ECRONICON OPEN ACCESS

EC NEUROLOGY
Clinical Images

Putaminal Arc Signal as a Neuroradiological Clue to Multiple System Atrophy with Predominant Parkinsonism. A Case Report

Joseph Bruno Bidin Brooks[1]*, Fábio César Prosdócimi[1], Rodrigo André Oliveira[2] and Guilherme Lopes da Silveira[2]

[1]*Department of Structure and Function, UNIMES- Universidade Metropolitana de Santos, Santos, Brazil*

[2]*Clínica MegaImagem, Santos, São Paulo, Brazil*

***Corresponding Author:** Joseph Bruno Bidin Brooks, Department of Structure and Function, UNIMES- Universidade Metropolitana de Santos, Santos, Brazil.

Received: November 21, 2019; **Published:** December 31, 2019

Keywords: *Putaminal Arc; Multiple System Atrophy; Case Report*

Multiple System Atrophy with predominant parkinsonism (MSA-p) is a rare neurodegenerative disease characterized by parkinsonism, autonomic dysfunction, predominating in the urogenital, respiratory, and cardiovascular systems [1-4]. The report of this case was submitted and approved by the ethics committee of Universidade Metropolitana de Santos. The present case refers to 66 year-old caucasian male with a 3-year history of progressive stiffness, postural instability and postural hypotension. Neurological examination revealed bradykinesia, stiffness, progressive gait instability and postural hypotension. Cranial magnetic resonance imaging (MRI) showed the presence of marginal hypersignal in a putaminal arc (Figure 1). Laboratory and cerebrospinal fluid examination showed results within the normal range. Symptomatic treatment was instituted with partial improvement of symptoms. This case report alerts to the possibility of MSA-p in the differential diagnosis of patients with progressive parkinsonism and autonomic dysfunction. Attention to this clinical-radiologic correlation may help physicians make correct diagnoses and appropriate treatment.

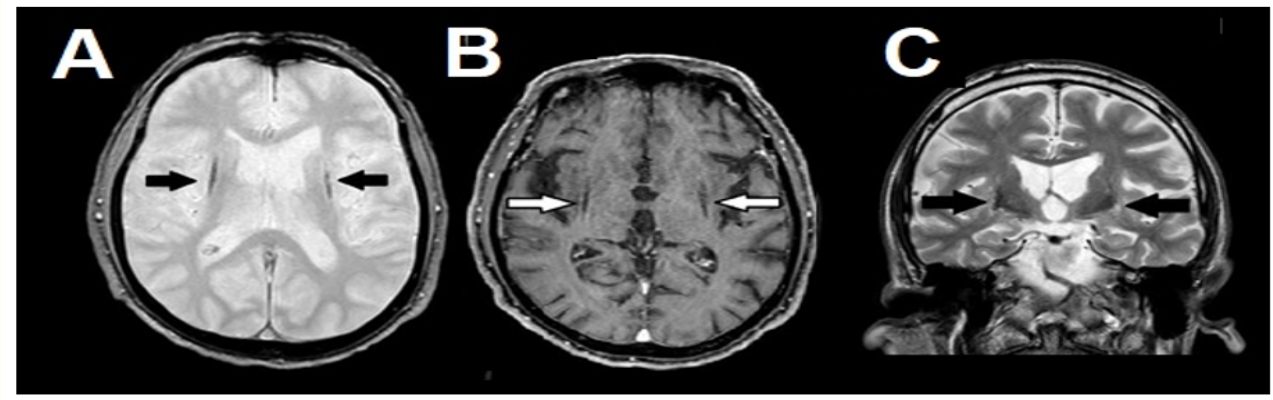

Figure 1: *A- Echo T2 Axial MRI; B- T1 Axial MRI and C- T2 Coronal MRI- Reduced putaminal volume with hyposignal arc (iron deposition) (A and C- black arrow; B- white arrow).*

Bibliography

1. Albuquerque AV., *et al*. "Clinical-radiological correlation. Report of two cases". *Arquivos de Neuro-Psiquiatria* 65 (2007): 512-515.

2. Seppi K., *et al*. "How to diagnose MSA early: the role of magnetic resonance imaging". *Journal of Neural Transmission* 112 (2005): 1625-1634.

3. Asato R., *et al*. "Magnetic resonance imaging distinguishes progressive supranuclear palsy from multiple system atrophy". *Journal of Neural Transmission* 107 (2000): 1427-1436.

4. Gilman S., *et al*. "Consensus statement on the diagnosis of multiple system atrophy". *Clinical Autonomic Research* 8 (1998): 359-362.

Volume 12 Issue 1 January 2020