

Patient with syncope

Vladimir Mitov¹, Aleksandar Jolić¹, Milan A. Nedeljković², Nebojša Mujović², Dragana Adamović¹, Marko Dimitrijević¹, Milan Nikolić¹

¹Department of Interventional Cardiology, Medical Center Zaječar, ²Clinic of Cardiology, Clinical Center of Serbia, Belgrade

Male patient, 60 years old, is referred for the first time to Pacemaker Center Zaječar on 26th of July 2018. for assessment of possible indication for pacemaker implantation. After initial evaluation (History, Clinical exam and ECG) with normal findings patient had Additional evaluation for syncope. He has done a three 24-hour Holter recordings with no significant disturbances in excitability or conductivity. Sinus bradycardia was found during sleep. During the day hours, a chronotropic competence is maintained. Exercise test that he has also done is described as negative for ischemic disease, with preserved chronotropic competence. Echocardiography described like normal finding. Neurological exams: clinical finding is normal. MRI of the head was done, also with normal findings. The patient was implanted with implantable loop recorder in left pectoral region, the device was Medtronic Reveal LinQ. During regular device electronic check up we found a several pauses detection of which the longest was 45s in duration. Based on these recordings, an indication for pacemaker implantation was made. Conclusions: Cardiac syncope represents a clinical and diagnostic challenge. An implantable loop recorder is an adequate diagnostic tool for cardiac syncope detection in patients with syncope of unknown origin. Pacemaker implantation is a permanent solution for treatment of cardiac syncope caused by bradyarrhythmia events.

Key words: Syncope, Loop recorder, Pacemaker.