



## A 37-Year-Old Woman Presented with Sudden Left-Sided Limbs Involuntary Movements

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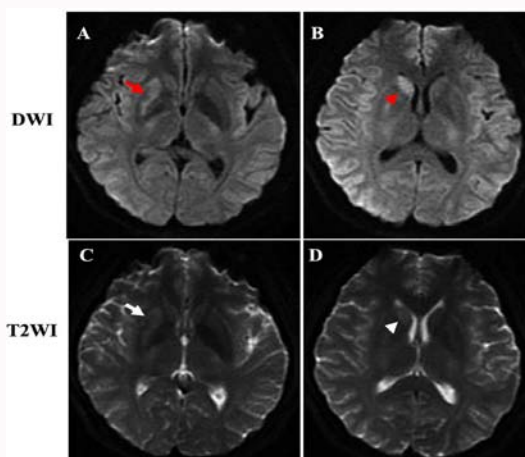
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### Keywords

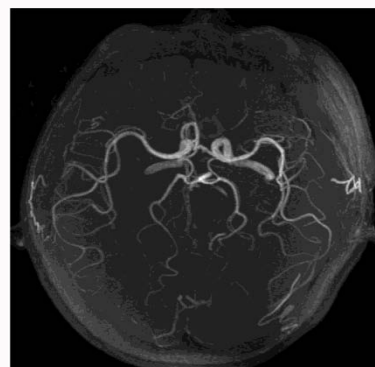
Involuntary movements; Streptolysin-O; Sydenham's chorea; Penicillin

### Clinical Image

A 37-year-old woman with a history of hypertension presented with left-sided limbs involuntary movements. Neurologic examination was unremarkable. Brain MRI revealed signal hyperintensities in the right putamen (Figure 1A and 1C), the right caudate nucleus (Figure 1B and 1D). Electrocardiogram, neck ultrasound, and MRA of the brain are normal (Figure 2). Initial laboratory studies were unremarkable, except anti streptolysin-O (ASO) was positive at 351 U/ml (normal range 0-200 U/ml), serum IgG 16.9 g/L (normal range 7-16 g/L), antinuclear antibodies(ANA) titre 1:160 (normal range <1:100). Sydenham's chorea [1,2] was diagnosed, and intravenous antibiotic



**Figure 1:** A brain diffusion-weighted image revealed signal hyperintensities in the right putamen (A, red arrow), the right caudate nucleus (B, red arrowhead). Brain MRI revealed abnormal signal hyperintensities on T2-weighted images in right putamen (C, white arrow), the right caudate nucleus (D, white arrowhead).



**Figure 2:** MRA of the brain.

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treatment was started with penicillin. She was discharged without left-sided involuntary movements.

## References

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