

Accepted Manuscript

Title: Renal azotemia and associated clinical and laboratory findings in dogs with *Babesia rossi* infection

Authors: P. Defauw, S. Daminet, A.L. Leisewitz, A. Goddard, D. Paepe, L. Duchateau, J.P. Schoeman



PII: S0304-4017(18)30288-7
DOI: <https://doi.org/10.1016/j.vetpar.2018.07.012>
Reference: VETPAR 8724

To appear in: *Veterinary Parasitology*

Received date: 30-3-2018
Revised date: 28-6-2018
Accepted date: 25-7-2018

Please cite this article as: Defauw P, Daminet S, Leisewitz AL, Goddard A, Paepe D, Duchateau L, Schoeman JP, Renal azotemia and associated clinical and laboratory findings in dogs with *Babesia rossi* infection, *Veterinary Parasitology* (2018), <https://doi.org/10.1016/j.vetpar.2018.07.012>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Renal azotemia and associated clinical and laboratory findings in dogs with *Babesia rossi* infection

P. Defauw^{a*}, S. Daminet^a, A.L. Leisewitz^b, A. Goddard^b, D. Paepe^a, L. Duchateau^c, J.P. Schoeman^b

^aSmall Animal Department, Faculty of Veterinary Medicine, Ghent University, Salisburylaan 133, 9820 Merelbeke, Belgium

^bDepartment of Companion Animal Clinical Studies, Faculty of Veterinary Science, University of Pretoria, Pretoria, Onderstepoort 0110, South Africa

^cBiometrics Research Group, Faculty of Veterinary Medicine, Ghent University, Salisburylaan 133, 9820 Merelbeke, Belgium

*Corresponding author.

Tel No.: +3292647700; Fax No.: +3292647791; E-mail address: pieter.defauw@ugent.be (P. Defauw)

Small Animal Department, Faculty of Veterinary Medicine, Ghent University, Salisburylaan 133, 9820 Merelbeke, Belgium

This work was partially presented as a research report at the 2017 ACVIM forum, National Harbor, MD.

Highlights

- Renal azotemia was diagnosed at presentation in 14% of all dogs.
- Based on urine specific gravity, renal azotemia was an underdiagnosed event.
- Based on urine osmolality, most azotemic dogs had renal azotemia.
- Old age and hyperphosphatemia could help to identify concomitant renal azotemia.

The occurrence of acute kidney injury in canine babesiosis is not well documented. Furthermore, interpretation of urine specific gravity (USG) to assess renal concentrating ability is hampered by the frequent presence of hemoglobinuria in this disease.

This cross-sectional study aimed to test the hypothesis that renal azotemia (RA) is underdiagnosed according to current canine babesiosis literature by determining its occurrence at presentation, using urine osmolality instead of USG to measure urinary concentration. The second objective was to examine potential associations between the presence of RA and selected clinical and laboratory variables at presentation. Medical records

Download English Version:

<https://daneshyari.com/en/article/8505866>

Download Persian Version:

<https://daneshyari.com/article/8505866>

[Daneshyari.com](https://daneshyari.com)