Clinical and serological evaluation of Brucellosis in patients referring to Taleghani Health Center in Songhor city in 2007

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Background and aim: Brucellosis is a zoonotic disease which is endemic in Iran particularly in rural areas in which animal husbandry is current (such as Songhor city in Kermanshah province) and there are many reports of this illness every year. And knowing that serologic diagnosis of the disease with regard to the clinical symptoms is one of the valuable methods (in spite of its simplicity), so this study was performed for this purpose. Material and Methods: This research was performed on 505 patients who referred to Taleghani Health Center by cross sectional method. After taking case history, specimens were collected from patients and examined with Wright test and for positive cases, 2ME test was performed in order to determine whether the disease is acute or chronic and for determination of the class of antibodies. Results: From 505 patents, about 18% had positive Wright test (Titer ≥ 1/80; consisting of 66% male and 34% female) whom about 91% were from rural areas and 9% were city residents. 87.65 percent of the positive cases were in acute phase (high titer of IgM) and 12.35 percent were in chronic phase of the disease (high titer of IgG) through 2ME test. 10% of the positive cases (all were animal husbandmen) had experienced the disease in their family members or themselves. 95% of the positive cases complained of fever, sweating, backache, feet pain and malaise. Conclusion: The results of this research show that there is direct and closed relationship between the kind of job, life area (contact with domestic animals) and the incidence of disease; so if the disease is diagnosed rapidly and treated efficiently, we can prevent the disease from becoming chronic, relapsing and epidemic formation. Keywords: Brucellosis; Wright test; 2ME test; clinical symptoms. Keywords: ;Brucellosis;Wright test;2ME test; clinical symptoms.