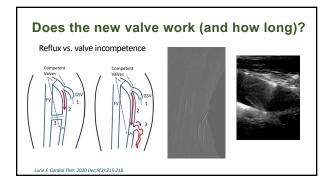
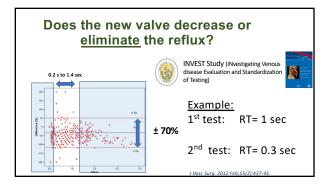




New solutions, old questions

- Does the new valve work (and how long)?
- How does it change venous flow dynamics in the treated limb?
- What are clinical outcomes <u>causally related to</u>:
 - Changes in focal reflux
 - Changes in limb flow dynamics

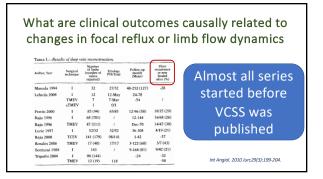




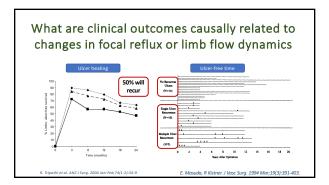
Does the new valve work (and how long)? Opening phase ≈ 0.25 sec Closing phase 0.3 - 0.4 sec

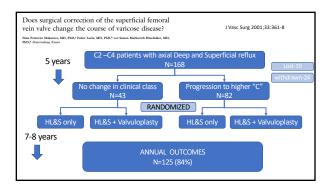
Outcome measure – direct visualization + Time of the opening and close phases of the valve cycle





www.uucu	clini	cal ou	itcomes c	ausally re	lated to				
changes i	n fo	cal re	flux or lin	nb flow dy	namics				
Attribute	Absent [0]	Mild [1]	Moderate [2]	Severe [3]					
Pain	None	Occasional							
Varicose veins (>4 mm in diameter)	None	Few, s							
Vencus edema	None	Limite ankle							
Skin pigmentation	None	Limite area	VCSS: \	Which of	these				
Inflammation	None	attributes casually relates							
Induration	None	Limite							
Number of active ulcers	0	1	to chai	nges in re	flux?				
	N/A	<3 mo		1969-11116					
Longest active ulcer duration		Diame							
Longest active ulcer duration Largest active ulcer size (cm)	N/A								
	N/A None	<3 mor							





Does surgical correction of the superficial femoral vein valve change the course of varicose disease?

 Benefits of valve reconstruction only in progressive disease
 No relationship between clinical outcomes and reflux time (because of variability in RT)

J Vasc Surg 2001;33:361-8

	Sta	Progressive			ч			
	HL&S+ Valvuloplasty	HL&S only	Ρ	HL&S+ Valvuloplasty	HL&S only	Ρ		
Improvement	95%	90%	NS	80%	51%	<0.01	1	
No improvement or worsening	5%	5%	NS	34%	15%	<0.01	8	
								2 1 2 3 4 5 6 7 Yanaka wayay

CONCLUSIONS

- Does the new valve work (and how long)? -direct visualization + time of the opening and closing phases
- How does it change venous flow dynamics in the treated limb?
 APG (with all negative features)
- What are clinical outcomes causally related to valve reconstruction? natural history change:
 - C5-C6 Frequency of ulceration (ulcer-free time)
 - C2-C4 Progression to C6

