

Update on the LUTONIX BTK Global Registry: First look at 300 patient interim follow up data

Michael K. W. Lichtenberg, MD, FESC
Westfälische Wilhelms-Universität Münster

Dierk Scheinert, M.D.
Universitätsklinikum Leipzig AÖR

Disclosure

Dierk Scheinert, MD

Advisory Board /Consultant:

Abbott, Biotronik, Boston Scientific, Cook Medical, Cordis,
CR Bard, Gardia Medical/Allium, Medtronic,
TriReme Medical, Trivascular, Upstream Peripheral
Technologies

Study Design

Study Design	Prospective, Multicenter, Single Arm Registry
Objective	To demonstrate safety and assess the clinical use and outcomes of the Lutonix DCB for treatment of stenosis or occlusion of native below-the-knee arteries in a heterogeneous patient population in real world clinical practice
Number of patients/sites	371 subjects enrolled from 26 international sites
Inclusion Criteria	Rutherford Class: 3-5, $\geq 70\%$ stenosis lesion, target vessel(s) reconstitute(s) at or above the ankle with inline flow to at least one patent
Exclusion Criteria	Neurotrophic ulcer or heel pressure ulcer or ulcer potentially involving calcaneus (index limb)
Primary Endpoints	Safety: Freedom from BTK MALE+POD at 30-days Efficacy: Freedom from TLR at 6 months
Follow-up	1, 6, 12 and 24 Months

Study Centers

PI Name	
Prof. Willfort-Ehringer	
Dr. Loewe	
Prof. Brodmann	
Prof. Hausegger	
Dr. Lerut	
Dr. Lansink	
Dr. Clemens	
Dr. Zech	
Dr. Giménez-Gaibar	
Dr. Alves	
Prof. Sapoval	
Dr. Lichtenberg – Study Co-PI	
Dr. Thieme	

PI Name	
Prof. Scheinert – Study Co-PI	
Prof. Eckstein	
Dr. Sunderdiek	
Prof. Tepe	
Dr. Perez Delgado	
Prof. Zeller	
Prof. Karnabatidis	
Prof. Brountzos	
Dr. Rossato	
Dr. Cioppa	
Dr. Tolva	
Dr. Butterfield	
Dr. Alaeddin	

Patient Follow-up

EVENT	Pre-Procedure	Procedure	Post-Procedure	30 Day	6 Month	12 Month	24 Month
Visit Window				±2 Weeks	±1 Month	±1 Month	±2 Months
Inclusion/Exclusion Criteria	√	√					
Informed Consent	√						
Medical History	√						
Routine Physical Exam	√		√	√ ¹	√	√	√ ¹
Current Medication	√			√	√	√	√
Rutherford Classification	√			√ ¹	√	√	√ ¹
Adverse Event Monitoring		√	√	√	√	√	√
Wound Healing Assessment	√			√ ¹	√	√	√ ¹

¹Required only if clinical visit occurs

Demographics / Baseline Characteristics

Description	BTK Study Registry (N=364)
Age (Years), Mean ± SD (n)	73.6 ± 9.5 (364)
Gender, % (n/N)	
Female	28.0% (102/364)
Male	72.0% (262/364)
BMI ≥30 kg/m ² , % (n/N)	23.7% (85/358)
Hypertension, % (n/N)	86.8% (316/364)
Dyslipidemia, % (n/N)	62.4% (227/364)
Current/Previous Smoker, % (n/N)	50.5% (184/364)
Diabetes	64.0% (233/364)
Rutherford Category	
3	23.7% (86/363)
4	10.5% (38/363)
5	65.8% (239/363)

