

B. Braun – Your partner for Epidural Anesthesia and Analgesia



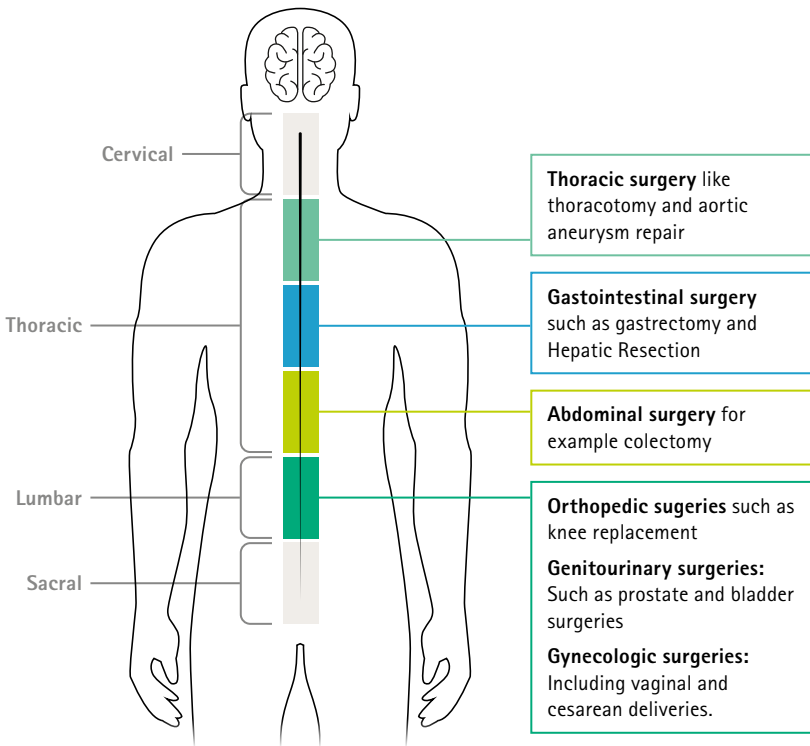
Epidurals: Flexible control. Reliable outcomes.

Why choose epidurals?

Because they offer **targeted, adjustable control** – precisely when it matters.

Epidurals allow you to fine-tune anesthesia and analgesia levels, with the flexibility to extend effects as needed. This level of control supports confident decision-making across a wide range of clinical scenarios.

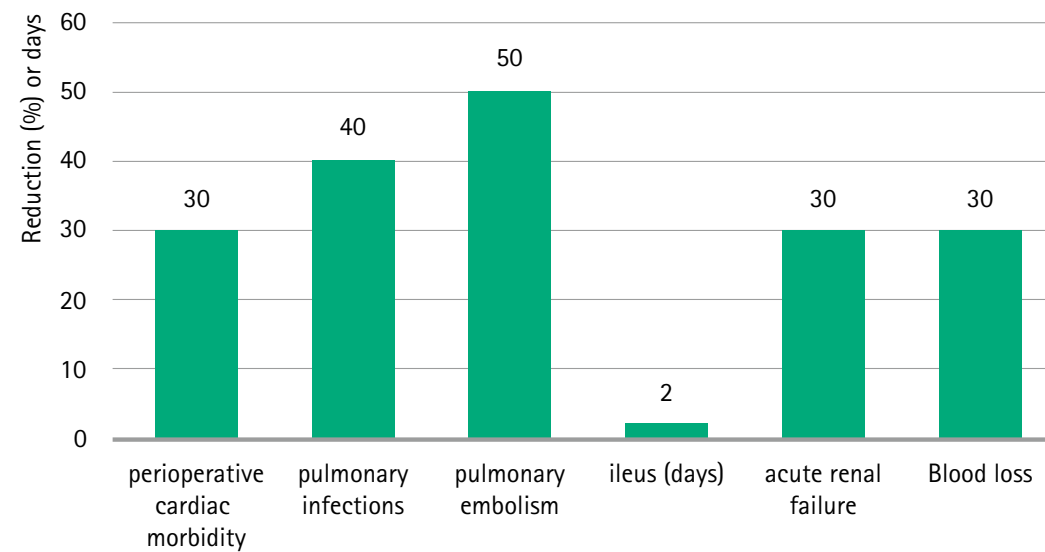
From surgical procedures to diagnostics and acute or chronic pain management, epidurals adapt to your patient's needs¹.



