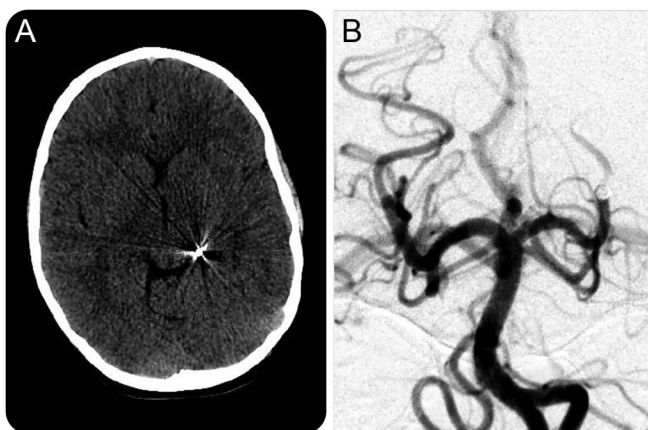


# Ischemic stroke after pellet embolization



Figure Imaging



(A) Noncontrast head CT shows a pellet in the left ambient cistern. (B) Catheter-based angiogram shows the pellet in the left posterior cerebral artery with distal flow.

A 9-year-old boy was shot with a pellet shotgun and developed a visual field deficit. Head CT revealed a pellet in the left ambient cistern, in the left posterior cerebral artery on catheter angiography (figure). Chest fluoroscopy revealed multiple thoracic pellets, including a mobile cardiac pellet (video on the *Neurology*<sup>®</sup> Web site at [Neurology.org](http://Neurology.org)). There was no clear cardiac injury, patent foramen ovale, or skull penetration. Arterial embolization of a pellet from the chest to the intracranial vasculature likely caused a stroke.<sup>1,2</sup> We considered arteriotomy, endovascular retrieval, and medical therapy. The established infarct, clinical stability, and flow distal to the pellet argued for conservative treatment; the visual field deficit was unchanged at 1-month follow-up visit.

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## Supplemental data at [Neurology.org](http://Neurology.org)

1. Stein M, Mirvis SE, Wiles CE. Delayed embolization of a shotgun pellet from the chest to the middle cerebral artery. *J Trauma* 1995;39:1006–1009.
2. da Costa LB, Wallace MC, Montanera W. Shotgun pellet embolization to the posterior cerebral circulation. *AJNR Am J Neuroradiol* 2006;27:261–263.

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