

Case

- 72-year-old female
- DM & previous smoker
- Non-healing ulcer right 5th toe
- Previous bypass on the left, stent on the right



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Concerns

- Elective, urgent or emergent?
- Next Steps?

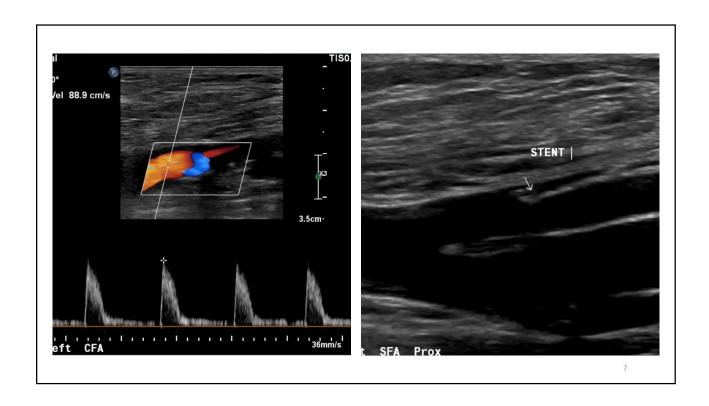
Q: What is your next step in the management in this patient?

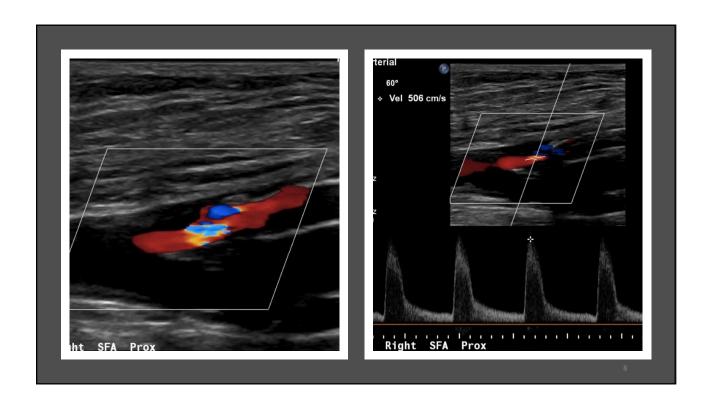
- A. Urgent Arteriogram
- B. ABI c/ segmental pressures
- C. ABI c/ arterial duplex
- D. CT angiogram
- E. X-ray of the toe

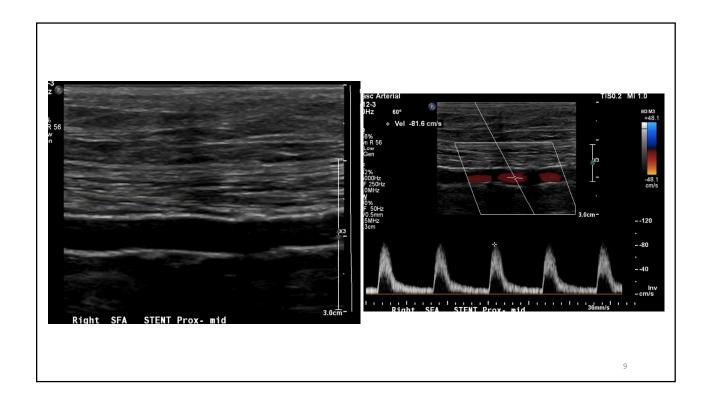
Discussion

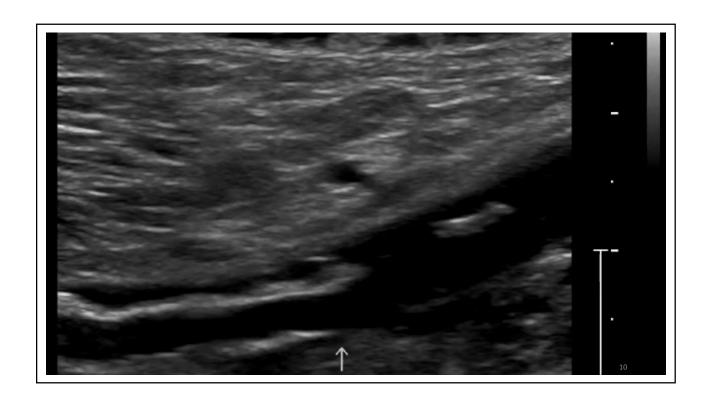
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Signs of revascularization failure • "Something does not feel right - feels like it did prior to surgery" • Lost of pulse or pulse in graft (change in doppler signal) • New wounds • Old wounds stall or open up









- ABIs : Non-compressible
- R Toe pressures 45 mmHg

Concerning findings?



