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INTRODUCTION

Developmental venous anomalies, also referred to as cerebral venous angiomas, are common slow-flow venous malformations of cerebral veins. While the majority of DVAs are benign, a subset may manifest symptoms, giving rise to a spectrum of pathologies and distinctive radiological presentations. The term Symptomatic DVA encompasses a broad spectrum of complications associated with developmental venous anomalies. DVAs exhibit considerable variability in size, location, and architecture. Furthermore, the clinical manifestations in individuals with DVAs are diverse, often resembling symptoms associated with other prevalent pathologies.

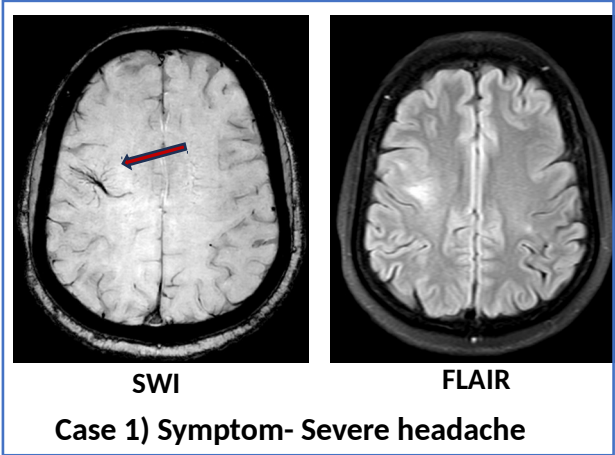
AIMS / OBJECTIVES

The primary objective of this investigation is to tackle diagnostic uncertainties, ultimately contributing to improved and timely patient outcomes. As most DVAs are asymptomatic, this investigation looked at radiological features of symptomatic patients which were found to have DVAs with associated parenchymal changes.

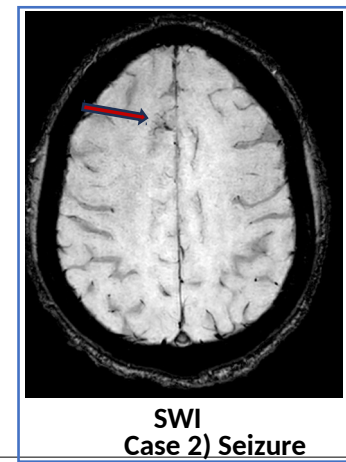
MATERIALS / METHODS

Our retrospective case series scrutinized seven patients exhibiting a range of clinical features. We utilized state-of-the-art imaging tools, such as magnetic resonance imaging (MRI) and computed tomography (CT), to meticulously characterize the lesions. Selected cases underwent digital subtraction angiography to confirm the findings from the aforementioned imaging modalities.

RESULTS & DISCUSSION



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“Medusa head”

They presented with varied complaints like severe headache, loss of consciousness, and seizures. MRI was performed for all cases. Susceptibility weighted imaging (SWI) was the preferred sequence as it well demonstrated low-velocity venous blood. The radial complex of medullary veins, resembling a “Medusa head” converging into a collector vein, was characteristically seen.

CONCLUSION

Given that symptomatic DVAs often present with diverse and non-specific clinical features, diagnosing and establishing the association of DVA as the underlying cause of these features will facilitate prompt and appropriate management.