ENDOLEAK TYPE IA CLOSURE WITH AMPLATZER™ PLUG AFTER AN OPEN REPAIR OF A STANFORD TYPE A ACUTE AORTIC DISSECTION (TAAD): A CASE REPORT.

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Disclosure

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I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)

- I do not have any potential conflict of interest
INTRODUCTION

- In the past, the importance of the early and appropriate correction of endoleaks after an open repair of the TAAD was underestimated.

- With technical advances of endovascular procedures the improved outcomes are increasing.

- The best technique is not defined yet, probably due to the technical issues, anatomical variances and local conditions at the site of the distal sutured line.
CASE PRESENTATION

A 50-years-old female:

* 73 Kg
* Hypertension and chronic obstructive pulmonary disease
* Presented with an acute thoracic pain and shortness of breath in July 2015.
2010: Previous open cardiac surgery of an Acute TAAD

Total repair: Supracoronary tube, hemiarch reconstruction and a stent grafting of the descending aorta.
Angio-CT Scan

Endoleak IA of the stent grafting of the descending aorta.
DISCUSSION

Which is the best approach?
1) The endoleak was very proximal to the left subclavian artery.
2) Previous open cardiac surgery.

PROPOSAL

An endovascular approach using an Amplatzer™ Plug to make the correction of the endoleak or an open repair, only if necessary.
TECHNIQUE:

1) Total percutaneous access.
2) Local anesthesia.
3) Hybrid surgical room.
4) Initial angiogram.
5) Catheterization of the false lumen.
6) The primary intimal tear was reached at the aortic arch.
7) An 16 mm Amplatzer™ plug was deployed to close the endoleak.
PRE AND POST ANGIOGRAMS
8 months FU Angio-CT scan
Post-operative Angio-CT scan (01.06.2016):
CONCLUSION

1) There are many challenges for the endovascular surgeons to treat complicated cases of acute TAAD correction.

2) The use of plug was described in few cases of TBAD correction, however in TAAD is little known*.

3) Our technique in this case resulted in a safe and suitable treatment choice with a successful ending.

4) We can only confirm this approach as the treatment option after a randomized prospective study to support it.

The simplicity is the highest level of wisdom...

Leonardo da Vinci