

Suphannika Phutthachalee 2011: Comparative Efficacy of Tiletamine HCl – Zolazepam (Zoletil[®]) and Ketamine – Diazepam for Induction Anesthesia in 4 – 6 month Old Foals. Master of Science (Veterinary Clinical Studies), Major Field: Veterinary Clinical Studies, Interdisciplinary Graduate Program. Thesis Advisor: Assistant Professor Worakij Cherdchutham, Ph.D. 66 pages.

The study was designed to compare the drug combinations effect of xylazine – zoletil[®] (XZ group) and xylazine – ketamine – diazepam (XKD group). Both of drugs groups were administered to six foals, age range 4 to 6 months and body weight between 107 to 125 kg in a crossover design. Measured variables were heart rate, respiratory rate, body temperature, blood glucose, systolic and diastolic blood pressure, mean arterial blood pressure, blood gas variables (pH, PaO₂, PaCO₂, HCO₃⁻, TCO₂, BE, and SaO₂). All parameters were evaluated at 5 minutes before and 7 minutes after xylazine administered and were also measured at 5, 10, 15 and 20 minutes after anesthetic drugs administration. Quality of induction and recovery, quality of mouth opening and intubation, number of attempts to regain sternal recumbency, standing position and duration of anesthetic effects were measured. There were no significant differences in any variables (*p* value < 0.05) suggested that xylazine – zoletil[®] combination was safe for induction in the 4 to 6 month old foals.

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Thesis Advisor's signature

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