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

Joseph Bruno Bidin Brooks1*, Fábio César Prosdócimi1, Rodrigo André Oliveira2 and Guilherme Lopes da Silveira2

1Department of Structure and Function, UNIMES- Universidade Metropolitana de Santos, Santos, Brazil
2Clínica Megaimagem, Santos, São Paulo, Brazil

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

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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


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