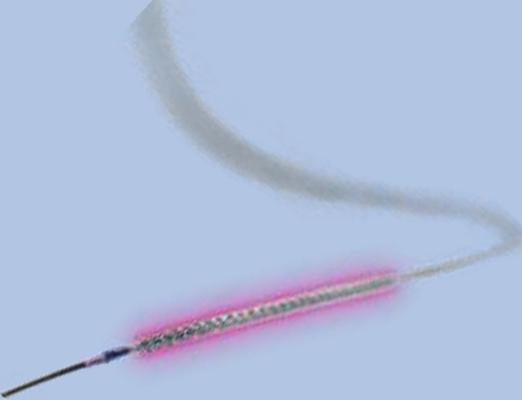


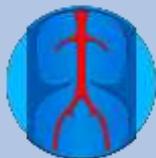
The logo consists of three curved, brush-stroke-like shapes in dark blue, red, and yellow, with the letters 'LINC' in white capital letters overlaid on the top left.

LINC

A medical catheter with a long, thin, flexible shaft and a pink, textured balloon at the tip.

6-month results of real-life use of the latest generation of balloon expandable DES in below-the-knee treatment

(Angiolite BTK DES, IVascular)



**P. Goverde MD, K. Taeymans MD,
K. Lauwers MD**
*Vascular Clinic ZNA
Antwerp, Belgium*

Disclosure

Speaker's name: Peter Goverde

- **I have the following** potential conflicts of interest to report:

Grant/Research Support/Consulting Fees/Honoraria:

Abbott Vascular; Angioslide; Bard Peripheral Vascular; Bentley; B Braun endovascular; Cardionovum; Cordis Cardinal Health; CTI; IMDS; Ivascular; Getinge group; Stille; Ziehm Imaging

Major goal : prevention



Endo treatment strategy BTK



Successful recanalization

long diffuse

short focal / Medium

POBA

DCB ?

DES

Recoil/dissection/
intraluminal calcification

Mission accomplished

Re-POBA

Bail out stenting BTK SX stent
+ prior DCB ?

Recoil/dissection

Angiolite BTK safety and feasibility study

- **Safety & feasibility study with Ivascular Angiolite BX DES as bail out in BTK procedures**
- **Start Aug 2016**
- **Single center, physician initiated, prospective, real-life nonRCT**
- **N= 50 patients**
- **Rutherford-Becker : 4-5-6**

Angiolite BTK safety and feasibility study

A. Primary Endpoint

1. Safety & feasibility using IVascular Angiolite BX DES in BTK bail out procedures
2. Absence of clinically driven target lesion revascularization @ 12 months.

B. Secondary Endpoints (1/2)

1. **Technical success** defined as a successful access and deployment of the device and determined by less than 30 % residual stenosis by angiography at the baseline procedure.
2. **Clinical success** defined as technical success without the occurrence of serious adverse events during procedure

Angiolite BTK safety and feasibility study

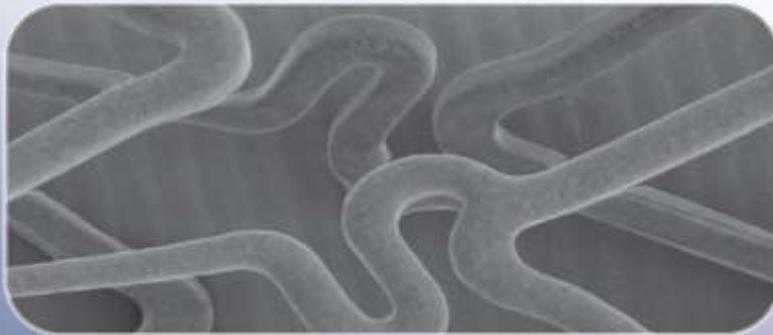
B. Secondary Endpoints (2/2)

3. **Primary and secondary patency** rate (if duplex ultrasound available) defined as < 50 % diameter reduction and peak systolic velocity < 2.4 at 12 months
4. **Ankle-Brachial Index improvement** of ≥ 0.1 (ABI before procedure compared with ABI at 1,6,9 & 12 months).
5. **Clinically driven Target Vessel Revascularization** at 6, 9 and 12 months.
6. **Major complications** at 6,9 and 12 months, including amputation of a part of the foot, the leg below and above the knee.
7. **The Rutherford-Becker classification** of chronic limb ischemia at 1, 6, 9 and 12 months post procedure.

