

Aneurysm Recanalization Stratification Scale

With the increasing use of [endovascular techniques](#) in the treatment of both [ruptured intracranial aneurysm](#) and [unruptured intracranial aneurysms](#), the issue of Recanalized [intracranial aneurysm](#) efficacy has become increasingly important.

[Christopher S. Ogilvy](#) et al. retrospectively reviewed medical records that were prospectively collected for 305 patients who received endovascular treatment for [intracranial aneurysms](#) from 2007 to 2013. Multivariable [logistic regression](#) was performed on candidate predictors identified by univariable screening analysis to detect independent predictors of retreatment. A composite risk score was constructed based on the proportional contribution of independent predictors in the multivariable model.

Size (>10 mm), aneurysm rupture, stent assistance, and posttreatment degree of aneurysm occlusion were independently associated with retreatment, whereas intraluminal thrombosis and flow diversion demonstrated a trend toward retreatment.

The Aneurysm Recanalization Stratification Scale was constructed by assigning the following weights to statistically and clinically significant predictors:

aneurysm-specific factors:

size (>10 mm), 2 points;

Rupture, 2 points;

Presence of thrombus, 2 points.

Treatment-related factors were stent assistance, 1 point;

flow diversion, 2 points;

[Raymond-Roy occlusion classification](#) occlusion class 2, 1 point;

Raymond-Roy occlusion class 3, 2 points.

This scale demonstrated good discrimination with a C-statistic of 0.799.

Surgical decision-making and patient-centered informed consent require comprehensive and accessible information on treatment efficacy. We constructed the Aneurysm Recanalization Stratification Scale to enhance this decision-making process. This is the first comprehensive model that has been developed to quantitatively predict the risk of retreatment after [endovascular therapy](#) ¹⁾
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Ogilvy CS, Chua MH, Fusco MR, Reddy AS, Thomas AJ. Stratification of recanalization for patients with endovascular treatment of intracranial aneurysms. *Neurosurgery*. 2015 Apr;76(4):390-5. doi: 10.1227/NEU.0000000000000651. PubMed PMID: 25621984.

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Ogilvy CS, Chua MH, Fusco MR, Griessenauer CJ, Harrigan MR, Sonig A, Siddiqui AH, Levy EI, Snyder K, Avery M, Mitha A, Shores J, Hoh BL, Thomas AJ. Validation of a System to Predict Recanalization After Endovascular Treatment of Intracranial Aneurysms. *Neurosurgery*. 2015 Apr 4. [Epub ahead of print]

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