

Neurobrucellosis: clinical, diagnostic, therapeutic features and outcome. Unusual clinical presentations in an endemic region

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ABSTRACT

Brucellosis is a zoonotic infection and has endemic characteristics. Neurobrucellosis is an uncommon complication of this infection. The aim of this study was to present unusual clinical manifestations and to discuss the management and outcome of a series of 18 neurobrucellosis cases. Initial clinical manifestations consist of *pseudotumor cerebri* in one case, white matter lesions and demyelinating syndrome in three cases, intracranial granuloma in one case, transverse myelitis in two cases, sagittal sinus thrombosis in one case, spinal arachnoiditis in one case, intracranial vasculitis in one case, in addition to meningitis in all cases. Eleven patients were male and seven were female. The most prevalent symptoms were headache (83%) and fever (44%). All patients were treated with rifampicin, doxycycline plus trimethoprim-sulfamethoxazole or ceftriaxone. Duration of treatment (varied 3-12 months) was determined on basis of the CSF response. In four patients presented with left mild sequelae including aphasia, hearing loss, hemiparesis. In conclusion, although mortality is rare in neurobrucellosis, its sequelae are significant. In neurobrucellosis various clinical and neuroradiologic signs and symptoms can be confused with other neurologic diseases. In inhabitants or visitors of endemic areas, neurobrucellosis should be kept in mind in cases that have unusual neurological manifestations.

Keywords: neurobrucellosis; serology; diagnosis; neuroimaging.

[Braz J Infect Dis 2011;15(4):332-39] © Elsevier Editora Ltda. **Open access under CC BY-NC-ND license.**

INTRODUCTION

Human brucellosis is a common infectious disease with 18,000 new cases per year in Turkey. It still remains a common problem in some parts of Turkey because of the consumption of contaminated milk or dairy products made from unpasteurized milk. Brucellosis seropositivity is 2.6-14.4% among Turkish people.¹

Brucellosis has a wide clinical polymorphism and almost every organ can be affected during the infection. This infection is primarily a reticuloendothelial system (RES) disease, and the most common site involved is the osteoarthicular. Additionally, hematologic system, central nervous system, cardiopulmonary system and genitourinary system can be involved to some extent.²⁻⁵

The incidence of neurological complications range between 0-25% in adult patients, it is rarely seen in children.^{1,2} Neurological complications are infrequent but have marked clinical importance for their severity and impor-

tant morbidity. *Brucella* bacteria may affect the nervous system directly or indirectly, as a result of cytokine or endotoxin on the neural tissue.⁶ Cytotoxic T lymphocytes and microglia activation play an immunopathologic role in this disease.⁷ Some immunological mechanisms operate to produce the demyelinating lesions in the cerebral and spinal cord white matter.

CNS involvement is generally in meningoencephalitis form.^{3,4,8} Development of basal meningitis may lead to lymphocytic pleocytosis, cranial nerve involvement or intracranial hypertension. In diagnosing brucellosis the bacteria isolation from serum and other specimens are the gold standard, but culture positivity may be less than 50% in many reports.^{3,4,9,10,11}

In neurobrucellosis imaging findings may be found in four types; normal, inflammation (abnormal enhancement), white matter changes, and vascular changes.¹² Concerning treatment of brucellosis, monotherapy can cause

Submitted on: 03/02/2010
Approved on: 09/28/2010

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We declare no conflict of interest.

Pdf Neurobrucellosis Clinical Diagnostic Therapeutic Features

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