

High incidence of Brucella epididymo-orchitis in Ardabil, Iran



Hamed Mohseni Rad*

Urology Nephrology Research Center (UNRC), Shahid Labbafinedzhad Hospital, Shaheed Beheshti University of Medical Sciences, Iran

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*Corresponding author: Hamed Mohseni Rad, Urology Nephrology Research Center (UNRC), Shahid Labbafinedzhad Hospital, Shaheed Beheshti University of Medical Sciences, Tehran 09821, Iran

Abstract

Brucella is a Gram-negative facultative intra cellular bacteria that is an important cause of epididymo-orchitis in endemic area like Ardabil, Iran. The incidence of brucellosis in Ardabil is 10-21 in 100,000 population, but brucella epididymo-orchitis incidence is unknown. 2-20% of brucellosis patients may have epididymo-orchitis. Majority of Ardabil people live in rural area concord with domestic animals like sheep, cow and goat. It seems that BEO incidence in Ardabil compared to developed countries or even other provinces of Iran is higher. The incidence of brucella epididymo-orchitis in Ardabil province in Iran is widespread out of prospective. BEO must be important acute scrotal pain differential diagnosis in alike endemic area.

Introduction

Brucella is a Gram-negative facultative intra-cellular bacteria [1] that is an important cause of epididymo-orchitis in endemic area like Ardabil, Iran [2]. The main source of brucellosis is unpasteurized dairy products and men are more affected than girls [3]. The incidence of brucellosis in Ardabil is 10-21 in 100,000 population, but brucella epididymo-orchitis incidence is unknown [4]. 2-20% of brucellosis patients may have epididymo-orchitis [5]. Majority of Ardabil people live in rural area concord with domestic animals like sheep, cow and goat. It seems that BEO incidence in Ardabil compared to developed countries or even other provinces of Iran is higher. [6] Although brucella epididymo-orchitis (BEO) is rare manifestation of disease, it should be in mind in acute scrotum youth [7]. BEO patients usually refer to urology office with acute testis pain, swelling, fever and sweating. Other symptoms may be asthenia, arthralgia, back pain, dysuria, shiver and rash and vomiting. (8) Osteo-articular involvement, spondylitis, sacroiliitis, peripheral arthritis, and hepatitis are possible coexisting illnesses. [9] Rose-Bengal and Wright agglutination tests. Rose-Bengal and Wright agglutination tests always are positive but Coombs test may be negative (10). BEO usually affects testis unilaterally while urine culture is sterile [11].

Conclusion

The incidence of brucella epididymo-orchitis in Ardabil province in Iran is widespread out of prospective. BEO must be important acute scrotal pain differential diagnosis in alike endemic area.

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