

좌상대정맥개존증을 동반한 방실결절 회귀성 빈맥의 전극도자절제술 2예

박 기 락 · 배 장 호

Radiofrequency Catheter Ablation of Atrioventricular Nodal Reentrant Tachycardia in Two Patients with Persistent Left Superior Vena Cava

Ki-Rack Park, MD and Jang-Ho Bae, MD

Division of Cardiology, Department of Internal Medicine, College of Medicine, Konyang University,
Daejeon, Korea

ABSTRACT

We report two cases of radiofrequency catheter ablation (RFCA) with atrioventricular nodal reentrant tachycardia (AVNRT) in patients associated with persistent left superior vena cava (PLSVC). AVNRT with PLSVC differs in terms of catheter positioning and location of slow AV nodal pathway as compared with AVNRT alone. In our two patients, a coronary sinus electrode catheter was easily introduced through the PLSVC and directly into the coronary sinus. Successful RFCA was performed with the energy delivery at the bed of the proximal portion of the markedly enlarged coronary sinus without any complications in the two patients. (Korean Circulation J 2002;32(4):355-358)

KEY WORDS : Tachycardia, atrioventricular nodal reentry ; Vena cava, superior.

서 론

가

1)

가

2)

2

가 ,

: 2001 12 3

: 2002 1 7

: , 302 - 241 가 685

증 례

: (042) 600 - 6925 · : (042) 545 - 0910
E - mail : jhbae@kyuh.co.kr

: (A, 49), (B, 38).

:
 :
 A : 10
 , 10 2
 가 jump가
 . 1 가 가
 , 1
 B : 6
 , A 가
 , 가 :
 :
 :
 :
 X-
 A 158
 / , P 가 QRS
 . B 207 /
 , P 가 가 QRS
 (A 76%, B 67%),
 : 64 - ch -
 annel CardioLab 4.1 system(Prucka Engineering
 Inc., Sugar Land, Texas) Bloom DTU 215B pr-
 ogrammable stimulators(Bloom electrophysiology
 Fischer imaging C., Denver, Colorado)
 (Daig, Co., Minnetonka, Minnesota)
 , His ,
 가
 (Fig. 1).

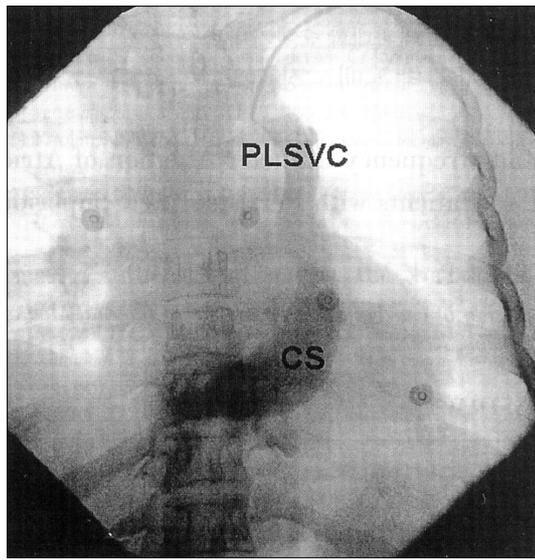


Fig. 1. Anteroposterior view. PLSVC connected with CS is seen during dye injection via left subclavian vein. CS : coronary sinus, PLSVC : persistent left superior vena cava.

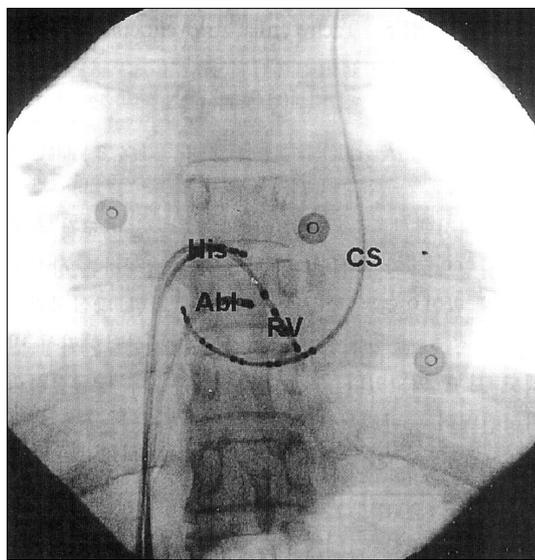


Fig. 2. Catheter positioning in the anteroposterior view. Note the CS catheter which was inserted to the CS through the PLSVC. CS : coronary sinus catheter, RV : right ventricular catheter, His : His catheter, Abl : ablation catheter, PLSVC : persistent left superior vena cava.

경과 및 치료

Atakr® RF power generator (Medtronic Inc., Minneapolis, Minnesota)

(4 mm tip 7F Livewire TC steerable ablation catheter, Daig Co., Minnetonka, Minnesota)

Koch's triangle 70 가

(Fig. 2), 가 A 2, B 3 (junctional rhythm) 90 가 jump 가

고 찰

2 4%

3)

His

가

가

4)

5) Okishige 6) 가

Koch's triangle

가

Okishige 6)

Doig 7)

Okishige 6)

가

고 찰

요 약

2

중심 단어 :

REFERENCES

- 1) Lonnqvist PA, Olsson GL. *Persistent left superior vena cava: an usual location of central venous catheters in children. Intensive Care Med* 1991;17:497-500.
- 2) Ma CS, Hu D, Fang Q, Shang LH, Wang LF, Belz MK, Wood MA. *Catheter ablation of left-sided accessory pathway with left superior vena cava. Am Heart J* 1995;130:613-5.
- 3) Sinder AR, Ports TA, Silverman NH. *Venous anomalies*

- of the coronary sinus: detection by M-mode, two-dimensional and contrast echocardiography. Circulation 1979; 60:721-7.*
- 4) Moulton K, Miller B, Scott J, Woods WT Jr. *Radiofrequency catheter ablation for AV nodal reentry: a technique for rapid transection of the slow AV nodal pathway. Pacing Clin Electrophysiol 1993;16:760-8.*
 - 5) Chiou CW, Chen SA, Chiang CE, Wu TJ, Tai CT, Lee SH, Cheng CC, Ueng KC, Chen CY, Wang SP. *Radiofrequency catheter ablation of paroxysmal supraventricular tachycardia in patients with congenital heart disease. Int J Cardiol 1995;50:143-51.*
 - 6) Okishige K, Fisher JD, Goseki Y, Azegami K, Satoh T, Ohira H, Yamashita K, Satake S. *Radiofrequency catheter ablation for AV nodal reentrant tachycardia associated with persistent left superior vena cava. Pacing Clin Electrophysiol 1997;20:2213-8.*
 - 7) Doig JC, Saito J, Harris L, Downar E. *Coronary sinus morphology in patients with atrioventricular junctional reentry tachycardia and other supraventricular tachyarrhythmias. Circulation 1995;92:436-41.*