A case of left ventricular endocardial pacing in cardiac resynchronization therapy with interventricular septum puncture

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Abstract
This report demonstrates the feasibility of left ventricular endocardial pacing in CRT with interventricular septum puncture. A patient with dilated cardiomyopathy and typical left bundle branch block (LBBB) was admitted for implanting cardiac resynchronization therapy (CRT). However, the absence of the orifice was found through retrograde coronary venography imaging in surgery. Meanwhile the patient and his family members refused implantation of left ventricular epicardial electrode through thoracotomy, so a novel CRT with interventricular septum puncture for left ventricular endocardial pacing was carried out. The surgery was smoothly accomplished and the effect of CRT is great. The procedures and related considerations will be detailed as follows.
Keywords: cardiac resynchronization therapy, endocardial pacing, interventricular septum puncture

Case Report