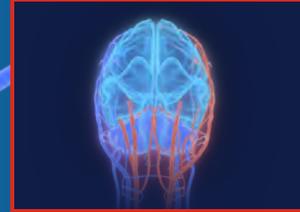
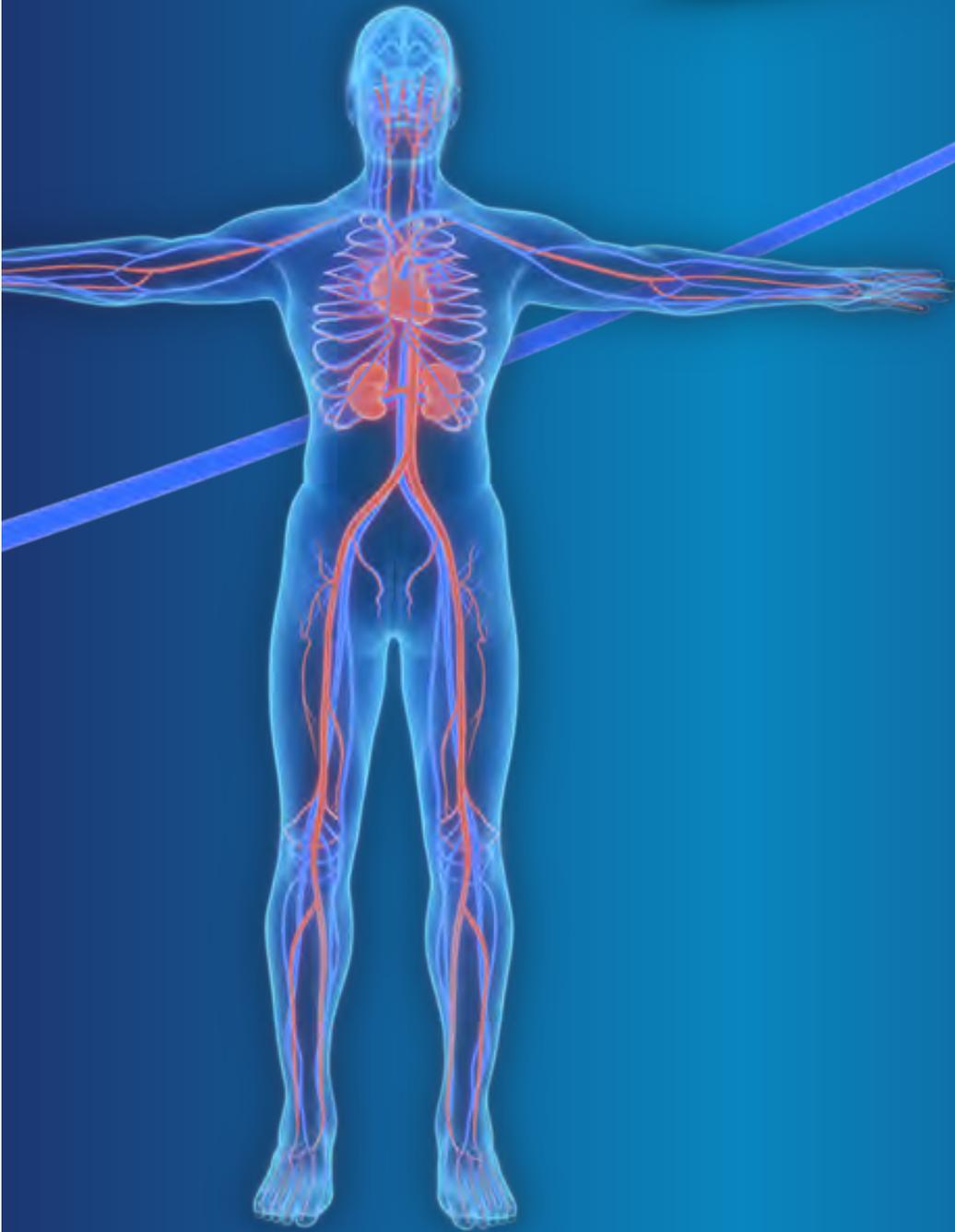
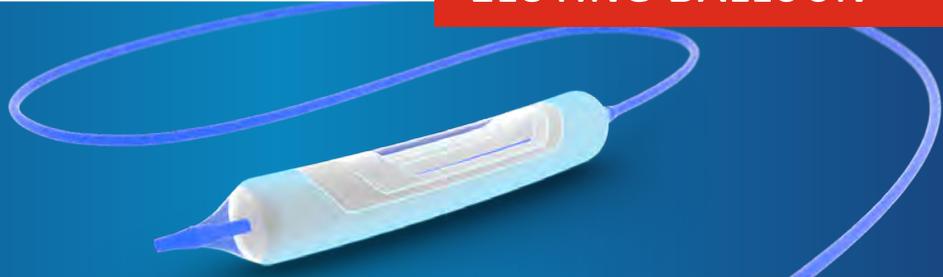
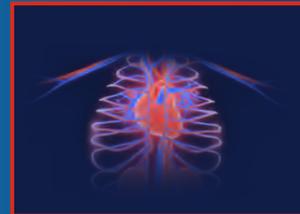


