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

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**Introduction**: 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.

**Methods**: interventricular septum puncture

**Result**: 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.

**Conclusion**: This report demonstrates the feasibility of left ventricular endocardial pacing in CRT with interventricular septum puncture.