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### Original Article

#### Detection of Brucella by Peripheral Blood PCR and Comparison with Culture and Serological Methods in Suspected Cases

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### Abstract:

**Background:** Brucellosis is a zoonotic disease and its symptoms and appearances are not exclusive in human and its traditional diagnosis is based on blood culture and serological methods. For more sensitive and specific detection, the PCR method is recommended.

**Methods:** One hundred four blood samples were gathered from suspicious patients with brucellosis different ages form Kermanshah, Mazandaran, Khorassan and Hormozgan provinces, and were examined by Rose Bengal, anti globulin, culture and PCR methods.

**Results:** Seventy three samples were positive by PCR method, 15 samples were positive by cultured method and 84 samples were positive by serological methods.

**Conclusion:** PCR method is sensitive and specific for diagnosis of *Brucella* from peripheral blood in suspected cases.

### Keywords:

*Brucella* , Culture and serological methods , PCR

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