

Apocrine Gland Adenocarcinomas in 4 Dogs

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Signalment: Four dogs diagnosed as apocrine gland adenocarcinoma (AGACA) based on cytology and/or histology and had various size of perineal masses. Two dogs had diarrhea and fecal incontinence for several months and other two dogs didn't have any clinical signs. Mean age of these dogs was 12 years old. Two of these dogs were females and other two dogs were males. We performed screening tests including complete physical examination, blood test, abdominal x-ray, ultrasonography. Two of these dogs had hypercalcemia. Measurement of mass sizes and serum Ca⁺⁺ levels were recorded and monitored by regular check.

Results: One dogs with only supportive care for hypercalcemia was died after 1 month from at the time of diagnosis. Other three dogs were treated with chemotherapy and one of these dogs was intervened with surgical mass resection. At the time of diagnosis, two dogs were hypercalcemic and three dogs presented with regional lymph node metastases (especially sublumbar lymphnode). Hypercalcemia were treated with supportive care including fluid therapy, furosemide and prednisolone. Carboplatin with or without doxorubicin were used as chemotherapeutic agents. These dogs showed complications due to chemotherapy, like as mild leukopenia, alopecia, vomiting and were successfully managed with supportive care. The survival time of alive three dogs from the time of diagnosis is 14, 8, and 2 months.

Clinical relevance: Complete resection of large AGACA is difficult due to proximity to rectum and poor margination. Recommended treatments for AGACA are radiation with/without chemotherapy. In these cases, chemotherapy and/or surgery performed. After chemotherapy, three dogs were generally in good body condition and maintained as similar in size as time of diagnosis. The results suggest that it is worthwhile to try chemotherapy for managing AGACA in dogs especially in complicated cases or metastatic to regional lymph nodes.

Key words: Apocrine gland adenocarcinoma, chemotherapy, dog

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