Epidurals also help reduce surgical complications.

Clinical literature consistently shows that epidural techniques are associated with fewer perioperative complications compared to General Anesthesia and Systemic Analgesia². The result? Fewer complications and improved clinical outcomes compared to general Anesthesia.

Reduction in perioperative complications compared to General Anesthesia and Systemic Analgesia.

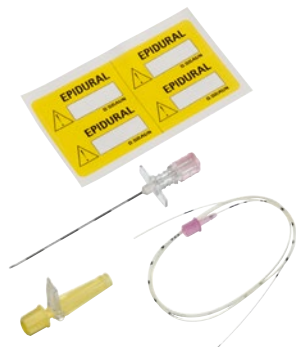
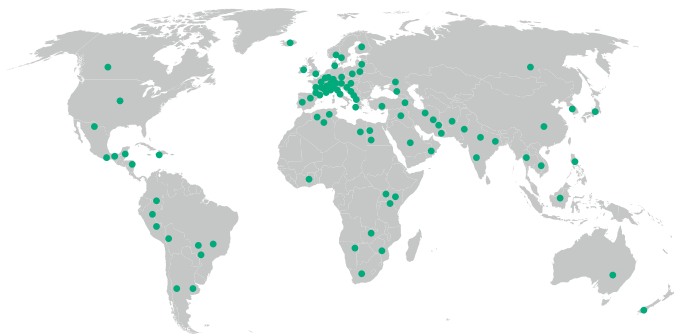


B. Braun epidurals: Enhancing recovery adapting to you needs.

For over **50 years**, B. Braun has produced a variety of epidural products that served your clinical needs and reduced the complications felt by your patients. We bring **reliability – versatility and patient safety** to your practice.

Reliability

Trusted by healthcare professionals worldwide, sold in more than **130 countries**.



Versatility

in Luer and NRFit® versions allowing you to choose according to your needs.

- Stand alone devices
- Epidural sets
- Customized procedure sets
- Accessories

Patient safety

Each device component adds a layer of safety to your procedure, helping to reduce several risks such as:

- Catheter shearing
- Paresthesia
- Bacterial infections
- Confusion with standard syringes
- Potential disconnections



Perifix® epidural sets

Comprehensive epidural solutions from the market leader in regional anesthesia

Perifix LOR syringe: Parabolic graduation of syringes reduce the risk of confusion with conventionally-marked syringes, suitable for air and saline application.

Perican® in various lengths and gauges, designed to provide consistent tactile feedback, controlled needle advancement, and reduced risk of catheter shearing thanks to their polished inner bevel edge, adding safety to your practice.



Perifix® catheters range. Our catheter portfolio is flexible and kink resistant, designed for enhanced anesthetic spread.

Manufactured without natural rubber/latex, DEHP or PVC, flexible and kink-resistant, visible under X-rays & MR conditional.

Length markings are consistent part of our design. Catheter threader included.

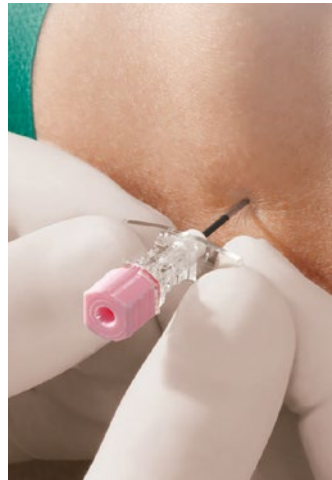
Perifix® Filter reduces the risk of bacterial infections, non pyrogenic.

