


Images in Electrophysiology

Multiple monomorphic VTs from diverticulum in RVOT

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A 71-year-old woman was referred to hospital for catheter ablation of ventricular tachycardia (VT) (Panel A). Based on the results of electrocardiogram and magnetic resonance imaging, the diagnosis of arrhythmogenic right ventricular (RV) disease was considered to be very unlikely. Cardiac computed tomography scan indicated a congenital diverticulum of the right ventricular outflow tract (RVOT) (Panel B). Ventriculography of the RV showed a small and long vessel-like diverticulum in the RVOT (Panels C and D). Other three morphological VTs were induced and successfully ablated at different sites in the diverticulum (Panel E). The local potentials were prior to onset of QRS from 32 to 37 ms (Panel F). A diverticulum at RVOT is rare; therefore, four different types of monomorphic VT originating from it are more rare. However, of 91 patients with RVOT-VT from 2010 to 2012 in our centre, we found 4 similar cases.