Correspondence

Subacute sclerosing panencephalitis and movement disorders

We read the manuscript entitled 'Subacute sclerosing panencephalitis (SSPE): An update"[1] with great interest. Saurabh et al.[1] had reviewed the literature about chronic encephalitis secondary to measles virus infection. They described the Jabbour staging, in which the affected individuals can have a subacute or gradual downhill clinical course. Herein, we would like to discuss the movement disorders encountered in SSPE. The abnormal movements associated with SSPE are in order of frequency, myoclonus, dystonia, parkinsonism, chorea, repetitive behaviours, ballism, ataxia, athetosis and paroxysmal (Table 1). In necropsy studies, it was observed demyelination, extensive perivascular inflammation, glial proliferation and neuronal/glial intranuclear inclusions.^[1] In classical SSPE myoclonus, dystonia and parkinsonism, chorea, repetitive behaviours and ballism have been reported. [2] On the other hand, ataxia, athetosis and paroxysmal movements were rarely described. It is noteworthy that athetosis alone was not reported and not all paroxysmal movement disorders were already described in association with SSPE. A study^[3] assessed the spectrum of repetitive behaviours in six individuals diagnosed with SSPE. They observed that repetitive motor behaviours more commonly affect upper limbs. Furthermore, the repetitive movements found were clapping, finger-clicking, hand rubbing, flailing and dystonic posturing. Interestingly, vocalisations were observed and included palilalia, whistling, grunting with spitting and pathological crying.[3] The clinical presentation of SSPE may vary and the diagnosis is frequently challenging. In a case report^[4] from Turkey of a young adult male, it was reported the spectrum of epileptic phenomena associated with SSPE. In this context, tonic seizures are rare and

Table 1: Movement disorders associated with subacute sclerosing panencephalitis

Classical
myoclonus
Dystonia
Parkinsonism
Common
chorea
Repetitive behaviours
Ballism
Rare
ataxia
Athetosis

Paroxysmal

may be easily misdiagnosed as functional movement disorders in adult individuals due to gait unsteadiness, slurred speech and apathy. High-income countries have seen a significant decline in SSPE cases in the last decades, whereas the incidence is still high in Asia, especially India and the Middle East region. In a study^[5] of the clinical spectrum of movement disorders in neurology inpatients in an Indian tertiary care centre, the authors reported that SSPE represents 5.7% of the movement disorders in neurology inpatients. This may suggest that advances in the prevention and management of SSPE are not being sufficiently effective and significant changes should be done in the health system. The case of an 18-year-old female presenting with rapid-onset dystonia and parkinsonism who later developed myoclonus has been reported. [6] this case documented the rare occurrence of rapid-onset dystonia-parkinsonism since the most common causes are drug toxicities, metabolic abnormalities, Wilson's disease and abnormal movements associated with anti-neuronal antibodies. [5] However, this association in all the four stages of SSPE as a combination of myoclonus, parkinsonism and dystonia related or not with behavioural changes and cognitive decline has been reported. [2]

Financial support and sponsorship Nil.

Conflicts of interest

There are no conflicts of interest.

Jamir Pitton Rissardo, Ana Letícia Fornari Caprara

Department of Medicine, Federal University of Santa Maria, Santa

Maria, RS, Brazil

Address for correspondence: Dr Jamir Pitton Rissardo, Av. Roraima, 1000 - Camobi, Santa Maria, RS, Brazil. E-mail: jamirrissardo@gmail.com

Submitted: 11-Feb-2022 Accepted: 22-Feb-2022 Published: 14-Apr-2022

REFERENCES

- Saurabh K, Singh VK, Pathak A, Chaurasia RN. Subacute sclerosing pan encephalitis: An update. J Clin Sci Res 2021;10:35-42.
- Jabbour J, Duenas D, Modlin J. SSPE-clinical staging, course, and frequency. Arch Neurol 1975;32:493-4.

Correspondence

- Pandey S, Shukla T, Mishra A. The spectrum of repetitive behaviors associated with subacute sclerosing panencephalitis. Mov Disord 2021;36:497-503.
- Yagcioglu Yassa O, Kenangil G, Yalcin AD. Adult-onset subacute sclerosing panencephalitis presenting with tonic motor seizures. Int J Neurosci 2021;131:914-8.
- Paul SA, Mondal GP, Bhattacharyya R, Ghosh KC, Das S, Das S, et al. Clinical spectrum of movement disorders in neurology inpatients in a tertiary care centre. J Neurosci Rural Pract 2021;12:581-5.
- Reddy RB, Joshi D, Kumar A. Subacute sclerosing panencephalitis with an atypical presentation. Ann Indian Acad Neurol 2021;24:946-7.

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

Access this article online	
Quick Response Code:	Website:
	www.jcsr.co.in
	DOI: 10.4103/jcsr.jcsr_30_22

How to cite this article: Rissardo JP, Caprara AL. Subacute sclerosing panencephalitis and movement disorders. J Clin Sci Res 2022;11:121-2.

© 2022 Journal of Clinical and Scientific Research | Published by Wolters Kluwer – Medknow for Sri Venkateswara Institute of Medical Sciences, Tirupati