



B. BRAUN REGIONAL ANESTHESIA PORTFOLIO PRODUCT CATALOG

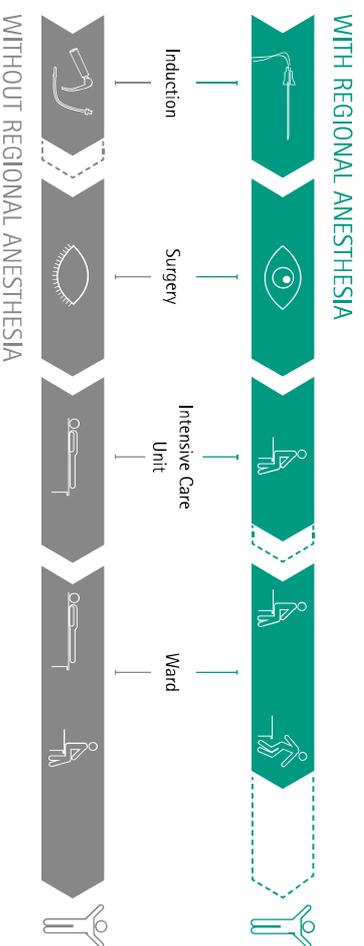
Reach your Targets quicker

Thanks to Regional Anesthesia

OPTIMIZE PROCESSES

Regional anesthesia is an essential part of pain therapy, as across several interventions, it offers clear advantages when compared to general anesthesia.¹ For regional anesthesia to become an important part of the per-operative process, there are some prerequisites to consider, like the relevant indications, skilled personnel and the necessary internal processes at the clinic.

The rapid growth of use of regional anesthesia and the numerous publications on the topic are both a testament to how regional anesthesia can have a positive impact on both patient outcome and on efficiencies for the clinic.^{2,3}



COMPARING TWO POTENTIAL INTERVENTIONS WITH AND WITHOUT REGIONAL ANESTHESIA:

Looking holistically across the patient pathway, the establishment of regional anesthesia processes appears to be a favorable investment. When regional anesthesia is used, patients see better outcomes, faster mobilization and consequently earlier discharge.^{4,5}

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ULTRASOUND GUIDANCE Xperius® Onvision® EZCOVER®		ULTRASOUND GUIDANCE
ELASTOMERIC PUMP SYSTEMS ON-Q®-Pump		ELASTOMERIC PUMP SYSTEMS
CONTINUOUS WOUND INFUSION ON-Q®-System ON-Q® Catheter Accessories for ON-Q®-Systems		CONTINUOUS WOUND INFUSION

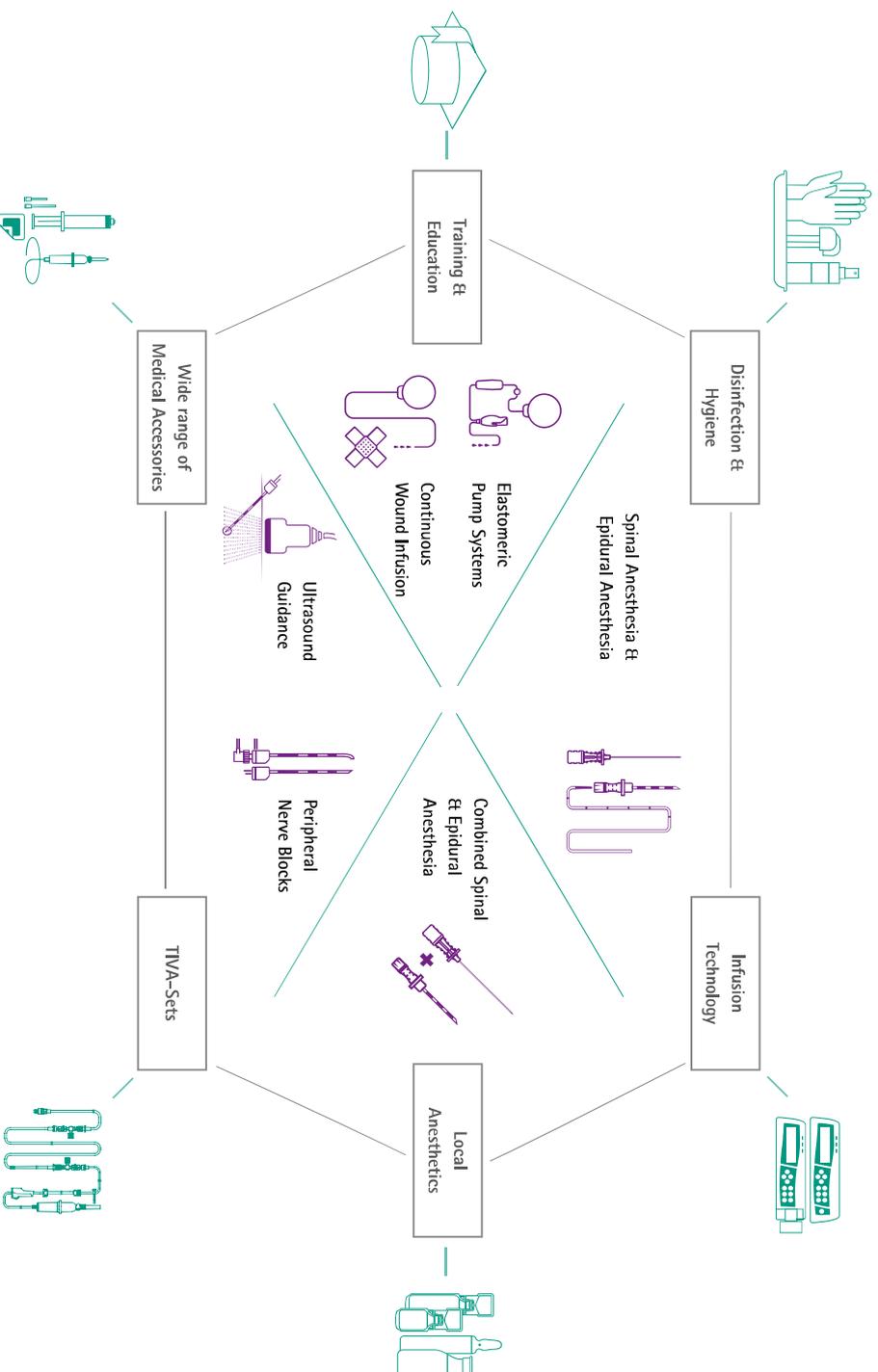
Pain Therapy with Regional Anesthesia

Supported by B. Braun's Product Portfolio

B. BRAUN – A COMPETENT PARTNER

As one of the world's major providers in the area of regional anesthesia, B. Braun supports its customers with innovative products and services.

We strive to accompany our customers through the entire patient pathway helping to optimize their processes and to provide products adapted to day-to-day clinical needs.