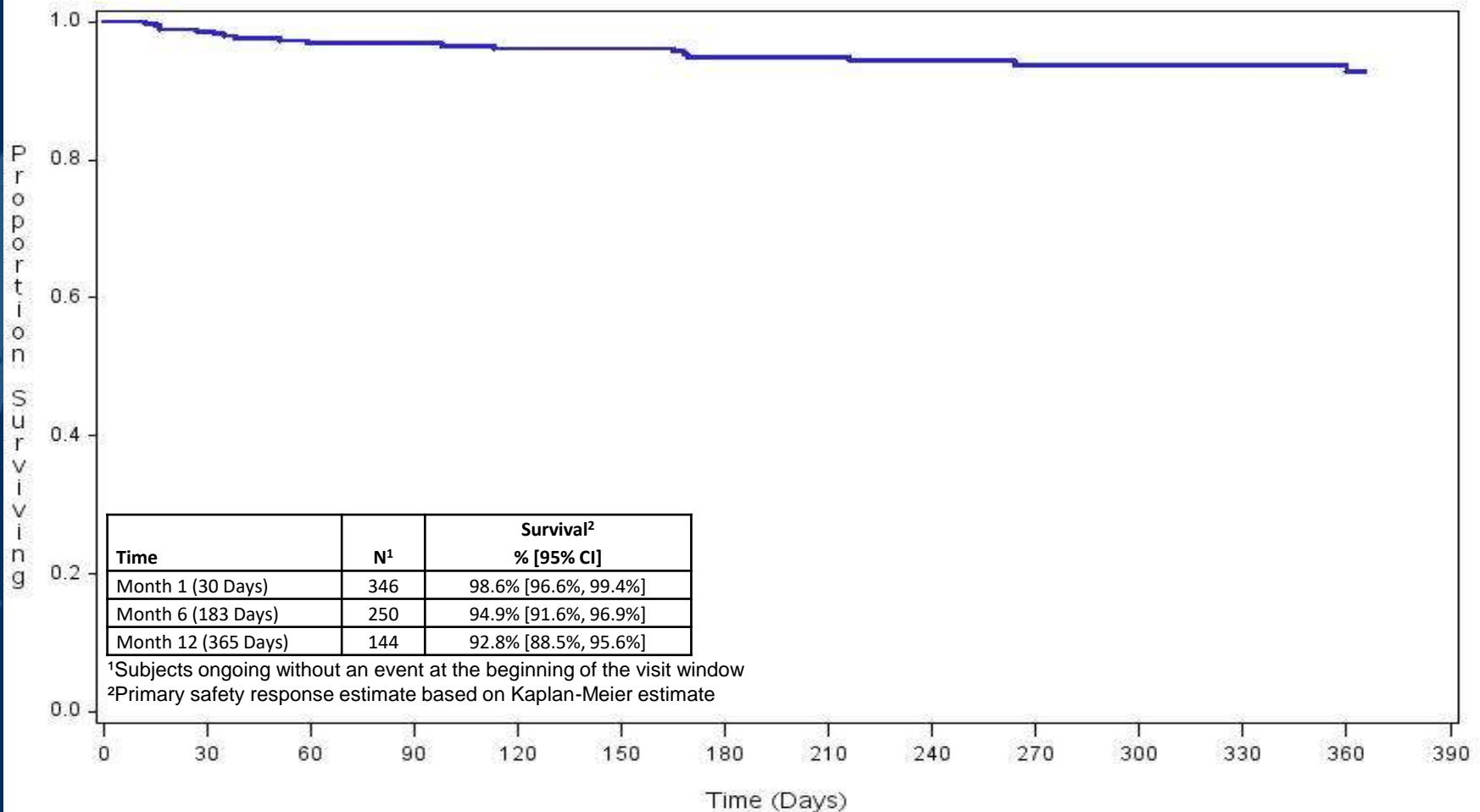
**RCC 5
65.8%
(239/363)**

Lesion Characteristics

Description	BTK Study Registry (N=364)
Lesion Location ¹ Popliteal Tibioperoneal Trunk Anterior Tibial Posterior Tibial Peroneal	 6.9% (25/364) 20.6% (75/364) 51.1% (186/364) 22.3% (81/364) 22.8% (83/364)
Total Target Length (mm), Mean ± SD (n)	121 ± 97.9 (364)
Average RVD (mm), Mean ± SD (n) (min, max)	2.7 ± 0.52 (361) (1.7, 4.5)
Calcification, % (n/N) Severe Calcification, % (n/N)	64.3% (279/434) 23.9% (83/348)
TASC A B C D Unknown	 25.3% (92/363) 26.2% (95/363) 16.8% (61/363) 14.3% (52/363) 17.4% (63/363)

¹Subjects may be in more than one category.

