

Accepted Manuscript

Medical and Surgical Treatment of Endemic Mycotic Spinal Osteomyelitis

Ryan C. Hofler, G.Alexander Jones

PII: S1878-8750(18)30369-3

DOI: [10.1016/j.wneu.2018.02.097](https://doi.org/10.1016/j.wneu.2018.02.097)

Reference: WNEU 7512

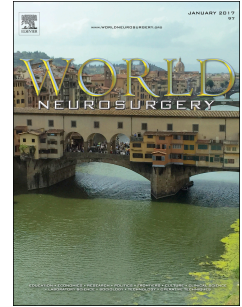
To appear in: *World Neurosurgery*

Received Date: 15 February 2018

Accepted Date: 16 February 2018

Please cite this article as: Hofler RC, Jones GA, Medical and Surgical Treatment of Endemic Mycotic Spinal Osteomyelitis, *World Neurosurgery* (2018), doi: 10.1016/j.wneu.2018.02.097.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Medical and Surgical Treatment of Endemic Mycotic Spinal Osteomyelitis

Ryan C. Hofler, G. Alexander Jones

Endemic mycoses in the United States – coccidioidomycosis, blastomycosis, and histoplasmosis – represent important causes of respiratory and disseminated illness which may be difficult to treat, particularly with spinal involvement. These infections are caused by *Coccidioides*, *Blastomyces*, and *Histoplasma* spp. and are acquired via inhalation of fungal spores. These thermally dimorphic fungi infect immunocompetent and immunocompromised individuals, often causing self-limited pneumonia, but may also lead to life-threatening disseminated disease^{1,2}. Most cases are sporadic and limited to regions of endemicity. Coccidioidomycosis is endemic to the southwestern United States. Blastomycosis is endemic to regions bordering the Ohio and Mississippi Rivers, the Great Lakes, and the Saint Lawrence River. Histoplasmosis is less geographically restricted than the others, but is endemic to the Ohio and Mississippi River valleys and the surrounding regions^{1,2,3}.

Dissemination of endemic mycoses is often associated with the immunocompromised state, however, may occur in immunocompetent patients as well. Severity of illness and mortality rate for these disseminated infections are significantly greater in patients who are immunocompromised^{4,5,6}. Septic osteomyelitis and discitis caused by dissemination of endemic mycoses are rare disorders, with limited literature available to guide diagnosis and medical and surgical treatment paradigms⁶. Dissemination of histoplasmosis, blastomycosis and coccidioidomycosis to the spine can lead to vertebral body destruction, with spread to the epidural space leading to neurologic compression. Destruction of the vertebrae leads to loss of

Download English Version:

<https://daneshyari.com/en/article/8691677>

Download Persian Version:

<https://daneshyari.com/article/8691677>

[Daneshyari.com](https://daneshyari.com)