Nightmare after iliac vein stenting

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Disclosure

I do not have any conflict of interest
Presentation

• 40 year old female with history of recurrent left lower limb DVT presented with post thrombotic syndrome (PTS).

• CT venography: occlusion of left common iliac vein
Venography and venoplasty

- Position: supine
- Access: right superficial vein
- Under ultrasound guidance
- Sheath: 6&10F
- Wire: hydrophilic 0.035
- Catheter: glide catheter
- Predilation: 4*40 & 18*40
- Stents: 18*40 & 14*150
After the procedure

• The patient was treated with heparin, ASA and clopidogrel after the procedure.

• She developed local back pain and radicular pain in lower extremities followed by sensory, motor, bladder and bowel dysfunction about 24 hours after the procedure with progressive course to upper limbs.
Spinal MRI

- epidural hematoma in cervicothoracic spine (extending from C3 to T12)
After the procedure

1. Anticoagulation was discontinued
2. IVC filter was implanted
3. The patient transferred for emergent laminectomy and evacuation of blood less than 24 hours of developing symptoms.
Follow up

Follow up after 3 month showed:

• improvement of neurologic deficit of both upper limbs
• unfortunately no significant improvement of lower limbs.
Spinal epidural hematoma

- It can complicate procedures that involve spinal dural puncture, usually in patients with thrombocytopenia or bleeding diathesis, including anticoagulant therapy.

- Rarely this occurs spontaneously, a predisposition to bleeding is a risk factor in these patients as well.
Spinal epidural hematoma

• The source of bleeding is usually venous rather than arterial

• Symptoms typically present over days, although more abrupt presentations are also described.
Spinal epidural hematoma

- The appropriate treatment for patient with significant and/or progressing neurologic deficit is prompt surgical intervention (less than 24h of symptoms).

- Many individual with minor, stable neurologic deficit can be managed by observation and have a good prognosis for complete recovery.
Take home massage

1. Spinal epidural hematoma could be a nightmare after iliac vein stenting.

2. For prevention of such a serious complication it is mandatory to check wiring of iliac vein to IVC in lateral view.

3. High clinical suspicion and prompt intervention could be limb saving after epidural hematoma.
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