Freedom from Primary Safety Events



Freedom at 30-Days from the composite of all-cause death, above-ankle amputation or major re-intervention, i.e., new bypass graft, jump/interposition graft revision, or thrombectomy/thrombolysis of the index limb involving a below-the-knee artery.

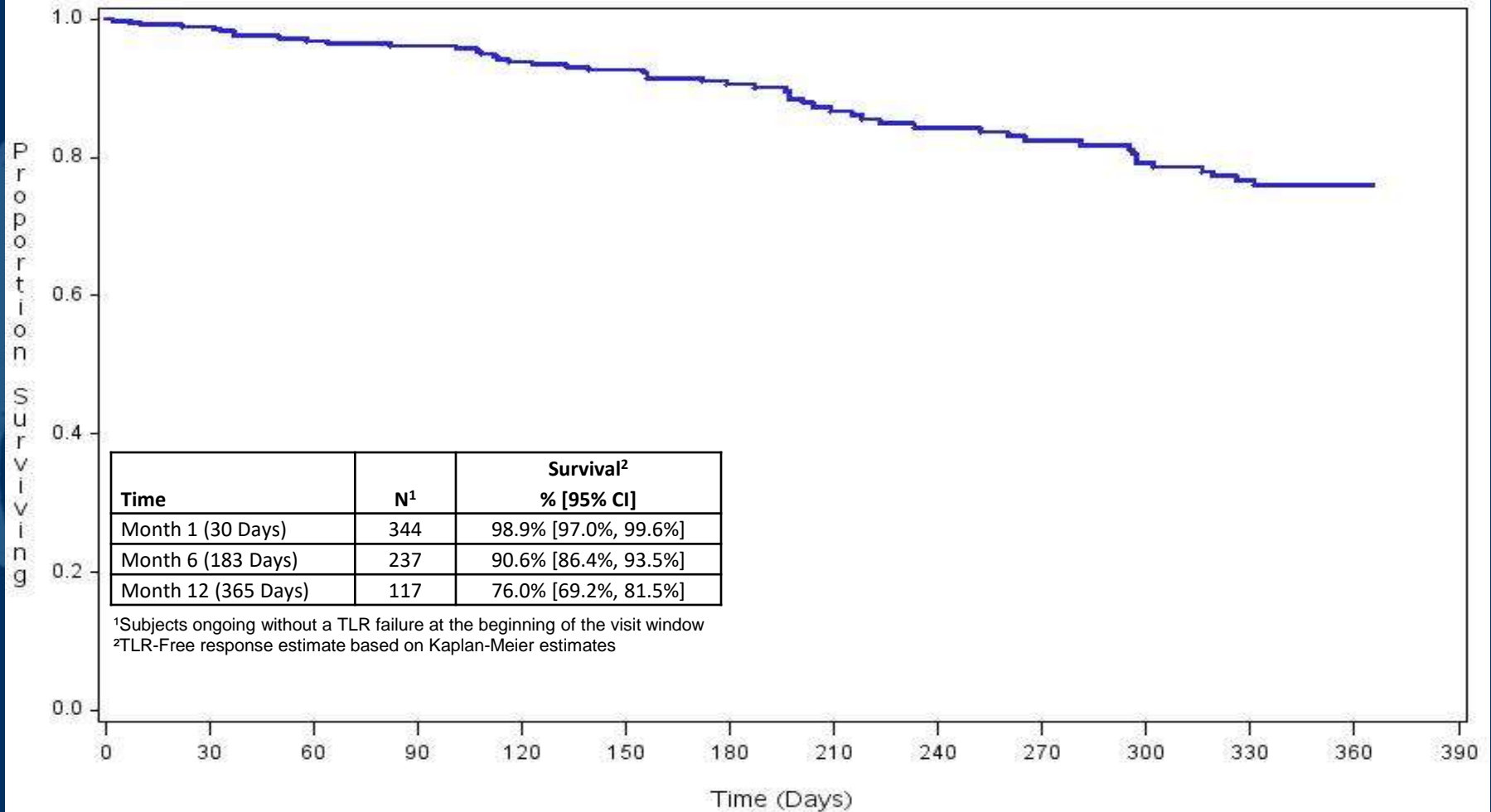
Additional Safety Profile - 12 months

Freedom From	N ¹	Survival ² % [95% CI]
All Cause Death Survival	150	86.5% [81.2%, 90.4%]
Major Amputation	145	94.8% [91.0%, 97.0%]
Re-inte	Amputation free rate – 94.8%	
Re-intervention For Distal Embolization	150	100.0% [NA, NA]
TVR	117	75.0% [68.1%, 80.6%]
Unexpected Device or Drug Related Event	150	99.6% [97.2%, 99.9%]

