



ELSEVIER

Contents lists available at ScienceDirect

Journal of Arrhythmia

journal homepage: www.elsevier.com/locate/joa

Letter to Editor

Kaya et al. Is it a typical crosstalk: Need for re-implantation?

Mohammad Ali Akbarzadeh, MD^{a,b,*}^a Cardiovascular Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran^b Cardiology Department, Shahid Modarres Hospital, Tehran, Iran

ARTICLE INFO

Article history:

Received 21 April 2015

Accepted 27 April 2015

Available online 16 June 2015

I have read with attention the case report by Kaya et al. entitled "Is it a typical crosstalk: Need for re-implantation?" [1] The authors described atrial lead malfunction in a patient with a dual-chamber pacemaker. The right atrial lead tip was in close proximity to the tricuspid valve, but was it located in the ventricle or atrium? Pacing of the ventricle and the low sensitivity for detection of atrial activation suggest that the tip is located in the ventricle with far-field atrial activity sensation.

Changing the pacemaker mode to VDD is a good approach in cases of normal sinus node function and loss of atrial lead capture, especially if atrial sensing is stable. In this case, Short AV delay is a good way to reduce the risk of R on T phenomenon which is theoretically possible if a ventricular ectopy is sensed by the atrial lead before the ventricular lead, which may cause inappropriate ventricular spiking after programmed AV delay. But as an AV delay optimization improves hemodynamics and clinical parameters in patients treated with a dual-chamber-pacemaker, if this short AV delay causes atrioventricular dyssynchrony, with a stable P-wave

sensation by atrial lead, a DDD mode with an active ventricular safety pacing may be a better option for this case. [2] It should be noted that ventricular safety pacing is not an option when the device is operating with VDD mode.

Lastly, if P-wave sensing is not stable and the patient still has dyspnea at follow-up, atrial lead replacement should be considered.

Conflict of interests

The author has no conflict of interest to declare.

References

- [1] Kaya Z, Kursat Akbuga, Alpay Aribas, et al. Is it a typical crosstalk: need for re-implantation? J Arrhythmia 2014. <http://dx.doi.org/10.1016/j.joa.2014.07.004>.
- [2] Krychtiuk KA, Nürnberg M, Volker R, et al. Effects of AV-delay optimization on hemodynamic parameters in patients with VDD pacemakers. Wien Klin Wochenschr 2014;126(9-10):270-7.

* Correspondence to: Cardiovascular Research Center, Shahid Modarres Hospital, Saadat Abad Street, PO Box: 199873438, Tehran, Iran. Tel.: +98 9173171001.

E-mail address: akbarzadehali@yahoo.com

<http://dx.doi.org/10.1016/j.joa.2015.04.009>

1880-4276/© 2015 Japanese Heart Rhythm Society. Published by Elsevier B.V. All rights reserved.