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# ERRATUM

## Pacing on the T Wave: PAVB, Not PVAB

### *To the Editor:*

In the “Focus on ECGs” section of the February 2016 issue, Gahremanpour and colleagues described an interesting case of pacing on the T wave.<sup>1</sup> We completely agree that it was not a sensing issue with the pacemaker and that answer “C” was appropriate. However, in the answer section, the authors described the premature ventricular contraction (PVC) as falling in the post-ventricular atrial blanking period (PVAB). The PVAB is the interval after a sensed or paced ventricular event, during which any atrial activity is not seen by the pacemaker.<sup>2,3</sup> In the authors’ presented case, there was an atrial pacing stimulus right at the time of the PVC. Therefore, the PVC fell in the post-atrial ventricular blanking period (PAVB) and not in the PVAB.<sup>3</sup>

The PAVB is the interval after an atrial pacing stimulus during which the ventricular event is not seen by the ventricular channel of the pacemaker.<sup>4</sup> In this case, the pacemaker was not inhibited, and there was subsequent ventricular pacing on the T wave. In that the myocardium was in the refractory period because of the PVC, the V-pacing on the T wave led to physiologic failure to capture, and there was no QRS complex following that V-pacing stimulus.

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## References

1. Gahremanpour A, Birnbaum Y, Holt TA, Saeed M. Pacing on the T wave: what is the cause? *Tex Heart Inst J* 2016;43(1):94-5.
2. Cross-chamber blanking periods in ICDs and CRT-Ds. Available from: [http://www.bostonscientific.com/content/dam/bostonscientific/quality/education-resources/english/ACL\\_Cross-Chamber\\_Blanking\\_20081219.pdf](http://www.bostonscientific.com/content/dam/bostonscientific/quality/education-resources/english/ACL_Cross-Chamber_Blanking_20081219.pdf) [cited 2016 Feb 4].
3. Hayes D, Levine P. Pacemaker timing cycles. Available from: [https://www.blackwellpublishing.com/content/BPL/Images/Content\\_store/Sample\\_chapter/9781405104470/Ellenbogen9781405104470.pdf](https://www.blackwellpublishing.com/content/BPL/Images/Content_store/Sample_chapter/9781405104470/Ellenbogen9781405104470.pdf) [cited 2016 Feb 4].
4. Abuissa H. A pseudo-pseudofusion beat preceding onset of ventricular tachycardia in a patient with an implantable cardioverter defibrillator. *J Innov Cardiac Rhythm Manage* 2013 May;4:1242-5.