

Rosuvastatin

Rosuvastatin is a potent [statin](#).

Biochemical, histopathological, ultrastructural analysis and functional tests revealed that rosuvastatin exhibits meaningful [neuroprotection](#) effects against [spinal cord injury](#) ¹⁾.

Rosuvastatin pretreatment ameliorates early [brain injury](#) (EBI) after a [subarachnoid hemorrhage](#) (SAH) through the attenuation of [oxidative stress](#) and [nuclear factor-kappa B](#) (NF-κB) mediated [inflammation](#) ²⁾.

Both topical application and systemic administration of ROS show meaningful preventive effects over epidural fibrosis through multiple mechanisms. The results of a study provide the first experimental evidence of the preventive effects of ROS over [epidural fibrosis](#) ³⁾

Rosuvastatin promoted endothelialization of the coiled [aneurysm neck](#) via induction of [endothelial progenitor cells](#) (EPCs), suggesting that promoting endothelialization provides an additional therapeutic opportunity during vascular endothelium repair ⁴⁾

1)

Kahveci R, Gökçe EC, Gürer B, Gökçe A, Kisa U, Cemil DB, Sargon MF, Kahveci FO, Aksoy N, Erdoğan B. Neuroprotective effects of rosuvastatin against traumatic spinal cord injury in rats. Eur J Pharmacol. 2014 Oct 15;741:45-54. doi: 10.1016/j.ejphar.2014.07.042. Epub 2014 Jul 29. PubMed PMID: 25084223.

2)

Uekawa K, Hasegawa Y, Ma M, Nakagawa T, Katayama T, Sueta D, Toyama K, Kataoka K, Koibuchi N, Kawano T, Kuratsu J, Kim-Mitsuyama S. Rosuvastatin ameliorates early brain injury after subarachnoid hemorrhage via suppression of superoxide formation and nuclear factor-kappa B activation in rats. J Stroke Cerebrovasc Dis. 2014 Jul;23(6):1429-39. doi: 10.1016/j.jstrokecerebrovasdis.2013.12.004. Epub 2014 Feb 12. PubMed PMID: 24529602.

3)

Gürer B, Kahveci R, Gökçe EC, Ozevren H, Turkoglu E, Gökçe A. Evaluation of topical application and systemic administration of rosuvastatin in preventing epidural fibrosis in rats. Spine J. 2015 Mar 1;15(3):522-9. doi: 10.1016/j.spinee.2014.10.018. Epub 2014 Oct 22. PubMed PMID: 25452015.

4)

Liu P, An Q, Chen X, Huang J, Yang GY, Zhu W. Rosuvastatin for enhancement of aneurysm neck endothelialization after coil embolization: promotion of endothelial progenitor cells in a rodent model. J Neurosurg. 2015 Sep 25:1-10. [Epub ahead of print] PubMed PMID: 26406802.

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