Research Paper

Adverse Effects of Chemotherapy in Dogs.

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DOI: http://dx.doi.org/10.5455/wvj.20170896
ABSTRACT

Owners of dogs with cancer are often offered chemotherapeutic treatment. However, clients who seek veterinary care for pets with cancer are often concerned about the potential negative impact of chemotherapeutic treatments on their animals' quality of life. The purpose of this retrospective case series was to investigate the delayed acute effects of chemotherapy drugs in dogs receiving cancer treatment and their owners’ opinions regarding chemotherapy acceptance by their pet. In this study, 292 dogs that were treated with chemotherapy as a definitive and/or adjuvant treatment for cancer. Medical records were reviewed to determine the chemotherapy agent used and if they had any delayed adverse effects or not.

Side effects were classified according to VCOG-CTCAE grading of adverse effect severity veterinary co-operative oncology group. Lomustine, carboplatin, vincristine, doxorubicin, cyclophosphamide, mitoxantrone, and vinblastine were administered in 16%, 20%, 15%, 18%, 16%, 8%, and 7% of the cases respectively. The most common adverse effects were neutropenia (22%), vomiting (21%), diarrhea (20%) and inappetence (20%). Cyclophosphamide and vincristine were the agents that had caused more adverse gastrointestinal effects, while lomustine was the drug that had caused more hematologic effects. In some dogs receiving lomustine and carboplatin, neutropenia (some of them severe) had occurred as early as in the sixth day. According to the current grading system of adverse effects induced by chemotherapy, general tolerance to chemotherapy is referred to as grade 1, which was observed in 83% of the cases. Owner opinion was positive in most cases, and 77% of the owners had evaluated that the treatment was well tolerated by their dogs. In contrast, 8% of the treatments were poorly tolerated and they had negatively impacted the affected dogs' quality of life. Based on the data examined, we would recommend that gastrointestinal adverse effects must be prevented with antiemetic medication, especially in dogs receiving cyclophosphamide, vincristine, carboplatin and doxorubicin. Hematologic profile must be performed as early as in the 6-7th day after lomustine and carboplatin, as severe neutropenia can occur. Adverse chemotherapy effects may occur in about 20-25% of canine patients.

Key words: Canine, Oncology, Chemotherapy, Side effect, Tolerability
ABSTRACT

The AET recorded the highest acrosomal reaction (10.17±1.11%), followed by the mixed sperm kinetics (DCL, DAP, VAP, VSL), except for DSL, VCL that showed highest significant effect of the ASMT on the post-thaw motility (M

This study aimed to investigate the efficiency of mechanical and enzymatic elimination of semen viscosity in adult dromedary camel bulls' semen on cryopreservation potential of spermatozoa. Research Paper

STR and WOB in the SMT. These results clarified that both enzymatic and mechanical methods have a positive influence on dromedary camel semen cryopreservation.

Computer assisted semen analysis showed a significant superiority for the AET on mostly all first and second abnormalities 4.13±0.88% and 7.01±1.254%, respectively and acrosomal integrity was significantly varying with body condition scores but it did not significantly vary with age groups of the animals. This study demonstrated the prevalence of bovine tuberculosis in cattle slaughtered at ELFORA export abattoir and low sensitivity of routine and detailed meat inspection methods used to detect lesions. Three hundred members of the Mycobacterium complex group cause tuberculosis, it recognized as one of the most important threats to humans and animals causing mortality, morbidity and economic missing lesions of tuberculosis.

An Abattoir based Study on Bovine Tuberculosis in Debre Zeit, Ethiopia. DOI: http://dx.doi.org/10.5455/wvj.20170899

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The purpose of this study was to evaluate the haematological and biochemical changes in Nigerian dogs with short bowel syndrome. Thirty adult dogs each weighing approximately 89-100

DOI: http://dx.doi.org/10.5455/wvj.20170897

Haematological and Biochemical Changes in Nigerian Dogs with Short Bowel Syndrome. World Vet. J.

The percentage of eggs hatching after 444hrs in setter and 62 hrs in hatcher. Hatch pulling for A was once. Eggs weight at transfer was (53.9±0.8gm and 54.9 ±0.6gm), water loss at transfer was (11.67±0.7% and 10.6±0.7%) and chick weight was at (41.6±0.3gm and 42.7±0.3gm) on day 6. Jabbar A and Ditta YA.

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Key words:

Pal M, Zenebe N, Amare T and Woldemariam T.