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VEITHSYMPOSIUM

EMORY UNIVERSITY SCHOOL OF

Premature Peripheral Artery Disease:

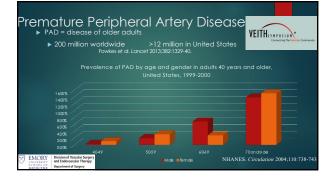
What factors predispose to it, How Should its Treatment Differ, How Does it Influence Treatment Outcomes

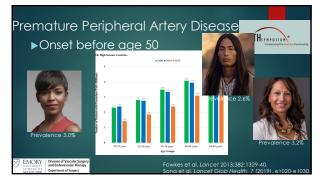
OLAMIDE ALABI MD MS

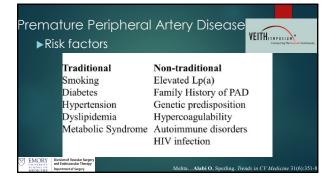
DISCLOSURES

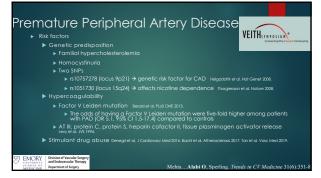
- No financial conflicts of interest
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 NHLBI
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- This presentation does not represent the views of my academic institution or the federal government

EMORY UNIVERSITY SCHOOL OF Division of Vascular Surgery and Endovascular Therapy









Premature Peripheral Artery Disease

Management

Secondary ASCVD prevention
 Smoking cessation & comprehensive lifestyle

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Mehta...Alabi O, Sperling. Trends in CV Medicine 31(

Mehta...Alabi O, Sperling. Trends in CV Medicine 31(6):351

- changes
- Antithrombotic agents
 Lipid lower therapies
- Management of other chronic comorbidities
- ▶Exercise therapy
- Majority of clinical trials did not include young patients

EMORY UNIVERSITY SCHOOL OF Department of Surgery

Premature Peripheral Artery Disease

80-99	2014 (40.0)	6114(43.5)	0610 [443]		Race/Dhaicity	NH Native American	1 (0.1%)	1 (0.3%)	0 (0.00%)	0.37
70-79	1890 (18.3)	3414 (35.2)	4494 (23.2)		and the balance of	XII Asian		4 (1.2%)	3 (0.%)	
200 Sex amigned at birth	584 (19.0)	1718 (12.7)	2342 (11.5)			NH Nativo Hawalian or Other Pacific Islander	2 (0.3%)	2 (0.6%)	0 (0.00%)	
Sex aniighed at orth	136(22)	156 (1.1)	292 (1.5)	<.011		Unknown	24 (3.4%)	14 (4.3%)	10 (2.7%)	
						Medicate	219 (81.2%)	83 (28.3%)	126 (33.8%)	
Male	(200 (97.7)	33 404 [98.9]	19184 (98.5)			Private	225 (32.1%)	124 (37.7%)	101 (27.1%)	1
Race and ethnicity					Insurance Status	VA	186 (26.5%)	82 (26.4%)	99 (26.6%)	
African American or Black	1370 (23.6)	3709 (27.9)	5367 (26.6)	<.001		Other	72(10,2%)	15 (7.4%)	47 (12,6%)	1
Non-Andrian (Filed: 179(234) 798(239) 5387(254) 498 Mabi O, et al. JAMA Surg 2023;158(6):e230479				Forrester,		T2 (10.2%)	25 (7.6%)	47 (12.6%)		
😒 EMORY	Division of Vascular	Surgery								

Premature Peripheral Artery Disease

►Outcomes after revascularization

- ▶40% may require multiple reinterventions valentied at 1/3 1999 30(3) 424-445.
- CITCITCIVCITIOTS Valentine et al. JVS 1999;30(3):436-4
- ► Worse patency Kingethoefer et al. JV5 2016;64380-388.
- ▶2x the likelihood of bypass occlusion

►4x amputation risk Tarreated at JVS 2019(70):175-180.

