Carotid artery dissection plus subdural hematoma after a roller-coaster ride

Dissecção arterial carotídea e hematoma subdural após passeio em montanha-russa

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A 31-year-old woman with history of antiphospholipid syndrome treated with warfarin reported two days after a roller-coaster ride, sudden onset of paresthesias in the right side of the face and in the right hand, followed by headache. Neuroimaging results are shown in Figures 1 and 2.

The “blood/fluid level” represented by the interface between plasma and sedimentoed blood (Figure 1) can be seen in hemor- rhages related to bleeding disorders, among other causes. We suspect that the sudden head and neck movements during the roller-coaster ride contributed to the remarkably unusual combination of subdural hematoma and carotid artery dissection (Figure 2) in this patient.

Figure 1. (A) Initial head CT shows subdural hematomas in the left temporal region (arrowhead) and in the left tentorium (arrow), where a blood-fluid level can be observed; (B) Follow-up brain MR: axial FLAIR; and (C) SWI and sagittal postcontrast T1-weighted images demonstrate more clearly the same findings, the blood-fluid level (arrows in B to D) and the temporal subdural hematoma (arrowheads, B and C).

Figure 2. Digital subtraction angiography, oblique view, shows dissection of the proximal left internal carotid artery (arrow). There is an intimal flap and a patent false lumen.

Reference


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