

- 19 Chen JM, Li Y, Xu J, Gong L, Wang LW, Liu WL, et al. Computer-aided prognosis on breast cancer with hematoxylin and eosin histopathology images: a review. *Tumour Biol* 2017;39:1010428317694550.
- 20 Calvaruso V, Burroughs AK, Standish R, Manousou P, Grillo F, Leandro G, et al. Computer-assisted image analysis of liver collagen: relationship to ishak scoring and hepatic venous pressure gradient. *Hepatology* 2009;49:1236–44.
- 21 Yegin EG, Yegin K, Ozdogan OC. Digital image analysis in liver fibrosis: basic requirements and clinical implementation. *Biotechnol Biotechnol Equip* 2016;30:653–60.
- 22 Vrijenhoek JE, Nelissen BG, Velema E, Vons K, de Vries JP, Eijkemans MJ, et al. High reproducibility of histological characterization by whole virtual slide quantification; an example using carotid plaque specimens. *PLoS One* 2014;9:1–16.

Eur J Vasc Endovasc Surg (2019) 58, 663

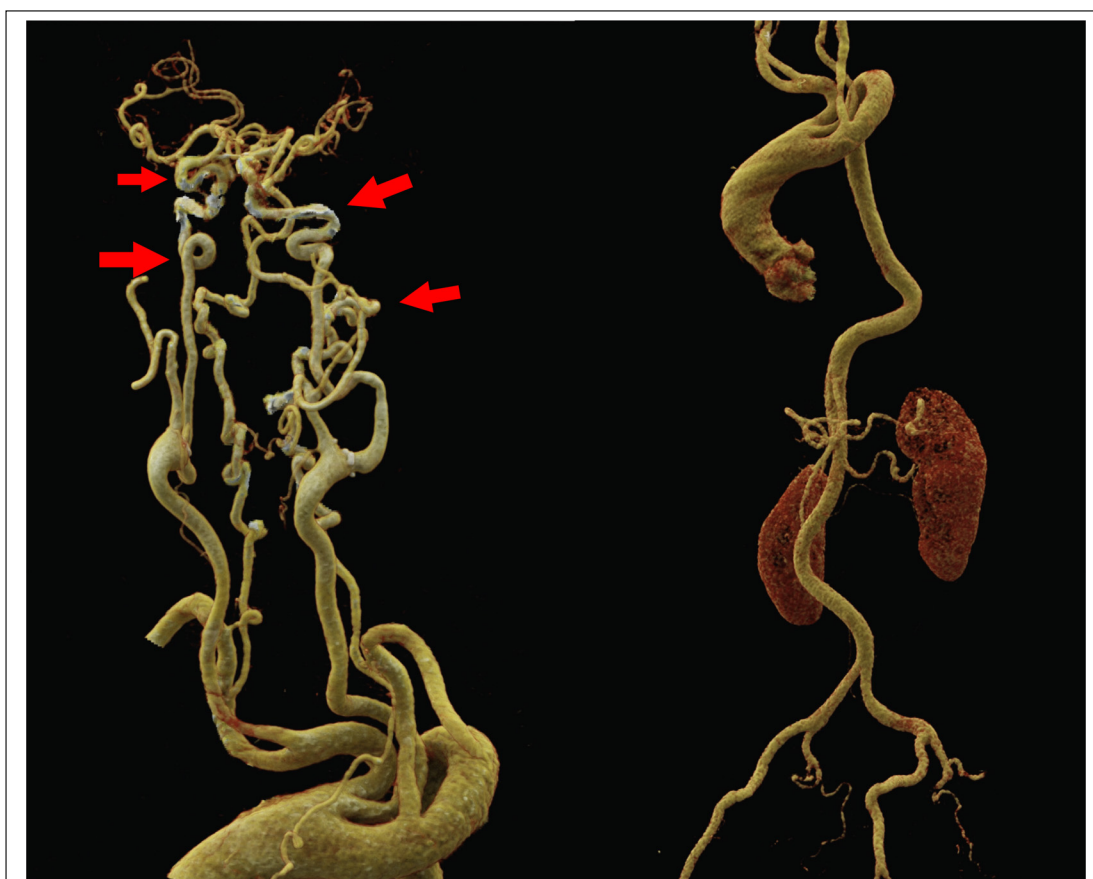
COUP D'OEIL

A Rare Case of Arterial Tortuosity Syndrome

Gabriele Pagliariccio ^{a,*}, Marco Macchini ^b

^a Department of Vascular Surgery, Azienda Ospedali Riuniti Ancona, Ancona, Italy

^b Department of Interventional Radiology, Azienda Ospedali Riuniti Ancona, Ancona, Italy



A 60 year old woman presented with widespread joint pain and ligament laxity. She had previously undergone lumbar hernia repair. A previous diagnosis of arterial tortuosity syndrome was confirmed by molecular genetic testing for a homozygotic mutation in *SLC2A10*. Duplex ultrasound showed multiple atherosclerotic carotid plaques without significant stenosis. Computed tomography angiography revealed unusual, widespread vessel tortuosity, particularly in the supra-aortic area, with multiple kinking/coiling (arrows). No surgical procedures were undertaken given the absence of symptoms and the diffuse nature of the vascular tortuosity. The patient remains under clinical and radiological surveillance, as these patients can also present with aortic aneurysms.

* Corresponding author. Department of Vascular Surgery, Azienda Ospedali Riuniti Ancona, Via Conca 71, Ancona 60127, Italy.

E-mail address: Gabriele.pagliariccio@gmail.com (Gabriele Pagliariccio).

1078-5884/© 2019 European Society for Vascular Surgery. Published by Elsevier B.V. All rights reserved.

<https://doi.org/10.1016/j.ejvs.2019.07.028>