ELUTAX SV

THE INTELLIGENT DRUG
ELUTING BALLOON



NEURO



CORONARY



DIALYSIS



CENTRAL



PERIPHERAL

THE DRUG ELUTING BALLOON COMPANY





THE DRUG ELUTING BALLOON COMPANY

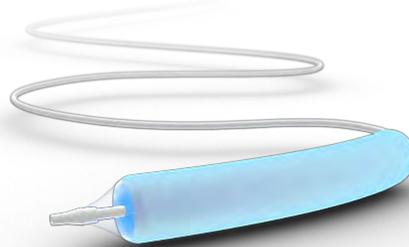
Aachen Resonance was among the first companies, which developed Drug eluting Balloons.

ELUTAX SV our third generation Balloon is the first of its kind to enable a long term Drug release over months - with only one single inflation.

The especially developed release system offers a sustained Drug persistence at the lesion and is the key for healing.

The versatile drug coating enables us to coat different catheter platforms, therefore we are actually the only company, which offers a range of Drug eluting Balloons with a diameter of 1.5 mm to 14 mm and a length of 1 cm to 25 cm.

The particular homogeneous coating is one of many other reasons why the product can be used in the different vascular territories: arterial as well as venous; peripheral as well as central, and especially in the supra-aortic territories.





Scan QR-CODE for
Introduction-Movie

TECHNOLOGY BACKGROUND

Balloon platform: Catheter produced by Aachen Resonance.

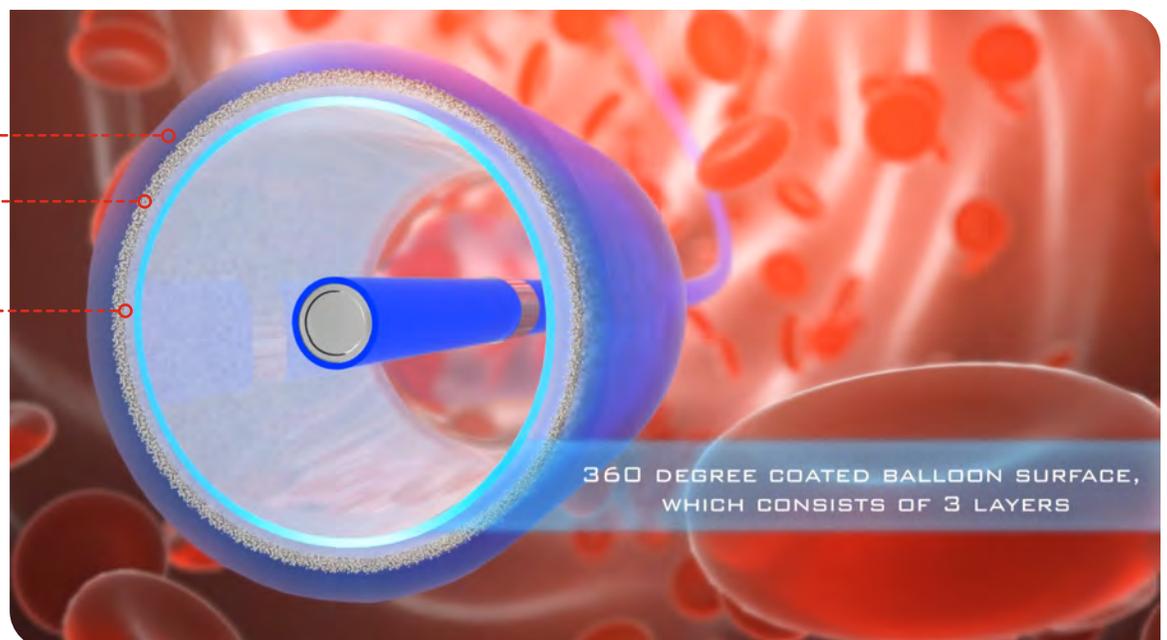
Sizes: length from 1 cm to 25 cm, diameter from 1,5 to 14 mm