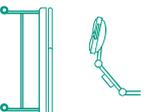


SYSTEM PARTNER IN REGIONAL ANESTHESIA

B. Braun, as a true system partner, helps to stay on top of evolving standards and their realization across multiple stakeholders, e.g. nurses, pharmacists and anesthetists. With access to our comprehensive product portfolio in pain therapy and through constructive dialog, our partners can benefit from B. Braun's know-how and expertise.



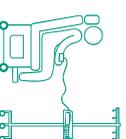
Introduction



Surgery



Recovery Room



Ward

Due to the combination of different procedures a broad regional anesthesia spectrum is created, which covers all patient areas.

Reducing Risks of Misconnections in Regional Anesthesia with NRFit®

MEDICAL DEVICE CONNECTORS FOR NEURAXIAL
& REGIONAL ANESTHESIA APPLICATIONS
ARE CHANGING TO MEET INTERNATIONAL
DESIGN STANDARDS: ISO 80369-6. ⁶

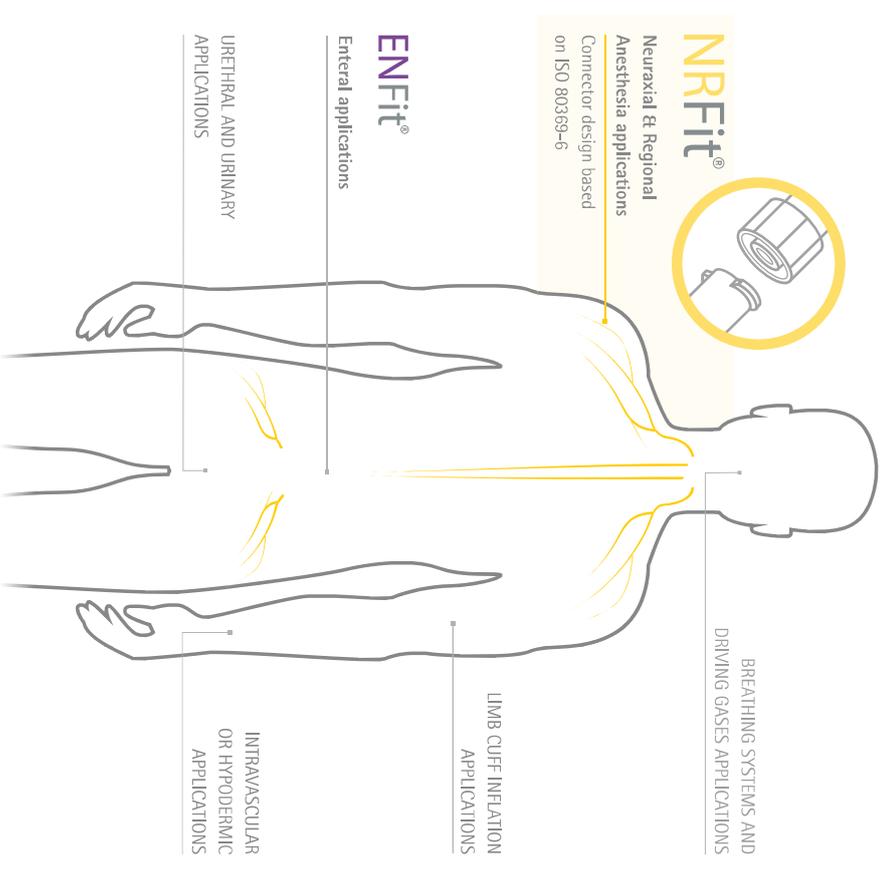


Regional Anesthesia products with NRFit® connector

In line with the ISO Standard (International Organization for Standardization) for neuraxial and regional anesthesia devices, B. Braun has developed a comprehensive portfolio with NRFit® connectors for the corresponding process steps.

Connecting what belongs together

» The ISO has identified several medical application areas for which specific ISO standards have been developed. These standards are part of the ISO 80369 series. Each standard will provide design and performance specifications for these connectors. ¹





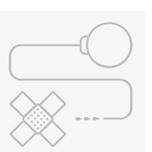
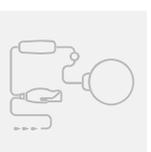
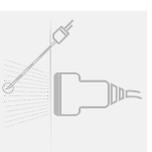
SPINAL ANESTHESIA



A comprehensive portfolio of
needles in different bevel types
for spinal anesthesia.



SPINAL ANESTHESIA



Products for Spinal Anesthesia

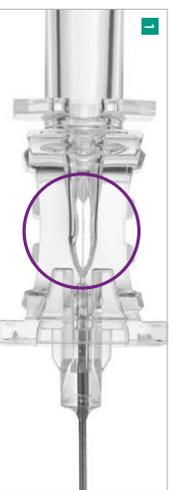
Quality and Practicality



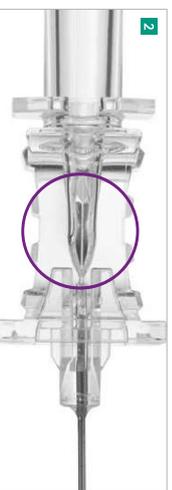
Thanks to our years of **EXPERIENCE** in the field, B. Braun offers spinal needles with a range of bevel types.

Spinocan® and Pencan® are well accepted for their **INNOVATIVE** needle tip designs.

Ergonomic hub design for an individual and safe handling position, better control of the needle and easy verification of bevel eye orientation.⁷



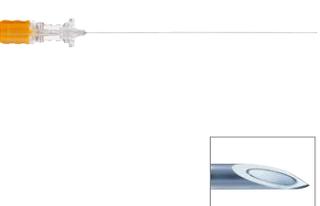
1



2

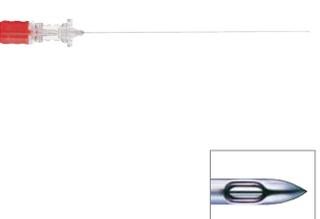
CSF-Flashback identification due to the incorporated prism effect.

- CSF FLASHBACK IDENTIFICATION**
- Prism has a silver shine before CSF enters the hub **1**
 - Prism turns transparent once CSF is in the hub **2**



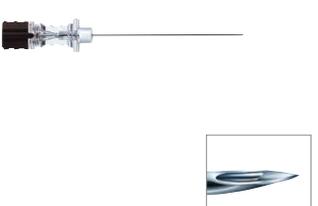
Spinocan® with Quincke Bevel

- Sharp bevel for low puncture force⁷
- Fitted stylet: to reduce the risk of tissue coning and potential epidural tumor development
- Prism included in the spinal needle hub, supports identification of CSF flashback



Pencan® with Pencil Point Bevel

- Pencil point tip and opening design allows avoidance of incomplete blocks and helps reduce PPH⁸
- Minimal intrathecal penetration depth⁷
- Identification of tissue structures due to detectable dura click^{7,9}
- Prism included in the spinal needle hub, supports identification of CSF flashback



Atraucan® with Two-Zone Bevel

- Low puncture force as well as minimal puncture trauma¹⁰
- Reduced risk of postdural puncture headache (PDPH)¹⁰