¹Subjects ongoing without a failure at the beginning of the visit window

²Survivor rate based on Kaplan-Meier Estimate

Freedom from TLR



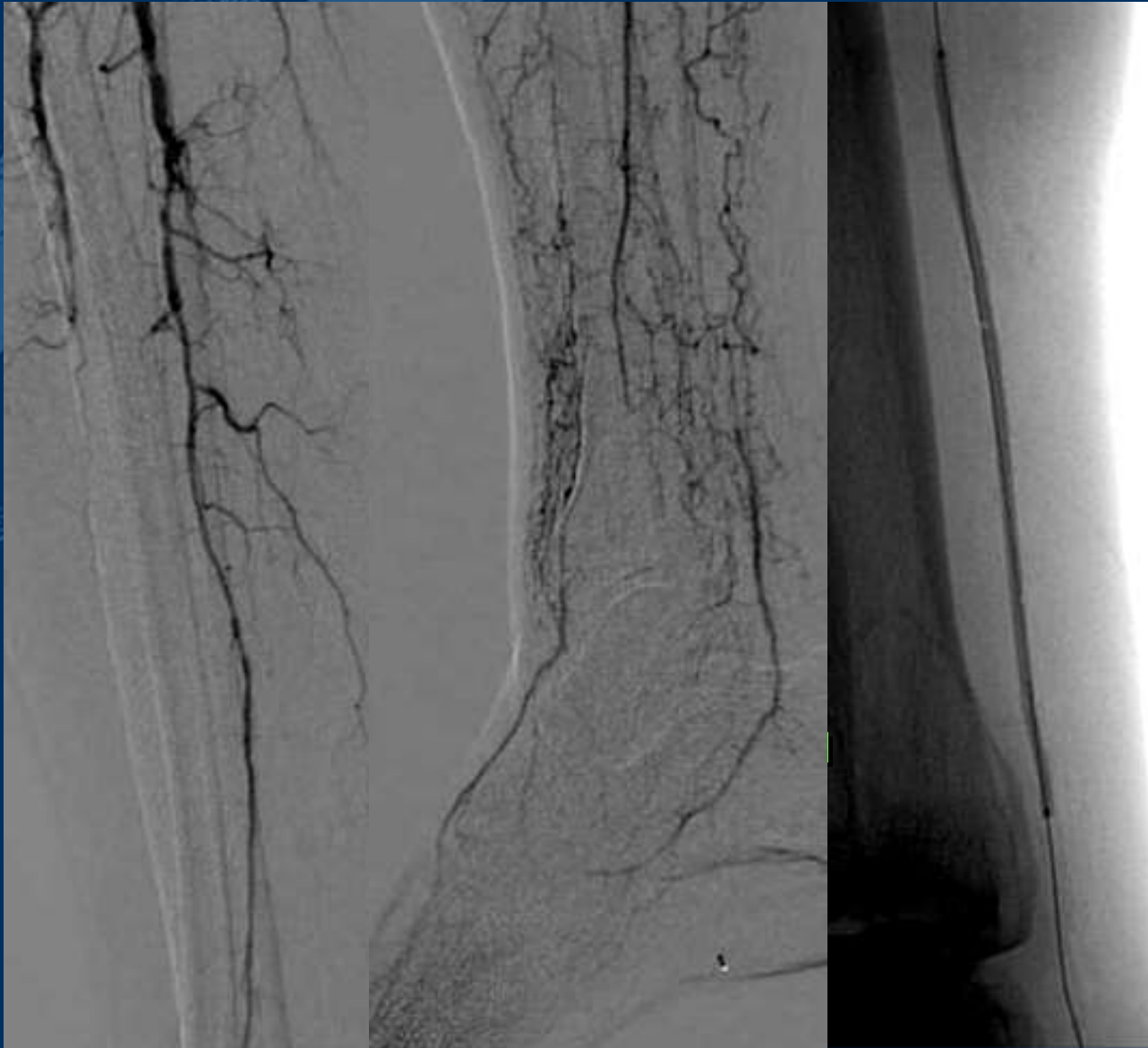
Rutherford Category Shift – 12 Month

Description	BTK Study Registry (N=144)
Improved by 5 Levels	22.6% (31/144)
Improved by 4 Levels	11.1% (16/144)
Improved by 3 Levels	11.1% (16/144)
Improved by 2 Levels	11.1% (16/144)
Improved by 1 Level	11.1% (16/144)
No Change	11.1% (16/144)
Worsened by 1 Levels	2.8% (4/144)

