

# DOMOSEDAN\* (DETOMIDINE HCl) SEDATION AND ANALGESIA IN EGYPTIAN BUFFALOES

by SHOKRY, M., MOSTAFA, M.B. AND BASHANDY, M.M.<sup>1</sup>

## Abstract

Detomidine HCl, the sedative and analgesic, was tried on 15 Egyptian buffaloes. The sedative and analgesic properties were studied using different dose rates (20,30,40,50 and 60  $\mu\text{g}/\text{kg}$  bwt) intramuscularly. The onset and duration of the drug action were recorded. The parameters of physiological functions ( body temperature, heart rate, respiratory rate ruminal motility) were investigated. The sedative effect of Detomidine was demonstrated with lower doses (20 and 30  $\mu\text{g}/\text{kg}$  bwt) while analgesia was achieved with higher doses (40,50 and 60  $\mu\text{g}/\text{kg}$  bwt).

**Key words:** Buffalo, sedation, analgesia, detomidine.

## Introduction

Detomidine HCl is a potent  $\alpha_2$ -adrenoreceptors drug which is used as a sedative and analgesic in horses (2, 3) and in cattle (5, 6).

Buffaloes in Egypt occupies an esteemed position among farm animals. The vicious and indocile temperament of buffaloes render veterinarians to look always for pharmacological means for security.

Therefore the aim of this work is to evaluate the sedative and analgesic effects of Detomidine HCl in buffaloes.

## Materials and Methods

Three buffaloes (2 females and one male) aged 3-9 years and weighing 250-550 kg were used in this work. These buffaloes were clinically healthy. Five trials were conducted on each animal with a minimum of 2 weeks intervals. These buffaloes were assigned into 5 groups. Detomidine HCl (10 mg/ml) solution were administered intramuscularly to five groups of 3 individuals at dose rates (20,30,40,50 & 60 mg/kg bwt. i.m).

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\* Domosedan, developed and manufactured by Faroms Group Ltd. Turku, Finland .

1. Departments of surgery and Clinical pathology, Faculty of Vet. Med.

Cairo University, Ciza 12211, Egypt.