

Intraprocedural hemorrhage

Intracranial aneurysm rupture during **embolization** with detachable **coils** is reportedly among the gravest of intraprocedural **complications**.

From April 1998 to March 2005, 284 patients with **cerebral aneurysms** were treated with detachable coils. Intraprocedural aneurysm rupture occurred in ten patients with a history of a previously **ruptured aneurysm**. In the **event** of **intraprocedural hemorrhage**, we routinely performed **heparin** reversal with **protamine sulfate**.

Of the 221 patients with a previously ruptured aneurysm, intraprocedural aneurysm rupture occurred in 10 (4.5%). These ruptures were caused by a micro-guide wire in one patient, a microcatheter in one, over-packing in two and a coil perforation in three. In the remaining three patients the ruptures were caused by both the microcatheter and the coils. Three patients died because of aneurysm re-rupture, yielding a mortality rate of 30%. One patient presented with a slight disability in the left leg and no neurological deficits were observed in the remaining six patients.

Intraprocedural aneurysm rupture during embolization is a rare, but unavoidable and life-threatening event. Proper measures should be taken to reduce and improve the outcome of this tragic occurrence. The majority of patients with an intraprocedural ruptured aneurysm can survive without severe sequelae if managed appropriately ¹⁾.

¹⁾
Li MH, Gao BL, Fang C, Cheng YS, Li YD, Wang J, Xu GP. Prevention and management of intraprocedural rupture of intracranial aneurysm with detachable coils during embolization. *Neuroradiology*. 2006 Dec;48(12):907-15. Epub 2006 Sep 27. PubMed PMID: 17004083.

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