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Source / Izvornik: European Journal of Cardiothoracic Surgery, 2011, 40

Journal article, Accepted version

Rad u časopisu, Završna verzija rukopisa prihvaćena za objavljivanje (postprint)

<https://doi.org/10.1016/j.ejcts.2010.11.021>

Permanent link / Trajna poveznica: <https://urn.nsk.hr/urn:nbn:hr:105:540096>

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Download date / Datum preuzimanja: **2024-05-21**



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Središnja medicinska knjižnica

Gašparović H., Šeparović Hanževački J., Štern-Padovan R., Biočina B.
(2011) *Late diagnosis and treatment: blunt traumatic rupture of the aortic root.* European Journal of Cardiothoracic Surgery, [Epub ahead of print]. ISSN 1010-7940

<http://www.elsevier.com/locate/issn/10107940>

<http://www.sciencedirect.com/science/journal/10107940>

<http://dx.doi.org/10.1016/j.ejcts.2010.11.021>

<http://medlib.mef.hr/935>

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Late diagnosis and treatment: Blunt traumatic rupture of the aortic root

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Word count: 50

Key words: blunt trauma, aortic root, aortic insufficiency

A 48-year-old man was referred for, an initially unrecognized, contained aortic root rupture three months after a vehicular accident. Echocardiography showed aortic insufficiency secondary to noncoronary cusp prolapse (Fig. 1). Computed tomography demonstrated an aortic root injury (Fig. 2A), which was confirmed intraoperatively (Fig. 2B). He underwent aortic root replacement.

Figure 1. (A) Transesophageal echocardiogram demonstrated a pseudoaneurysm of the aortic root (arrows). (B) Prolapse of the noncoronary cusp was identified which resulted in massive aortic insufficiency (arrow)

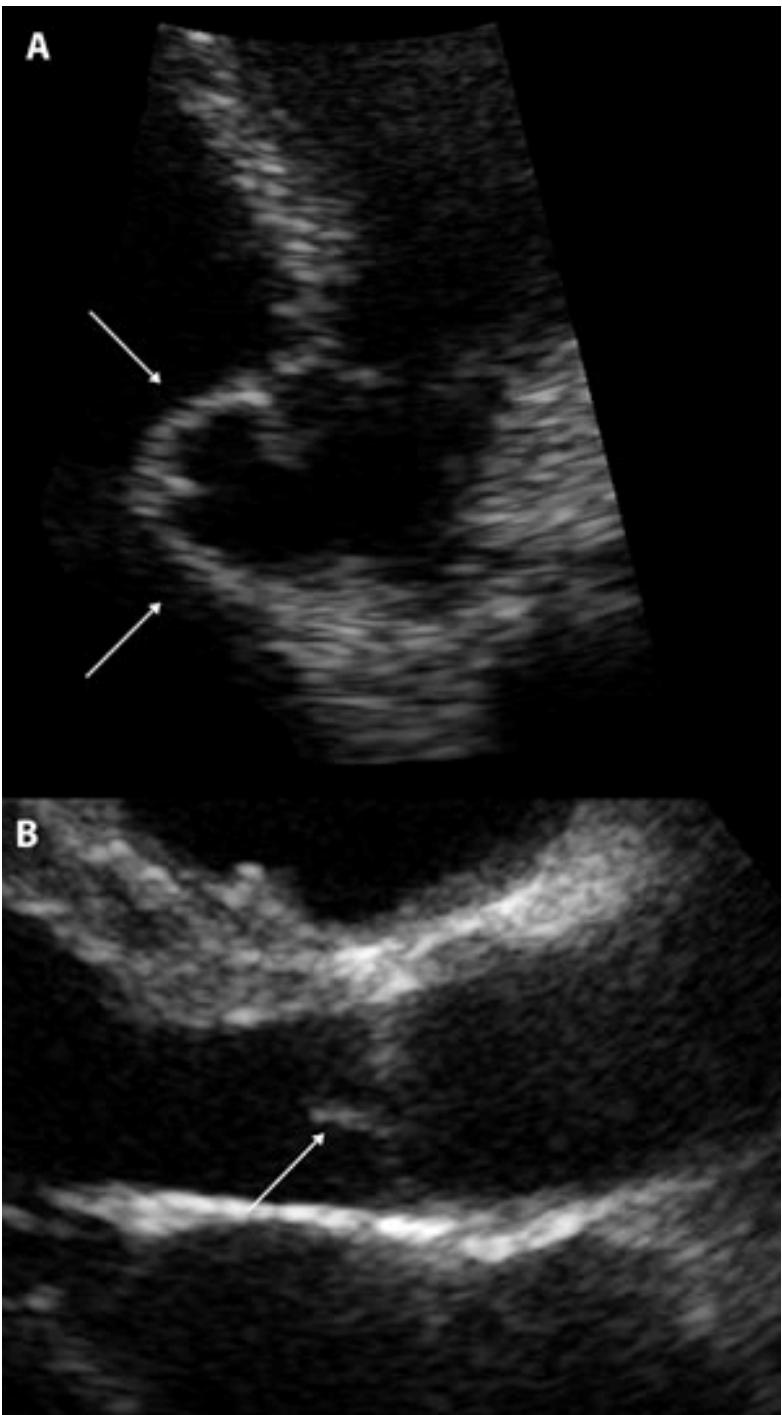


Figure 2. (A) Three-dimensional reconstruction of contrast enhanced chest computed tomography showed a contrast filled cavity communicating with the aortic root (arrows). (B) Intraoperative photograph of the aortic root illustrating a wide orifice of the traumatic pseudoaneurysm (arrows).

