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Connecting The Vascular Community

VANDERBILT
School of Medicine

Update on The PROMISE Trials Results in No Option CLTI Patients

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on Behalf of PROMISE I, II, UK, and CLarITI Investigators


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CONFLICTS

- Consultant: BSCI, Perdix, Inari/LimFlow, Elastimed, Medtronic, Shockwave, Caeli Med, BD

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CLTI: The most severe form of peripheral arterial disease




- 3.8M** In the U.S. affected by Chronic Limb-Threatening Ischemia (CLTI) and the number continues to grow¹
- 150K** Major lower extremity amputations in the U.S. annually²
- 4X** More likely to face major amputation if you are Black³
- 6th** Most expensive surgical procedure in the U.S. = Major Amputation⁴
Driven by high complication rates, length of stay, readmissions, and hospitalizations⁴

1. Kannel WB, Castelli CP, Gillin G, et al. Chronic limb-threatening ischemia in an insured national population. J Vasc Med Biol. 2007;19(1):1-6. 2. Coughlin M. Amputation rates in the United States. J Vasc Med Biol. 2007;19(1):1-6. 3. Fryback DG, et al. Racial differences in the prevalence of peripheral artery disease. Circulation. 2011;124(12):1241-1246. 4. Fryback DG, et al. Racial differences in the prevalence of peripheral artery disease. Circulation. 2011;124(12):1241-1246.

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CLTI: The most severe form of peripheral arterial disease

- 20%** of CLTI patients become "no-option"¹
- >50%** of no-option patients die or require major amputation within 6 months²

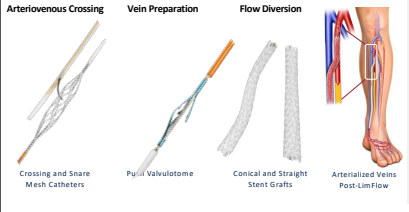


- NORMAL FOOT**
- SEVERE ISCHEMIA**
No acceptable arterial target for standard revascularization
- CHRONIC WOUNDS**
Typically do not heal without successful reperfusion

1. Kannel WB, Castelli CP, Gillin G, et al. Chronic limb-threatening ischemia in an insured national population. J Vasc Med Biol. 2007;19(1):1-6. 2. Coughlin M. Amputation rates in the United States. J Vasc Med Biol. 2007;19(1):1-6.

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TADV with the LimFlow System



LimFlow System Highlights

- **Physician Specialties:** Vascular surgery & interventional radiology / cardiology
- **Site of Service:** Primarily hospital-based peripheral interventions
- **Only On-Label Device for No-Option CLTI**
 - FDA PMA approved 2023
 - Original CE-mark 2016

1. Kannel WB, Castelli CP, Gillin G, et al. Chronic limb-threatening ischemia in an insured national population. J Vasc Med Biol. 2007;19(1):1-6.

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The Mounting Evidence

Multicenter | Prospective | Independent Review Committee for Eligibility

	PROMISE I	PROMISE UK	PROMISE II	PROMISE III	CLarITI
	Early feasibility study	UK study	US pivotal study	Post-market study	Natural progression of high-risk CLTI
Inc Criteria	Rutherford 5/6 No-option CLTI	Rutherford 5/6 No-option CLTI	Rutherford 5/6 No-option CLTI	Rutherford 5/6 No-option CLTI	Rutherford 5/6 No-option CLTI or multiple failed revascularizations
Enrollment	Complete	Complete	Follow-up ongoing	Ongoing	Complete
# of Centers	7	9	20	25	30
# of Patients	32	28	105	100	180
1st Endpoint	AFS at 6 mos.	AFS at 12 mos.	AFS at 6 mos.	AFS at 6 mos.	AFS at 12 mos.

