 30% extra concentrate mixture should be given</td>
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45 days pre-partum and 90 days post-partum as pregnancy and lactation allowance, respectively.

शिफारसः आरिध कृषि फार्मेरी दृष्टिकोण साथी गार्डियन कालार्डो देखरेखा 45 दिनसंत माणि व्यावसायिक पुरवहारिणण 90 विलिफऱांत घड़ूँ दिलेल्या (प्रभावित) खुराकाच्या माणपणे ३० टक्के जादा खुरक निर्माण देणारे येते.

शिफारसः मांसाच्या कॉप्युटरिया खाद्यात ६ आउसे प्रोटिनिक या प्रोटिनिक व्यापक २५० शेष प्रति टन या प्रभावित वापर केल्याने खाद्य प्रकृती वाढीवर बांग्ला परिणाम होवून ते आरिध कृषि फार्मेरी होते.
Recommendation: vi) Strong linkages should be developed to educate the buffalo farmers for adopting Animal Husbandry practices and feeding practices to increase the productivity of buffaloes.

Recommendation: i) The propionic acid, butyric acid and acetic acids @ 3 kg/T or yeast preparations @ 1 kg/T can be used in quails for improved growth rate.

Recommendation: iv) Supplementation of Shatavari root powder at 1% level in diet improves health status, body weight, feeding efficiency and significant increase in immunoglobulin, hence, it is recommended to supplement 1% Shatavari root powder in broiler diet.

Recommendation: मांसल लाली पशुवाच्य उत्तम तांत्रिक परिप्रेक्षणानुसार वाढ घोषणात याने पावसकर निविद्यादाय आणि अंगीजोन्ल करण्याचे झालेले शास्त्रीयांच्या विविध प्रकाराच्या विस्तारासाठी काहीवेळी मांसांची वाढकी संघटनाच्या प्रयोगाने काम करून प्रमाणावणी करणे गरेले आहे.
Project No. : BVC/ PG-I/POUL.SCI/02/2003

Title : Effect of enzyme supplementation on performance of broilers receiving different levels of fiber in the diet.

Recommendation : ii) The use of diet containing fiber level upto 7% is recommended for broilers without any adverse effect and if it is supplemented with proper enzymes, it is more beneficial.

Project No. : BVC/ PG-I/GYN/01/2003

Title : In-vitro maturation of oocyte, capacitation of sperm and fertilization in buffalo

Recommendation : i) TCM-199 + 50% Follicular Fluid + Sodium Pyruvate 10 mcg/ml + Gentamycin 50 mcg/ml can be used as medium for maturation of buffalo follicular oocytes.

ii) Percoll gradient method can be used for the separation of motile sperm.

Project No. : BVC/ PG-I/POUL.SCI/03/2003

Title : Use of tamarind kernel powder in broiler rations.

Recommendation : iii) It is recommended to use tamarind kernel powder in broiler diets. The undeoiled tamarind kernel powder can be used up to 6.7% and deoiled tamarind kernel powder can be used up to 3.3% to improve the performance of broiler.
Project No. : BVC/ PG-I/GYN/02/2003

Title : In-vitro maturation of oocytes, capacitation of sperm and fertilization in Sheep.

Recommendation : i) TCM-199 + 10% follicular fluid + Sodium Pyruvate 10 mcg/ml. + Gentamycin 50 mcg/ml can be used as medium for maturation of sheep follicular oocytes.

शिफारस : टी.सी.एम. - 199 + 10 टक्के फोलिक्युलर प्युराइट + सोडियम पायरुवेट 10 मी.एल. + जेंटामीक्रीन 50 मी.एल. हे द्रवण टेक्टेव्हि रेलीबीजांचे शरीरांबाहेर परिशाळन रेखांचे परिपक्व होणासाठी चाळणे माध्यम असल्याने त्याचा वापर करावा.

Project No. : BVC/ PG-I/GYN/03/2003

Title : Ultrasonographic pregnancy diagnosis and foetal monitoring in bovines.

Recommendation : i) Ultrasonography can be used as a tool for early pregnancy diagnosis (25 to 30 days of gestation) in bovines. In non-pregnant animals a repeat scan should be carried out after 10 days.

शिफारस : अल्ट्रासोनोग्राफीचा उपयोग करून गाईमधील गर्भधारण लवकरश्च लवकर घडणे 25 ते 30 दिवसांच्या गर्भावस्थेच्याकाळात ओळखू येते. त्याचा वापर करावा. गावण नसतेच्या गाईमध्ये दहा दिवसांनी पूर्ण एकदा अल्ट्रासोनोग्राफी करावी.