The Characteristics of the Electrograms at the Site of AF Termination by Ganglionated Plexi Ablation

Yuichiro Sakamoto, Kohei Yamashiro, Mitsuru Takami, Koyo Satoh, Takahiko Suzuki
Cardiovascular medicine, Toyohashi Heart Center, Toyohashi, Japan

AF termination was often occurred during ganglionated plexi (GP) ablation. The purpose of this study was to characterize the electrograms at the site of AF termination by GP ablation. **Method:** Eighteen patients with AF termination by GP ablation were studied. In case of patients with sinus rhythm, AF was induced by rapid atrial pacing. The sites where vagal response was evoked by high-frequency stimulation were determined as GP sites and ablated. The bipolar electrograms were recorded in a 4.5-s window before the RF delivery. **Result:** AF termination was seen at superior left GP ablation in 3 patients, anterior right in 2 patients, inferior left in 6 patients, and inferior right (in 7 patients). Continuous electrical activity (CEA) was seen at the termination site in 16 (89%) patients. Other 2 patients without CEA, cycle length was 207±18ms. The maximum duration of CEA was 1.8±0.3 of 4.5sec. There were 2 patients with only CEA at the termination sites during all recording period. The maximum amplitude of CEA in 16 patients was 0.58±0.99mV. **Conclusion:** The electrograms at the sites of AF termination by GP ablation show mainly transient CEA with relatively low voltage. **Keywords:** ganglionated plexi, CFAE