Enhance technique and reduce risk with leading-edge technology

Combined Spinal/Epidural Needle Technology for CSE procedures

B. Innovative
Why partner with B. Braun?

Confidence and Security of working with the market leader in regional anesthesia devices.

Reduced Risk by using high quality products which provide fewer complications.

Ease and Convenience of doing business with B. Braun.

Knowledge Enhancement through educational programs and resources.

Commitment to Innovation providing leading edge technology.
As the worldwide leader in regional anesthesia products for over 20 years, B. Braun has come to stand for performance and quality that you can trust. The result — CSE products engineered to provide consistent feel, delivered the way you want them.

The complete line of Espocan® Combined Spinal/Epidural Products includes:

- 17 or 18 Ga. Espocan® Tuohy Needle
- 25 or 27 Ga. Pencan® Pencil Point Spinal Needle
- 27 Ga. Spinocan® Quincke Spinal Needle
- Perifix® Standard, SoftTip or Springwound Catheter
Why choose B. Braun for your CSE anesthesia needs?

When the comfort of your patients is at stake, second best just won’t do. That’s why medical professionals have made us number one in CSE and choose Espocan® CSE products.4

**Confidence**

- Unique needle design minimizes the risk of the catheter following the same path as the spinal needle.
- Optional Espocan Docking System fixes the spinal needle in position while leaving your hands free to administer anesthetic.

The unique Espocan design allows the spinal needle and the epidural catheter to follow separate paths and directs the epidural catheter away from the dura puncture site.

Funnel-shaped inner lumen eases stylet reinsertion

Epoxy glued hub for secure connection

Clear, ergonomic hubs make it easy to see blood or CSF flashback and are easy to hold

Espocan Docking System fixes the spinal needle in place for dosing

* Available in select trays and sets
Durable Performance

• Significantly reduces paresthesia associated with the insertion of the spinal needle.¹
• Associated with more frequent successful spinal needle placement on the first attempt.¹
• Epidural needle (Perifix® Tuohy) has the highest resistance to buckling and breaking.²
• Pencan® spinal needles have outstanding flow rates.³
• Consistent tactile “feel”.
• Ergonomic design.

Variety and Convenience

B. Braun offers a full range of CSE products including:

• Espocan® Tuohy CSE needles combined with either Spinocan Quincke needles or Pencan Pencil Point spinal needles.
• Perifix catheters in 3 configurations: Perifix FX Springwound, Perifix SoftTip, or Perifix Standard catheter in open or closed tip configurations.
• Full trays that accommodate the needs of most anesthesia procedures or custom trays designed for your particular preferences.

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4. IMS data Q01 2005
Espocan® CSE Needles
Advanced needle design for added confidence.

Espocan CSE technology is a combination of the unique Espocan Tuohy Needle and your choice of either the Pencan® Pencil Point Spinal Needle or the Spinocan® Quincke Spinal Needle.

Espocan® Tuohy Needle
- Back-eye lumen allows spinal needle to track straight through to the dura, preventing needle to needle contact and directing catheter away from dura puncture site.
- Clear, ergonomic hub for improved control and easy visualization of blood or CSF.
- 1cm depth markings for easy visualization of insertion depth.
- Polished inner bevel minimizes risk of catheter shearing.
- Precision-fit stylets reduce the risk of tissue coring.

Stylets are individually hand-cut and inspected for flush, smooth fit.

- High resistance to buckling and breaking.¹

<table>
<thead>
<tr>
<th>Needle</th>
<th>Buckling Force (Newton)</th>
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</thead>
<tbody>
<tr>
<td>Perifix 17G, O.D. 0.0589 in.</td>
<td>57.49</td>
</tr>
<tr>
<td>BD 17G, O.D. 0.0577 in.</td>
<td>40.62</td>
</tr>
<tr>
<td>Perifix 18G, O.D. 0.0532 in.</td>
<td>40.32</td>
</tr>
<tr>
<td>AMI 18G, O.D. 0.0502 in.</td>
<td>27.07</td>
</tr>
<tr>
<td>Manan 18G, O.D. 0.0499 in.</td>
<td>28.58</td>
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</tbody>
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**Pencan® Pencil Point Spinal Needle**

- Highest flow rate compared to other 25G pencil point spinal needles.\(^1\) Higher flow rates enable aggressive drug distribution.\(^1\)
- 1.05mm tip-to-eyelet distance minimizes the depth of intrathecal penetration and helps protect against nerve damage and paresthesia.
- Conical, atraumatic tip provides tactile dura “click” and helps to reduce PDPH.\(^1\)

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**Spinocan® Quincke Spinal Needle**

- Precision-fit stylets reduce the risk of tissue coring.
- Outstanding flow rate permits quick CSF flashback.