77% Improved by ≥ 1 RCC

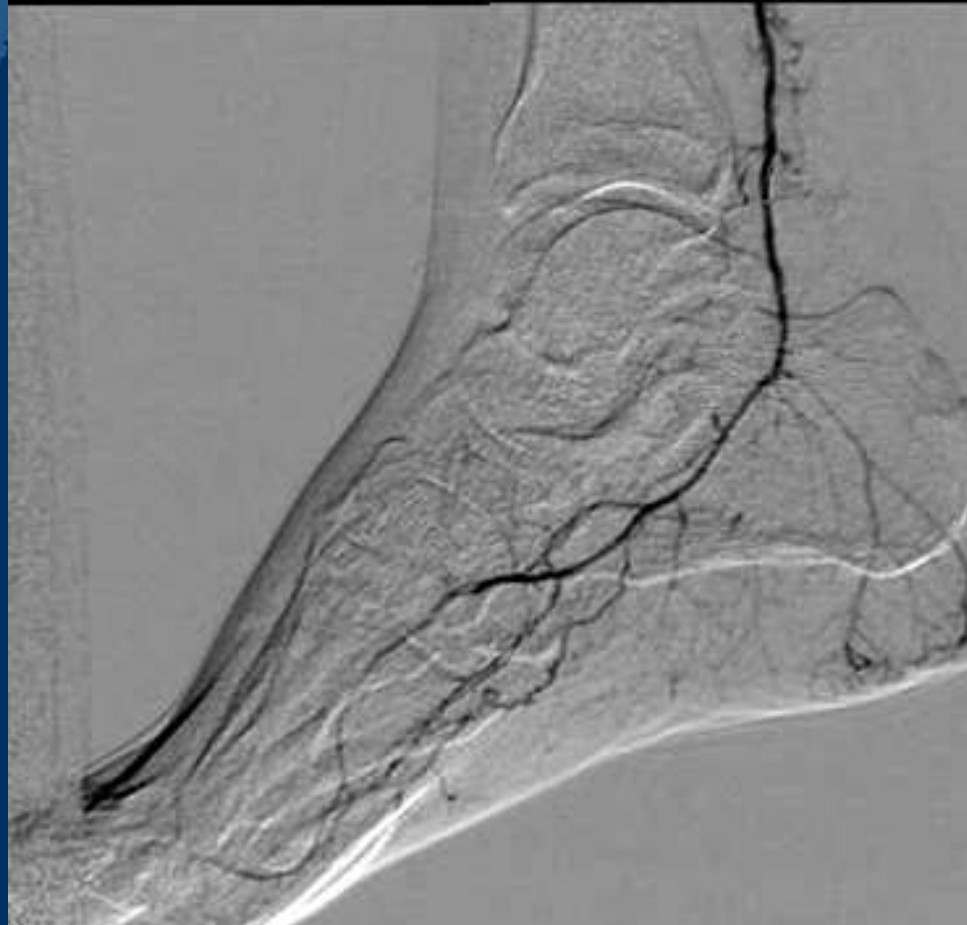
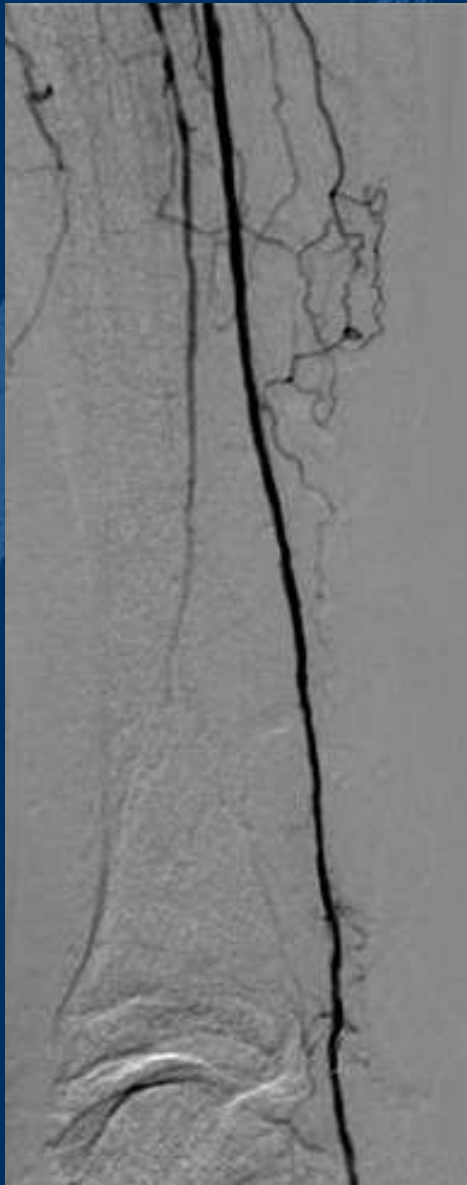
60% Improved by ≥ 3 RCC

Male, 74, Diabetes, CKI, Diabetets



Case performed by Dr. Lichtenberg, Klinikum Arnsberg

After Lutonix DCB 2.5 x 120 mm



Case performed by Dr. Lichtenberg, Klinikum Arnsberg

12 Month Conclusions

- Only BTK Registry Multi Center On-going Study
- Promising Treatment Effect in Below-the-Knee Arteries
- Safety Consistent with the Strong Safety Profile of the Lutonix DCB in PAD
- Freedom from TLR 76.0% at 12 months
- Low Amputation Rate – 5.2% at 12 months
- ~60% Improvement by ≥ 3 Rutherford Classifications at 12 months
- **ZERO** Re-interventions for Distal Embolization at 12 months

Update on the LUTONIX BTK Global Registry: First look at 300 patient interim follow up data

Michael K. W. Lichtenberg, MD, FESC
Westfälische Wilhelms-Universität Münster

Dierk Scheinert, M.D.
Universitätsklinikum Leipzig AÖR