





Interventional cardiology in a complex patient – a case report

 **Matko Spicijarić**^{1,2*},
 **David Gobić**^{1,2},
 **Sandro Brusich**^{1,2},
 **Vjekoslav Tomulić**^{1,2}

¹University Hospital Centre Rijeka, Rijeka, Croatia

²University of Rijeka, Faculty of Medicine, Rijeka, Croatia

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***ADDRESS FOR CORRESPONDENCE:** Matko Spicijarić, Klinički bolnički centar Rijeka, Tome Stržižića 3, HR-51000 Rijeka, Croatia. / Phone: +385918990341 / E-mail: matko.spicijaric@gmail.com

ORCID: Matko Spicijarić, <https://orcid.org/0000-0002-0117-1835> • David Gobić, <https://orcid.org/0000-0001-9406-1127> Sandro Brusich, <https://orcid.org/0000-0001-7394-6698> • Vjekoslav Tomulić, <https://orcid.org/0000-0002-3749-5559>

Introduction: Transcatheter aortic valve implantation (TAVI) is the optimal solution for many patients but requires procedure planning and prediction of possible complications. Sometimes, a permanent pacemaker must be implanted during or after the procedure. Therefore, preoperative implantation is indicated in high-risk patients, especially if other indications are also present¹.

Case report: 80-year-old patient came to the Emergency Department of University Hospital Centre Rijeka due to difficulty breathing and exercise intolerance. Acute heart failure was diagnosed with the bifascicular block and intermittent second-degree atrioventricular block Mobitz type I (**Figure 1**). Earlier documentation and a two-week discharge letter from another institution have shown numerous percutaneous interventions of all coronary arteries, as well as peripheral arterial disease and severe aortic stenosis with the low flow-low gradient phenomenon. Left ventricular ejection fraction (LVEF) was 37%. The last coronarography two weeks ago showed significant stenosis of the ostium of the left anterior descending artery (LAD - 70%) with tubular stenosis of the left main trunk (LM - 50%) and stenosis of the circumflex artery ostium (LCx - 50 - 60%). Instantaneous wave-free ratio (iFR) suggested hemodynamically insignificant stenosis of LCx ostium (0.93). In the same act, percutaneous coronary intervention (PCI) of the middle LCx was performed due to subocclusive stenosis. The patient's case should have been presented to the Heart team, but he was urgently hospitalized. A device for cardiac resynchronization therapy (CRT-P) was implanted, and subsequent hospitalization was arranged in six days for coronarography and TAVI procedures. At the beginning of the procedure, a calcified 90%

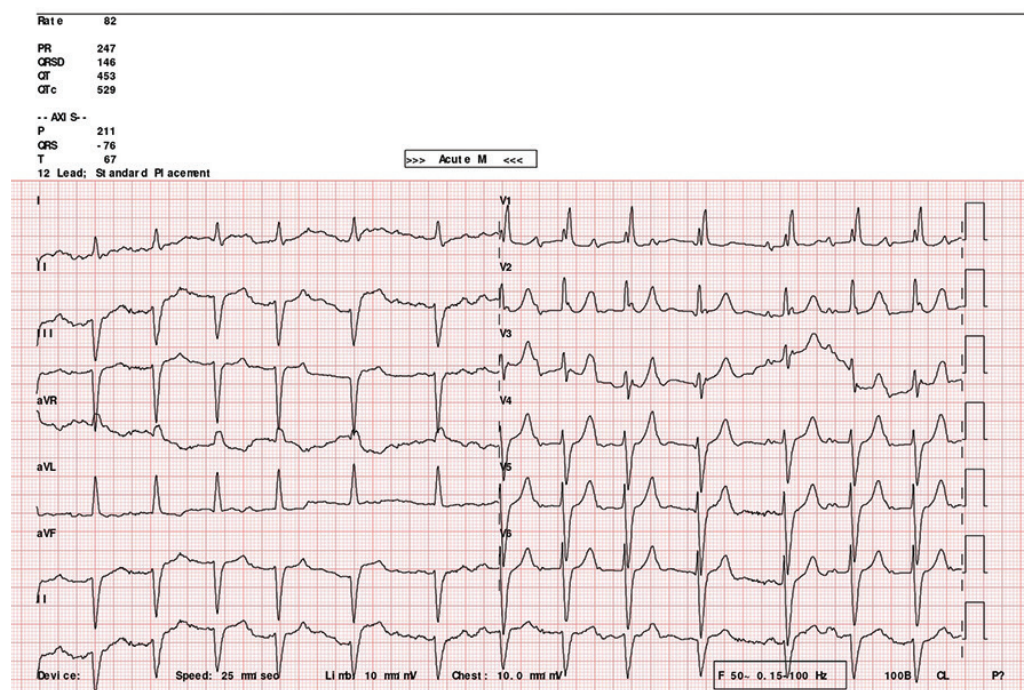


FIGURE 1. Bifascicular block and intermittent second-degree atrioventricular block Mobitz type I.

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