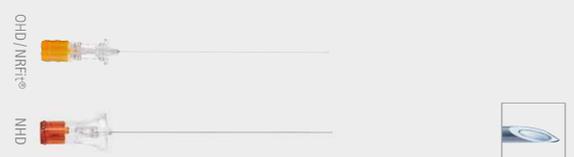


Spinal Introducer Needle

- Introducer needles providing needle guidance for the spinal needle during puncture⁷
- Introducer OHD range (as shown on left side)
- Introducer NHD range (as shown on right side)

Portfolio Overview

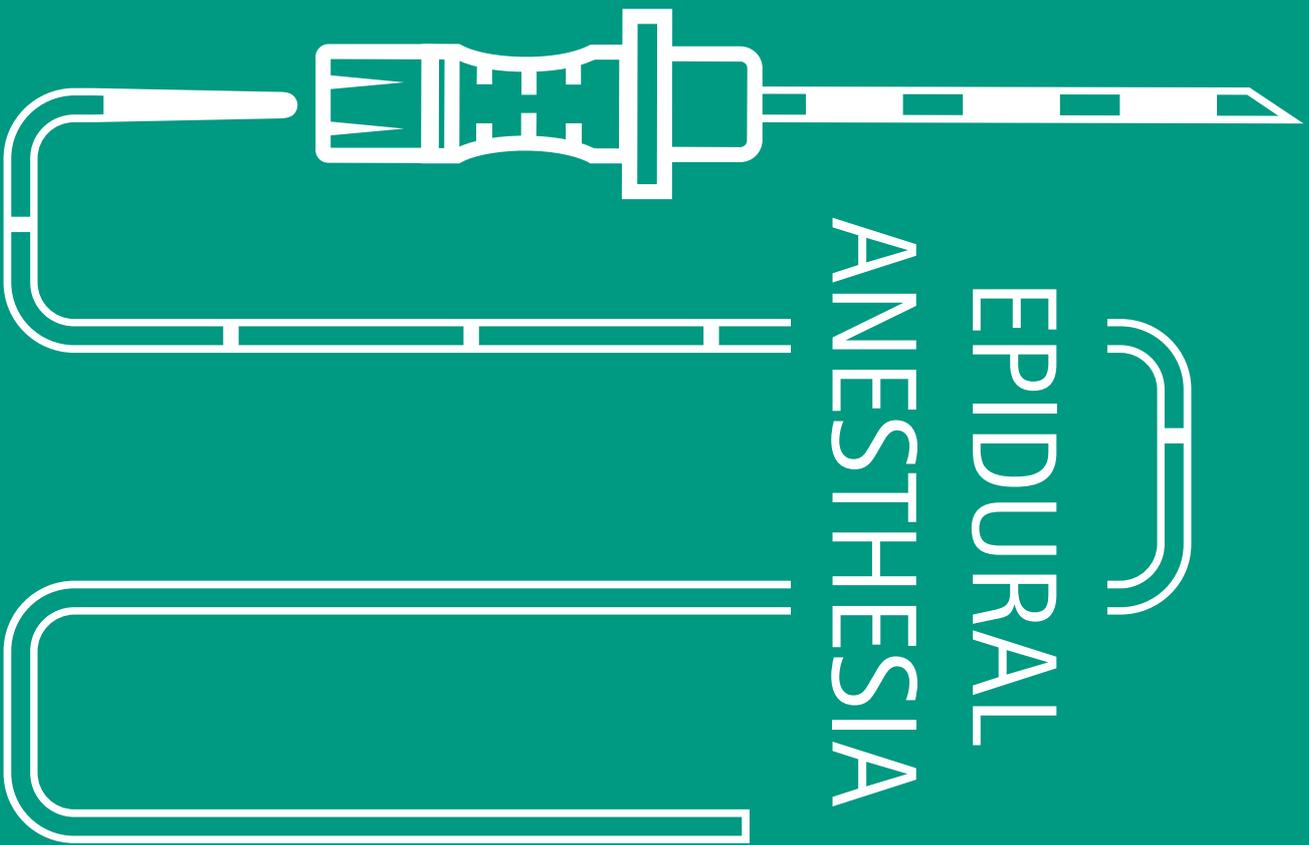
SPINAL NEEDLES

Spinecan®	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF) OHD Luer	Code no. (REF) NHD Luer	Code no. (REF) NREFt®
	Red	29 x 3 1/2"	0,35 x 88*		4501900	4501900-13	4501900N-01
	Grey	27 x 3 1/2"	0,40 x 88		4503902	4503902-01	4503902N-01
	Grey	26 x 3 1/2"	0,45 x 88		4502906	4502906-01	4502906N-01
	Orange	25 x 3"	0,55 x 75		4505751	4505751-01	4505751N-01
	Orange	25 x 3 1/2"	0,55 x 88		4505905	4505905-01	4505905N-01
	Black	22 x 1 1/2"	0,70 x 40		4507401	4507401-13	4507401N-01
	Black	22 x 3"	0,70 x 75		4507754	4507754-13	4507754N-01
	Black	22 x 3 1/2"	0,70 x 88	25	4507908	4507908-01	4507908N-01
	Black	20 x 3"	0,90 x 75		4509757	4509757-13	4509757N-01
	Yellow	20 x 3 1/2"	0,90 x 88		4509900	4509900-01	4509900N-01
	Yellow	19 x 1 1/2"	1,10 x 40		4501144	4501144-13	4501144N-01
	Yellow	19 x 3 1/2"	1,10 x 88		4501195	4501195-13	4501195N-01
	Pink	18 x 3"	1,30 x 75		4501373	4501373-13	4501373N-01
	Pink	18 x 3 1/2"	1,30 x 88		4501390	4501390-01	4501390N-01
	Long Length						
Red		29 x 4 3/4"	0,35 x 120		4501918	4501918-13	4501918N-01
Grey		27 x 4 3/4"	0,40 x 120		4502140	4502140-13	4502140N-01
Grey		26 x 4 3/4"	0,45 x 120		4504917	4504917-13	4504917N-01
Orange		25 x 4 3/4"	0,55 x 120	25	4505913	4505913-13	4505913N-01
Black		22 x 4 3/4"	0,70 x 120		4506090	4506090-13	4506090N-01
Black		22 x 6"	0,70 x 150		-	-	4506095N-01
Atrauncan®							
Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF) OHD Luer	Code no. (REF) NHD Luer	Code no. (REF) NREFt®	
Grey	26 x 3 1/2"	0,47 x 88	25	4504739	-	-	
Atrauncan® Paed							
Grey	26 x 1"	0,47 x 25	25	4504771	-	-	
Grey	26 x 2"	0,47 x 50		4504763	-	-	

