

Disclosures		
• Founder & Chief Science Office, AngioInsight,	Inc.	
 Consultant, Edwards Lifesciences. 		
COMPUTATIONAL VASCULAR BIOMECHANICS LAB	http://bloodflow.engin.umich.edu/	























Demographics							
Participants	30						
Age (years)	38.8 ± 11.4						
BMI (kg/m2)	23.5 ± 5.3		M	Deale Mala alte	Diamatan	F1	Ob D-t-
Sex		Vessel	Mean velocity	Peak velocity	Diameter	Flow	Snear Rate
Female	23 (76.7)	11/0	(cm/s)	(cm/s)	(cm)	(L/min)	(1/5)
Male	7 (23.3)	IVC	12.8 ± 7.6	39.6 ± 23.0	1.2±0.4	1.0 ± 0.9	11.8 ± 7.0
Race		LCIV compressed	13.3 ± 7.6	39.5 ± 19.9	0.5±0.3	0.2 ± 0.3	32.6 ± 26.3
White	27 (90)	LCIV distal	9.9±5.0	28.4 ± 12.8	0.9 ± 0.4	0.4 ± 0.4	13.6 ± 10.3
Black	1 (3.3)	RCIV	8.7 ± 4.3	26.2 ± 13.0	1.0 ± 0.4	0.5 ± 0.6	10.1 ± 6.8
Other	2 (6.7)	LEIV	7.7 ± 3.4	24.6 ± 15.1	1.0 ± 0.3	0.3 ± 0.2	8.7 ± 7.0
Comorbidities		REIV	11.6 ± 14.4	34.9 ± 35.9	0.8 ± 0.3	0.4 ± 0.4	15.4 ± 19.0
Smoking Hx	7 (23.3)						
Pregnancy Hx	20 (66.7)						
Currently Postpartum	4 (13.3)		Desired M	Intrino		-	
Coagulopathy	1 (3.3)		Steneoia (%)		20.8 + 22.0	2	
Oral Contraceptive Use	4 (13.3)		Steriosis (70) rel Mala elte Datia	35.0 ± 22.0	,	
Hypertension	4 (13.3)		Contralate	rai velocity Ratio	1.7 ± 1.0		
Adverse Events			ipsiateral	velocity realio	1.7 ± 1.4		
DVT	6 (20)		Contralate	ral Diameter Ratio	0.6±0.3		
Leg Swelling	10 (33.3)		Ipsilateral Diameter Ratio		0.6±0.2		
Venous Ulcer	1 (3.3)		Contralateral Shear Rate Ratio		3.9 ± 3.5		
PE	3 (10)		Ipsilateral	Shear Rate Ratio	3.8 ± 4.9		
Any Event	12 (40)						