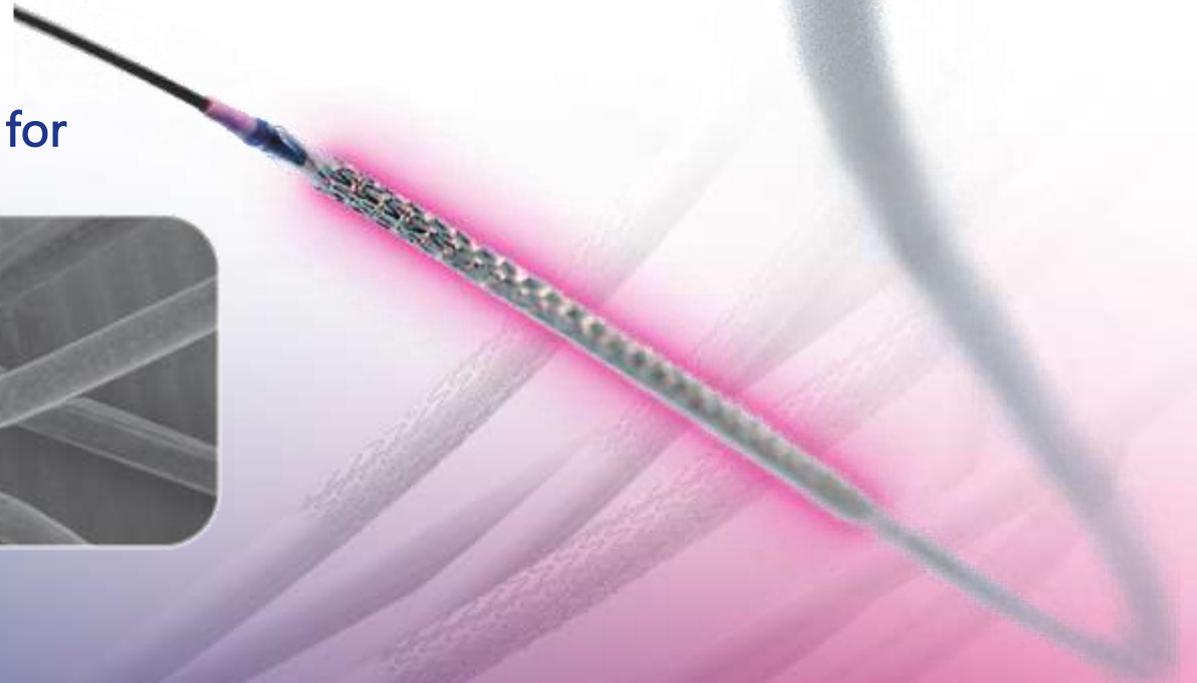
angiolite

Sirolimus eluting stent

Exclusive stent design for
DES



TransferWise



STENT CHARACTERISTICS

STENT MATERIAL	CoCr L605
WALL THICKNESS	75 microns for stent 2 to 2.5mm 80 microns for stent 2.75 to 3.5mm 85 microns for stent 4 to 4.5mm
% RECOIL	< 5%
% FORESHORTENING	< 3%
% SURFACE IN CONTACT WITH ARTERY	10-20%
VESSEL CONFORMABILITY	High

DRUG COATING FEATURES

DRUG	Sirolimus
DRUG DOSE	1,4 $\mu\text{g}/\text{mm}^2$
POLYMER	Biostable

Angiolite BTK safety and feasibility study

Baseline Patient Demographics : n = 50

Male Gender	35
Mean Age	71.1
Mean BMI	31.7
Nicotine abuse (present&past) (%)	88
Hypertension (%)	84
Hypercholesterolemia (%)	56
Diabetes (type 1=2) (%)	72
Vascular History (%)	48
Recurrent disease (%)	34
Coronary History (%)	58
Cerebrovascular History (%)	22
Renal insufficiency (%)	58

Angiolite BTK safety and feasibility study

Rutherford Becker

4	18
5	23
6	9

LESION LOCATION

N = 64

Tibioperoneal Trunc	24
Anterior Tibial Artery	16
Peroneal Artery	15
Posterior Tibial Artery	9

Angiolite BTK safety and feasibility study : ABI

Grade	ABI	Ankle systolic pressure	N
0	>0.80	>100 mm Hg	0
1	0.6-0.79	70-100 mm Hg	6
2	0.4-0.59	50-70 mm Hg	11
3	<0.39	<50 mm Hg	33

(Wifi) (J Vasc Surg 2014;59:220-34.)

Angiolite BTK safety and feasibility study

Procedure (1/3)	
Vessel preparation	
Predilatation/balloonangioplasty	49
Primary stenting	15
Mean lesion length	51.45 mm
Reference vessel diameter	3.43 mm
Mean stenosis before treatment	93.43 %
Number of occlusions	52%
Presence Moderate to heavy calcifications	78%
Use of Drug Coated Balloon (mainly for distal vessel treatment)	34%

Angiolite BTK safety and feasibility study

Procedure (2/3)	
Stents used	68
Tibioperoneal trunc	24
Anterior Tibial artery	18
Peroneal Artery	15
Posterior Tibial Artery	11
Mean stent diameter	3.32 mm
Mean stent length	32.1 mm
Number stents / patient	1,36
1	34
2	14
3	2

