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Full Length Article

Sero-diagnosis of brucellosis in sheep and humans in Assiut and El-Minya governorates, Egypt

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ARTICLE INFO

Keywords:

Abortion
Brucellosis
Egypt
Risk factors
Sheep
Zoonosis

ABSTRACT

Egypt is an endemic area with brucellosis, so whenever herd problem associated abortion is present, brucellosis should be suspected, and its sero-diagnosis is needed. The present study aimed to estimate the seroprevalence of brucellosis in sheep and their contact humans in Assiut and El-Minya Governorates where a history of abortion in sheep was the chief complaint of the farmers; besides, the appearance of signs of undulant fever among some contact humans. Also, to identify the risk factors for brucellosis seropositivity at human and animal level. Serum samples were collected from 189 sheep and 53 in contact humans in Assiut and El-Minya Governorates, Egypt, during 2017. Antibodies against brucellosis were measured in the serum samples using Rose Bengal Plate test (RBPT) and were further confirmed using Serum Tube Agglutination Test (STAT). The overall seroprevalence of brucellosis using RBPT was 15.87% in sheep and that in humans was 9.44% (5 of 53), respectively. STAT confirmed that 40% of the RBPT-positive reactor sheep were infected by *Brucella abortus*, 16.67% were containing *Brucella melitensis* and 20% were experiencing a mixed infection of both *Br. abortus* and *Br. melitensis*. Additionally, 80% of the RBPT-positive reactor humans were infected with *Br. abortus* only and 20% were having both species of *Brucella*. Among different analyzed variables in this study, the age and farming system of the examined sheep were statistically significant. There was no significant effect in relation to gender, abortion history and pregnancy status of the examined animals, however, higher exposure rates were found among males, abortive animals, and recently calved animals. Gender of the tested humans and presence of seropositive sheep in contact differed significantly in acquiring the infection. Nevertheless, other factors, including age, education, and profession were statistically insignificant on getting human brucellosis. These results indicate the high seroprevalence of brucellosis in humans and sheep in the study areas and generally in Egypt, and therefore, control programs should be implemented.

1. Introduction

Brucellosis is a common neglected zoonosis with a global geographical distribution, and as such jeopardizes human health and animal production [1]. The etiological agents causing brucellosis belong to genus *Brucella*, and the classical disease in humans is mainly caused by *Br. abortus* (from cattle), *Br. melitensis* (from goats and sheep), and *Br. suis* (from pigs) [2]. Human can acquire brucellosis via contact with infected animal secretions and carcasses or consumption of their products, mostly unpasteurized milk and milk products [3].

In sheep, brucellosis causes late abortion, stillbirth, reduced fertility and decreased milk production resulting in significant economic losses

while in humans, it has a variety of clinical manifestations such as undulant fever, malaise, insomnia, arthralgia, sexual impotence, nervousness and depression [4]. Human brucellosis is also known for multiple organ involvement causing encephalitis, meningitis, endocarditis, arthritis, orchitis, and prostatitis [4]. Additionally, brucellosis can induce spontaneous abortions in pregnant women [5].

In Egypt, brucellosis is still endemic and the true incidence of human brucellosis is underestimated [6]. In a hospital based survey conducted over two-years in two large hospitals in Cairo, 5% of the admitted patients were positive for brucellosis [7]. Between 1999 and 2003, out of 10,130 Acute febrile illness (AFI) patients from 13 infectious disease hospitals in different regions of Egypt, 3% and 11%

Peer review under responsibility of Faculty of Veterinary Medicine, Cairo University.

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E-mail address: maha.ihamed@vet.assu.edu.eg (M.I. Hamed).<https://doi.org/10.1016/j.ijvsm.2018.01.007>

Received 28 September 2017; Received in revised form 29 January 2018; Accepted 30 January 2018

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Diseases Of Sheep Assiut University

Minjie Lin



Diseases Of Sheep Assiut University:

Animal Disease Occurrence ,1990 Index Veterinarius ,2007 *Assiut Veterinary Medical Journal* ,2000

Index-catalogue of Medical and Veterinary Zoology ,1982 **Elements of Reproduction and Reproductive Diseases**

of Goats Tanmoy Rana,2024-12-17 Specialist reference and practical guidebook on goat reproductive health emphasizing reproductive diseases their clinical management and production management Elements of Reproduction and Reproductive Diseases of Goats discusses the reproductive system and various reproductive diseases of goats with coverage of pathogenesis of diseases disease prevention diagnosis and treatment via drugs and other methods along with general best management of goats To aid in reader comprehension and practical application the book includes colored figures lined figures and tables visualizing key concepts The book explains reproductive anatomy of both males and females in a systematic way The main topics in this book include breeding characteristics pregnancy detection diagnosis and treatment management of infertility obstetrics abortion surgery of the reproductive tract and care and management of kids The book emphasizes state of the art research on the physiological and biochemical mechanisms in regulation of reproduction Edited by a highly qualified practitioner and contributed to by a wide variety of contributors each with specialized knowledge in their respective area of knowledge Elements of Reproduction and Reproductive Diseases of Goats covers sample topics such as Puberty and sexual maturity selection criteria nutrition parasitic infection seasonal perspectives and estrus synchronization Preparation for breeding season gestation and parturition lactation reproductive failures and postpartum care Diseases of the glans penis and prepuce urethra scrotum and inguinal lymph nodes prostate and testis Infectious abortive diseases including chlamydiosis toxoplasmosis q fever brucellosis and campylobacteriosis along with non infectious abortive diseases Ketosis and pregnancy toxemia hypocalcemia uterine and rectal prolapse retained placenta and fetal membranes metritis and endometritis pyometra and mastitis Elements of Reproduction and Reproductive Diseases of Goats is a highly comprehensive resource on the subject ideal for veterinary practitioners small ruminant researchers veterinary students farm managers industrialists and all professionals involved in the raising care and breeding of goats along with students and instructors in related programs of study **Agrindex** ,1993 Parasitism and Parasitic Control in Animals Hafiz Muhammad Rizwan,Muhammad Sohail Sajid,2023-07-10 Parasitism and Parasitic Control in Animals brings together all the details needed to appropriately manage parasites in domestic animals It provides comprehensive coverage of parasites and factors affecting their transmission principles of parasite control diagnosis and assessment of parasitological information With numerous new case histories and maps showing the spread of anthelmintic resistance this textbook forms an essential guide for veterinary practitioners students and technicians It is also an invaluable resource for parasitologists researchers animal health professionals and anyone working with these parasites in developing countries *The Handbook of Zoonotic Diseases of Goats* Tanmoy Rana,2024-11-18 Goats are the predominant domestic livestock and certainly the predominant

