Adverse Effects of Chemotherapy in Dogs.

Cunha SCS, Silva FBF, Corgozinho KB, Silva KVG and Ferreira AMR.


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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
Computer assisted semen analysis showed a significant superiority for the AET on mostly all Dromedary Camel Semen.

ABSTRACT

The AET recorded the highest acrosomal reaction (10.17±1.11%), followed by the mixed Recovery Rate (RR) 35.02±5.02%, contrary to a clear superiority of AET treatment on (M Key words: World Vet. J. namely; Amylase Enzymatic Treatment (AET), Syringe Mechanical Treatment (SMT) and

This study aimed to investigate the efficiency of mechanical and enzymatic elimination of semen sperm kinetics (DCL, DAP, VAP, VSL), except for DSL, VCL that showed highest significant

5.03±1.05%. The researcher examined three different treatments for viscosity elimination; during the breeding season. Bulls showed reaction time 40.0±8.23 seconds and 251±24

An Abattoir based Study on Bovine Tuberculosis in Debre Zeit, Ethiopia.
detected only 2.7% (8/300) with visible lesions and there was poor agreement (kappa=0.09)

Members of the Mycobacterium complex group cause tuberculosis, it recognized as one of the

There was a significant decrease in the value of alkaline phosphatase in the five groups and

Kisani AI, Adeyanju JB and Sonfada ML. evaluated. There was no depletion in sodium, potassium, bicarbonate and chloride in all the

The purpose of this study was to evaluate the haematological and biochemical changes in

Group 2 dogs were supplemented with glutamine. Group 3 dogs were supplemented with

Group 4 dogs were supplemented with ascorbic acid and group 5 dogs were

Therefore, a

ABSTRACT

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did not significantly (P > 0.05) vary with age groups of the animals. This study demonstrated the prevalence of bovine

losses in many countries of the world, particularly in developing nations.

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ABSTRACT

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