



POSTER

## An off-road cause of right eye hypovision

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### Abstract

**Introduction:** Despite being a rare cause of stroke, cervical artery dissection (CAD) is an important cause of stroke accounting for 20% of strokes in young patients.

**Case Report:** A 46-year-old man, owner of a gymnasium, with no pathological history and no usual medication, except sporadic protein supplements, presented to the emergency department with suddenly blurred vision and hypovision of his right eye. He denied recent physical activity, headache, neck pain or trauma but he performed some off-road tracks the day before. On examination he was hemodynamically stable with lower left nasal quadrant of the right eye hypovision in monocular confrontation. Brain CT had no acute lesions. The angio-CT revealed a marked but gradual reduction of the endoluminal filling immediately after the carotid bulb, with complete absence of filling from the proximal half of the cervical segment of the artery to

the communicating segment. He started antiplatelet therapy with favourable progression. On the third day after admission he performed cerebral MRI and angio-RM that confirmed dissection of the right internal carotid artery, from the post-bulbar region to the proximal cervical segment, with no flow signal and contrast filling upstream to the ophthalmic segment, and no visualization of the proximal portion of the right ophthalmic artery. It was not possible to identify the unequivocal cause for the carotid dissection. The only possible cause identified was the off-road tracks. At discharge he still had left nasal quadrant hypovision of the right eye.

**Conclusion:** In this case stands out the severe and extensive carotid lesion whose only symptom was hypovision of the lower left nasal quadrant of the right eye, without parenchymal lesion on MRI.

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