Juniper

Jest to the Researchers

Perspective
Volume 2 Issue 4 - November 2017
D0I: 10.19080/JOJS.2019.02.555593

Theranostics Brain, Spine & Neural Disord

Copyright © All rights are reserved by Gabriel Lucca de Oliveira Salvador MD

Stroke in Tuberculosis: Some Untold Aspects in Children



Gabriel Lucca de Oliveira Salvador*

Internal Medicine Department, Federal University of Parana, Brazil

Submission: September 26, 2017; Published: November 20, 2017

*Corresponding author: Gabriel Lucca de Oliveira Salvador MD, Internal Medicine Department, Hospital de Clinicas, Federal University of Parana, Curitiba, Brazil, Tel: 5541998177732; Email: glucca11@gmail.com

Keywords: Stroke; HIV; Tuberculosis; Infection; Vertically transmitted HIV

Perspective

The infection in endemic regions of HIV/AIDS with Tuberculosis has increased the incidence of pulmonary tuberculosis with negative cultures and extra pulmonary aspects of this disease [1]. Besides the risk for primary or reactivation of tuberculosis is increased in these patients [2], intracerebral mass lesions of TB were more common in HIV-infected group, accounting for a significant amount of extra pulmonary patients [3,4].

Stroke was reported to be a complication of acquired immunodeficiency syndrome of HIV/AIDS [3]. In addition, stroke is an important clinical entity regard the etiology. Moreover, in cases of infection of TB the hazard ratio of ischemic stroke is about 50 percent times greater than the general population [5,6].

Stroke in tuberculosis, especially in tuberculosis meningitis occurs in 15-57% of patients. The role of inflammatory processes such as arthritis with damage of the blood brain barrier because of the activity of cytokines, which requires more studies to elucidate the development of these agents on stroke in TB patients [7].

Immune Reconstitution Inflammatory Syndrome (IRIS) could aid the development of stroke in patients with and receiving Antiretroviral Therapy. The most frequently reported IRIS symptoms in response to previously treated or partially treated infections include reports of clinical worsening and recurrence of clinical manifestations of Mycobacterium tuberculosis, possibly occasioned by a vacuities associated with the restoration of the immune system in patients starting HIV medication or with long periods without treatment [8].

Besides the presence of tuberculosis M, other opportunistic infections such as Cryptococosis, Herpes Simplex 1 and 2 infection, syphilis and toxoplasmosis increase the likelihood of episodes of stroke [9]. Reports of cases mainly describe adult patients with

typical presentation of meningitis with normal values of CSF and location of tuberculosis infection in the Central Nervous System, but a myriad of presentations (and even Stroke opening the case of HIV and Central Nervous System Tuberculosis) can occur and not be reported [9]. Therefore, tuberculosis should be considered possible cause of stroke in HIV-positive patients and treatment should start as soon as possible to avoid obscure consequences.

References

- Barnes PF, Bloch AB, Davidson PT, Snider DE (1991) Tuberculosis in patients with human immunodeficiency virus infection. N Engl J Med 324(23): 1644-1650.
- 2. Dube MP, Holtom PD, Larsen RA (1992) Tuberculosis meningitis in patients with and without human immunodeficiency virus infection. Am J Med 93(5): 520-524.
- 3. Moghtaderi A, Alavi Naini R (2012) Infective causes of stroke in tropical regions. Iran J Med Sci 37(3): 150-158.
- Sheu JJ, Chiou HY, Kang JH, Chen YH, Lin HC (2010) Tuberculosis and the risk of ischemic stroke: a 3-year follow-up study. Stroke 41(2): 244-249.
- Misra UK, Kalita J, Maurya PK (2011) Stroke in tuberculous meningitis. J Neurol Sci 303(1-2): 22-30.
- Benjamin LA, Bryer A, Emsley HC, Khoo S, Solomon T, et al. (2012) HIV infection and stroke: current perspectives and future directions. Lancet Neurol 11(10): 878-890.
- Rocha C, Gouvêa ATB, Machado D (2003) Neurological findings in a group of children and adolescents exposed and infected by HIV-1. Arq Neuropsiquiatr 61: 1015-1017.
- 8. Murdoch DM, Venter WD, Van Rie A, Feldman C (2007) Immune reconstitution inflammatory syndrome (IRIS): review of common infectious manifestations and treatment options. AIDS Res Ther 4: 9.
- Pasticci MB, Paciaroni M, Floridi P, Cecchini E, Baldelli F (2013) Stroke in a patient with tuberculous meningitis and HIV Infection. Mediterr J Hematol Infect Dis 5(1): e2013017.

Theranostics of Brain Disorders



This work is licensed under Creative Commons Attribution 4.0 Licens DOI: 10.19080/JOJS.2019.02.555593

Your next submission with Juniper Publishers will reach you the below assets

- Quality Editorial service
- Swift Peer Review
- Reprints availability
- E-prints Service
- · Manuscript Podcast for convenient understanding
- · Global attainment for your research
- Manuscript accessibility in different formats (Pdf, E-pub, Full Text, Audio)
- Unceasing customer service

Track the below URL for one-step submission https://juniperpublishers.com/online-submission.php