Perifix®PinPad allows rotation of the Perifix® Filter preventing strain on the catheter and reducing manipulation of the catheter connector reducing potential disconnections.

Perifix® catheter connector provides tactile and audible feedback upon closure plus a viewing window to ensure successful connection and safe catheter fixation.

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.

Perican® 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 epidermoid 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
- MR 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
- MR 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
- MR conditional

Luer portfolio overview






Sets for epidural anesthesia (Luer)







Perican® Tuohy epidural needles														
<div><div></div>20 G ø 0.90 mm / Length 50 mm</div> <div><div></div>18 G ø 1.30 mm / Length 80 mm</div> <div><div></div>18 G ø 1.30 mm / Length 50 mm (Paed Set)</div> <div><div></div>16 G ø 1.70 mm / Length 80 mm</div>		Perican® Tuohy epidural needle		Perifix® ONE epidural catheter, 6 lateral eyes			Perifix® epidural catheter, 3 lateral eyes		central opening		3 lateral eyes		Perifix® Loss-of-Resistance (LOR) syringe, Luer-Slip	
		50/80 mm	120 mm	24 G	20 G	19 G	20 G	19 G	20 G	20 G				
Complete sets	Type	Perican®		Perifix® ONE			Perifix® standard			Perifix® SoftTip		Perifix® LOR syringe		
Perifix® standard catheter														
Perifix® 420		<div></div>					<div></div>							
Perifix® 421		<div></div>					<div></div>							<div></div>
Perifix® 431		<div></div>						<div></div>						<div></div>
Perifix® SoftTip catheter														
Perifix® 900		<div></div>									<div></div>			
Perifix® 901		<div></div>									<div></div>			<div></div>
Perifix® ONE catheter														
Perifix® ONE 420		<div></div>			<div></div>									
Perifix® ONE 421		<div></div>			<div></div>									<div></div>
Perifix® ONE 431		<div></div>				<div></div>								<div></div>
Filter sets														
Perifix® standard catheter														
Perifix® 400		<div></div>					<div></div>							
Perifix® 401		<div></div>					<div></div>							<div></div>
Perifix® 402		<div></div>						<div></div>						<div></div>
Perifix® 451		<div></div>					<div></div>							<div></div>
Perifix® SoftTip catheter														
Perifix® 700		<div></div>									<div></div>			
Perifix® 701		<div></div>									<div></div>			<div></div>
Perifix® 730		<div></div>									<div></div>			<div></div>
Perifix® 750		<div></div>									<div></div>			<div></div>
Perifix® ONE catheter														
Perifix® ONE 400		<div></div>			<div></div>									
Perifix® ONE 401		<div></div>			<div></div>									<div></div>
Perifix® ONE 402		<div></div>				<div></div>								<div></div>
Perifix® ONE 418			<div></div>		<div></div>									<div></div>
Perifix® ONE 451		<div></div>			<div></div>									<div></div>
Pediatric filter sets														
Perifix® ONE Paed														
Perifix® ONE Paed 18		<div></div>			<div></div>									<div></div>
Perifix® ONE Paed 20		<div></div>		<div></div>										<div></div>
Mini sets														
Perifix® standard catheter														
Perifix® 100		<div></div>							<div></div>					
Perifix® 300		<div></div>					<div></div>							
Perifix® 301		<div></div>					<div></div>							<div></div>
Perifix® 302		<div></div>						<div></div>						<div></div>
Perifix® 310		<div></div>						<div></div>						

     						* Sterican® needles 25 G Length 16 mm, ø 0.50 mm 21 G Length 40 mm, ø 0.80 mm 18 G Length 40 mm, ø 1.20 mm	
Omnifix®	Omnifix®/Sterican®	Omnifix®/Sterican®	Perifix® Filter	Perifix® PinPad	Perifix® catheter connector	Sales unit/Pcs.	Code no. (REF) Luer
						10	4514203
							4514211
							4514319
						10	4510291
							4510305
						10	4514203C
							4514211C
							4514319C
						20	4514009
							4514017
							4514025
							4514513
						20	4510216
							4510097
							4517309
							4517504
						20	4514009C
							4514017C
							4514025C
							4514183C
							4514513C
						10	4512006C
							4512014C
						20	4511000
							4513002
							4513010
							4513029
							4513100

