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**Thrombosed IVC Filter: How To Recanalize The Cava And Manage The Filter**

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**Conclusions:**
Stenting across an obstructed IVC filter is safe. Patency is related to the severity of postthrombotic disease.


**Results:**

1997 to 2009
25 patients, an IVC filter was obstructed. The site was crossed by a guidewire and balloon dilated. A stent was placed across the IVC filter and redilated.

**Best To Remove IVC Filter To Avoid Long-term Filter Related Complications**

IVC Filter Occludes Vena Cava
10 Years Out

Filter Struts In Aorta & Lumbar Vertebrae
Ilio-Caval CTO from IVCF

Localized extravasation of contrast visualized after extraction. Patient remained hemodynamically stable.

If Cannot Remove IVCF
1. Endo-smash
2. Endo-trash
Occluded permanent IVC filter (Braun) traversed with sharp end of an .035 Amplatz super-stiff wire supported with 45 cm 16 FR Cook sheath and 5 FR 55 cm Triforce system

Channel created between IVC and left common iliac vein to allowed passage of an .014 floppy tip wire from below without having to snare from above

Triforce for left iliac vein recanalization the 4 FR CXI Support catheter used to deliver the .014 floppy tip wire into IVC

Amplatz Superstiff Guidewire (back end – sharp)

Channel created between IVC and left common iliac vein to allowed passage of an .014 floppy tip wire from below without having to snare from above

With through-and-through access from left femoral vein to right internal jugular vein serial balloon dilatation begun

Filter “endotrashed” to the caval sidewall

Stenting across 24 mm Wallstent

Here we “endosmash” the IVC filter using a 16 mm Bard Atlas balloon

Post-stent dilatation of IVC with 20 mm Bard Atlas balloon, inflations to 16 atm

Stent fenestration initiated by traversing stent struts right iliac vein recanalized with .035 angled glidewire supported by Triforce system

IVC with 20 mm Bard Atlas balloon,
Stent fenestrum created with serial balloon dilatation; finishing with 14 mm Atlas balloon.

25 mm Z-stent in infrarenal IVC to correct para renal caval stenosis.

24 mm Wallstent to endosmash IVC filter.

15 mm Z-stent in fenestrum mitigates jailing of the left side.

16 mm Wallstents in common and external iliac veins bilaterally.

Caval Occlusion Bi-conical IVCF
“A Little Tougher Case”

16 FR, 45 cm GuideSheath Will Allow Wire & Snare

16 Fr sheath

16 Fr RU Sheath

Loop Snare Technique
Conclusion:

1. Try to get the filter out
2. Need a little “uncomfortable” force
3. Extravasation well tolerated

Thank you!