Research Paper

Adverse Effects of Chemotherapy in Dogs.

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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
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Key words: Dromedary Camel Semen.

have a positive influence on dromedary camel semen cryopreservation. (41.67±6.72%, with significantly higher RR% (76.86±4.63% and 62.10±6.65%) respectively.

namely; Amylase Enzymatic Treatment (AET), Syringe Mechanical Treatment (SMT) and

Recovery Rate (RR) 35.02±5.02%, contrary to a clear superiority of AET treatment on (M treatment (M seconds mating duration. Physical properties of raw semen showed volume mean value

El-Bahrawy KA.

0.05) 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 abattoir inspection. Hence, the carcass must thoroughly examine well to reduce the chance of most important threats to humans and animals causing mortality, morbidity and economic

six dogs each. Group 1 is the control group. The dogs here were not placed on any treatment. ABSTRACT

The purpose of this study was to evaluate the haematological and biochemical changes in patients with resection of proximal small intestinal tract. The dogs were randomized into five groups of (alanine aminotransferase, aspartate aminotransferase and alkaline phosphatase) were also therefore, concluded that patients with resection of proximal small intestinal tract have better parameters, serum electrolytes (Sodium, potassium, bicarbonate and, chloride) and enzymes

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Incubation Duration of Broiler Breeder Egg and Post Hatch Performance. that weighed up to 55-60g were selected. In the current study, two experimental groups each

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Four hundred eggs from Ross-308 different breeder flocks which were 42-46 weeks old and standard eggs

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Breeders eggs Setters water loss Hatchers Chicks