The two most common supraventricular tachycardias are typical (slow-fast) atrioventricular nodal reentrant tachycardia (AVNRT) and orthodromic atrioventricular reentrant tachycardia (AVRT) using accessory pathway (AP). Nowadays, a leading method in the treatment of supraventricular reentrant tachycardias is radio-frequent (RF) catheter ablation during the electrophysiological (EP) study.

We report the case of a 46-year old woman on whom an EP study was performed due to the presence of paroxysmal supraventricular tachycardia documented in 12-lead ECG. During the EP study, at baseline, supraventricular tachycardia was induced very easily and it corresponded to orthodromic AVRT (frequency of 190-200/min) using concealed, left lateral AP (PPI - TCL = 100 ms; VAV pattern, preceding positive for AP). However, during the study, AVRT spontaneously converted to the typical slow-fast AVNRT (frequency 150/min) using the slow AV node pathway (PPI - TCL >150 ms; VA < 30 ms; preceding negative for AP; jump noted at programmed pacing (500+280 ms) from right atrium as well as echo beat). During the EP study, a slow pathway was localized and then ablated using the RF catheter ablation. By performing the transseptal puncture of the interatrial septum, the left lateral wall AP was also successfully localized and then ablated using the RF catheter ablation. The patient remained asymptomatic for more than 6 months after the successful ablation procedures.

To the authors’ best knowledge, the coexistence of AVRT and AVNRT is not reported in the literature.

KEYWORDS: accessory pathway, slow pathway, atrioventricular reentrant tachycardia, atrioventricular nodal reentrant tachycardia, catheter ablation.

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Literature