Episodes 1 and 2: Taking the Lead

Recorded in front of a live audience in New Orleans, Louisiana
Sunday, May 21, 2023
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Episode 1

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Episode 2
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Disclosures—Hosts

Jason T. Jacobson, MD, FHRS
• Research: Abbott, Philips
• Stock Ownership: Atlas 5D
• Speaking and Teaching, Honoraria: American College of Cardiology, Zoll Medical Corporation

Danesh Kella, MBBS, FHRS
• Nothing to disclose.
Disclosures—Contributors

Pierre Jais, MD
• Stock Options, Privately Held: Farapulse

Rajeev Kumar Pathak, MBBS, PhD, FHRS
• Nothing to disclose.

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Roderick Tung, MD, FHRS
• Honoraria, Speaking and Consulting: Abbott, AtriCure, Biontrik, Boston Scientific, Medtronik
Episode 1: A Discussion of Left Bundle Branch Versus Biventricular Pacing…

Article for Discussion: Left Bundle Branch Versus Biventricular Pacing as the Initial Implant Strategy for Cardiac Resynchronization Therapy

Heart Rhythm 2023 Abstract Authors: Juan Carlos Diaz, MD; a William H. Sauer MD, FHRS; Mauricio Duque, MD, FHRS; a 5 Bruce A. Koplan, MD, MPH, FHRS; b Eric D. Braunstein, MD; c Jorge Eduardo Marín, 6 MD; d Julian Aristizabal, MD; d Cesar Daniel Niño, MD; e Oriana Bastidas, MD; a Juan 7 Manuel Martinez, MD; d Carolina Hoyos, MD; b Carlos D. Matos, MD; b Nestor Lopez8 Cabanillas, MD; f Nathaniel A. Steiger, MD; b Sunil Kapur, MD; b Thomas M. Tadros, 9 MD; b David T. Martin, MD; b Paul C. Zei, MD, PhD, FHRS; b Usha B. Tedrow, MD, MS, 10 FHRS; b Jorge E. Romero MD, FHRS
Left Bundle Branch Area Pacing Versus Biventricular Pacing as the Initial Implant Strategy for Cardiac Resynchronization Therapy - Results from the SYNCHRONY Collaborative Group
Hosts

• Dr. Danesh Kella – Cardiac Electrophysiologist Mayo Clinic Jacksonville, FL.

• Dr. Jason Jacobson Director, Complex Arrhythmia Ablation Program is a provider at Westchester Medical Center, Valhalla NY.
Guests

• Prof. Roderick Tung serves as the division chief of Cardiology and director of Cardiovascular Clinical Research at the University of Arizona College of Medicine and Banner University Medical Center Phoenix.

• Prof. Rajeev Pathak lead of cardiac electrophysiology at The Canberra Hospital, Australia.
Synopsis

**Objective:** Left bundle Area Pacing vs. Biventricular pacing as an initial strategy in patients requiring CRT (LBBB EF ≤ 35% or RV pacing > 40%)

**Methods:** Prospective multicenter non-randomized registry

*Primary end-point:* Composite (HF hospitalization and all-cause mortality)

**Results:**

<table>
<thead>
<tr>
<th></th>
<th>Total n=371</th>
<th>LBBAP n=128</th>
<th>BiVP n=243</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procedural Success</td>
<td>108 (84.4%)</td>
<td>230 (94.7%)</td>
<td>&lt;0.01</td>
<td></td>
</tr>
<tr>
<td>Primary Endpoint</td>
<td>n=31 (24.2%)</td>
<td>n=103 (42.4%)</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td>HF –hospitalizations</td>
<td>n=28 (22.6%)</td>
<td>n=96 (39.5%)</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td>Fluoroscopy Time (mins)</td>
<td>12</td>
<td>21.7</td>
<td>&lt;0.001</td>
<td></td>
</tr>
<tr>
<td>Procedural Time (mins)</td>
<td>95</td>
<td>129</td>
<td>&lt;0.001</td>
<td></td>
</tr>
<tr>
<td>QRS duration (ms)</td>
<td>123.7</td>
<td>149.3</td>
<td>&lt;0.001</td>
<td></td>
</tr>
<tr>
<td>Long-term complications</td>
<td>12 (9.4%)</td>
<td>37 (15.2%)</td>
<td>0.146</td>
<td></td>
</tr>
</tbody>
</table>

**Conclusion:** LBBAP may be used as an initial implant strategy for CRT
Thank you!