Profile all sizes less than 1 mm, also after drug loading folding, because of profile reduction - "Cut back - technology"

Multi Purpose Drug Matrix

- Homogenous coating
- Even and Consistent coating of inflated Balloons
- Drug Matrix (three layers SNOW, ICE and SEAL)
- Balloon with 360 Degree coating coverage
- Minimal Drug lost during passage in the body
- Minimal Drug lost from the balloon surface during maneuver or inflation
- Reliable quantitative Drug deposition into the vessel wall
- Target Release Modus (TRM) - Drug is released only at minimum 4 bar inflation and contact to vessel wall
- Sustained Value (SV) EFFECT -Drug concentration in the vessel wall (intima, media, adventitia) for several weeks
- No Drug "Chunk" spreading - during inflation

SEAL layer
SNOW layer
of Paclitaxel
(Drug Depot)
ICE layer
of Paclitaxel
(Elastic Stable Base)



DRUG MATRIX



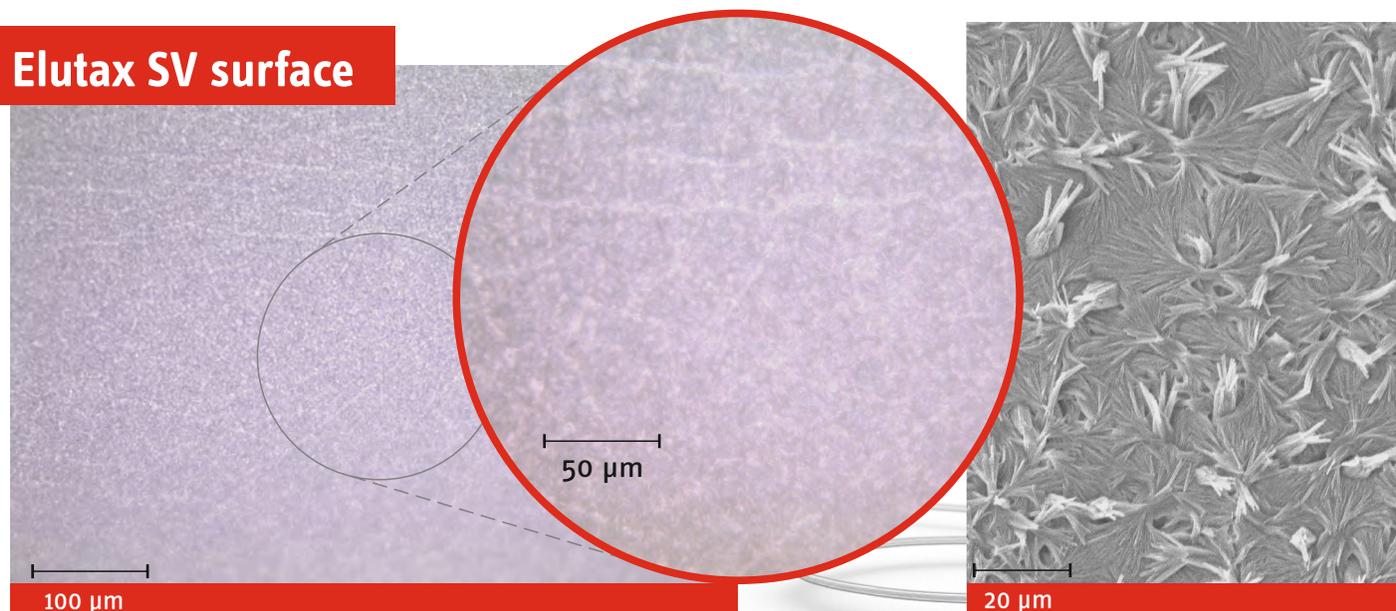
1. Seals the drug at the vessel
 2. Therapeutic action time is longer
- + Better mechanical stability
 - + Anti thrombogenic
 - + Lesion protection
 - + Reservoir Matrix
 - + Local stability
 - + Lowest wash off after deposition

