Marketed Stents Designed For Arteries Are More Than Adequate For Treating Venous Disease

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Don’t Be fooled

- Balloon Expandable
  - Helpful in IVC. Good expansion, little recoil, precise
  - Palmaz (P5010 on desired balloon), Gianturco.
- Self Expanding:
  - IVC thru CFV: crush resistant, radial force, most are precisely placed, variety of sizes, aided with PTA
  - Wallstent (4-10mm), Numerous others (< 14mm)
- Covered Stents: Balloon & self expanding
  - Very large with Endografts

I Concede

Stents

455 limbs with chronic, nonmalignant obstruction
3 years: (Wallstents)
- primary patency was 79% 
- primary-assisted patency was 92%
- secondary patency was 93%
- Nonthrombotic limbs had better primary patency than thrombotic limbs (89% vs 65%, respectively)

The Master Himself

Publications and Presentations
- Dr. Raju has presented numerous scientific papers and lectured in the U.S. abroad. He is the author of a book, 40 book chapters and over 150 journal articles, mostly on venous disease.
39 patients May-Thurner syndrome
- 19 with acute DVT, 20 with chronic symptoms
- 35 of the 39 patients stented (Palmaz & Wallstents)
- Initial technical success = 87%,
- Patency at 1 year = >90%
- Symptomatic relief in 85%


227 stents in 205 patients w NIVCL (Wallstents)
- Primary and assisted-primary cumulative patency @ mean of 4 years: 98.7% and 100%.
- The cumulative edema relief rate was 89.1% (156 of 175)
- Healing rate for active ulcers was 62.3% (51 of 62).
- Visual analogue pain scale (0–10) declined from 4.3 preprocedure to 0.4 post.
- Quality of life improved significantly after intervention.


Cochrane Review
• 16 Studies
• 2,373 post-thrombotic and 2,586 non-thrombotic limbs
• Persistent ulcer healing rates: 56%-100% in limbs that had often already failed conservative management
• Primary (≤ 98.7%) & secondary patency (≤ 96%) respectively


Why Venous Stent?
• Not because of technical success rates ~ 90 - 100%
• Driven by MD beliefs of unproven stent characteristics

Are Current Stents More Than Adequate?
Absolutely…more than adequate
Could they be improved…..Absolutely

BUT THAT WASN’T THE QUESTION!!

Thank you