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► **To cite this version:**

Alain Bousquet-mélou. Licking behaviour affects the disposition of macrocyclic lactone pour-on formulations in cattle. 12. International Congress of the European Association for Veterinary Pharmacology and Toxicology (EAVPT 2012), Jul 2012, Noordwijkerhout, Netherlands. 182 p. hal-02747528

HAL Id: hal-02747528

<https://hal.inrae.fr/hal-02747528>

Submitted on 3 Jun 2020

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Session 12: Antiparasitics. Wednesday 11-07: 9.00 – 10.30

12.1.K. Licking behaviour affects the disposition of macrocyclic lactone pour-on formulations in cattle

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Pour-on formulations of macrocyclic lactones (MLs) are considered as transdermal formulations. However, the actual disposition of MLs is considerably influenced by natural licking behavior, leading to the oral ingestion of a large fraction of the endectocide poured on the backs of cattle. Licking is a component of both self- and allo-grooming, meaning that it also determines exchanges of substances between animals in the same herd. The presentation will discuss the main studies demonstrating this phenomenon and investigate its consequences, in terms of plasma and intestinal ML disposition, intra- and inter-individual variability, as well as issues concerning residues, anthelmintic activity and resistance.

12th International Congress of the European Association for Veterinary Pharmacology and Toxicology

8 – 12 July 2012
Noordwijkerhout
The Netherlands



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