

## 중심정맥관 시술중 발생한 J-tip 유도관의 심장내 구속 1예

영남대학교 병원 내과학교실 신장내과

정요한 · 강석희 · 윤경우 · 도준영 · 박종원 · 조규향 · 박정민 · 김산옥 · 김영희 · 신계림 · 김은영

### J-tip Guide Wire Entrapment within the Heart during Central Venous Catheterization

Yo Han Jeong, Seok Hui Kang, Kyung Woo Yoon, Jun Young Do, Jong Won Park, Kyu Hyang Cho  
Jung Min Park, San Ok Kim, Young Hee Kim, Kei Lim Shin, Eun Young Kim

Division of Nephrology, Department of Internal Medicine, Yeungnam University Hospital

A 55-year-old female was hospitalized for melena. The patient was suspected of having uremia symptoms. Use of a tunneled cuffed hemodialysis catheter of the right internal jugular vein was planned. At one point, the wire could not be extracted or advanced. In addition, whenever the guide wire was manipulated, ventricular premature rhythms developed. Fluoroscopy revealed knotting of the guide wire in the right ventricle. A 7 French guiding catheter was inserted along the guide wire, which loosened the knotting of the guide wire. The present case shows that entrapment within the heart can develop due to use of a J-tip guide wire. If a guide wire cannot be removed despite several attempts with gentle pressure, this event should be ruled out by fluoroscopy and chest X-ray. Using of straight or curved guide wire and real-time surveillance using fluoroscopy or electrocardiography may be important to prevent this complication.

**Key Words:** 구속, 중심정맥관 삽입술, 유도관

Entrapment, Central venous catheterization, Guide wire