	TBI:			/	-1	TBI:	Velocity	Waveform
		elocity 1/4	Waveform	/.	.\	EIA D	1	TP/h
		30	TP/hop	1	11-1	CFA	89	
STENT	PFA /	02	+	1	15-12	PFA	116	
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Treatment Options

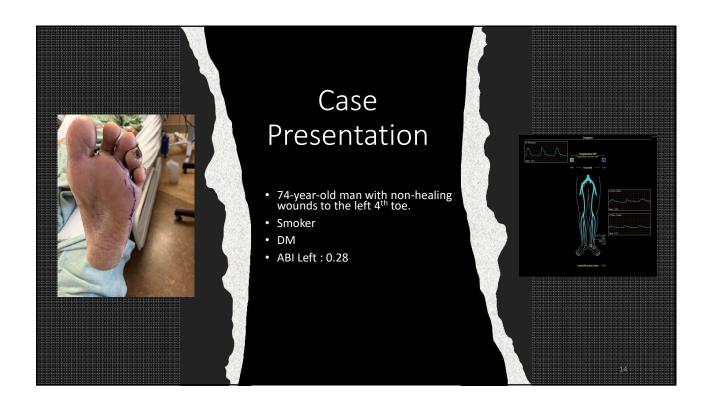
- Balloon angioplasty
- Atherectomy
- Stenting
- Bypass

"In-stent stenosis after SFA angioplasty and stenting can be predicted by both PSV and Vr data as measured by DU imaging. To determine a "80% in-stent stenosis, combining a PSV "275 and a Vr "3.50 is highly specific and predictive."

From the Society for Vascular Surgery

Duplex criteria for determination of in-stent stenosis after angioplasty and stenting of the superficial femoral artery

Donald T. Baril, MD, Robert Y. Rhee, MD, Justine Kim, MD, Michel S. Makaroun, MD, Rabih A. Chaer, MD, and Luke K. Marone, *Pittsburgh, Pa*



Treatment

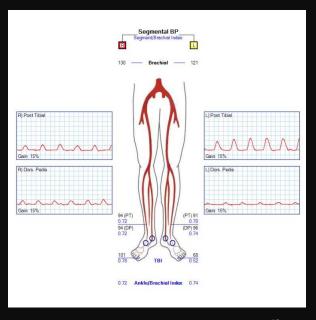
- May: Left SFA to PTA bypass
- Uneventful
- ASA / Statin
- PT Pulse / ABI 0.90
- 1 month follow up wound healing

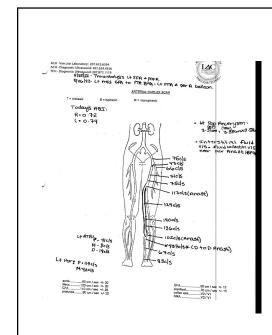


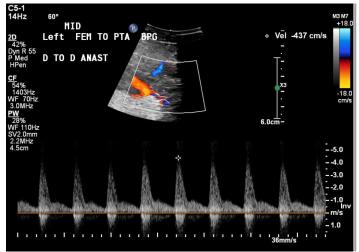
Follow up #2 3 months

- Wounds stalled
- ABIs: LEFT 0.94 to 0.74
- What are some important questions?

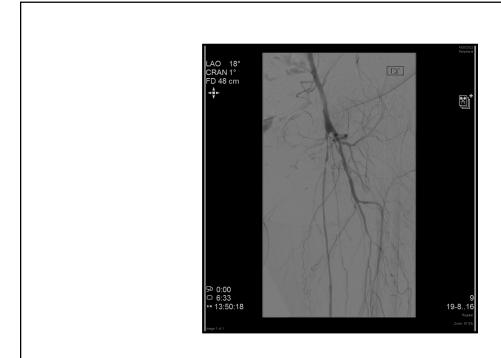
What is the next study?

