Title:
A Review of the Safety of Macrocyclic Lactone Anthelmintics in MDR1(−/−) Dog Breeds

Session:
Parasites: Humanities Room

“Parasites: A Tribute to Dr. Allan Paul’s Legacy”

Time slot for presentation:
Thursday, September 22nd, 3:25 – 5:15 pm. (Note: the proposed presentation may not fill the entire 110 minute time slot)

Presenter:
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Overview of Presentation:
In the late 1980’s, Dr. Paul and colleagues in the College of Veterinary Medicine at the University of Illinois, in collaboration with scientists at Merck, were the first to publish data on potential adverse events in collie dogs given high doses of macrocyclic lactones (ML). Additional research has been conducted since these seminal studies were published, including more detail on the specific mode of action, the specific genetic mutation in dogs, new tests to identify dogs with the genetic mutation and potential treatment modalities given to dogs experiencing adverse events after administration of a ML. This presentation will give an overview of what we know about this clinical syndrome in sensitive dogs given ML’s and what new data has been generated since the late 1980’s.

References cited during Powerpoint Presentation:
Listed below are the references used for the review and summary of information presented by the speaker on individual PowerPoint slides used during this presentation. These references represent a number of more recent and excellent review articles by a number of veterinary scientists who have worked in this research area and provide much more detail, information, and
additional references for anyone who attends this presentation and wants more details above and beyond what is summarized in the speakers PowerPoint slides that will be used during this talk.

- Dog sickened by ivermectin through sheep feces. JAVMA • Vol 248 • No. 4 • February 15, 2016; page 357
- http://www.collie-online.com/
- Genetic Diagnostic testing for MDR1 mutation in dogs: http://www.vetmed.wsu.edu/depts-VCPL/
- Bissonnette S, Paradis M, Daneau I, Silversides DW. The ABCB1-1A mutation is not responsible for subchronic neurotoxicity seen in dogs of non-collie breeds following