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Equine sperm-bound antisperm antibodies are associated with poor semen quality

M.S. Ferrer, L.M.J. Miller

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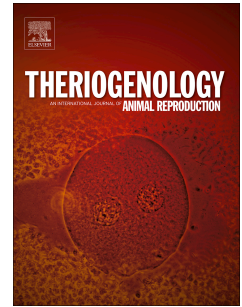
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3 Ferrer MS^{*}, Miller LMJ^a

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5 Department of Clinical Sciences, College of Veterinary Medicine, Kansas State

6 University, Manhattan, KS 66506.

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8 ^{*}Corresponding author and present address: Department of Large Animal Medicine, College of

9 Veterinary Medicine, University of Georgia, Athens, GA 30605, USA. Tel.: +1-706-542-3223.

10 Email address: msferrer@uga.edu. ^aPresent address: College of Veterinary Medicine, Lincoln

11 Memorial University, Harrogate, TN 37752

12
13 Abstract

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15 Antisperm antibodies (ASAs) have been associated with infertility in stallions. The
16 objectives of this study were to investigate the frequency of ASA-positive semen samples in
17 satisfactory and non-satisfactory breeder stallions, the association between ASA binding and
18 semen quality, and factors that may affect the diagnosis. Breeding soundness examinations were
19 performed in 21 stallions and the percentage of IgG- and IgA-bound spermatozoa was evaluated
20 using flow cytometry. Median IgG and IgA binding did not differ between the first and second
21 ejaculates. The percentage of IgA-bound spermatozoa was higher in non-satisfactory (n=10)
22 than satisfactory breeder stallions (n=11). However, IgG binding or frequency of IgG-positive
23 ejaculates did not differ with stallion classification. The IgG-positive stallions had significantly

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