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

Reference: AVSG 3638

To appear in: Annals of Vascular Surgery

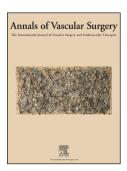
Received Date: 4 September 2016

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.



ACCEPTED MANUSCRIPT

1	Aortic anatomy and complications of the proximal sealing zone after endovascular
2	treatment of the thoracic aorta
3	
4	Jérémie Peidro, Mourad Boufi, Anderson Loundou, Olivier Hartung, Bianca Dona,
5	Florent Vernet, David Bensoussan, Yves Alimi, Marseille, France
6	κ
7	¹ Service de chirurgie vasculaire, Hôpital Nord, Marseille, France
8	² IFSTTAR, UMR T24, Aix-Marseille University, Marseille, France
9	³ Service de Santé Publique, SPMC EA3279, Aix-Marseille University, Marseille, France
10	Correspondence: Mourad Boufi, Service de Chirurgie Vasculaire, Hôpital Nord, Chemin des
11	Bourrelly, 13915 Marseille Cedex 20, France ; E-mail: mourad.boufi@ap-hm.fr
12	
13	
14	
15	
16	
17	ABSTRACT
18	Background: The technical and clinical success of the thoracic aortic endovascular
19	procedures rests mainly on the choice of the proximal sealing zone (PSZ). The latter can be
20	the affected by multiple complications, all of them having a potential gravity and a direct link
21	with the quality of the PSZ. The objective of this study was to analyze the risk factors of the
22	occurrence of complications of the PSZ.
23	Methods: Between 2007 and 2015, all the patients treated by a thoracic stentgraft in zones 2,
24	3, or 4 were retrospectively reviewed, with analysis of the pre- and postoperative angio-CT.
25	The complications of the ZEP are type Ia endoleaks, bird beak \geq 20mm, malposition \geq 11mm,
26	migration ≥ 10mm and retrograde dissection. Three types of potential risk factors were
27	analyzed: (1) related to the patients (age, gender, pathology, urgency, hybrid surgery); (2)
28	related to the stentgraft (bare or covered proximal stent, degree of oversizing, number of
29	stents, generation); (3) related to the morphology (radius of curvature, diameter, degree of
30	conicity, calcifications and thrombus of the neck, depth of the arch, angulation of the
31	proximal sealing zone and index of tortuosity of the arch and the thoracic aorta.
32	Results: 76 patients (mean age 54 years, 17-93 years) were treated for isthmic rupture (n=27,
33	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

<u>Daneshyari.com</u>