Supplementary Table 1. Associations between the velocity pulsatility index (VPI) with measures of SFA plaque burden.

Variable	Independent Variable	N	BETA	SE	R^2	Adjusted R^2	P-value
Pooled Data							
VPI at proximal site	SFA total volume, cc	70	60.833	179.172	0.002	-0.013	0.74
	SFA wall volume, cc	70	275.648	251.106	0.017	0.003	0.28
	SFA lumen volume, cc	70	-368.77	389.016	0.013	-0.002	0.35
	24Mo Δ of SFA total volume, cc	38	124.843	373.776	0.003	-0.025	0.74
	24Mo Δ of SFA wall volume, cc	38	1115.102	659.675	0.074	0.048	0.1
	24Mo Δ of SFA lumen volume, cc	38	-634.241	645.027	0.026	-0.001	0.33
VPI at distal site	SFA total volume, cc	69	4.369	3.734	0.02	0.005	0.25
	SFA wall volume, cc	69	1.94	5.306	0.002	-0.013	0.72
	SFA lumen volume, cc	69	16.285	8.034	0.058	0.044	0.047
	24Mo Δ of SFA total volume, cc	37	7.701	6.035	0.045	0.017	0.21
	24Mo Δ of SFA wall volume, cc	37	-1.494	11.242	0.001	-0.028	0.90
	24Mo Δ of SFA lumen volume, cc	37	24.866	9.945	0.152	0.127	0.017
Diabetic PAD Patients							
VPI at proximal site	SFA total volume, cc	27	3.226	4.204	0.023	-0.016	0.45
	SFA wall volume, cc	27	0.728	5.89	0.001	-0.039	0.90
	SFA lumen volume, cc	27	12.101	8.43	0.076	0.039	0.16
	24Mo Δ of SFA total volume, cc	14	5.554	6.583	0.056	-0.023	0.42
	24Mo Δ of SFA wall volume, cc	14	-1.277	13.066	0.001	-0.083	0.92
	24Mo Δ of SFA lumen volume, cc	14	20.96	11.25	0.224	0.16	0.09
VPI at distal site	SFA total volume, cc	27	10.391	5.183	0.139	0.104	0.06
	SFA wall volume, cc	27	6.808	7.615	0.031	-0.008	0.38
	SFA lumen volume, cc	27	29.095	9.937	0.255	0.226	0.007
	24Mo Δ of SFA total volume, cc	14	16.6	8.345	0.248	0.185	0.07
	24Mo Δ of SFA wall volume, cc	14	17.531	17.863	0.074	-0.003	0.35
	24Mo Δ of SFA lumen volume, cc	14	42.263	13.428	0.452	0.407	0.008
Non-Diabetic PAD Patients							
VPI at	SFA total volume, cc	43	120.766	304.942	0.004	-0.021	0.69

proximal site	SFA wall volume, cc	43	528.924	431.074	0.035	0.012	0.23
	SFA lumen volume, cc	43	-706.134	688.34	0.025	0.001	0.31
	24Mo Δ of SFA total volume, cc	24	407.817	708.832	0.015	-0.03	0.57
	24Mo Δ of SFA wall volume, cc	24	2222.527	1101.121	0.156	0.118	0.06
	24Mo Δ of SFA lumen volume, cc	24	-1050.943	1163.699	0.036	-0.008	0.38
VPI at distal site	SFA total volume, cc	42	-1.574	4.814	0.003	-0.022	0.75
	SFA wall volume, cc	42	-4.143	6.854	0.009	-0.016	0.55
	SFA lumen volume, cc	42	2.363	11.102	0.001	-0.024	0.83
	24Mo Δ of SFA total volume, cc	23	-8.457	8.198	0.048	0.003	0.31
	24Mo Δ of SFA wall volume, cc	23	-23.387	12.843	0.136	0.095	0.08
	24Mo Δ of SFA lumen volume, cc	23	0.418	13.997	0	-0.048	0.97

VPI = Maximum velocity - Minimum velocity / Mean velocity; BETA=parameters estimate; SE = standard error; Mo: month; SFA: superficial femoral artery; PAD: peripheral artery disease; 24-Mo Δ: 24-months difference.