

An Asymptomatic Case of Non-Classified Cardiomyopathy — Noncompact Myocardium of Left Ventricle

D.A. Lezhnev¹, N. N. Mikheev¹, M. V. Zharikova²

¹ Moscow State University of Medicine and Dentistry named after A. I. Evdokimov, Ministry of Healthcare of Russia, Department of Radiology

² Main Clinical Hospital of Interior of Russia, Department of Functional Diagnostics

Abstract

Non-classified cardiomyopathy – non-compact myocardium in left ventricle – is a genetically determined myocardial failure, showing in cardiac insufficiency, rhythm abnormalities, thrombus embolization, and acute cardiac death. Diagnosing this disease has only become possible with the introduction of echocardiography into practice, which made it possible to visualize two layers of myocardium. Physical load appears to be the main factor provoking acute cardiac death and fatal arrhythmias in such patients. We present a clinical case of asymptomatic process of non-compact myocardium of the left ventricle and the timely diagnosis of this disease in a conscription-age patient.

Key words: Non-Compact Myocardium of Left Ventricle, Echocardiography.

References

1. *Blagova O. V., Nedostup A. V., Pavlenko E. V., Sedov V. P. et al.* Myocardial infarction as a typical manifestation of noncompact cardiomyopathy. *Rossiyskiy kardiologicheskiy zhurnal.* 2016. V. 138. No. 10. P. 80–92 (in Russian).
2. *Malov A. A., Bashirov R. A., Yusupova A. F., Alimova S. A.* Non-compact myocardium of left ventricle – difficult way to diagnosis. *Prakticheskaya medizina.* 2017. V. 109. No. 8. P. 89–94 (in Russian).
3. *Polyak M. E., Mershina E. A., Zaklyasminskaya E. V.* Noncompact myocardium of left ventricle: symptom, syndrome or development variant? *Rossiyskiy kardiologicheskiy zhurnal.* 2017. V. 142. No. 2. P. 106–113 (in Russian).
4. *Priori S. G., Blomstrom-Lundqvist C., Mazzanti A. et al.* 2015 ESC Guidelines for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death the task force for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death of the European Society of Cardiology (ESC) endorsed by: Association for European Pediatric and Congenital Cardiology (AEPC). *European Heart Journal.* 2015. V. 36. No. 41. P. 2793–2867.
5. *Cho H. J., Ma J. S.* Left ventricular non-compaction progression to dilated cardiomyopathy following acute myocarditis in an early infant twin. *Minerva Pediatr.* 2015. V. 67. No. 2. P. 199–202.
6. *Patil K. G., Salagre S. B., Itolika S. M.* Left ventricular non-compaction with viral myocarditis: a rare presentation of a rarer disease. *J. Assoc. Physicians India.* 2014. V. 62. P. 261–263.

Authors

Lezhnev Dmitriy Anatol'evich, M. D. Med., Professor, Head of Department of Radiology, Moscow State University of Medicine and Dentistry named after A. I. Evdokimov, Ministry of Healthcare of Russia.

Address: 9a, ul. Vucheticha, Moscow, 127206, Russia.

Phone number: +7 (495) 611-01-77. E-mail: lezhnev@mail.ru

ORCID.org/0000-0002-7163-2553

Mikheev Nikolay Nikolayevich, M. D. Med., Assistant Professor of Department of Radiology, Moscow State University of Medicine and Dentistry named after A.I. Evdokimov, Ministry of Healthcare of Russia.

Address: 9a, ul. Vucheticha, Moscow, 127206, Russia.

Phone number: +7 (926) 231-94-58. E-mail: miheevdoc@mail.ru

ORCID.org/0000-0002-9033-325X

Zharikova Marina Vladimirovna, Ph. D. Med. Head of Department of Functional Diagnostics, Main Clinical Hospital of Interior of Russia.

Address: 35, ul. Narodnogo Opolcheniya, Moscow, 123060, Russia.

Phone number: +7 (916) 974-44-65. E-mail: mv-zharikova@mail.ru

ORCID.org/0000-0002-4688-7730