

# Hereditary transthyretin cardiac amyloidosis with phenotypic features of non-compaction cardiomyopathy presenting as ventricular tachycardia – a case report

Ivan Pletikosić\*,  
Ivona Mustapić,  
Zrinka Jurišić,  
Vedran Carević,  
Ana Barić Žižić

University Hospital of Split,  
Split, Croatia

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\***ADDRESS FOR CORRESPONDENCE:** Ivan Pletikosić, Klinički bolnički centar Split, Spinčićeva ul. 1, HR-21000 Split, Croatia. / Phone: +385-98-9646-960 / E-mail: [ivan.pletikosic@yahoo.com](mailto:ivan.pletikosic@yahoo.com)

**ORCID:** Ivan Pletikosić, <https://orcid.org/0000-0001-5925-090X> • Ivona Mustapić, <https://orcid.org/0000-0002-1534-3642>  
Zrinka Jurišić, <https://orcid.org/0000-0001-7583-9036> • Vedran Carević, <https://orcid.org/0000-0002-0009-5009>  
Ana Barić Žižić, <https://orcid.org/0000-0002-4976-3530>

**Introduction:** Hereditary transthyretin cardiac amyloidosis (ATTR-CA) is an infiltrative cardiomyopathy caused by mutation of the transthyretin (TTR) gene<sup>1</sup>. We present our center's first experience in diagnosing this rare disease, which is associated with a high mortality.

**Case report:** 59-year-old male was admitted to the Coronary Care Unit due to hemodynamically unstable monomorphic ventricular tachycardia with left bundle branch block morphology (Figure 1). Urgent electrocardioversion was performed with successful hemodynamic stabilization. He denied dyspnea, chest pain and previous heart disease. His sister died suddenly at age 53. Serial electrocardiograms and laboratory parameters did not show any definite signs of acute coronary syndrome. Urgent coronary angiography was performed to rule out underlying ischemic injury, which revealed subtotal stenosis of the mid left anterior descending artery (LAD), with normal findings of the remaining epicardial arteries. Successful percutaneous coronary intervention of LAD was performed. An echocardiogram revealed left ventricular hypertrophy with diffuse myocardial fibrosis and apico-posterior-lateral hypertrabeculation with decreased systolic and restrictive diastolic function (Figure 2). Due to the discrepancies between the ultrasound, electrocardiographic and angiography findings, further

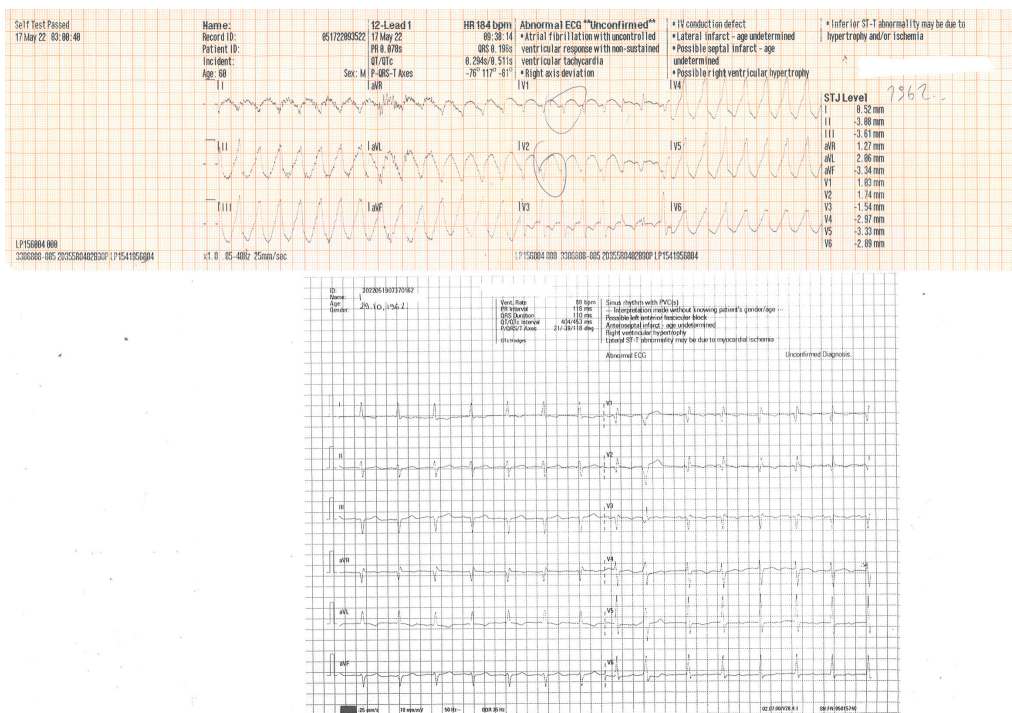


FIGURE 1. Ventricular tachycardia with left bundle branch block morphology.

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