A 42-year-old man presented with acute ataxia resulting from an embolic stroke without classic vascular risk factors but revealing a hitherto clinically asymptomatic aorto-ventricular tunnel, which is defined by a hereditary connection between the ascending aorta and one of the ventricles (figure). We postulate that blood turbulences around the tortuous tunnel with a stenotic component and low flow areas caused cardiogenic cerebral emboli. Although no specific guidelines exist, we consider a surgical treatment approach as applied before by Nezafati and colleagues as reasonable in the presence of ongoing, multifocal ischemic events.

F.A. Wollenweber, MD, K. Brehmer, MD, E. Mühler, MD, C.J. Werner, MD, R. Hoffmann, MD, J.B. Schulz, MD, A. Reich, MD, Aachen, Germany

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Address correspondence and reprint requests to Dr. med. Frank Arne Wollenweber, Department of Neurology, RWTH Aachen University, 52074 Aachen, Germany; fwollenweber@gmx.de

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