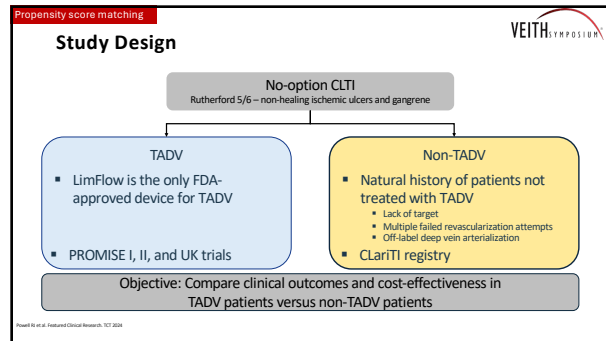
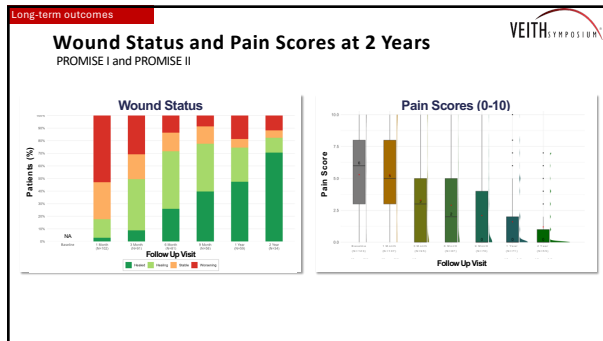
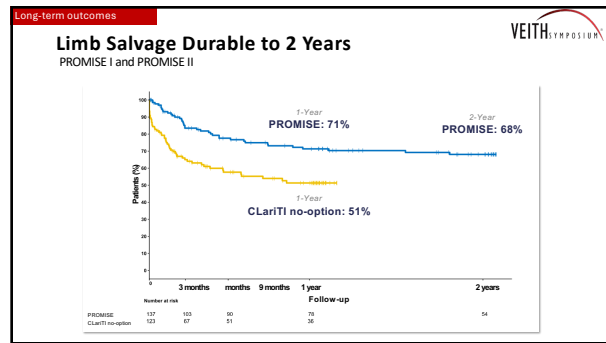
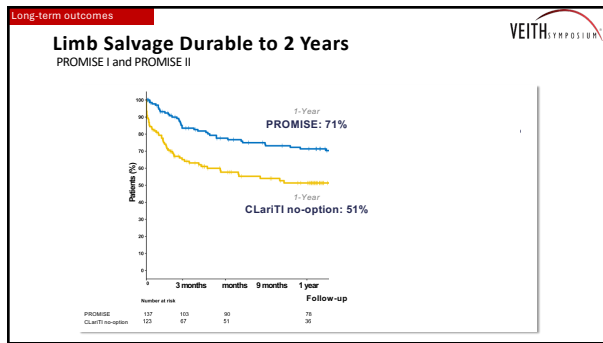
Baseline Characteristics
PROMISE I, II and UK versus CLarITI

