



Retrospective study comparing Cytarabine Arabinoside administration methods in dogs diagnosed with Meningoence phalomyelitis of Unknown Etiology 2011-2015

Rachel Arnold

Emergency Veterinarian Research on Inflammatory Brain Disease (MUE) Danville, Kentucky, United States

Abstract:

To evaluate and compare the efficacy of Cytarabine Arabinoside given subcutaneously (SQ) or as a constant rate infusion (CRI) for the treatment of Meningoence phalomyelitis of Unknown Etiology (MUE) in dogs.

Methods Used: Retrospective study of dogs diagnosed and treated at Auburn University College of Veterinary Medicine between 2011-2015 with MUE. The route of Cytarabine Arabinoside was compared using statistical analysis of survival time, breed predilection, age and sex at diagnosis, relapse of clinical signs, as well as remission length.

Results Summary: Survival time was affected by treatment modality. There was a strong positive and significant correlation with the number of 8-hr CRI treatments and survival time ($r = 0.87$, $p = < 0.001$) (Figure 1). The number of SQ treatments did not affect survival time ($r = -0.05$, $p = 0.819$). These results can be seen in Figure 1 below.

In conclusion, Overall, treatment of MUE has been anecdotal at best. However, this current research has shown that Cytarabine Arabinoside administration as a CRI, over an 8-hour period, greatly increases the survival time when compared with subcutaneously administration.



Biography:

Dr. Rachel Arnold has completed her Doctor of Veterinary Medicine, Suma cum laude, from Tuskegee University, College of Veterinary Medicine, USA. She completed her BS from Auburn University, College of Agriculture, and AS, Magna cum laude, in Veterinary Technology, from Brown Mackie College. She presented at ACVIM Forum in 2017 on Meningoencephalomyelitis of Unknown Etiology (MUE) and is currently in the process of publishing her research comparing the route of Cytarabine used with the longevity of dogs diagnosed with MUE. Currently, Dr. Arnold is practicing as an emergency and critical care veterinarian.

Publication of speakers:

1. Retrospective study comparing Cytarabine Arabinoside administration methods in dogs diagnosed with Meningoence phalomyelitis of Unknown Etiology 2011-2015

Veterinary Medicine and Animal Sciences July 09-10, 2020. London U.K.

Citation: Dr Rachel Arnold, Retrospective study comparing Cytarabine Arabinoside administration methods in dogs diagnosed with Meningoence phalomyelitis of Unknown Etiology 2011-2015, Veterinary Medicine 2020, July 09-10, 2020 London, UK