

Retrospective Statistical Study on the Evolution of Brucellosis during the Last Decade (2011-2021) in Medea, Algeria

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Abstract : Brucellosis is one of the most common zoonoses in the world. It represents a serious threat to human health; the existence of brucellosis in Algeria dates back to the beginning of the 19th century. Its transmission to humans is through coccobacilli of the genus *Brucella* following direct contact with contaminated animals or indirectly through the consumption of their unpasteurized dairy products. The present investigation covers a retrospective study on human brucellosis in the district of Medea over a period from 2011 to 2021 at the level of two public health establishments. In the first place, it is at the level of the Directorate of Public Health and in the infectious department level at Medea Hospital, and at the level of the directorate of agricultural services in the third place. The results showed that during these eleven years of study, 795 cases were collected from the department of health and population, and 141 cases were collected from the infectious department of the district of Medea. A total of 56 cases of bovine brucellosis were obtained from the directorate of agricultural services of the district of Medea. Human brucellosis affects all age groups with different percentages, but the rate has been higher in the 20-44 age group, with a predominance of men. However, the geographic distribution map of the cases shows that the western part of the district was the most affected. A cohort of 141 cases was hospitalized at the infectious service level of Medea Hospital. They were 89 men and 52 women. The most common age reached is [20-44] years. The majority were of rural origin. Two serological reactions were performed for diagnosis: the buffered antigen test and Wright's serodiagnosis. Bovine brucellosis affects all age groups with different percentages, but the rate was higher in the 2-to-4-year age group, with a predominance of females. From these data, we conclude that brucellosis has a strong spread in the region studied.

Keywords : human brucellosis, serology, Medea, Algeria

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