“CONTROLLED HEALING OVER MONTHS”

Paclitaxel Tissue levels of different Drug eluting Balloons over 30 days

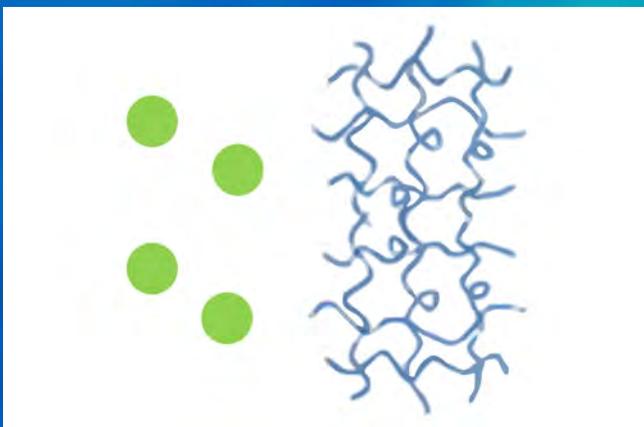
Coronary PORCINE	Elutax SV	Competitor A	Competitor B
uniform coating	yes	no	no
360 degree	yes	no	no
Drug Dose 1 hour	~ 250 $\mu\text{mol/ml}$	~ 200 $\mu\text{mol/ml}$	~ 200 $\mu\text{mol/ml}$
Drug Dose 7 days	~ 70 $\mu\text{mol/ml}$	~ 0 $\mu\text{mol/ml}$	~ 10 $\mu\text{mol/ml}$
Drug Dose 30 days	~5-10 $\mu\text{mol/ml}$	~0 $\mu\text{mol/ml}$	~0,1 $\mu\text{mol/ml}$
Drug lost during maneuver	max 5%	high	up to 30% every 10 sec.