Angiolite BTK safety and feasibility study

Procedure (3/3)	N
Access site	
ipsilateral	43
cross-over	7
Mean residual stenosis at end of procedure (%)	18.5%
Mean Heparine (IU)	6250IU
Mean contrast	94.5 ml
Patients + CO² angio	26
Access hemostasis closure device	47/50
Technical success (<30% diameter residual Stenosis)	100

Angiolite BTK safety and feasibility study

- **Post procedure :**
 - aspirin (for life) + clopidogrel (min 6 mo)
 - Anticoagulation or NOAC + clopidogrel (6 mo)
- **Follow-up :**
 - 1,3,6,9,12 (18,24, 36) months ultrasound
 - 2-14months
- **Death : 3**
 - D41 : AMI
 - D87 : sepsis/MOF
 - D135 : cardiovascular

•

Angiolite BTK safety and feasibility study: wound follow-up

1) PEDIS Classification

Definition

The **PEDIS classification** is a faceted classification that provides a taxonomy for classifying lesions in patients with diabetic foot syndrome.

Every lesion is described according to the following scheme:

- **Perfusion**
 - Grade 1: no symptoms/signs of PAD
 - Grade 2: symptoms or signs of PAD, but not CLI
 - Grade 3: CLI
- **Extent/size (cm²)**
- **Depth/tissue loss**
 - Grade 1: Superficial full-thickness ulcer
 - Grade 2: Ulcer penetrating below dermis to skin structures
 - Grade 3: All subsequent layers of foot, including bone/joint

Angiolite BTK safety and feasibility study: wound follow-up

PEDIS Classification

- **Infection**
 - **Grade 1: no symptoms/signs**
 - **Grade 2: Inflammation of skin/sc only**
 - **Grade 3: Extensive erythema deeper than skin/sc**
 - **Grade 4: Systemic inflammatory response syndrome (SIRS)**
- **Sensation**
 - **Grade 1: No loss of protective sensation**
 - **Grade 2: Loss of protective sensation**

Example: P2E1D2I1S2.

Angiolite BTK safety and feasibility study: wound follow-up : 30 days

PEDIS Classification

- **PEDIS Pre-intervention :**

- **P: 3 E: 5.2 D: 2.41 I: 2.63 S: 1.73**

- **PEDIS 30 days** ↓ :

- **P: 1.37 E: 2.13 D: 1.32 I: 0.83 S: 0.49**

Angiolite BTK safety and feasibility study: wound follow-up

The Society for Vascular Surgery Lower Extremity Threatened Limb Classification System: Risk stratification based on Wound, Ischemia, and foot Infection (WIFI) (J Vasc Surg 2014;59:220-34.)

	Grade	Pre-intervention	30 days
<u>W</u> ound	0-1-2-3	1.2	0.66
<u>I</u> schemia	0-1-2-3	2.54	1.12
<u>F</u> oot <u>I</u> nfection	0-1-2-3	1.22	0.23

Angiolite BTK safety and feasibility study

(preliminary %)

	30 days	6 Mo	9 Mo	12 Mo	18 Mo
Primary Patency	100 %	88%			
Secunadary Patency	100 %	96%			
Freedom TLR	100 %	94%			
Freedom of major amputation	98 %	94%			
Freedom Minor amputation	77.6%	72 %			

Vacuum therapy

▶ After 2 weeks



▶ After 5 weeks



▶ **After 7 weeks**



Conclusions

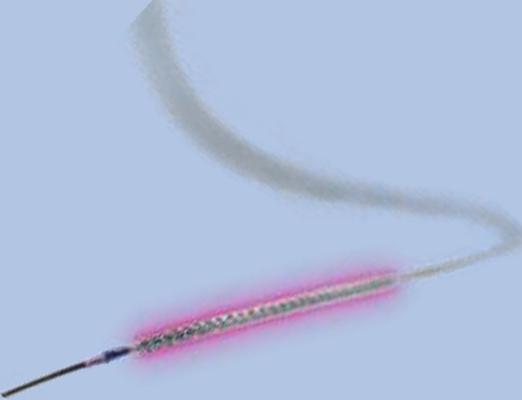
- Use of Angiolite BTK is safe and feasible
- Follow-up needs to confirm advantages
- Positive effect on revascularization/wound healing
- Further follow-up is needed



**Thank You for your
attention**

The logo consists of three curved, brush-stroke-like shapes in dark blue, red, and yellow, with the letters 'LINC' in white capital letters overlaid on the top left.

LINC

A medical catheter with a long, thin, flexible shaft and a pink, textured balloon at the tip.

6-month results of real-life use of the latest generation of balloon expandable DES in below-the-knee treatment

(Angiolite BTK DES, IVascular)



**P. Goverde MD, K. Taeymans MD,
K. Lauwers MD**
*Vascular Clinic ZNA
Antwerp, Belgium*