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| Evaluation of general anaesthesia by using Propionylpromazine, Xylazine and Ketamine in rabbits | Research Title  |
| Single | M. J. Eesa and H. H. Mohammad Nazhat | Shared name  | Shared or Single |
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| Safe and effective anaesthetic regimens have been described for use in rabbits, partially because of the susceptibility of this species to fatal respiratory arrest. The present study was **conducted** to evaluate the efficacy of anesthetics, analgesics combinations an anesthesia in twenty five local breed rabbits. Rabbits were injected intramuscularly by: Propionylpromazine 0.5mg/kg B.W. as premedictation, after 10minutes later Xylazine and Ketamine Hydrochloride at a dose of 20mg/kg, 50mg/kg respectively. The **results** of the physiological parameters of the control group at the period of zero time concerning rectal body temperature, respiratory rate, heart rate were 38.00±0.29 ºC; 96.36 ±3.33bpm; and 147.20±6.46/minutes respectively. While in treated group at the periods 10, 20, 35, 50, 65, 80 and 95 minutes were 37.76 ±0.61; 37.34± 0.28; 37.00± 0.29; 37.00±0.35; 36.92±0.38; 35.80±0.40; 34.92± 0.53 ºC; 96.36±3.33; 41.00±1.37; 45.00±2.01; 45±2.01; 40.00±1.31; 40.00±1.31; 39.20±1.01 bpm; and 147.20±6.46; 142.00±3.73; 145.00±3.26; 144.48±3.31; 130.00±4.18; 140.00±3.49; 138.68 ±2.93 beats/minutes. The results of biochemical tests: Glucose, ALP, GPT, GOT in control group (zero time) were: (137.40±1.97 mg/dl; 53.09±2.13 U/L; 51.48±4.31 U/L; 116.9±09.82 U/L) respectively. And in treated group at the periods (10, 20, 35, 50, 65, 95 minutes and 24 hours) respectively were 139.60±0.79; 207.60±5.00; 222.20±7.42; 359.20;±18.89; 341.60±15.30; 337.7±76.39 and 199.92±9.14 mg/dl; 39.74±2.74; 42.55±3.29; 39.65±4.13; 42.48±2.62; 56.56±2.16; 47.41±3.61 and 42.84±4.16 U/L; 46.17±3.92 ; 39.34±3.01; 44.69±3.05; 49.98±3.16; 51.65±4.03; 47.22±2.54 and 72.63±4.98 U/L, and 94.72±8.24; 86.22±5.59; 90.82±6.89; 76.65±4.12; 82.70±4.69; 100.6±7.39 and 126.6±7.77 U/L. The **conclusion** of this study investigate that the lose of righting reflex was 4.760±0.421 minutes; induction time was 8.44±1.05, the time to complete muscle relaxation was 3.920±0.321 minutes, surgical time 41.48±2.11 minutes, and recovery time was 45.76±2.43 minutes; in which the surgical period was enough for the most of surgical interference, while the recovery period was smooth and short in comparison with another anaesthetic regimen | Abstract |