small ruminant in most of Asia Africa and the warmer parts of Europe Important for meat milk fibre and leather production their widescale production and husbandry allows many opportunities for the spread of disease between livestock and their keepers Taking a One Health approach to the issue this book provides clear accurate and comprehensive coverage of the zoonotic diseases of goats Including information on aetiology the epidemiology and transmission cycle clinical symptoms diagnosis and prevention and control strategies An invaluable resource for veterinary practitioners and public health experts around the world this book also provides a useful reference for researchers and students of animal disease and human health

Index-catalogue of Medical and Veterinary Zoology. Supplement 1- United States. Bureau of Animal Industry. Zoological Division,1953 The Economics of Animal Health and Production Jonathan Rushton,2009 Annotation Illustrated with review studies on animal health economics this book presents information on the most important economic tools applied to livestock covering both theory and practical applications Topics covered include gross margin analysis partial budgeting investment and financial appraisal and cost benefit analysis There are also sections on decision tree analysis optimisation methods value chain analysis new institutional economics DALYs and a range of policy analysis tools International experts contribute on important theoretical and practical aspects of animal health and production economics with global themes on livestock and poverty **Characterization of Small Ruminant Breeds in West Asia and North Africa: North Africa** ,2005 **Goat Medicine** Mary C. Smith,David M. Sherman,2011-11-16 Fully revised and expanded Goat Medicine Second Edition includes discussions on new diseases ranging from bovine spongiform encephalopathy to floppy kid disease as well as major updates on important diseases such as scrapie mycoplasmosis paratuberculosis and urolithiasis Information has also been added on management of transgenic goats and organic goat production The text begins by outlining fundamentals of goat practice and moves on to systems based coverage of the goat Each chapter provides clinical anatomy and physiology of every system alongside information on relevant clinical signs differential diagnosis and system specific disease

Competitive problems in the drug industry United States. Congress. Senate. Select Committee on Small Business. Subcommittee on Monopoly,1975 **Journal of Veterinary Science of the United Arab Republic** ,1971 Manual of Security Sensitive Microbes and Toxins Dongyou Liu,2014-04-08 Security sensitive microbes viruses bacteria fungi and parasites and toxins which are often referred to as the select agents and toxins have the capacity to cause serious illness and death in humans animals and plants This book is an authoritative and comprehensive review of security sensitive microbes viruses bacteria fungi and parasites and toxins with an emphasis on the state of the art in the field Written by experts in the field the chapters present authoritative reviews each one covering a single microbe or toxin with respect to its classification biology epidemiology pathogenesis identification diagnosis treatment and prevention The chapters also discuss the limitations of our current knowledge and challenges relating to improved detection and control of the microbe or toxin

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Competitive problems in the drug industry United States. Congress. Senate. Select Committee on Small Business. Subcommittee on Monopoly and Anticompetitive Activities,1967 **The Halal Food Handbook** Yunes Ramadan Al-Teinaz,Stuart Spear,Ibrahim H. A. Abd El-Rahim,2020-01-08 A unique handbook providing a set of good practice standards for both producers and consumers of Halal food This accessible authoritative book covers all aspects of Halal from its origins through to how we expect Halal to develop in the coming years It explains what Halal is where it came from how it is practiced and by whom In addition to putting Halal in a religious and cultural context the book provides practical standards for those working in the Halal trade It explains why there are so many different interpretations of Halal and why this needs to be resolved if international trade is to be developed Each chapter in The Halal Food Handbook is written by leading experts in their particular field of study The first one discusses how regulatory bodies have failed to stem the miss selling and adulteration of Halal foods The next chapters cover the slaughter process and issues around good practice The book then looks at regulators covering Sharia law UK national laws and the EU and outlines the legal framework for enforcing the law It also compares and contrasts different types of religious slaughter for faith foods examines attempts to set an international standard for trade and discusses pork adulteration in Halal foods The final chapter covers other aspects of Halal including cosmetics tourism lifestyle and banking and finishes with a look at what the future holds for Halal Written and edited by leading international experts in Halal who are backed by the Muslim Council of Britain Presents a set of good practice standards for both producers and consumers of Halal food Covers the complexity of the political legal and practical dimensions of Halal food production The Halal Food Handbook will appeal to a wide audience including abattoirs manufacturers retailers regulators academics public bodies catering for Muslims and the broader Muslim community

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