Elutax SV surface



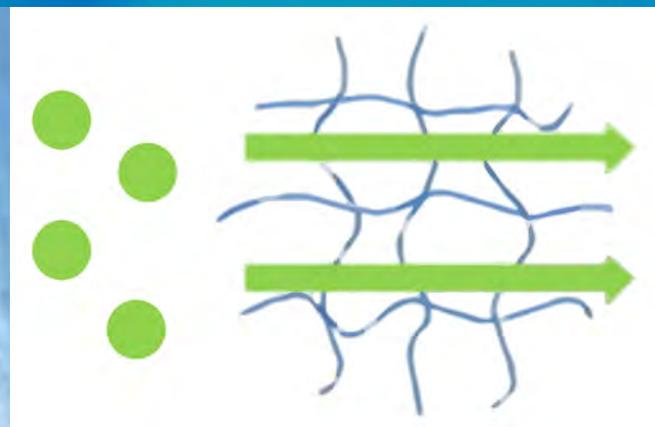
SUSTAINED VALUE

PRINCIPLE OF DRUG MAINTENANCE IN THE VESSEL WALL



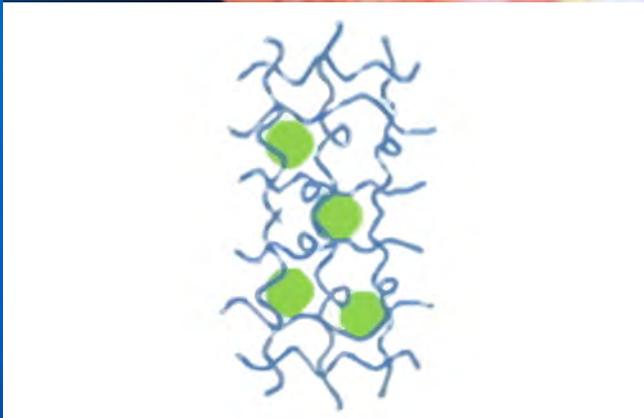
FOLDED BALLON

Paclitaxel Layer protected by Seal Layer

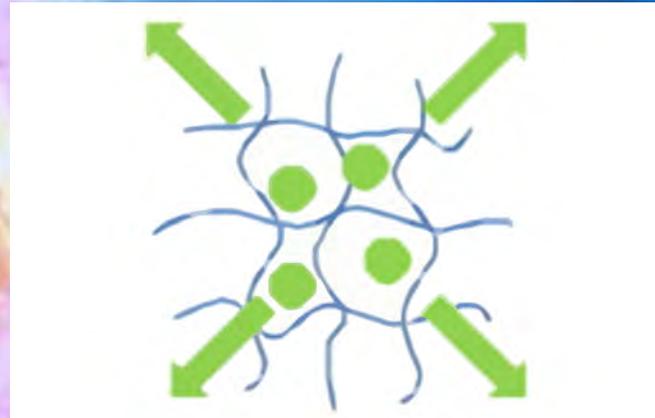


INFLATION

Paclitaxel Layer is pressed into Seal Layer



Paclitaxel trapped in Seal Layer remains attached against vessel wall



Paclitaxel Long-term diffusion out off Seal Layer

DUE to the Seal Layer Elutax SV ensures highest drug tissue levels 60 days from the usage

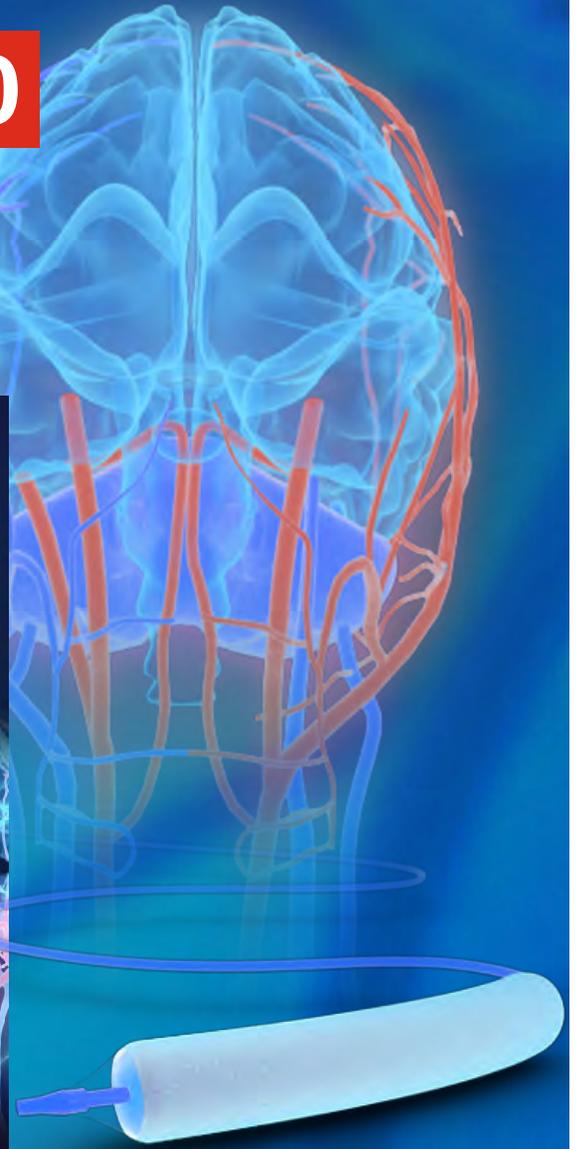
ELUTAX SV

SUPRA AORTIC NEURO

THE ONLY DRUG ELUTING BALLOON CERTIFIED FOR THE TREATMENT OF SUPRA-AORTIC LESIONS.

NEURO

Purpose:	Supraaortic lesions
Lesion location (if not too tortuous):	carotid a., vertebral a., basilar a., middle cerebral a. (M1)
Tip:	flexible, soft, 0,017"
MAX Catheter profile:	less than 1 mm
Catheter design:	Rx
Catheter material:	Pebax /Nylon
Usable catheter length:	Minimum 144 cm
GW length:	Recommended 180-250 cm
Max. recommended GW:	0,014"
Introducer sheath compatibility:	4F
Guiding catheter compatibility:	Minimum 5F - recommended 6 F
Balloon characteristic:	semi compliant
Balloon nominal diameter:	1,5-4,0 mm
Balloon nominal length:	10-30 mm
Balloon coating:	3 layers
Nr. of folds:	3
Crossing profile:	less than 1mm
Inflation time minimal:	10 sec
Inflation time recommended:	15-30 sec
Nominal pressure:	6 atm
RBP:	14 atm
Need of predilatation:	NO



