Adjusting treatment to pulmonary vein rare anatomic variants: a box lesion for the ablation of atrial fibrillation in a patient with an atypical common inferior trunk

Rui Providência*, Stéphane Combes, and Jean-Paul Albenque

Département de Rythmologie, Clinique Pasteur, 45 avenue de Lombez, BP 27617, 31076 Toulouse Cedex 3, France
* Corresponding author. Tel: +33 5 62 21 16 45; fax: +33 5 62 21 16 41. Email: rui_providencia@yahoo.com

The presence of a common inferior trunk of pulmonary veins (PVs) is a rare anatomical variant that may pose difficulties in catheter ablation of atrial fibrillation.

Panels A–D are computed tomography scan images edited on a CARTO-3® console illustrating the presence of a common inferior PV arising on the posterior wall and a novel treatment approach: a box lesion encircling the four PVs. The Smart-Touch® catheter was used (contact force levels >10 g can be seen all along the radiofrequency line). Isolation of the four PVs was possible without the need of complementary radiofrequency applications and the patient remains asymptomatic 3 months later.

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