PICTURES IN CLINICAL MEDICINE

A Leadless Pacemaker Which Became Encapsulated Only Two Months after Placement

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Key words: Leadless pacemaker, Autopsy

An 88-year-old female, with a history of hepatocyte carcinoma, repeated syncope, and electrocardiograms showed a complete atrioventricular-block. Due to her age and frailty, a leadless pacemaker (LP; Micra, Medtronic) was implanted in the septum of her right ventricle (RV). Chest radiographs

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Received: February 22, 2018; Accepted: March 8, 2018; Advance Publication by J-STAGE: May 18, 2018

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and electrocardiograms showed stable adhesion and performance of the LP (Picture 1A and B). However, two months after the implantation, she suddenly died of hepatocyte carcinoma.

At autopsy, the anchors of the LP were found to completely invade the trabeculae (Picture 2), and its body was partially covered with a thick capsule (measuring around 2 mm in size) (Picture 3), which firmly adhered to the LP and the RV.

Although previous reports have described the adhesion of LPs to RV (1), this is the first report to show such features of LP only two months after placement. Despite such a short time period, the LP showed thick encapsulation and stable adhesion, which would support recent reports on its stable performance (2).

The authors state that they have no Conflict of Interest (COI).

Acknowledgments
We are grateful to the clinical members in the Department of Cardiovascular Medicine, Gastrointestinal Medicine and Pathology at Yamagata Prefectural Central Hospital for their valuable technical assistance.

References

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