SPINAL NEEDLES

Pencan®	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF) OHD Luer	Code no. (REF) NHD Luer	Code no. (REF) NREFt®	
	Grey	27 x 3 1/2"	0,40 x 88		4502027	4502027-01	4502027N-01	
	Grey	25 x 3 1/2"	0,50 x 88	25	4502051*	4502051-13*	4502051N-01*	
	Orange	25 x 3 1/2"	0,50 x 88		4502019	4502019-01	4502019N-01	
	Black	22 x 3 1/2"	0,70 x 88		4502043*	4502043-13*	4502043N-01*	
	Black	22 x 3 1/2"	0,70 x 88		4502035	4502035-13	4502035N-01	
	Long Length							
	Grey	27 x 4"	0,40 x 103		4502124*	4502124-13*	4502124N-01*	
	Grey	27 x 4 3/4"	0,40 x 120		4502132	4502132-13	4502132N-01	
	Orange	25 x 4"	0,50 x 103	25	4502116*	4502116-13*	4502116N-01*	
	Orange	25 x 4 3/4"	0,50 x 120		-	4502120-13	4502120N-01	
	Orange	25 x 6,1"	0,50 x 156		-	-	333877N-01	
	Pencan® Paed							
	Grey	27 x 2"	0,40 x 50		4502175	4502175-13	4502175N-01	
	Orange	25 x 1"	0,50 x 25	25	4502167	4502167-13	4502167N-01	
	Orange	25 x 2"	0,50 x 50		4502159	4502159-13	4502159N-01	
INTRODUCER								
Spinal Introducer Needles (for Spinecan® and Pencan®)								
For Spinal Needles 29 G and 27 G								
Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF) OHD Luer	Code no. (REF) NHD Luer	Code no. (REF) NREFt®		
White	22 x 1 3/8"	0,70 x 35	25	4500059*	4500059-13*	4500059*		
For Spinal Needles 26 G and 25 G								
Yellow	20 x 1 3/8"	0,90 x 35	25	4505000*	4505000-13*	4505000*		

*Introducer in Luer



EPIDURAL ANESTHESIA



To meet individual preferences,
 B. Braun offers a broad range of
 epidural cannulas, catheters and
 accessories for epidural anesthesia.



Products for Epidural Anesthesia

Quality and Practicality



Adapting to the unique anatomical challenges of each patient, it is important to use the appropriate needle and accessories.

B. Braun focuses on

**QUALITY &
PRACTICALITY.**



Pericard® Tuohy Needles

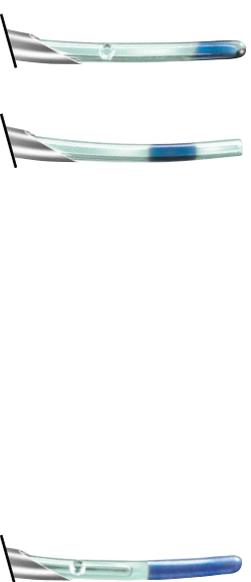
- For both continuous and single-shot techniques
- Different needle sizes (16 G, 18 G, 20 G)
- With 1 cm graduation in length
- Polished inner bevel edge to reduce the risk of catheter shearing

USER BENEFITS:

- 1 cm marking to control the insertion depth
- High bending stiffness for good control during needle advancement
- Fitted stylet: to reduce the risk of tissue coring and potential epidural tumor development

Products for Epidural Anesthesia

Perifix® Catheters: Available with different characteristics – Standard, SoftTip and ONE



Perifix® Standard Catheter

- Relatively stiff catheter shaft for easy catheter insertion
- Length 1000 mm
- Standard catheter with a central opening or three micro-holes to enhance the spread
- One radiopaque stripe for x-ray control
- Clear blue length markings embedded in catheter material
- Does not contain latex, DEHP or PVC
- MRI conditional

Perifix® SoftTip Catheter

- SoftTip catheter with a superimposed tip
- Length 1000 mm
- Three micro-holes enhance the spread of anesthetic drug
- One radiopaque stripe for x-ray control
- Clear blue length markings embedded in catheter material
- Does not contain latex, DEHP or PVC
- MRI conditional



Perifix® ONE

- Epidural catheter with a relatively stiff but flexible shaft and a soft, atraumatic tip
- Length 1000 mm
- Six micro-holes enhance the spread of anesthetic drug
- Three radiopaque stripes for x-ray control
- Does not contain latex, DEHP or PVC
- MRI conditional

Products for Epidural Anesthesia

Perifix® Accessories



Perifix® LOR-Syringe

- Easy-gliding plunger with good gliding characteristics and safety stop
- Parabolic graduation to differentiate it from conventional syringes
- Suitable for air and saline applications
- Lock or slip connection



Perifix® Catheter Connector

- Available in two sizes (19 G and 20/24 G)
- Tactile and acoustic feedback upon closure
- Viewing window allows for catheter insertion control to ensure a successful connection



Perifix® Filter with PinPad

- Filter fixation on patient in combination with self-adhesive PinPad
- Filter reduces the risk of bacterial infections
- Pressure resistant up to 7 bar



Perifix® Catheter Fixation

- Catheter fixation, consisting of fixation ring and non-woven cover foil
- Easy examination of puncture site due to exchangeable cover foils

Products for Epidural Anesthesia

Epidural Anesthesia for the smallest patients



Perican® Paed Epidural Needles

- Tuohy bevel
- For continuous or single-shot techniques
- Three different needle sizes (18 G, 20 G, 22 G)
- 5 mm markings to control the insertion depth
- Fitted stylets: to reduce the risk of tissue coring and potential epidural tumor development



Perifix® ONE Paed Epidural Sets

- Perifix® ONE Paed epidural sets in 20/24 G for newborns and infants, and 18/20 G for older children:
- Catheters with distance markings for pediatric use
- For safe catheter insertion and position control
- Catheter with markings each 1 cm in the space between 2 and 20 cm from the needle tip



Epican® Paed - Caudal Needles

- 23° Crawford type bevel for caudal pediatric anesthesia
- Three different needle sizes (20 G, 22 G, 25 G)
- Special length (30 mm, 35 mm, 50 mm)
- 5 mm markings to control the insertion depth
- Fitted stylets: to reduce the risk of tissue coring and potential epidural tumor development

Portfolio Overview

EPIDURAL NEEDLES

Perican®	Color code	Size (G)/Length (inch)	ø/Length (mm)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFt®	
		18 x 3 1/4"	1.30 x 80	25	4512383	4512383N-01	
		17 x 3 1/4"	1.50 x 80	25	4512588	-	
		16 x 3 1/4"	1.70 x 80		4512782	4512782N-01	
	Long Length						
		18 x 4 3/4"	1.30 x 120		4512453	4512453N-01	
		18 x 6"	1.30 x 150	25	4512200	4512200N-01	
		16 x 4 3/4"	1.70 x 120		-	4512785N-01	
		16 x 6"	1.70 x 150		-	4512784N-01	
		22 x 2"	0.73 x 50	25	4502078	4502078N-01	
		20 x 2"	0.90 x 50		4502094	4502094N-01	
		18 x 2"	1.30 x 50		4502302	4502302N-01	
		25 x 1 1/8"	0.53 x 30		4502400	4502400N-01	
		22 x 1 3/8"	0.73 x 35	25	4502418	4502418N-01	
		20 x 2"	0.90 x 50		4502426	4502426N-01	
		20 x 2"	0.90 x 50		4502426	4502426N-01	

