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**Manuscript Type:** CASE REPORT

**Left bundle branch pacing with optimization of cardiac resynchronization treatment: A case report**

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BACKGROUND

## Match Overview



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## Painful Left Bundle Branch Block Syndrome Successfully ...

<https://casereports.onlinejacc.org/content/early/2020/02/23/j.jaccas.2019.11.081> ▾

Mar 04, 2020 · Key Words. cardiac pacemaker; chest pain; cardiac resynchronization therapy; Chest pain attributed to **left bundle branch block (LBBB)** in the absence of ischemia is a rare clinical entity with less than 60 cases reported ().The exact mechanism is unclear, but the hypothesis of LBBB-mediated dyssynchrony and alteration of activation wavefront in the ventricles resulting in nonspecific symptoms ...

Author: Aatish Garg, Vivak Master, Kenneth A... Publish Year: 2020

## A Patient with Left Bundle Branch Block and Persistent ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5804315>

Feb 02, 2018 · **Left bundle branch block (LBBB)** is associated with **atrial fibrillation (AF)** and **systolic heart failure**, which can be treated with **cardiac resynchronization therapy (CRT)** that includes an **implantable cardiac device (ICD)**.

Author: Hideyuki Hasebe Publish Year: 2018

## Programming Cardiac Resynchronization Therapy for ...

<https://www.ahajournals.org/doi/10.1161/JAHA.117.007489>

Cardiac resynchronization therapy programming should be included as an additional step following selection of patients with **left bundle branch block** and **optimization of LV lead delivery**. **Electrical optimization** requires attention to **paced effects**.

Cited by: 16 Author: Niraj Varma, David O'Donnell, Mohammed...

Publish Year: 2018

## His-bundle Pacing to Left Bundle Branch Pacing: Evolution ...

[www.innovationsincrm.com/cardiac-rhythm-management/](http://www.innovationsincrm.com/cardiac-rhythm-management/) ▾

Introduction

Case Presentation

Discussion

References

His-bundle pacing (HBP) is an excellent physiologic alternative to right ventricular (RV) pacing in patients requiring ventricular pacing. HBP has been shown to be associated with a significant reduction in the combined endpoint of mortality, heart failure hospitalization, and upgrade to biventricular pacing in comparison with RV pacing in patients with bradycardia and indications for permanent pacemakers.<sup>1,2</sup> Based on a systematic review of the available published literature on physiologic pa...



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### [PDF] [Left bundle branch area pacing delivery of cardiac ...](#)

<https://onlinelibrary.wiley.com/doi/epdf/10.1002/ehf2.12731>

**Cardiac resynchronization therapy (CRT)** is an established **treatment** for patients with reduced **left ventricular ejection fraction (LVEF)** and complete **left bundle branch block (LBBB)** by utilizing **biventricular pacing (BVP)**. However, approximately 30% of patients do not respond to BVP.<sup>1</sup> **His-bundle pacing (HBP)** is a method of **pacing** that can maintain

### [Left Bundle Branch Conduction ... - JACC: Case Reports](#)

<https://casereports.onlinejacc.org/content/1/4/592> ▼

Dec 01, 2019 · **cardiac resynchronization therapy. systolic heart failure.** Left bundle branch pacing (LBBP) has recently been proposed to treat left bundle branch block (LBBB) by bypassing the **blocked conduction region** ( 1, 2 ). With a low capture threshold, LBBP can correct LBBB and generate a narrow **electrocardiogram (ECG) QRS duration** and fast **left ventricular activation** ( 1–3 ).

**Author:** Weiwei Zhang, Weiwei Zhang, Jingjua... **Publish Year:** 2019

### [Left bundle branch area pacing delivery of cardiac ...](#)

<https://onlinelibrary.wiley.com/doi/full/10.1002/ehf2.12731>

May 13, 2020 · **Left bundle branch area pacing (LBBAP)** has emerged as an alternative choice to HBP by **pacing the left bundle branch (LBB)** region beyond the block site with a stable threshold and narrow QRS duration (QRSd) in patients with bradycardia. 9, 10 Huang et al . first demonstrated that LBBAP could achieve complete correction of **LBBB** and improved **cardiac function** in patients with LBBB ...

**Author:** Xiaofei Li, Chunguang Qiu, Ruiqin Xie... **Publish Year:** 2020

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**Author:** Xiaofei Li, Chunguang Qiu, Ruiqin Xie... **Publish Year:** 2020

[Left Bundle Branch Block | JACC: Heart Failure](#)

<https://heartfailure.onlinejacc.org/content/4/11/904> ▾

Nov 01, 2016 · The recent history of **cardiac resynchronization therapy (CRT)** mirrors our increasing understanding of the correctable harm induced by **left bundle branch block (LBBB)**. In 2009, Adelstein and Saba [(1)] reported single-center outcomes that demonstrated **CRT** to be efficacious primarily in those with **Left Bundle Branch Block | JACC: Heart Failure**

**Cited by:** 3

**Author:** Edward Sze, James P. Daubert

**Publish Year:** 2016