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**Citation 1.**

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**Title**

Cerebellar infarction in adolescent males associated with acute marijuana use.

**Source**

Pediatrics. 113(4):e365-70, 2004 Apr.

**Abstract**

**OBJECTIVE:** To demonstrate the clinical characteristics, radiologic findings, and neuropathological features of tetrahydrocannabinol-related posterior fossa ischemic stroke in adolescent patients. **DESIGN:** A retrospective case and chart review of 3 cases encountered at a tertiary care institution over a span of 5 years. **SETTING:** Inpatient and intensive care hospitalization units managing children and adolescents. **SUBJECTS:** Male adolescent patients with ischemic cerebellar stroke after use of marijuana. **DIAGNOSTIC INVESTIGATIONS:** Computed tomography brain scans (3 subjects), magnetic resonance imaging brain study (1 subject), cerebral arteriography (1 subject), cerebellar biopsy (1 subject), and necropsy (2 subjects). **RESULTS:** Three adolescent males had similar presentations of headache, fluctuating level of consciousness or lethargy, visual disturbance, and variable ataxia after self-administration of marijuana. They developed primary cerebellar infarctions within days after the exposure that could not be attributed to supratentorial herniation syndromes and only minimally involved brainstem structures. **CONCLUSIONS:** Episodic marijuana use may represent a risk factor for stroke in childhood, particularly in the posterior circulation. Early recognition of the cerebellar stroke syndrome may allow prompt neurosurgical intervention, reducing morbidity.

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