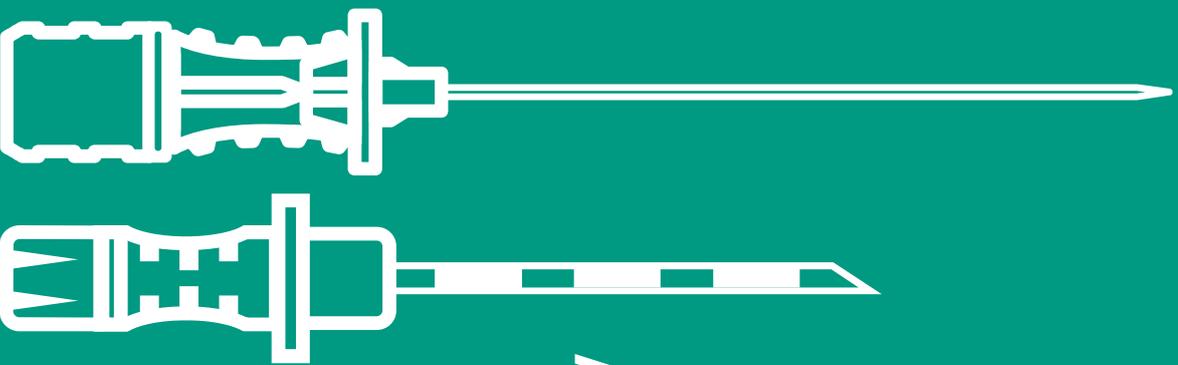
EPIDURAL CATHETERS

Perifix® catheter	Catheter ø outer/inner/Length (mm) (G)	Suitable for Perican® Size (G)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFt®
	Perifix® Standard catheter (with 3 lateral eyes)				
	1.05/0.60/1000 (19)	16	25	4513258	4513258N-01
	0.85/0.45/1000 (20)	18		4513150	4513150N-01
	Perifix® Standard catheter (with central opening)				
	0.85/0.45/1000 (20)	18	25	4513177	4513177N-01
	Perifix® SoftTip catheter (with 3 lateral eyes)				
	0.85/0.45/1000 (20)	18	25	4515048	4515048N-01
	Perifix® ONE catheter (with 6 lateral eyes)				
	1.05/0.60/1000 (19)	16	25	4513258C	45132581N-01
	0.85/0.45/1000 (20)	18		4513150C	45131501N-01

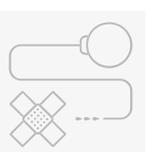
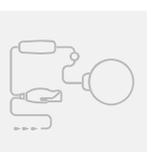
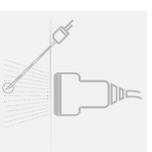
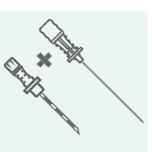
EPIDURAL ANESTHESIA ACCESSORIES

Perifix® Catheter Fixation	Description	Units per box	Code no. (REF)
	Perifix® catheter fixation, consisting of a fixation ring and a non-woven cover foil	25	4511200
	Perifix® non-woven replacement cover foil		4511201
	Perifix® Loss-of-Resistance (LOR) Syringe		
	Perifix® LOR Syringe, Luer-Slip	25	4637100
	Perifix® Loss-of-Resistance (LOR) Syringe, Luer-Lock		
	Perifix® LOR Syringe, Luer-Lock		4638107
	Perifix® Loss-of-Resistance (LOR) Syringe NRFt®		
	Perifix® LOR Syringe, Slip NRFt®	25	4637110
	Perifix® LOR Syringe, Lock NRFt®		4638110
	Perifix® catheter connector		
	Size (G)	Units per box	Code no. (REF) Luer
	19	25	4513801
	20/24		4513800
	Perifix® filter		
	Particle filter (µm)	Units per box	Code no. (REF) Luer
	0.20	25	4515501
			4515501N-01
	Perifix® PinPad		
	Description	Units per box	Code no. (REF)
	Perifix® PinPad Filter Fixation	25	4515510

COMBINED SPINAL AND EPIDURAL ANESTHESIA

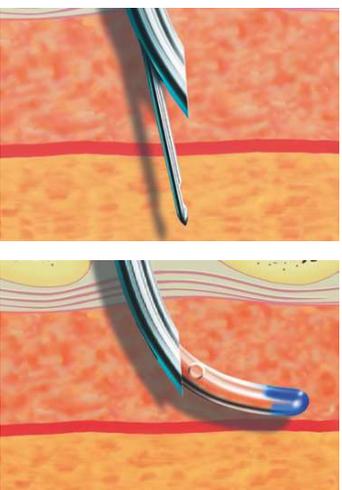


Combining the benefits of both techniques – sets for combined spinal and epidural anesthesia (CSE).



COMBINED SPINAL AND
EPIDURAL ANESTHESIA

Products for Combined Spinal and Epidural Anesthesia



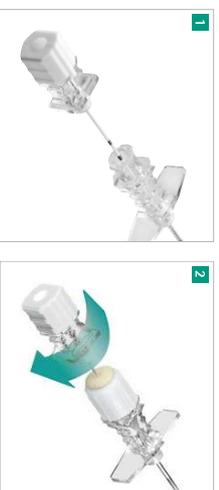
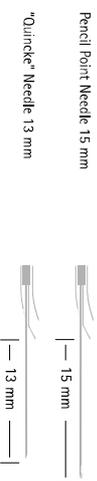
Combined Spinal-Epidural Anesthesia (CSE):

THE BENEFITS

of Spinal and Epidural Anesthesia in the Espocan®-Sets

- Special Tuohy Needle with a back-eye in the curved tip and a Spinal Needle with a plastic centering sleeve
- Back-eye in tuohy needle for insertion of spinal needle
- Docking system to fixate the spinal needle
- Sleeved spinal needle for smooth exit through the back-eye

The ideal overlap of the spinal needle is by



Markings on the Spinal Needle 1

The markings on the spinal needle show, when the tip leaves the back-eye.

