What is the Best Method to Measure Venous Thrombolysis Resolution

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History

- 62-year-old man
- History of provoked DVT, during which he received a permanent IVC filter (VenaTech)
- Presented with acute right lower extremity swelling

Ultrasound

Iliac Venography

Overnight Infusion
First Venogram Post Lysis

IVUS After Lysis

CAVENT follow up: no correlation between post-treatment thrombus score (by venography) and PTS

But iliofemoral patency at 6 and 24 months did correlate with PTS

And, low thrombus score correlated with iliofemoral patency

So...

A = B
B = C
A ≠ C

• Insufficient Power
• Insensitive to Residual Thrombus
Conclusions: What is the Best Method to Measure Post-Procedure Thrombus Resolution?

• Venography has limitations
  – residual thrombus not always seen (sensitivity)
  – Insufficient data to support it being the gold standard
• IVUS has potential, but would need to be validated with long term clinically relevant outcomes