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Espocan® CSE Catheters

For consistent performance and positive patient outcome.

The catheters found in our Espocan trays are the same Perifix® catheters found in our market leading epidural trays and sets.¹

Perifix catheters:

• Resist kinking and stretching
• Are easy-to-thread without metal stylet
• Are latex-free
• Feature a reliable catheter connector

Perifix Standard Catheter
- Made of polyamide nylon
- Crystal clear to easily visualize blood or CSF

Perifix FX Springwound Catheter
- Made of soft polyamide nylon and a flexible steel coil
- Two viewing windows ¾ in. wide to easily visualize blood or CSF
- Helps reduce paresthesia and vessel puncture

Perifix SoftTip Epidural Catheter
- Made of polyamide nylon
- Soft, pliable 5mm distal tip
- Helps reduce incidence of paresthesia and vessel puncture
- Same reliable feel and performance as the Perifix standard catheter

¹ IMS Data Q1 2005
Espocan® Docking System
For stabilizing the spinal needle during injection

Performing the combined spinal epidural technique requires your utmost skill and dexterity — especially after dural puncture with the spinal needle.

Your challenge is to keep the needle stabilized as you inject your intrathecal anesthetic/analgesic agent.

B. Braun has an easy solution to this challenge —

The Espocan Docking System device is a small compression sleeve you attach to the hub of the Espocan Tuohy needle prior to inserting the spinal needle.

After you achieve dura puncture and stabilize the spinal needle, a clockwise twist of the Docking System sleeve fixes the position of the spinal needle, inhibiting forward or backward movement. The spinal needle can still be rotated right or left to enhance CSF return.

1. Loosely attach Docking System to epidural hub
2. Insert sleeved spinal needle through Docking System sleeve
3. Once spinal needle is in proper position, rotate Docking System clockwise to fix spinal needle in place
4. Spinal needle can still be rotated if needed to enhance CSF return
Delivering state-of-the-art healthcare demands more than technological innovation. It requires on-going educational initiatives and clinical support that can help you and your staff maintain critical skills and master innovative techniques. That’s why health care providers around the world turn to B. Braun for comprehensive professional support.

**Aesculap Academy**

These one-day workshops focus on regional anesthesia techniques. They are CME-accredited courses that feature didactic and hands-on sessions conducted by renowned faculty. Classes are conducted at the Aesculap Academy in Center Valley, PA, or can be customized for off-site locations.

**Online Tutorial**

Log on to [www.nerveblocks.net](http://www.nerveblocks.net) and learn at your own convenience! This multimedia online tutorial allows you to update your knowledge of peripheral regional anesthesia principles and procedures. Available 24/7, the tutorial also features a discussion forum and event schedule.
B. Braun supplements its supply of leading-edge anesthesia products with a wide array of educational resources. Created to help you learn more about regional anesthesia techniques, these resources have also proved to be valuable teaching tools for your staff and patients. Items in the library come in a variety of formats and are available from your B. Braun representative or at our website, www.bbraunusa.com.

Clinical and Technical Support

Our technical support staff is also available to answer your calls about our regional anesthesia products. To speak to a trained clinician about product information or technical issues, call 800-854-6851.
Sharing Expertise.
It's more than a philosophy.
It's a promise.

Sharing expertise includes listening to the wisdom of colleagues, customers and clinicians. It's more than a philosophy. It's our promise to the healthcare community and ourselves to continuously seek knowledge.
To expand it. To apply it. To share it.
All to help improve and save lives.

This is Sharing Expertise.
This is B. Braun.

B. Heard

Call 1-800-227-2862 or your local B. Braun representative for more information on our epidural products or other B. Braun products.