

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_125237
Title of the Manuscript:	Canine brucellosis- a comprehensive review
Type of the Article	Review Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>Brucellosis is an important topic in veterinary science due to its significant impact on both animal health and the economy, as well as its zoonotic implications for human health. The disease, caused by bacteria of the genus <i>Brucella</i>, affects various animal species, including cattle, sheep, and goats, leading to reproductive issues like abortion and reduced fertility. This not only impacts animal welfare but also causes considerable financial losses for farmers and the livestock industry, making brucellosis a vital area of study in veterinary science.</p> <p>One key aspect that makes brucellosis particularly relevant is its zoonotic potential, meaning it can be transmitted from animals to humans. People can contract brucellosis through direct contact with infected animals or by consuming unpasteurized dairy products from infected animals. In humans, brucellosis can lead to serious health issues, such as fever, joint pain, and long-lasting fatigue. Consequently, brucellosis represents a public health concern, and efforts to control and eradicate it in animals are critical not only for animal welfare but also to prevent human infections.</p> <p>In the article, the focus is primarily on the effects of brucellosis as an illness in animals, particularly on how it impacts animal reproduction and productivity. While this is essential information for understanding the disease's effects in veterinary settings, it somewhat overlooks the zoonotic dimension of brucellosis, which is also a major consideration. Addressing the zoonotic impact of brucellosis would provide a more comprehensive view of the disease, highlighting the importance of effective control measures to reduce transmission risks to humans.</p> <p>The economic implications of brucellosis control in veterinary science extend beyond simply protecting livestock health. When brucellosis spreads in herds, it often requires extensive testing, vaccination, and sometimes culling of infected animals to manage the disease. These measures are costly but necessary to maintain a healthy livestock industry. By prioritizing brucellosis research, particularly with a balanced view on both animal and human health impacts, veterinary science can better equip itself to address both economic challenges and public health concerns associated with the disease.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Bases in the content, can be suggested as a title?</p> <p>Canine brucellosis- a comprehensive biological review</p>	
<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>Yes</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>In this study, the authors point out efficiently about how animal reproduction is crucial in veterinary science, not only for ensuring the sustainability of livestock but also for understanding the complex interactions between animals' reproductive systems and their bacterial flora. Bacterial flora plays an essential role in maintaining reproductive health, as beneficial bacteria can enhance immunity and prevent the colonization of harmful pathogens. When imbalances occur, it can lead to reproductive issues that directly impact fertility and productivity. With the rise in bacterial infections affecting livestock, such as brucellosis, researchers have increasingly focused on how pathogenic bacteria can disrupt</p>	

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	<p>reproductive processes and what preventative measures can help protect animal health.</p> <p>Brucellosis, in particular, is a bacterial infection caused by the Brucella species that has been shown to cause significant reproductive challenges in animals, especially in cattle, sheep, and goats. The disease leads to complications like abortion, stillbirths, and infertility, all of which drastically reduce the productivity of livestock. Recent research highlights how brucellosis infection affects not only the reproductive organs but also disrupts the natural bacterial flora that typically protects against other infections. By understanding these complex interactions, researchers hope to develop more effective interventions to protect reproductive health and manage bacterial flora in livestock populations.</p> <p>The article provides a clear perspective on the impact of brucellosis on animal reproduction, detailing how it interferes with fertility and results in economic losses for farmers. However, it lacks examples of zoonotic cases, which would illustrate the broader consequences of the disease on both animal and human health. Brucellosis is a zoonotic disease, meaning it can transfer from animals to humans, typically through direct contact with infected animals or the consumption of unpasteurized dairy products. By including examples of human brucellosis cases, the article could further emphasize the importance of controlling this disease for the benefit of public health, as well as animal welfare.</p> <p>Regarding the pathogenesis and clinical signs of brucellosis, the article lacks specific examples that would validate its relevance as a resource for understanding the disease's role in animal health. Clinical signs of brucellosis, such as fever, joint pain, and reproductive failure, are critical indicators that can aid in early diagnosis and treatment. Pathogenesis studies, which explore how brucellosis infects and spreads within animal populations, are essential for developing vaccines and other preventive measures. Without these examples, the article misses an opportunity to provide readers with a thorough understanding of brucellosis as a health threat, leaving a gap in its value as a comprehensive source for both veterinary and zoonotic health insights.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>For the ethiology and clinical signs, they are OKk, butabout the new tachnologies related to diagnosis and treatments, the authors could bring new scientific evidence to support their review</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Its ok, Yes</p>	
<p>Optional/General comments</p>		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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