'Grand Theft Artery': Hemodynamics in Innominate Artery Stenosis

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A 66-year-old woman presented with fluctuating left-sided sensorimotor deficit. Initial CT showed no cerebral infarction, but extra- and intracranial duplex sonography revealed high-grade innominate artery stenosis with extensive steal phenomenon in the right vertebral (VA) and internal carotid artery (ICA) as well as in the middle cerebral artery (MCA) as the cause of the symptoms (online suppl. video 1; for all supplementary material, see www.karger.com/doi/10.1159/000324917). Intracranial compensation was achieved by cross-flow through the AcoA. An arm compression ischemia test aggravated the hemo-

dynamic situation but did not provoke new symptoms (online suppl. video 2). After stenting the stenosis, the ICA, MCA and ACA (anterior cerebral artery) regained normal flow. The now orthograde right VA showed persistent early systolic deceleration (online suppl. video 3).

Disclosure Statement

No conflict of interest is reported by the authors.