USER BENEFITS 2

- The docking system allows rotation of the spinal needle even in the fixed position. Avoids the difficult and uncomfortable finger grip to steady fix the spinal needle in position
- The docking system ensures fixation of the spinal needle inside the tuohy needle after successful dura puncture and injection of the local anesthetic

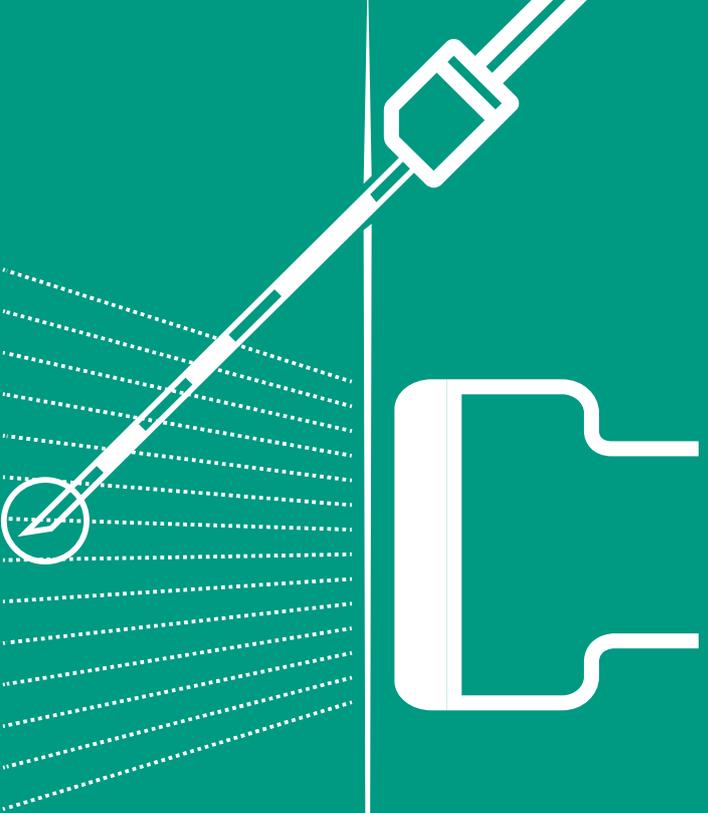
Portfolio Overview

SETS FOR COMBINED SPINAL AND EPIDURAL ANESTHESIA

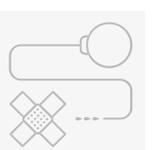
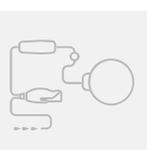
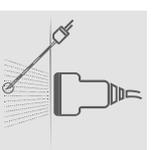
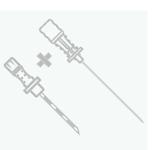
Espocan® and Perifix® Standard	Size (G)/ Length (Inch)	Ø/ Length (mm)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFFt®
With Quincke-Beyel: Spincan®	27 x 5"	0.42 x 125.5*	10	4556674	4556674N-01
	Pencil-Point Cannula: Pencan®				
With Quincke-Beyel: Spincan®	27 x 5"	0.42 x 127.5*	10	4556666	4556666N-01
	All sets contain				
Espocan® and Perifix® Standard with Docking System	<ul style="list-style-type: none"> Perifix® Standard catheter, 3 lateral eyes Perican® epidural cannula Ø 1.30 mm, 18 G x 90 mm Perifix® LOR-syringe, Luer-Slip Perifix® epidural flat filter 0.20 µm Perifix® PinPad Perifix® catheter connector 				
	<ul style="list-style-type: none"> Perifix® SoftTip catheter, 3 lateral eyes Docking system Perican® epidural cannula Ø 1.30 mm, 18 G x 90 mm Perifix® LOR-syringe, Luer-Slip Perifix® epidural flat filter 0.20 µm Perifix® PinPad Perifix® catheter connector 				
With Quincke-Beyel: Spincan®	27 x 5 3/8"	0.42 x 136.5*	10	4556747	4556747N-01
	Pencil-Point Cannula: Pencan®				
With Quincke-Beyel: Spincan®	27 x 5 3/8"	0.42 x 138.5*	10	4556763	4556763N-01
	All sets contain				
Espocan® and Perifix® Standard with Docking System	<ul style="list-style-type: none"> Perifix® SoftTip catheter, 3 lateral eyes Docking system Perican® epidural cannula Ø 1.30 mm, 18 G x 90 mm Perifix® LOR-syringe, Luer-Slip Perifix® epidural flat filter 0.20 µm Perifix® PinPad Perifix® catheter connector 				
	<ul style="list-style-type: none"> Perifix® SoftTip catheter, 3 lateral eyes Docking system Perican® epidural cannula Ø 1.30 mm, 18 G x 90 mm Perifix® LOR-syringe, Luer-Slip Perifix® epidural flat filter 0.20 µm Perifix® PinPad Perifix® catheter connector 				

*For CSE needle length in NRFFt®, please consult our NRFFt® brochure

ULTRASOUND GUIDANCE



Reimagine Regional Anesthesia
with B. Braun's innovative portfolio
for Ultrasound guided therapies.



ULTRASOUND
GUIDANCE

Xperius® Ultrasound System

Responsive | Advanced | Simple



Xperius® is a new Ultrasound system jointly developed by B. Braun and Philips which has been specifically designed to support the current and future needs in regional anesthesia and vascular access at the point of care.

RESPONSIVE

The system offers a high degree of mobility and flexibility combined with an ergonomic design to improve daily practice. A fully articulating arm allows easy adjustments of the Ultrasound monitor position and the angle of the screen for ergonomic use and better line of sight. Besides the cart based system, a dedicated ultra portable tablet device allows quick bedside scanning or interventions in your facility, on-the-go and at satellite locations.

ADVANCED

Xperius® provides high quality imaging of nerves and tissue structures for confident diagnoses and precise needle guidance. The predetermined settings (presets) are designed so you can spend less time adjusting controls and more time focusing on your patients.

SIMPLE

Xperius® – Allows you to quickly and comfortably conduct exams. Xperius® comes with intuitive touch and gesture controls that you already know from your smart devices – to keep your focus on your work and not on the controls. Its simple interface supports daily routines and provides specific presets for procedures in regional anesthesia and vascular access.

Designed around you to fit seamlessly into the anesthesiologists' care area

- ✓ Advanced ergonomics
- ✓ Convenient accessory bins
- ✓ High mobility & portability
- ✓ Designed by Philips & B. Braun

High performance technology delivers exceptional image quality

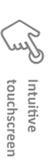
- ✓ High definition imaging
- ✓ Enhanced needle visualization
- ✓ New generation of probes

Intuitive and easy to use

- ✓ Improved workflow
- ✓ Intuitive user experience
- ✓ Touch screen & gesture control
- ✓ Dedicated regional anesthesia & vascular access presets