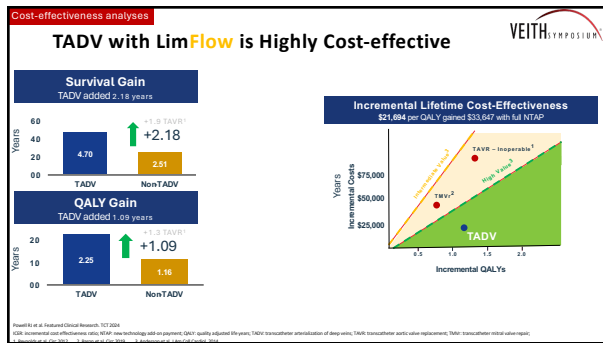
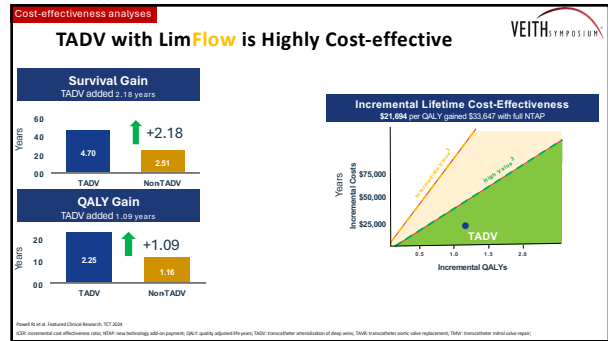
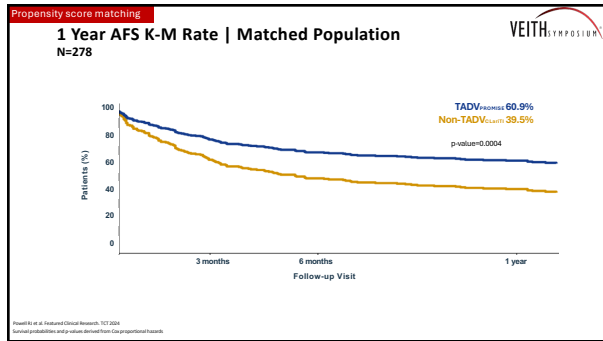
	PROMISE I N=32	PROMISE UK N=24	PROMISE II N=81	All patients N=137
Age	72.0 (59.5-82.5)	68.5 (60.5-74.0)	71.0 (65.0-76.0)	71.0 (63.0-77.0)
Male sex – no. (%)	21 (65.6%)	22 (91.7%)	57 (70.4%)	100 (73.0%)
BMI, kg/m ²	25.6 (23.4-28.9)	25.1 (22.9-28.1)	25.4 (22.3-28.2)	25.3 (22.6-28.4)
Rutherford classification				
Stage 5	28 (87.5%)	23 (95.8%)	53 (65.4%)	104 (75.9%)
Stage 6	4 (12.5%)	1 (4.2%)	28 (34.6%)	33 (24.1%)
Prior intervention in target limb	25 (78.1%)	22 (91.7%)	60 (74.1%)	107 (78.1%)
Smoking	22 (68.8%)	20 (83.3%)	36 (44.4%)	78 (56.9%)
Diabetes mellitus	22 (68.8%)	20 (83.3%)	63 (77.8%)	105 (76.6%)
Chronic kidney disease*	11 (34.4%)	2 (8.3%)	20 (24.7%)	33 (24.1%)

* Chronic kidney disease (CKD) was defined as either serum creatinine >1.50 or eGFR <30ml/min.

Clinical Outcomes
PROMISE I, II and UK versus CLarITI

Study type	PROMISE Studies ¹ Patients-level pooled data	CLarITI Registry ² Natural history of no-option CLTI
	Prospective	Prospective
Enrollment	Complete	Complete
# Patients	165	122
Countries	US and UK	US
Independent adjudication of no-option	Yes	Yes
Outcomes		
Technical success	99%	-
Wounds healed/healing – 6M/12M	80% / 83%	NR
Amputation-free survival – 6M/12M	74% / 66%	38% / 33%
Limb salvage – 6M/12M	80% / 74%	52% / 48%





Conclusions

- **Only** FDA approved device for TADV
- Procedure **reproducible and generalizable**
- TADV intervention is **high-value and cost-effective** due to the substantial clinical improvements inherent to the LimFlow procedure
- LimFlow **mentioned by name** in the 2024 Guidelines¹
- PROMISE III currently enrolling

Benefit with TADV

- AFS **+21.4%**
- Survival **+2.2 yrs**
- QALYs **+1.1 yrs**

2024 ACC/AHA/AACVPR/APMA/ABC/SCA/SVM/SVN/SVS/SR/VES/ES Guidelines for the Management of Lower Extremity Peripheral Artery Disease

1. In patients with CLI for whom arterial revascularization is not an option and a foot-to-toe to the foot is observed, venous arterialization may be considered for limb preservation ** 1,11

Source: M, et al. Vascular Clinical Research, 2024(25):242