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Authors: B.B. Singh, M.S. khatkar, R.S. Aulakh, J.P.S. Gill, N.K. Dhand



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Estimation of the health and economic burden of human brucellosis in India

BB Singh^a, MS khatkar^b, RS Aulakh^a, JPS Gill^a and NK Dhand^b

^aSchool of Public Health & Zoonoses, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab 141004, India

^bSchool of Veterinary Science, The University of Sydney, 425 Werombi Road, Camden, 2570 NSW, Australia.

*Corresponding author. Tel.: +91 161 2414009; Fax: +91 161 2400822

E-mail address: bbsdhaliwal@gmail.com

Abstract

High seroprevalence estimates of brucellosis in livestock species and humans in India suggest that the disease is a significant public health concern in the country. We developed an economic model and conducted an assessment of the impact of human brucellosis in India to describe the current situation to help formulate prevention and control strategies. Economic losses of human brucellosis were calculated based on the official records and the data from epidemiological surveys conducted in India. These data were used to estimate the disability adjusted life years (DALYs) due to human brucellosis. Uncertainty was incorporated in the model by applying probability distributions for certain input parameters. The analyses were further supplemented by conducting sensitivity analyses to determine which parameters had the biggest

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