Intuitive Interface & Advanced Technology

Multiple presets - 4 specific ones for regional anesthesia / vascular access



Intuitive touchscreen



Start scanning in a few seconds



Built-in Wi-Fi for DICOM data transfer



Needle Vis Technology

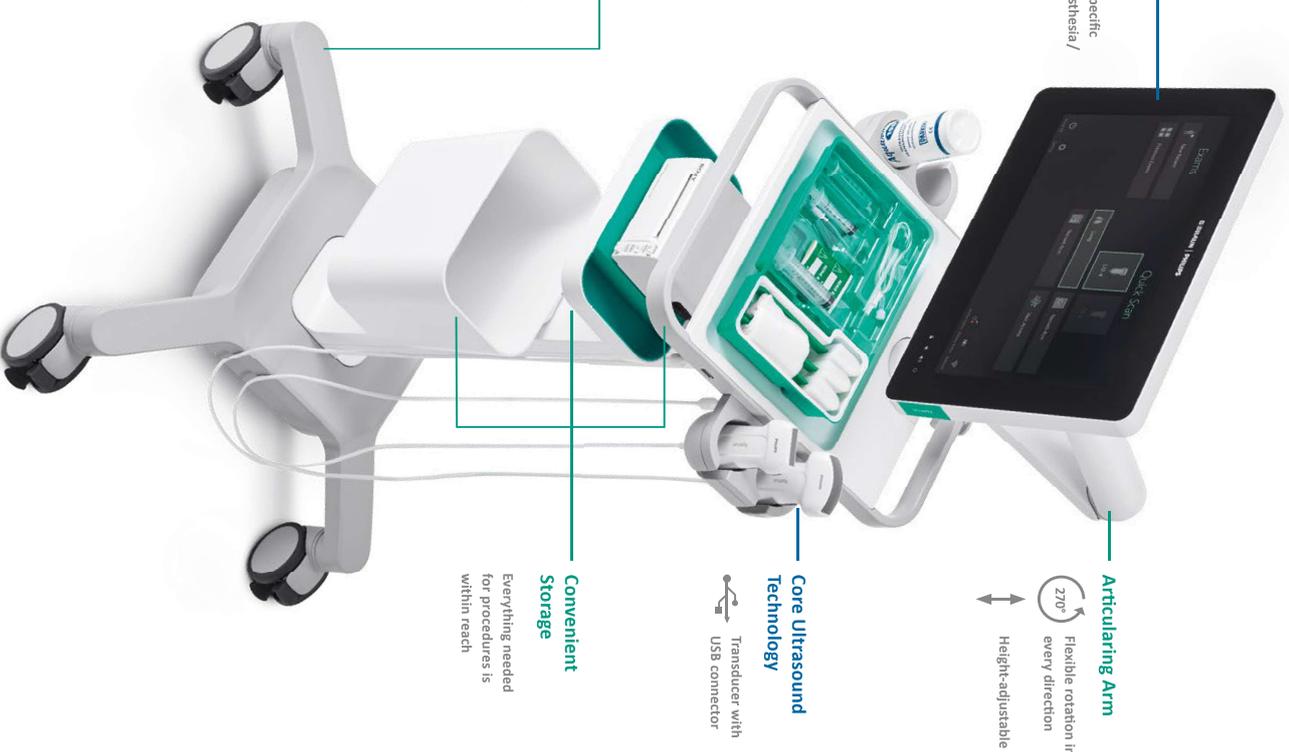
Ready-to-go for Bedside Scanning



Long lasting battery up to 3 h of scanning



Lightweight and easy to handle



Articularing Arm

Flexible rotation in every direction



Height-adjustable

Core Ultrasound Technology

Transducer with USB connector

Convenient Storage

Everything needed for procedures is within reach

Onvision® Needle Tip Tracking

Accurate | Predictable | Empowering



Onvision® is an Ultrasound based Needle-Tip tracking technology for peripheral nerve blocks which works exclusively with the Xperius® Ultrasound system and the dedicated Stimplex® Onvision® needle. In real-time, Onvision® accurately indicates where the needle tip is inside the body, both in and out of plane. It helps users align the needle with the probe in an intuitive and easy to use manner – to improve pain relief and the avoidance of unintended nerve puncture or collateral damage to surrounding tissue or vessel.

Onvision® is an Ultrasound based Technology for reliable

Needle Guidance

The dedicated Stimplex® Onvision® needle is embedded with a tip sensor, which allows accurate detection of the tip location and displays this information in real time on the live Ultrasound image.

With Onvision®, users experience a real time guidance which empowers them to quickly adopt and integrate PNB into their daily practice. Onvision® enables more physicians to be proficient in performing PNBs.²⁷

ACCURATE

Know where you are in real-time^{24,25}

- ✓ Tip visualization in both superficial and deeper blocks
- ✓ Ultrasound based detection and accuracy
- ✓ Can reduce complications during PNB placement
- ✓ Designed to prevent unintended overshooting

PREDICTABLE

Helping make first-time-right the new standard^{24,25}

- ✓ Confidently perform local anesthetics injection
- ✓ Reduction in overall procedure time
- ✓ Fits in to current workflow (no workflow disruption)

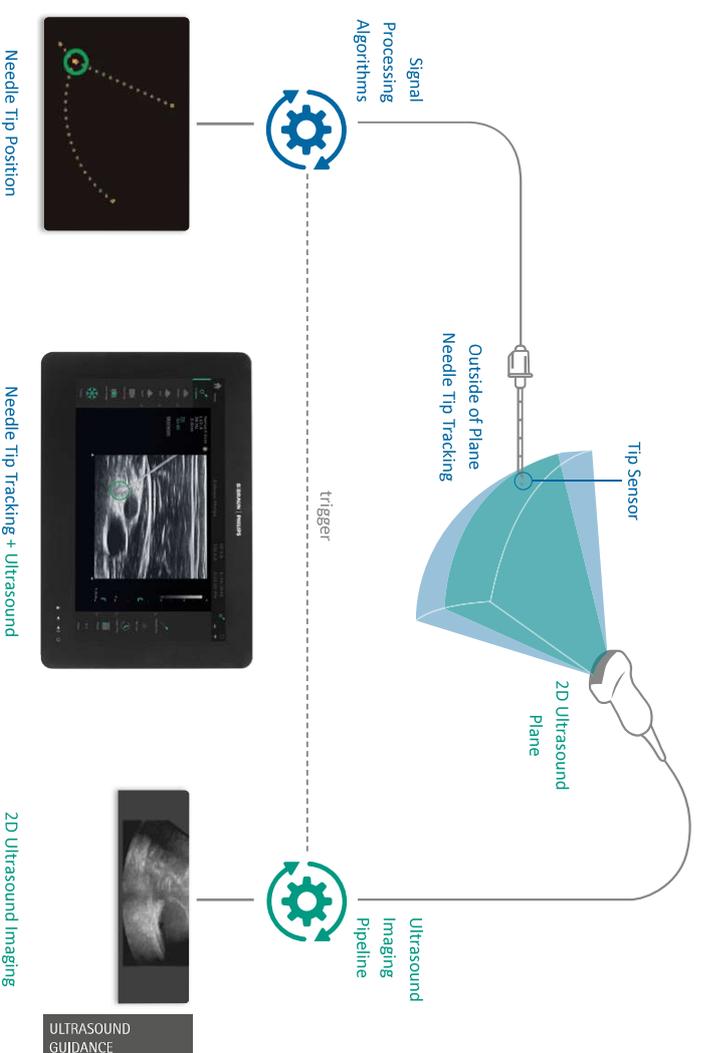
EMPOWERING

More anesthesiologists can carry out regional anesthesia²⁶

- ✓ Intuitive user experience
- ✓ Easy to adopt
- ✓ Can increase proficiency level

Needle Tip Navigation to the Point

The Onvision® technology combines ultrasound image data from the ultrasound system with signals from the needle to accurately locate the position of the sensor on the Stimplex® Onvision® Needle. The position of the sensor is then displayed on the ultrasound image in real-time by overlaying a circle to it.



