



Application of neuromuscular blockade using Rocuronium for performing different surgeries and its reversal by Neostigmine-Glycopyrrolate combination in dogs

YUDHVIR RANA¹✉, ADARSH KUMAR¹, ROHIT KUMAR¹, AMIT KUMAR¹, S P TYAGI¹, SARA KAUSHAL¹, AKSHAY KUMAR¹, MANGAL SINGH¹, VIJAY MAHANTESH¹ and KALPNA THAKUR¹

CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur, Himachal Pradesh 176 062 India

Received: 5 November 2022; Accepted: 10 January 2023

Supplementary Table 1. Mean±SE of Intraocular pressure (IOP) at various time intervals

IOP	Pre-op	Intra-op	Post-op
RIGHT	21.78±0.76	19.98±0.74	21.78±0.71
LEFT	20.15±0.72	19.01±0.49	20.03±0.60

Supplementary Table 2. Mean±SE of time elapsed (minutes) for recovery parameter to exhibit

Parameter	Time
Time of weaning from the ventilator	30.76±0.65 min.
Duration of IPPV under NMBA	27.82±0.72 min.
Time of weaning from ventilator after reversal of NMBA	2.7±0.14 min.
Time lapse till end of surgery after reversal of NMBA	15.8±3.12 min.
Isoflurane discontinued	
Palpebral reflex time	4.67±0.44 min.
Pedal reflex time	13.23±0.50 min.
Time to first head raise	16.88±0.69 min.
Time to first standing	30.94±1.29 min.

Supplementary Table 3. Mean±SE of Haematological parameters at various time intervals

Parameter	Pre-op	Intra-op	Post-op
Hb (g/dl)	12.95±0.61	10.21±0.52**	9.78±0.56***
PCV (%)	37.00±1.60	29.67±1.40**	28.39±1.53***
TLC (×10 ⁹ /l)	16.58±1.08	12.17±1.02**	11.37±1.06**
TEC (×10 ¹² /l)	6.42±0.26	5.21±0.26**	4.95±0.29**
PLT (×10 ⁹ /l)	234.43±26.82	196.59±22.72	197.35±19.78

, Mean difference within the groups is significant when compared with the preoperative value ($p < 0.01$); *, Mean difference within the groups is significant when compared with the preoperative value ($p < 0.001$).

Supplementary Table 4. Mean±SE of Biochemical parameters at various time intervals

Parameter	Pre-op	Intra-op	Post-op
Glucose (mg/dl)	82.47±3.44	92.6±3.40*	96.98±3.15**
ALT (IU/l)	35.54±3.10	30.94±4.18	30.67±4.81
AST (IU/l)	38.32±7.95	20.5±2.29*	20.23±2.32*
BUN (mg/dl)	18.65±1.15	20.82±1.62	21.62±1.54
Creatinine (mg/dl)	0.76±0.07	0.84±0.04	0.84±0.03
Total Protein (g/dl)	5.47±0.25	5.02±0.18	5.34±0.19

*, Mean difference within the groups is significant when compared with the preoperative value ($p < 0.05$); **, Mean difference within the groups is significant when compared with the preoperative value ($p < 0.01$).