



Translocation of Sambar deer in Trivandrum Zoo

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Introduction

One Sambar deer (*cervus unicolor*) weighing 120 Kg was transported from inpatient ward to exhibitory. The animal was administered the following drugs using a blow pipe. 0.7 ml Etorphine hydrochloride- acepromazine combination (Immobilon) and 0.3 ml Xylazine hydrochloride. The animal took 14 min. to go down. Since the process took time, after 25 minutes 0.5 ml of Xylazine had to be given (i/m) for maintenance. The Sambar deer was safely transported to the exhibitory and after 45 minutes Diprenorphine hydrochloride, 0.7 ml (Revivon – Immobilon antagonist) and 4 amino pyridine and yohimbine hydrochloride combination, 1 ml (Antagozil – Xylazine antagonist) was given intravenously to revive the animal.

DISCUSSION & CONCLUSION:

Moving an animal to a new location is not without problems. There is a natural anxiety and apprehension during restraint which would be complemented by the new

environment where animal is being introduced. An unfamiliar herd would demand a process of behavioural re-orientation. A sedate stage with its temporary behavioural dis-orientation therefore help translocation and the subsequent readjustment into the new herd. The anesthesia in Sambar deer is considered to be a risky process. Darting large and medium deer with etorphine – xylazine combination is more economical, practical and decrease excitation and muscle tremors. Use of combination of Immobilon with Xylazine on a lower dose rate was found effective. Since the process took time the animal had to be further sedated with an additional dose of Xylazine which again was found to be effective. Use of antagonists to revive the animal was considered necessary since the animal was being introduced into the exhibitory where other animals of the herd had already established their domain and a pecking order. An animal in sedation is vulnerable to attack by the rest of the herd. An animal in a revived state may be able to save itself. Sambar deer being a ruminant is subject to the risk of bloat or regurgitation when restrained for a long time in lateral recumbency. Animal was maintained in sternal recumbency with the held up to prevent aspiration of regurgitated ruminal contents. Reviving help the animal to be on its foot thus minimizing such a risk.

IMMOBILON Large Animal - Etorphine hydrochloride -2.45 mg/ml and acepromazine maleate 10mg /ml, Chlorocresol 0.1% in saline, 10 ml presentation. **REVIVON** – Immobilon antagonist – Diprenorphine hydrochloride 3.26 mg/ml. **ANTAGOZIL S. A. INJ** – 2mg/ml 4 Amino pyridine & 1.25 mg/ml Yohimbine hydrochloride, 10 ml presentation.

Etorphine is a semi synthetic opiate derivative and act by binding the opioid receptor within the CNS. Acepromazine is a phenothiazine derivative (neuroleptic) used as a preanaesthetic agent. Acepromazine permits smooth induction of anaesthesia and decreases the

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Book Review

ADUVALARTHAL

Boer, Malabari

By

Dr. P. V. Mohanan



Dr. P. V. Mohanan both as a veterinarian and farm journalist has attempted to present detailed information on Goats in the book titled 'Aduvalarth' in Malayalam. This book with illustrations explains different aspects of Goat rearing including history, origin, problems & prospects, breeds, Boer goats, housing, feeding, management, insurance, disease control, reproduction, fodder cultivation and commercial farming. Now a days as goat rearing is more popular, this book acquires more significance. This book with 158 pages explains all about goats. Through practical experience author has provided more valuable information.

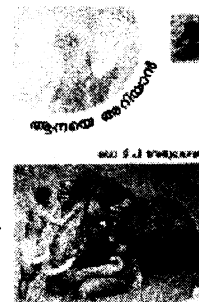
Author has summarized Goat farming activities, project reports, details of Breeder's association, diseases, treatment, Housing details, etc in the appendix. This book will be very much useful to farmers, entrepreneurs, veterinarians, scientists and students. The book has been published by the DCBooks, Kottayam and priced at Rs 65/-only.

Dr. T. P. Sethumadhavan

ANAYE ARIYAN

By

Dr. T. P. Sethumadhavan



Dr. T. P. Sethumadhavan's book on Elephants is unique with regard to simple, lucid style of presentation. Author with his journalistic experience presented the elephant facts in an attractive manner. Dr. Sethumadhavan has attempted to present detailed information on elephants in the book titled "Anaye Ariyan" in Malayalam. This book with enough photos and illustrations explains different aspects of captive and wild elephants starting from history of domestication to recent developments like elephant tourism, research highlights and Thai and Sri Lankan elephant activities. Persons who are interested to learn more about elephants can take this as a reference book.

Author has summarized pictures of different elephant management activities in the appendix. This book will be very much useful to students, elephant lovers, veterinarians and scientists. The book has been published by the Current Books, Kottayam and available in all DC and Current Books outlets.

Dr. G. Ajit Kumar

amount of anaesthetic. Acepromazine block dopamine, as neurotransmitter catecholamine. Deficiency of dopamine result in dysfunction of neurotransmitter system. Diprenorphine is a opioid antagonist used to reverse the action of etorphine. Xylazine is a potent alpha 2 adrenergic agonist. It acts upon the CNS by activation or stimulation of alpha adrenoreceptors such as the alpha 2 adrenergic receptor thereby decreasing sympathetic discharge and decrease the release of nor epinephrine. Xylazine is a analgesic, sedative and skeletal muscle relaxant. Immobilon is a neurolept analgesic preparation. Etorphine - xylazine combination given i/m is considered to be a safe and reliable combination for immobilization of deer.

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