NEURO

length						
mm	10	13	15	20	25	30
1.50	10150	13150	15150	20150	25150	30150
2.00	10200	13200	15200	20200	25200	30200
2.25	10225	13225	15225	20225	25225	30225
2.50	10250	13250	15250	20250	25250	30250
2.75	10275	13275	15275	20275	25275	30275
3.00	10300	13300	15300	20300	25300	30300
3.25	10325	13325	15325	20325	25325	30325
3.50	10350	13350	15350	20350	25350	30350
3.75	10375	13375	15375	20375	25375	30375
4.00	10400	13400	15400	20400	25400	30400

diameter

ORDER-CODE: N-ELUTAXSV-XXXXX

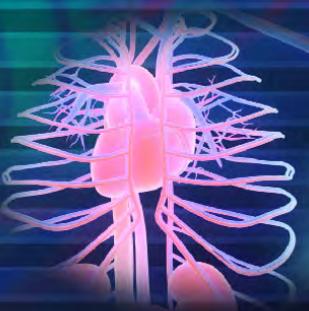
ELUTAX SV

CORONARY

THE DRUG ELUTING BALLOON TO REACH COMPLEX LESIONS

CORONARY RX

Purpose:	coronary
Lesion location:	coronary
Tip:	flexible, soft, 0,017"
Catheter profile:	Less than 1,0 mm
Catheter design:	RX
Catheter material:	Nylon
Usable catheter length:	Minimum 135 cm
GW length:	Recommended > 180 cm
recommended GW:	0,014"
Introducer sheath compatibility:	4F
Guiding catheter compatibility:	Minimum 5F
Balloon characteristic:	semi compliant
Balloon nominal diameter:	1,5-6,0 mm
Balloon nominal length:	10-250 mm
Balloon coating:	3 layers
Nr. of folds:	3
Crossing profile:	less than 1 mm
Inflation time minimal:	10 sec
Inflation time recommended:	30 sec
Nominal pressure:	6 atm
RBP:	14 atm
Need of predilatation:	NO



The hydrophilic SEAL LAYER improves the balloon lubricity and allows to reach the distal lesions without LOSING ITS EFFICACY

CORONARY RX

length mm	length							diameter
	10	13	15	20	25	30	40	
1.50	10150	3150	15150	20150	25150	30150		
2.00	10200	13200	15200	20200	25200	30200	40200	
2.25	10225	13225	15225	20225	25225	30225	40225	
2.50	10250	13250	15250	20250	25250	30250	40250	
2.75	10275	13275	15275	20275	25275	30275		
3.00	10300	13300	15300	20300	25300	30300	40300	
3.50	10350	13350	15350	20350	25350	30350	40350	
4.00	10400	13400	15400	20350	25400	30400	40400	

ORDER-CODE: ELUTAXSV-XXXXX

ELUTAX SV

DIALYSIS

HIGH PRESSURE CAPABILITIES
AND SHORT SHAFT GIVES YOU
SAFETY AND COMFORT

FISTULA OTW

Purpose:	Fistula treatment
Lesion location (if not too tortuous):	Dialysis: AV Fistula
Tip:	flexible, soft, 0,017"
MAX Catheter profile:	Less than 1,1 mm
Catheter design:	OTW
Catheter material:	Nylon
Usable catheter length:	Max 50 cm
GW length:	Recommended > 110 cm
Max. recommended GW:	0,014" (GW 0,018" may be used in special indication)
Introducer sheath compatibility:	min. 4F for 5mm and 5F 6-7mm - recommended 5F
Balloon characteristic:	semi compliant
Balloon nominal diameter:	4,0 - 7,0 mm
Balloon nominal length:	20-40-60 mm
Balloon coating:	3 layers
Nr. of folds:	3
Crossing profile:	less than 1,1 mm
Inflation time minimal:	10 sec
Inflation time recommended:	30 sec
Nominal pressure:	6 atm
RBP:	18 atm
Need of predilatation:	NO



