Inverse fly-through technique in ultrasound imaging of carotid stenosis

Figure Intravessel view of carotid bifurcation

Arrow indicates moderate internal carotid artery stenosis.

A 58-year-old man presented for re-evaluation of an asymptomatic right-sided carotid stenosis. Besides conventional ultrasound techniques, we could confirm a moderate right internal carotid artery stenosis by the innovative inverse fly-through technique (figure). Regular checkups were initiated.

There is growing evidence that 3D ultrasound may provide new possibilities for evaluating carotid disease.¹ With our technique, it is possible to view a carotid stenosis from all imaginable directions (video on the *Neurology*® Web site at www.neurology.org) and to provide patients with an easy-to-grasp presentation of their carotid stenosis. However, the reliability, validity, and clinical usefulness of the technique will require further study.

Hagen Kunte, MD, Ralph-Ingo Rückert, MD, PhD, Charlotte Schmidt, MS, Lutz Harms, MD, Maria Grigoryev, MD, Thomas Fischer, MD, Berlin, Germany

From the Department of Neurology (H.K., C.S., L.H.), Institute of Radiology (M.G., T.F.), Charité-Universitätsmedizin Berlin; Department of Surgery (R.I.R.), Franziskus-Krankenhaus, Berlin, Germany.

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Correspondence to Dr. Kunte: hagen.kunte@charite.de

Supplemental data at
www.neurology.org

Supplemental Data

1. Makris GC, Lavid A, Griffin M, Geroulakos G, Nicolaides AN. Three-dimensional ultrasound imaging for the evaluation of carotid atherosclerosis. *Atherosclerosis* 2011;219:377–383.

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