Graft infection with a large retroperitoneal abscess after EVAR, a case report

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Disclosure

Speaker name:

...........................Yang Jiao......................................................

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
History

- Male, 54y
- Abdominal Pain and fever for 4 months
  Top temperature >39°C, intermittent chill
- Blood culture: *Klebsiella Pneumoniae*
- Undergone EVAR for AAA 10 months ago
  Device used: Gore Excluder
- Hypertension 17 years, former smoker
Enhanced CT Scan

- New pararenal aortic aneurysm (caused by Type I endoleak)
- A large retroperitoneal abscess
Pre-operation Treatment (14 days)

- Sensitive antibiotic: Meropenem (MEPM)
- Nutrition support: improve general condition
- The inflammatory markers and the temperature decreased
Surgical Treatment Plan

• EVAR (Fenestrated stent graft) to seal the pararenal aortic aneurysm and the left renal artery
• Retroperitoneal approach procedure to clean the abscess
• Negative pressure wound therapy for drainage -- Vacuum-Assisted Closure (VAC)
EVAR (Fenestrated stent graft)
EVAR (Fenestrated stent graft)
Open Procedure

- Cleaning the abscess -- Retroperitoneal approach

- Vacuum-Assisted Closure (VAC) Therapy
Post-operation Treatment (4wks)

- Sensitive antibiotic: Meropenem (MEPM)
- Nutrition support: improve general condition
- The inflammatory markers turn to negative
- The wound closed up
Post-Operation CTA

- No endoleak (Type I & II)
- SMA & RRA were saved
- No residual aneurysm and abscess
Summary

• The standard management is explantation of the graft, clean the infected and necrotic tissue, and reconstruction of the aorta.

• In particular cases, Endovascular treatment may be a reasonable option when infection was under control.

• Vacuum-Assisted Closure (VAC) Therapy is conducive to cure the tissue infection and to gain a better outcome.
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