HIGH PRESSURE DRUG
ELUTING BALLOON

DIALYSIS

length			
mm	20	40	60
4.00	20400	40400	60400
5.00	20500	40500	60500
6.00	20600	40600	60600
7.00	20700	40700	60700

diameter

ORDER-CODE: ELUTAXSV-OTWS-XXXXX

ELUTAX SV

CENTRAL

CENTRAL

Purpose:	Central lesions: large arteries and veins
Lesion location:	aorta, v. cava, iliac, subclavian, jugular, axillaris, femoralls
Tip:	flexible, soft
Catheter profile:	less than 1,3 mm
Catheter design:	OTW
Catheter material:	Pebax /Nylon
Usable catheter length:	Ø 7-8mm: 130 cm; Ø 10-14mm: 100 cm
GW length:	Recommended 280 cm
Max. recommended GW:	Ø 7-8mm: 0,018"; Ø 10-14mm: 0,035"
Introducer sheath compatibility:	Ø 7-8mm: 5 F; Ø 10-14mm: 6 F"
Guiding catheter compatibility:	Sizes depending recommended 7 F or more
Balloon characteristic:	Semi compliant
Balloon nominal diameter:	7, 8, 10, 12,14 mm
Balloon nominal length:	20, 40, 60, 80 mm
Balloon coating:	3 layers
Nr. of folds:	3
Crossing profile:	Less than 1 mm
Inflation time minimal:	10 sec
Inflation time recommended:	15-30 sec
Nominal pressure:	6 atm
RBP:	12 atm
Need of predilatation:	NO



NOW IT IS POSSIBLE TO TREAT
LARGE VESSELS WITH DEB

CENTRAL

length				
mm	20	40	60	80
7.00	20700	40700	60700	80700
8.00	20800	40800	60800	80800
10.00	201000	401000	601000	801000
12.00	201200	401200	601200	801200
14.00	201400	401400	601400	801400

diameter

ORDER-CODE: ELUTAXSV-OTW-XXXXX

ELUTAX SV

PERIPHERAL OTW

THE DRUG ELUTING BALLOON TO REACH COMPLEX LESIONS

PERIPHERAL OTW

Purpose:	Peripheral lesions
Lesion location (if not too tortuous):	femoral a., popliteal a., BTK. aa, plantar
Tip:	flexible, soft, 0,017"
MAX Catheter profile:	Less than 1,1 mm
Catheter design:	OTW
Catheter material:	Nylon
Usable catheter length:	Minimum 135cm
GW length:	Recommended > 280 cm
Max. recommended GW:	0,014" (GW 0,018" may be used in special indication)
Introducer sheath compatibility:	4F
Guiding catheter compatibility:	Minimum 5F
Balloon characteristic:	semi compliant
Balloon nominal diameter:	1,5-6,0 mm
Balloon nominal length:	10-250 mm
Balloon coating:	3 layers
Nr. of folds:	3
Crossing profile:	less than 1,1 mm
Inflation time minimal:	10 sec
Inflation time recommended:	30 sec
Nominal pressure:	6 atm



PERIPHERAL OTW

length													
mm	10	13	15	20	25	30	40	60	80	100	150	200	250
1.50	10150	3150	15150	20150	25150	30150							
2.00	10200	13200	15200	20200	25200	30200	40200	60200	80200	100200	150200	200200	250200
2.25	10225	13225	15225	20225	25225	30225	40225						
2.50	10250	13250	15250	20250	25250	30250	40250	60250	80250	100250	150250	200250	250250
2.75	10275	13275	15275	20275	25275	30275							
3.00	10300	13300	15300	20300	25300	30300	40300	60300	80300	100300	150300	200300	250300
3.50	10350	13350	15350	20350	25350	30350	40350	60350	80350	100350	150350	200350	
4.00	10400	13400	15400	20350	25400	30400	40400	60400	80400	100400	150400	200400	
5.00				20500		30500	40500	60500	80500	100500	150500	200500	
6.00				20600		30600	40600	60600	80600	100600	150600	200600	