EMORY Division of Vascular Surgery and Endovascular Therapy

Methods

VEITHESTIP

- Study population: All adults at VQI participating centers undergoing endovascular revascularization for lower extremity peripheral artery disease (PAD) between January 2017 to December 2018
 - Exclusions:
 - ►Age under 18
 - ▶ Procedure for acute limb ischemia
 - Hybrid procedures

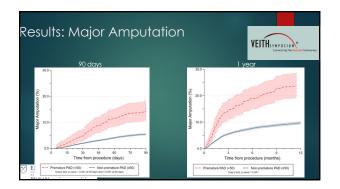
Data Sources: Vascular Quality Initiative linked to Medicare claims data
 EMORY
 Extension form

Methods

- Primary Exposure Variable:
- premature PAD (age <50 yrs of Primary Outcome Variable:
 - Mortality
 - > 20 days 90
 - Major amputation
 - ▶ 30 days, 90 days, 1 year
- Analysis:
 - Standard demographic comparisons
- Competing risk analyses using cumulative incidence functions using the Alaen-Johansen estimator and hierarchical Fine-Gray regression
 ENORY. Brother Market Repr
- Results Total Older Adults Premature PAD p-valu N=16,050 n=14,699 n=351 VEITHSTHPOSTUM 71.9 (10.2) 72.5 (9.3) 44.2 (4.7) <0.00 0.00 179 (51.0) 172 (49.0) 8821 (58.6) 8642 (58.8) 6057 (41.2) 6057 (41.2) 169 (48.1) 131 (37.3) 36 (10.3) 15 (4.3) 11241 (76.5 2323 (15.8) 591 (4.0) 544 (3.7) <0.00 11410 (75.8) 2454 (16.3) 627 (4.2) 559 (3.7) 5906 (39.2) 5835 (39.7) 2191 (14.6) 2130 (14.5) 6953 (46.2) 6734 (45.8) 71 (20.2) 61 (17.4) 219 (62.4) 197 (56.8) 102 (29.4) 45 (13.0) 3 (0.9) 9511 (64.5) 2966 (26.9) 1160 (7.9) 9314 (64.7) 3864 (26.8) 1115 (7.7) 0.00 331 (94.3) 20 (5.7) 14104 (93.9) 13773 (93.9) 918 (6.1) 898 (6.1) EMORY Division of Vascular Surger Hot and Endovascular Therapy Nur Home or U

			103	UIDE ADUS	Premature PAD	p-value	
			N=15,050	n=14,699	n=351		
		Comorbidities					
Dear			1000 100 01				
Result	S	Obesity (BM≥30)	4919 (32.8)	4754 (32.4)	165 (47.6)	< 0.001	
		Heart disease					
		Coronary artery disease	5652 (37.6)	5530 (37.6)	122 (34.8)		VEITHSTREASTING
		Concestive heart failure	3608 (25.3)	3714 (25.3)	94 (26.8)	0.003	Connecting The Verouter Community
		Prior CABG	3456 (23.0)	3392 (23.1)	64 [18.2]	0.003	Correcting the value Constanty
		Prior PCI	3680 (25.8)	3800 (25.9)	80 (22.8)		
		Phor PCI	3000 [23.0]	3000 [25.3]	00 (22.0)		
		Chronic lung disease	4306 (28.6)	4242 (28.9)	64 (18.2)	<0.001	
		Diabetes mellitus 🜟	8546 (56.8)	8273 (56.3)	273 (77.8)	<0.001	
		Chronic kidney disease					
		Stage 3-5	4058 (28.8)	4016 (29.1)	42 [12.9]	<0.001	
		On dialysis 🔶	1983 [14, 1]	1803 (13.1)	180 (55.2)		
		Hypertension	13688 (91.1)	13396 (91.2)	302 (96.0)	<0.001	
		Prior revascularization	6329 (42.1)	6185 (42.1)	144 (41.0)	0.688	
		Prior amputation					
		minor	1349 (9.0)	1282 [8.7]	67 (19.1)	<0.001	
		major	1316 (8.7)	1241 (8.4)	75 (21.4)		
		Preoperative medications					
		Antiplatelet	12346 (82.0)	12078 (82.2)	268 (76.4)	0.005	
		Statin	11471 (76.2)	11227 (76.4)	244 (69.5)	0.003	
		Smoking status					
			5906 (39.2)	5835 (39.7)	71(20.2)	<0.001	
MORY EMORY	Division of Vascular Surg and Endovascular Thera		2191 [14.6]	2130 [14.5]	61(17.4)	0.001	
UNIVERSITY SCHOOL OF		Active	6953 (46.2)	6734 [45.8]	219 (62.4)		
MEDICINE	Department of Surgery	MUITE	0303 [46.2]	0134 [45.6]	213 [62.4]		





ults				VEITH STIN POSIUM Connecting The Va
OUTCOMES:	30-days	90-days	1 year	р
Mortality				
All PVIs	2.9%	7.1%	18.6%	NS
Older Adult PAD	2.9%	7.2%	18.6%	NS
Premature PAD	2.8%	7.1%	17.1%	NS
Major Amputation				
All PVIs	2.0%	5.4%	9.2%	.006
Older Adult PAD	1.9%	5.2%	8.9%	<.001
RY Premature PAD	4.6%	13.7%	21.9%	<.001

