

Left-sided approach of AV junction ablation for drug refractory atrial fibrillation

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Abstrak

Ablasi A V junction terbukti efektif pada pasien atrial flbrilasi (AF) yang refrakter dengan isolasi vena pulmonalis inaupun antiaritmia. Akan tetapi pada hampir 15% kasus ablasi AV junction dengan teknik konvensional (sisi-kanan) gagal. Penelitian ini berinjuan mempelajari karakteristik potensial berkas His pada ablasi AV junction secara konvensional inaupun dengan teknik sisi-kiri. Dua puluh pasien AF yang simtomatik dan refrakter terhadap antiaritmia (rerata umur $60,5 \pm 9,28$ tahun, 11 wanita) dilakukan ablasi AV junction dengan teknik konvensional. Bila 10 kali aplikasi energi frekuensi-radio tidak dapat menyebabkan blok A V total, maka ablasi dilakukan melalui sisi-kiri. Amplitud berkas His yang terekam pada tempat ablasi dianalisa. Seluruh pasien berhasil diablasi, 17 dengan cam konvensional dan 3 pasien degan teknik sisi-kiri setelah teknik konvensional gagal. Amplitud berkas His pada sisi-kiri lebih besar daripada sisi-kanan yang berkesesuaian ($16,0 \pm 4,99$ mm vs. $6,9 \pm 4,02$ mm, $p = 0,001$, 95% IK -14,0 to -4,3). Dengan nilai titikpotong amplitude berkas His sisi-kanan $> 4,87$ mm didapatkan sensitifitas 81.3% dan spesiftitas 53,8% untuk keberhasilan ablasi pada sisi yang bersangkutan. Teknik sisi-kiri pada ablasi AV junction efektif bila teknik konvensional gagal. Pada pasien dengan amplitud berkas His sisi-kanan yang rendah ($< 4,87$ mm) dianjurkan untuk ablasi dengan teknik sisi-kiri untuk menghindari pemberian energi frekuensi-radio yang tidak perlu. (MedJ Indones 2006; 15:109-14)

<hr><i>AV junction ablation has been proven effective to treat symptomatic atrial fibrillation refractory to antiarrhythmias or fail of pulmonary vein isolation. However, about 15% of conventional right-sided approach AV junction ablation failed to produce complete heart block. This study aimed to characterize His bundle potential at ablation site during conventional or left-sided approach of AV junction ablation. Twenty symptomatic AF patient (age of 60.5 ± 9.28 and 11 are females) underwent conventional AV junction ablation. If 10 applications of radiofrequency energy are failed, then the ablation was performed by left-sided approach. Seventeen patients are successfully ablated by conventional approach. In 3 patients, conventional was failed but successfully ablated bv left-sided approach. The His bundle amplitude at ablation site was significantly larger in left-sided than correspondence right-sided (16.0 ± 4.99 mm vs. 6.9 ± 4.02 mm respectively, $p = 0.001$, 95% CI -14.0 to -4.3). ROC analysis of His bundle potential amplitude recorded from right-sided revealed that cut off point of > 4.87 mm given the sensitivity of 81.3% and specificity of 53.8% for successful right-sided approach of AV junction ablation. In case of failed conventional approach, the left-sided approach is effective for AV junction ablation. An early switch to the left-sided approach may avoid multiple RF applications in patients with a low amplitude His-bundle potential (< 4.87 mm). (MedJIndones 2006; 15:109-14)</i>