

Accepted Manuscript

Aortic anatomy and complications of the proximal sealing zone after endovascular treatment of the thoracic aorta

Jérémie Peidro, Mourad Boufi, Anderson Loundou, Olivier Hartung, Bianca Dona, Florent Vernet, David Bensoussan, Yves Alimi



PII: S0890-5096(16)30783-X

DOI: [10.1016/j.avsg.2017.09.029](https://doi.org/10.1016/j.avsg.2017.09.029)

Reference: AVSG 3638

To appear in: *Annals of Vascular Surgery*

Received Date: 4 September 2016

Revised Date: 25 July 2017

Accepted Date: 1 September 2017

Please cite this article as: Peidro J, Boufi M, Loundou A, Hartung O, Dona B, Vernet F, Bensoussan D, Alimi Y, Aortic anatomy and complications of the proximal sealing zone after endovascular treatment of the thoracic aorta, *Annals of Vascular Surgery* (2018), doi: 10.1016/j.avsg.2017.09.029.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Aortic anatomy and complications of the proximal sealing zone after endovascular treatment of the thoracic aorta

Jérémy Peidro,¹ Mourad Boufi,^{1,2} Anderson Loundou,³ Olivier Hartung,¹ Bianca Dona,¹ Florent Vernet,¹ David Bensoussan,¹ Yves Alimi,^{1,2} Marseille, France

¹ Service de chirurgie vasculaire, Hôpital Nord, Marseille, France

² IFSTTAR, UMR T24, Aix-Marseille University, Marseille, France

³ Service de Santé Publique, SPMC EA3279, Aix-Marseille University, Marseille, France

Correspondence: Mourad Boufi, Service de Chirurgie Vasculaire, Hôpital Nord, Chemin des Bourrelly, 13915 Marseille Cedex 20, France ; E-mail: mourad.boufi@ap-hm.fr

ABSTRACT

Background: The technical and clinical success of the thoracic aortic endovascular procedures rests mainly on the choice of the proximal sealing zone (PSZ). The latter can be affected by multiple complications, all of them having a potential gravity and a direct link with the quality of the PSZ. The objective of this study was to analyze the risk factors of the occurrence of complications of the PSZ.

Methods: Between 2007 and 2015, all the patients treated by a thoracic stentgraft in zones 2, 3, or 4 were retrospectively reviewed, with analysis of the pre- and postoperative angio-CT. The complications of the ZEP are type Ia endoleaks, bird beak ≥ 20 mm, malposition ≥ 11 mm, migration ≥ 10 mm and retrograde dissection. Three types of potential risk factors were analyzed: (1) related to the patients (age, gender, pathology, urgency, hybrid surgery); (2) related to the stentgraft (bare or covered proximal stent, degree of oversizing, number of stents, generation); (3) related to the morphology (radius of curvature, diameter, degree of conicity, calcifications and thrombus of the neck, depth of the arch, angulation of the proximal sealing zone and index of tortuosity of the arch and the thoracic aorta).

Results: 76 patients (mean age 54 years, 17-93 years) were treated for isthmus rupture (n=27, 35.5%), aortic dissection (n=26, 34%), aneurysm (n=15, 20%) and other diseases (floating

Download English Version:

<https://daneshyari.com/en/article/8653448>

Download Persian Version:

<https://daneshyari.com/article/8653448>

[Daneshyari.com](https://daneshyari.com)