NRFit® portfolio overview

Sets for epidural anesthesia (NRFit®)

Perican® Tuohy epidural needles <div><div></div>20 G ø 0.90 mm / Length 50 mm <div></div>18 G ø 1.30 mm / Length 80 mm <div></div>18 G ø 1.30 mm / Length 50 mm (Paed Set) <div></div>16 G ø 1.70 mm / Length 80 mm</div>											
	Perican® Tuohy needle		Perifix® ONE epidural catheter, 6 lateral eyes			Perifix® epidural catheter, 3 lateral eyes		Perifix® SoftTip epidural catheter, 3 lateral eyes		Perifix® Loss of Resistance syringe	
	50 mm	80 mm	24 G	20 G	19 G	20 G	19 G	20 G			
Set versions	Perican® with NRFit®		Perifix® ONE with NRFit®			Perifix® Standard with NRFit®		Perifix® SoftTip with NRFit®		Perifix® LOR syringe with NRFit®	
Complete sets											
Perifix® standard catheter											
Perifix® 421											
Perifix® Soft Tip catheter											
Perifix® Soft Tip 901											
Perifix® ONE catheter											
Perifix® ONE 421											
Filter sets											
Perifix® standard catheter											
Perifix® 400											
Perifix® 401											
Perifix® 402											
Perifix® SoftTip catheter											
Perifix® Soft Tip 701											
Perifix® Soft Tip 730											
Perifix® ONE catheter											
Perifix® ONE 401											
Perifix® ONE 402											
Pediatric sets											
Perifix® ONE Paed											
Perifix® ONE Paed 18											
Perifix® ONE Paed 20											
Mini set											
Perifix® standard catheter											
Perifix® 300											

						<div>* Sterican® needles</div> <div>25 G, 16 mm, ø 0.50 mm</div> <div>21 G, 40 mm, ø 0.80 mm</div> <div>18 G, 40 mm, ø 1.20 mm</div>	
Omnifix® three part syringe, 20 ml, Lock, Sterifix® filter needle	Omnifix® three part syringe, 3 ml, Lock, Sterifix® filter needle	Perifix® Filter 0.2 µm, pressure resistant up to 7 bar	Perifix® catheter connector 19 G or 20/24 G	Perifix® PinPad filter fixation	Omnifix® three part syringe, 3ml, Luer Lock, 3 hypodermic Luer needles *	<div>Caution: Hypodermic needles (for skin infiltration) stay Luer</div>	
Omnifix® and Sterifix® with NRFit®	Omnifix® and Sterifix® with NRFit®	Perifix® Filter with NRFit®	Perifix® catheter connector with NRFit®	Perifix® PinPad	Omnifix® and hypodermic needles with Luer	Units per box	Code no. (REF) NRFit®
						10	4514211N-01
						10	4510305N-01
						10	45142111N-01
						10	4514009N-01
							4514017N-01
							4514025N-01
						10	4510097N-01
							4517309N-01
						10	45140171N-01
							45140251N-01
						10	45120061N-01
							45120141N-01
						10	4513002N-01

Literature

1. <https://www.nysora.com/topics/abdomen/epidural-anesthesia-analgesia/> accessed at 12.12.2024
2. Moraca, Robert J., David G. Sheldon, and Richard C. Thirlby. "The role of epidural anesthesia and analgesia in surgical practice." *Annals of surgery* 238.5 (2003): 663-673.
3. Practice Guidelines for Obstetric Anesthesia: An Updated Report by the American Society of Anesthesiologists Task Force on Obstetric Anesthesia and the Society for Obstetric Anesthesia and Perinatology. *Anesthesiology*. 2016 Feb;124(2):270-300.