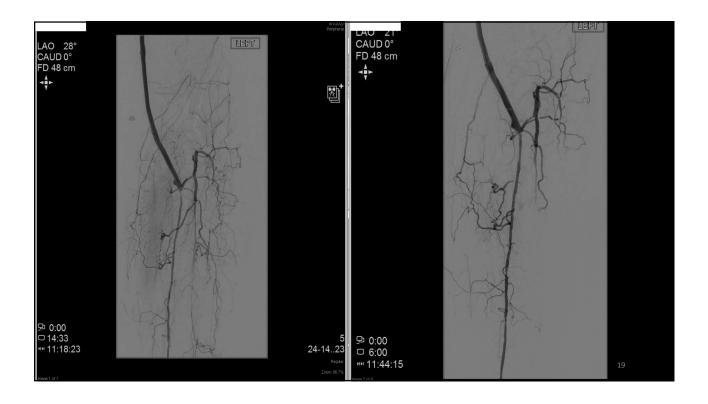


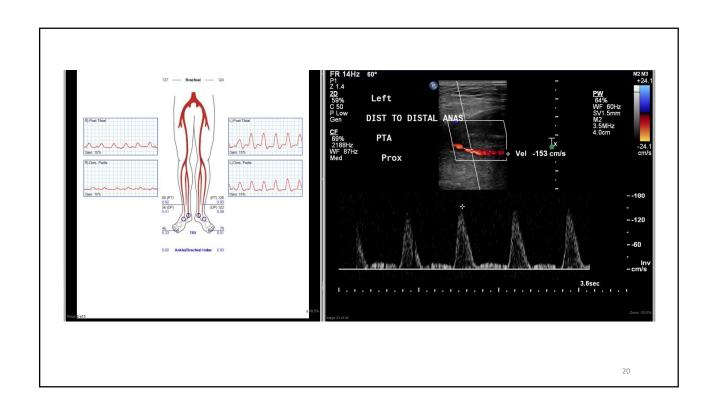




THOUGHTS?

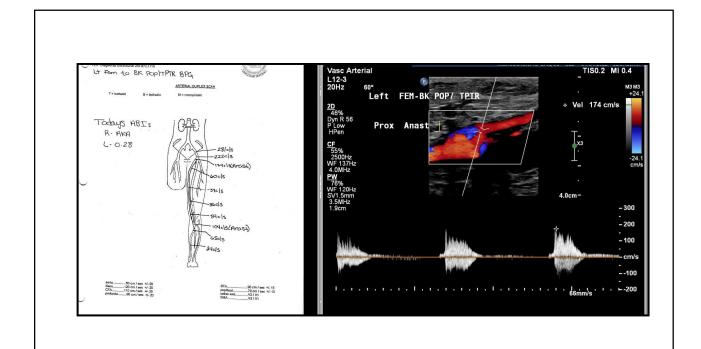


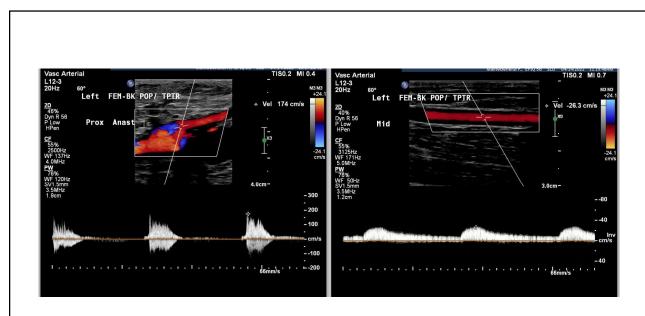




Case Presentation

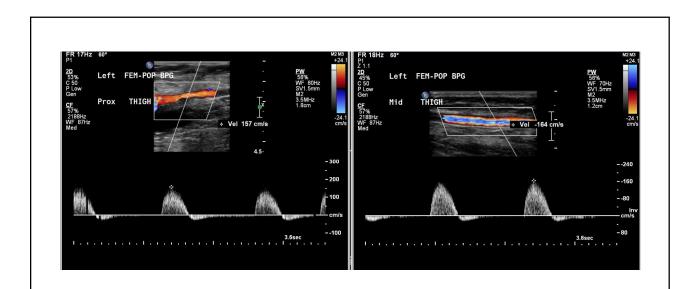
- 67-year-old female, recurrent smoker with rest pain to the left leg
- s/p RIGHT BKA
- s/p LEFT Femoral popliteal artery bypass





Discussion – Thoughts?

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Post Angioplasty

Summary

- Duplex will guide the physician to the appropriate treatment
 - Reducing cost, contrast and time
- Important to understand to the procedure
- Surveillance may vary depending on the last study
- Prevention from graft thrombosis saves limbs, and overall morbidity and mortality

