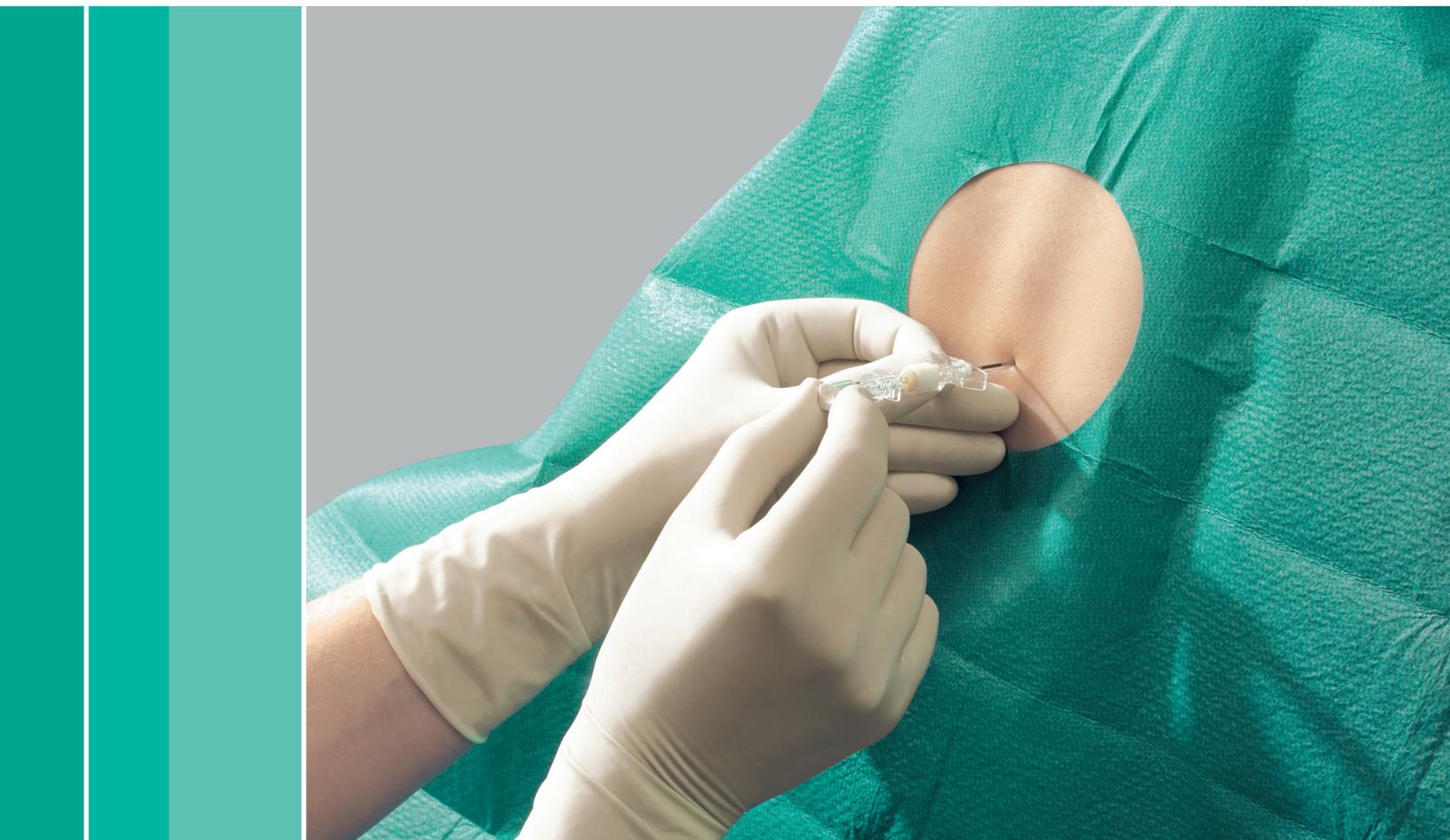


# B. Braun Combined Spinal & Epidural Anesthesia



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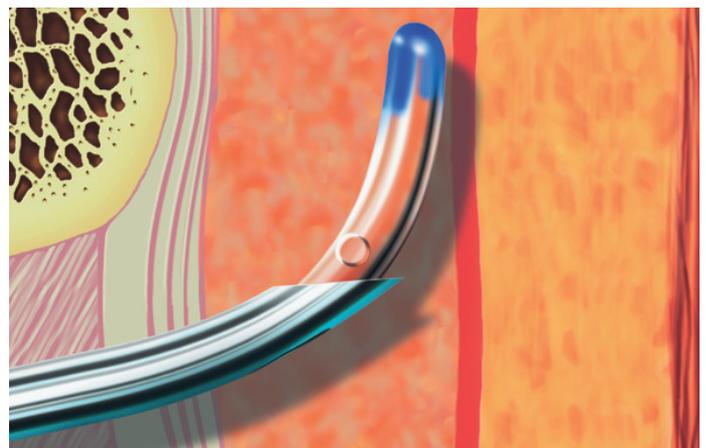
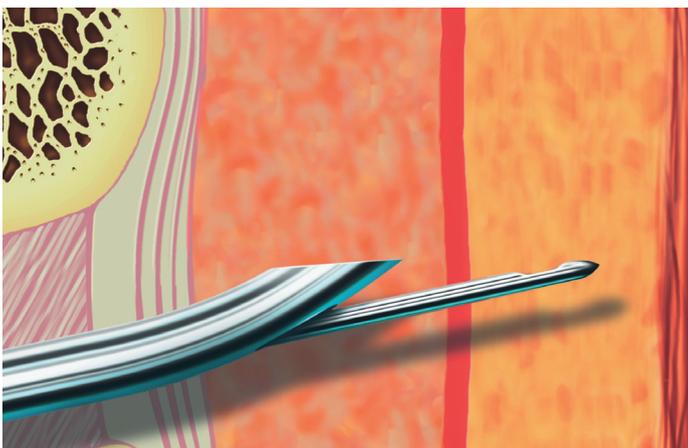
## The Perfect Team – Espocan®

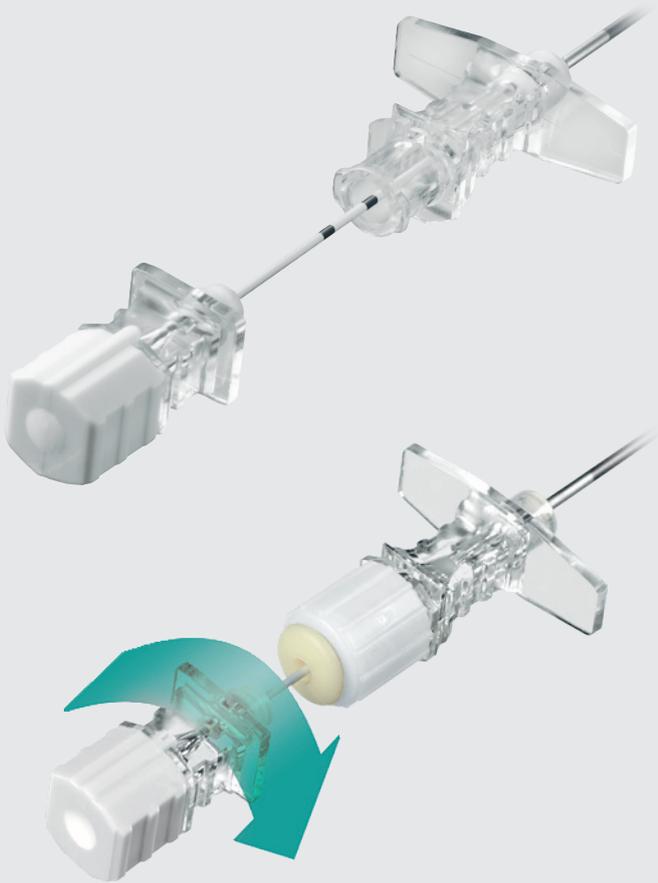
### System for Combined Spinal-Epidural Anesthesia (CSE)

CSE combines the advantages of Spinal and Epidural Anesthesia, the two major and well-established Regional Anesthesia techniques, which are used extensively in surgery and pain relief. The conventional single interspace needle-through-needle approach was further improved by the development of a special Tuohy needle with an aperture (a back-eye) in the curved tip and a spinal needle with a plastic centering sleeve. This is the core of the perfect team of highest quality and well proven devices including Perifix® LOR syringe, epidural catheter, catheter connector as well as the Perifix® filter with PinPad. The perfect team you can always rely on.

#### User benefits

- Perfectly matching components for a safe procedure
- Back-eye in Tuohy needle for safe insertion of spinal needle
- Docking system for safe fixation of spinal needle
- Sleeved spinal needle for smooth exit through the Tuohy needle back-eye and optimal tactile feedback



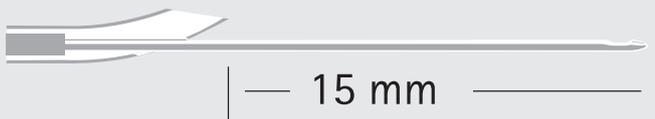


#### Markings on spinal needle for Espocan®

For more safety the spinal needles in each Espocan® set have special markings to indicate the moment when the spinal needle tip passes the back-eye. The markings refer to the use either with or without docking system.

#### The docking system

- Ensures safe and easy fixation of the spinal needle inside the Tuohy needle after successful dural puncture
- Allows rotation of the spinal needle even in the fixed position
- Avoids the difficult and uncomfortable finger grip to steady the spinal needle in position



The ideal protrusion of the spinal needle is:

- 15 mm for the Pencil Point needle to compensate for tenting effect
- 13 mm for the "Quincke" type needle

