

Traumatic Aortic Injury at the Patient with Polytrauma

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Abstract

This article is based on case report of the patient with blunt aortic injury, diagnosed in Omsk City Emergency Hospital № 1. The paper presents the classification, mechanisms of blunt injury, diagnostic methods of aortic trauma, proposes protocol of Multidetector Computer Tomography (MDCT) in acute aortic syndrome, discusses the role of MDCT in the diagnosis of aortic injury in polytrauma. In the presented case of aorta dissection were not and could not be distinguished clinically, it was a diagnostic find only at use of MDCT. It has allowed to change of the treatment strategy and to avoid a probable lethal outcome.

Key words: Polytrauma, Radiologic Evaluation, Thorax, Aortic Injury.

References

1. *Marinchek B., Dondelindzher R.* Emergency Radiology. V. 1. Moscow: Vidar, 2008. P. 197–231 (in Russian).
2. *Sharmazanova E. P., Makarov V. V., Panchenko E. V.* Radiology evaluation complications of thoracic blunt trauma. *Torakal'naja radiol.* P. 488-489 (in Russian).
3. ACCF/AHA/AATS/ACR/ASA/SCA/SCAI/SIR/STS/SVM guidelines for the diagnosis and management of patients with thoracic aortic disease. *Circulation.* 2010. V. 121. P. 1544–1579.
4. *Benjamin M. M., Roberts W. C.* Fatal aortic rupture from nonpenetrating chest trauma. *Baylor Univ. Med. Center Proceedings*, 2012. V. 25 (2). P. 121–123.

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