Endovascular treatment for IVC filter related PTS

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Disclosure

Speaker name:  Wei Liang

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)

X do not have any potential conflict of interest
What is PTS?

**Post Thrombotic Syndrome**

- Acute DVT complication
- **29% ~ 79%** chronic symptoms
  **7% ~ 23%** severe symptoms
  **4% ~ 6%** ulcers
- After acute DVT, PTS incidence:
  **2 yrs: 22.8%, 5 yrs: 28.0%, 8 yrs: 29.1%**

**Pain**

**Edema**

**Pigment**

**Ulcer**

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Strandness DE, et al. JAMA. 1983;250:1289-1292
Incidence of IVC filter thrombosis

Questions of Endovascular treatment for IVC filter related PTS

- Occurrence of PE?
- Filter migration, fracture?
- IVC rupture?
- Technique success rate?
- Patency of stents?
Safety of Endovascular treatment for IVC filter related PTS

1997-2009: 25 cases with IVC filter occlusion
• No tear of the IVC
• No clinical bleeding or abdominal symptoms
• No pulmonary embolism

Patency of stents in endovascular treatment for IVC filter related PTS

• Not influenced by IVC filter crossed by a stent
• Related to the severity of post thrombosis disease (occlusive or non-occlusive obstruction) and the associated recanalization procedure

Short & mid-term results in endovascular treatment for IVC filter related PTS

- 120 cases (123 IVC filters)
- 76% stent cross the filter
- Technique success: 100%
- 6M clinic success : 96%
- Stent PP: 12M 94.8%, 24M 87.2%
- Stent SP: 12M 90.3%, 24M 94.2%
- Patency no relation with the filter
My experience of Endovascular treatment for IVC filter related PTS
CASE 1

- Gu*, Male, 65 yrs
- Both legs C4 for 2 yrs
- Left lower limb DVT & IVC filter 5 yrs
- Warfarin for 5 yrs
CASE 1

Bilateral CFV access
CASE 1

IVC filter Hug PTA (Mustang 10mm)

Both iliac V & CFV PTA (Mustang 5, 6mm)
CASE 1

R: Wallstent 14/90 *2
L: Wallstent 12/90 *2
Wallstent 14/60 *1
CASE 1

- Medication:
  Plavix 75mg/D
  Warfarin

- Elastic stocking

- Results and Follow-up:
  Duration: 14 M
  No claudication
  No edema
CASE 2

- Han*, Male, 72 yrs
- Both legs C4 for 9 yrs
- Left lower limb DVT, PE & IVC filter 13 yrs
- Warfarin for 13 yrs

IVC filter & IVC occlusion
CASE 2

Wallstent 12-90°×2
Wallstent 14-90°×2

Angiography after 1 W
CASE 2

- Medication:
  Plavix 75mg/D
  Warfarin

- Elastic stocking

- Results and Follow-up:
  Duration: 8 M
  No claudication
  No edema

CTV after 6 M
Conclusions

• Endovascular treatment for IVC filter related PTS is safe
• It has high technique success rate
• Stents for IVC filter has good short and mid-term patency
Thank You!

Better Endo, Better Life