The feasibility of cryofreezing ablation for atrioventricular nodal reentrant tachycardia (single center experience)

Kei Yamamoto
Jun Hirokami
Junji Morita
Masato Fukunaga
Michio Nagashima
Kenichi Hiroshima
Kenji Ando

Introduction: The atrioventricular nodal slow pathway ablation has been already established as the treatment for atrioventricular nodal reentrant tachycardia (AVNRT). However the large volume data of efficacy of cryoablation for AVNRT has not been clear. Therefore, we reported single center experience of catheter ablation using cryoablation catheter (Freezer Extra, Medtronic®, Minnesota, USA) for common AVNRT.

Methods: A total of 74 patients with common AVNRT underwent catheter ablation using cryoablation catheter. The endpoint of procedure was defined as A-H jump without one echo beat and that was obtained in all 74 patients.

Result: The rate of complete elimination of the slow pathway conduction was 64%, AH jump without an echo beat was 0%, and AH jump with a single echo beat was 36%. During a mean follow-up of 550±307 days, freedom from recurrence was 2.7 % (2 patients). No patients had any permanent atrioventricular block.

Conclusion: The clinical result of catheter ablation for AVNRT using cryofreezing catheter was feasible.