Ultrasound based Technology to Improve Accuracy

- Onvision works up to at least 10 cm depth^{1,4}
- Onvision is shielded against external electromagnetic interferences (EMI)³
- Onvision remains accurate even when the needle bends¹

ULTRASOUND
GUIDANCE



EZCOVER®. Because infection control matters.

Infection prevention and control are key priorities in the healthcare setting. Although ultrasound is considered one of the safest imaging modalities, infection transmission risks during ultrasound are evident.²⁸ The use of a sterile sheath and gel for interventional ultrasound is an important way to prevent cross-contamination and reduce the risk of healthcare-associated infections.²⁹

EZCOVER®. Improved protection for patient, user and equipment. EZCOVER® are sterile, latex-free and ensure maximum protection for the patient, the user and the equipment. EZCOVER® are suited to all sterile and non-sterile ultrasound applications.

All sets include

- Ultrasound probe cover – available in different sizes (W x L) 15 x 30 cm | 15 x 61 cm | 15 x 122 cm | 15 x 244 cm
- Sterile ultrasound gel (1 x 20g)
- Latex-free rubber fixation bands (2 x)
- Blue sterile drape (30 x 30 cm)
- All versions optional available with STOP Safety Shield



Easy to fit and convenient to use.

The telescopic folding allows for sterile application. Clear instruction labels on the cover decrease the risk of errors and misuse.

Image quality without compromise.

The high-quality material of the soft sleeve emulates the properties of human tissue. The elastic material facilitates wrinkle and air free application for distortion free scanning.

EZCOVER® advantages at a glance:

IMPROVED PROTECTION

- Latex-free
- Approved for intraoperative use
- Reduces risks of procedural errors (STOP Safety Shield)

EASY TO FIT – CONVENIENT TO USE

- Improved handling
- Elastic material – conforms to all probes
- All necessary components for immediate use in one set

ADVANCED PERFORMANCE

- Soft and comfortable material
- Wrinkle and air-free fit
- No compromise in image quality



NEW! Stop before you block.

Wrong site nerve blocks (WSNB) are classified as never events. A nation-wide patient safety campaign in the UK called “Stop before you block” is aimed at reducing the incidence of inadvertent wrong-sided nerve blocks during regional anaesthesia.³⁰

EZCOVER® are available with STOP Safety Shield label. The sticker reminds the practitioner to STOP immediately prior to the start of the procedure and to conduct a final confirmation on the right surgery site and side of the block.

BENEFITS

- Assures compliance with the WHO Checklist (JCI Standards JPSG4 and JPSG.4.1)
- Reduces risks of wrong site nerve blocks

PORTFOLIO OVERVIEW EZCOVER® SETS

Generic Set	Description	Size (W x L cm)	Units	Article Code
	U/S Probe Cover Set w/Gel	15 x 30	30/Box	PCG15030
	U/S Probe Cover Set w/Gel	15 x 61	30/Box	PCG15061
	U/S Probe Cover Set w/Gel	15 x 122	30/Box	PCG15122
	U/S Probe Cover Set w/Gel	15 x 244	25/Box	PCG15244
Set with STOP (Check)				
	U/S Probe Cover Set, STOP w/Gel	15 x 30	30/Box	PCT15030
	U/S Probe Cover Set, STOP w/Gel	15 x 61	30/Box	PCT15061
	U/S Probe Cover Set, STOP w/Gel	15 x 122	30/Box	PCT15122
	U/S Probe Cover Set, STOP w/Gel	15 x 244	25/Box	PCT15244

Portfolio Overview

ULTRASOUND SYSTEM AND ONVISION® TECHNOLOGY

Xperius®	Description	Units per box	Code no. (REF)
Xperius® Cart System with 1 transducer L12-4 and Onvision® Needle Tip Tracking Technology	<ul style="list-style-type: none"> Type of unit: Compact Cart based Point of Care Ultrasound System with Linear L12-4 and Onvision® Technology Dimensions: 132.5 cm x 56.0 cm x 66 cm (H/W/D) Weight: 36.0 kg Display: 39.6 cm (15.6 in) flat-panel touch-screen Imaging mode keys: 2D, Color Doppler, Color Power Angio (CPA), M-Mode 	1	NUSM621
Xperius® Cart System with 1 transducer L12-4	<ul style="list-style-type: none"> Type of unit: Compact Cart based Point of Care Ultrasound System with fully articulating arm and Linear L12-4 Dimensions: 132.5 cm x 56.0 cm x 66 cm (H/W/D) Weight: 34.0 kg Display: 39.6 cm (15.6 in) flat-panel touch-screen Imaging mode keys: 2D, Color Doppler, Color Power Angio (CPA), M-Mode 	1	NUSM623
Xperius® Stand-alone Tablet with 1 transducer L12-4	<ul style="list-style-type: none"> Type of units: Point of Care Tablet Ultrasound System with Kickstand and Linear 12-4 Dimensions: 28 cm x 42 cm x 5 cm (H/W/D) Weight: 3.6 kg 	1	NUSM626
Peripherals	<ul style="list-style-type: none"> Printer: Sony UP-D711MD High-quality digital graphic printer Easy to connect within dedicated Xperius® printer slot Dimensions: 7 cm x 14 cm x 12.5 cm (H/W/D) Weight: 1 kg Monochrome, black/white, A7 paper size 	1	NUSM620

COMPLEMENTARY PRODUCTS

Xperius® Upgrade Items	Description	Units per box	Code no. (REF)
Single Transducer Linear	<ul style="list-style-type: none"> L12-4 broadband linear array transducer 12 to 4 MHz extended operating frequency range Aperture size: 34 mm High resolution imaging for shallow applications Center line marker USB transducer with replaceable cable 	1	FUS5716
Single Transducer Curved	<ul style="list-style-type: none"> C5-2 broadband curved array transducer 5 to 2 MHz extended operating frequency range 50 mm radius of curvature High resolution imaging for deeper applications Center line marker USB transducer with replaceable cable 	1	FUS5712
ONVISION® SINGLE SHOT BLOCK NEEDLES			
Stimuplex® Onvision®			
Luer Version			
	Insulated Needles with 30° Bevel		
	22 x 2"	0.70 x 50 mm	4892705-01
	22 x 3 1/8"	0.70 x 80 mm	4892708-01
	20 x 4"	0.90 x 100 mm	4892710-01
	20 x 4 3/4"	0.90 x 120 mm	4892712-01
	20 x 6"	0.90 x 150 mm	4892715-01
Stimuplex® Onvision®			
NRFt® Version			
	Insulated Needles with 30° Bevel		
	22 x 2"	0.70 x 50 mm	4892705NR-01
	22 x 3 1/8"	0.70 x 80 mm	4892708NR-01
	20 x 4"	0.90 x 100 mm	4892710NR-01
	20 x 4 3/4"	0.90 x 120 mm	4892712NR-01
	20 x 6"	0.90 x 150 mm	4892715NR-01

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