Haemangiosarcoma survival of dogs in UK first opinion practice

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Background:

- Haemangiosarcoma is an important and relatively common malignancy of dogs with a very poor perceived prognosis_{1,2}.
- Main sites: visceral (spleen, heart, liver) or cutaneous tissues₃.
- Few studies have examined haemangiosarcoma survival times and factors associated with survival in first opinion clinics₃.

Methods:

Haemangiosarcoma cases (n=788) were identified in VetCompass[™] electronic health records of ~2 million dogs in 2019.

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Median survival time (MST) calculated for all cases and by tumour location (cardiac, cutaneous, hepatic, splenic)

1) Determine median survival time of haemangiosarcoma cases

2) Explore factors potentially associated with haemangiosarcoma survival time

Results:

Haemangiosarcoma case survival time



Factors potentially associated with survival (demographics, presenting signs, case management, tumour factors) were assessed in Cox Proportional Hazards regression analyses

- Survival time from diagnosis ranged: 0-1789 days
- MST for all cases was 9 days from diagnosis (95%CI 5-15 days)
- Cardiac and hepatic cases had an MST of **0 days** (95%Cl 0-0)

(HR=1.88, 95%CI 1.15-3.07, p=0.01)

Surgery **0.5x** hazard vs no surgery (HR=0.48, 95%CI 0.38-0.62, p<0.001)

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Conclusion:

- Survival time for haemangiosarcoma cases in first opinion practice is short, particularly for visceral locations. - Factors associated with survival provide opportunities for improved contextualised care and dialogue with clients in first opinion clinics.

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