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[home](#) [page](#) [about us](#) [contact](#)

[us](#)

Table of  
Contents

**VETMED  
2015**

**VETMED  
2014**

**VETMED  
2013**

**VETMED  
2012**

**VETMED  
2011**

**VETMED  
2010**

**VETMED  
2009**

**VETMED  
2008  
VETMED  
2007  
VETMED  
2006  
VETMED  
2005  
VETMED  
2004  
VETMED  
2003  
VETMED  
2002  
VETMED  
2001  
VETMED  
Home**

---

**Editorial  
Board**

**For Authors**

- **Authors  
Declaration**
- **Instruction  
to Authors**
- **Guide for**

**Authors**

▪ **Fees**

▪ **Submission**

---

**Subscription**

**Veterinari Medicina**

**Prevalence of brucellosis in ruminants in Bangladesh**

Rahman MS, Faruk MO, Her M, Kim JY, Kang SI, Jung SC:

**Veterinari Medicina, 56 (2011): 379-385**

[ [fulltext](#) ]

The prevalence of brucellosis was determined in the ruminants (buffaloes, cattle, sheep and goats) of five different districts viz. Bagerhat, Bogra, Gaibangha, Mymensingh and Sirajgonj of Bangladesh. A total of 550 sera samples of 105 buffaloes, 188 cattle, 127 goats and 130 sheep were screened by RBT and were further confirmed with I-ELISA. A structured questionnaire was used to collect epidemiological information on the animals. The overall serological prevalence derived from the samples was 2.87% in buffaloes, 2.66% in cattle, 3.15% in goats, and 2.31% in sheep. The prevalence was relatively higher in females than that in males in cattle, goats

prevalence was observed in males than that in females in the case of buffalo. A significant association was found between abortion or age and occurrence of brucellosis ( $P < 0.01$ ). The results of the study provide (a) a comparison of the prevalence of brucellosis in different livestock species in Bangladesh, (b) constitute baseline data for further study of *Brucella* infections, and (c) are a starting point for the control of brucellosis.

### **Keywords:**

brucellosis; ruminants; Bangladesh; seroprevalence

[ [fulltext](#) ]

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