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| 1 | Title | Laparoscopic Versus Traditional Ovariectomy in Dogs |
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| | Abstract | <p>Objectives: To evaluate the laparoscopic ovariectomy (LAOVE) as an alternative technique for traditional open surgical ovariectomy (OVE) in dogs.</p> <p>Study design: Experimental study.</p> <p>Animals: Six adult intact female dogs aging between 8-30 months and weighing between 12-22 kg.</p> <p>Methods: Dogs were divided into 2 groups: Group 1 (3 dogs), which had ovariectomy by traditional midline open technique (OVE), and Group 2 (3 dogs), which had two-portal laparoscopic ovariectomy technique (LAOVE). All surgical procedures were evaluated considering incision length, operative time, intra-operative and postoperative complications, and healing scores. Blood samples for measurement of serum cortisol concentration (as a stress or pain marker) were collected immediately before incision, 2 hrs and 24 hrs after surgery.</p> <p>Results: No significant surgical complications occurred. The LAOVE technique mean operative time was significantly longer (46.33 ± 15.37 minutes) than OVE technique (19.33 ± 2.52 minutes). No significant difference was observed between groups for intra-operative complications. The group of OVE had significant higher mean serum cortisol level after recovery (17.19 ± 1.87 $\mu\text{g/dL}$) than LAOVE group (12.28 ± 1.97 $\mu\text{g/dL}$). Incision length and healing scores proved better following LAOVE.</p> <p>Clinical Significance: The LAOVE is a safe alternative to OVE in bitches and offers a minimally invasive and less painful technique.</p> |
| | Keywords: | Laparoscopy, Ovariectomy, Evaluation, Traditional midline, Open surgery, Dogs |
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