A New Protocol of Anesthesia Using Thiopental, Diazepam and Xylazine in White New Zealand Rabbits

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Abstract:

The sedative and anesthetic effects of diazepam (D), xylazine (X), thiopental (T) individually and their combinations (DX, DT, XT & DXT) were evaluated in White New Zealand rabbits. The quality of surgical anesthesia obtained from experiment 1 was tested by performing two different surgeries (Vasectomy and embryo transfer; experiment 2). Thirty two growing females and eight adult rabbits (experiment 2) were used in this study. Rabbits were injected with physiological saline, D (2.5 mg/kg), X (10 mg/kg), T (20 mg/kg) or one of the combinations (DX, XT or DXT). Rectal temperature, respiration and heart rates were recorded before and 10 min after injection and the degree and duration of sedation and anesthesia were monitored. Physiological saline had no effect on rectal temperature, respiration and heart rates. Rectal temperatures were increased following thiopental administration (P

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