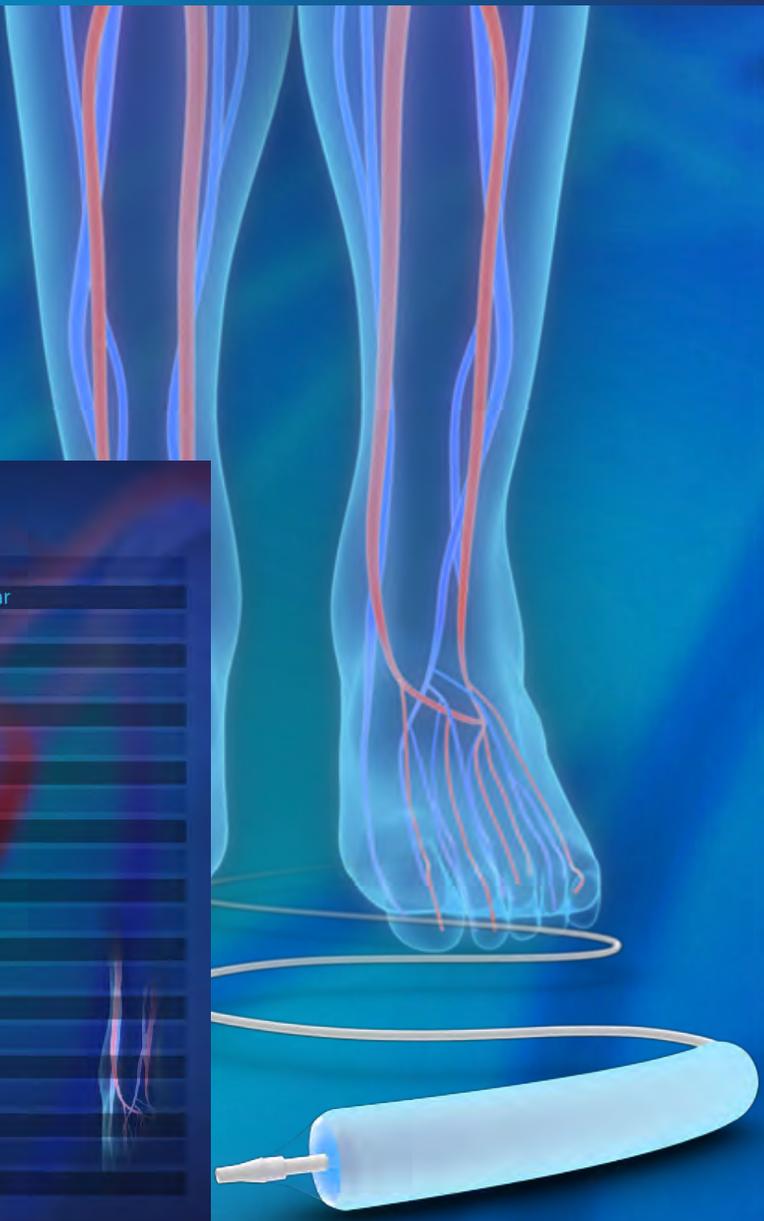


ORDER-CODE: ELUTAXSV-OTW-XXXXXX

ELUTAX SV

PERIPHERAL RX

THE DRUG ELUTING BALLOON TO REACH COMPLEX LESIONS



PERIPHERAL RX

Purpose:	peripheral lesions
Lesion location:	femoral a., popliteal a., BTK. aa, plantar
Tip:	flexible, soft, 0,017"
Catheter profile:	Less than 1,0 mm
Catheter design:	RX
Catheter material:	Nylon
Usable catheter length:	Minimum 135 cm
GW length:	Recommended > 180 cm
recommended GW:	0,014"
Introducer sheath compatibility:	4F
Guiding catheter compatibility:	Minimum 5F
Balloon characteristic:	semi compliant
Balloon nominal diameter:	1,5-6,0 mm
Balloon nominal length:	10-250 mm
Balloon coating:	3 layers
Nr. of folds:	3
Crossing profile:	less than 1 mm
Inflation time minimal:	10 sec
Inflation time recommended:	30 sec
Nominal pressure:	6 atm
RBP:	14 atm
Need of predilatation:	NO

PERIPHERAL RX

length													
mm	10	13	15	20	25	30	40	60	80	100	150	200	250
1.50	10150	3150	15150	20150	25150	30150							
2.00	10200	13200	15200	20200	25200	30200	40200	60200	80200	100200	150200	200200	250200
2.25	10225	13225	15225	20225	25225	30225	40225						
2.50	10250	13250	15250	20250	25250	30250	40250	60250	80250	100250	150250	200250	250250
2.75	10275	13275	15275	20275	25275	30275							
3.00	10300	13300	15300	20300	25300	30300	40300	60300	80300	100300	150300	200300	250300
3.50	10350	13350	15350	20350	25350	30350	40350	60350	80350	100350	150350	200350	
4.00	10400	13400	15400	20350	25400	30400	40400	60400	80400	100400	150400	200400	
5.00				20500		30500	40500	60500	80500	100500	150500	200500	
6.00				20600		30600	40600	60600	80600	100600	150600	200600	

diameter

UNDISPUTED LENGTH

ORDER-CODE: ELUTAXSV-XXXXXX

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