Sono Cannulas
Cannulas for single shot ultrasound guided nerve blocks
"Cornerstone" reflectors

More visibility under ultrasound

Ultrasound guided regional anaesthesia has become the dominant technique. Today even the finest anatomical structures including peripheral nerves can be identified in detail and anaesthetised selectively under viewing using modern high-resolution ultrasound scanners. This method supports the traditional procedure by means of nerve stimulation. But daily practice has shown, that it is not at all that easy to identify the cannula tip definitely and clearly on the viewing screen of the ultrasonic device. Before this background, PAJUNK® has developed the “Cornerstone” reflectors in cooperation with Dr Chris Mitchell and has thereby launched a new cannula generation, with a 100%-reflection-guarantee under ultrasound monitoring.*

Guaranteed cannula tip visibility
The distal end has two embossed sections of 10 mm length each.
⇒ The ultrasound waves are reflected along a total length of 20 mm and as a result the cannula tip can be identified with absolute certainty.

Visibility regardless of the puncture angle
The nature of the “Cornerstone” reflectors guarantees ideal reflection behaviour, independent of the puncture angle.
⇒ The ultrasound waves are reflected even at very steep puncture angles.

Sophisticated layout
Each cannula segment is graduated all-around with “Cornerstone” reflectors that are offset 60°.
⇒ Perfect cannula identification is guaranteed in every position.

* See overview of studies on the reverse side
Perfect gliding qualities

The SonoPlex Stim cannulas are coated using the innovative NanoLine technology. This has excellent gliding qualities, increases visibility under ultrasound monitoring and stimulates exclusively through the non-insulated tip.

- “Cornerstone” reflectors for optimum visibility under ultrasonic monitoring
- Reflection of ultrasound waves over a 20 mm length
- Reflection even for steep insertion angles
- 360° graduation for identification in every position
- Precise stimulation and perfect gliding qualities with NanoLine

The “Cornerstone” reflectors (patent pending) are structured so that ultrasound waves are reflected without limitation. That makes the cannula tips visible and permits clear identification.
SonoPlex Stim cannulas

Double safety as a result of simulation and ultrasound

SonoPlex Stim cannulas were developed by PAJUNK® especially for single shot applications to be used in peripheral block anaesthesia. They are available with a SPROTTE® tip or facet tip. The standard design with NanoLine coating and “Cornerstone” reflectors provides the user with the combination of ultrasound and stimulation for double safety.

The adaptable injection tube allows for simultaneous aspiration and injection. It can be removed by anaesthetists at any time if it gets in the way during work.
There are two different tip geometries available for the user to choose from:

**The SonoPlex Stim cannula with SPROTTE® tip**

The closed tip of this cannula assists the anaesthetist in the atraumatically precise localisation of the nerve.

**The SonoPlex Stim cannula with Facet tip**

In comparison with conventional sharp cannulas, this special facet tip reduces the risk of injury to a minimum, and it ensures for an excellent quality of the puncture.
Abdominal blocks, in particular TAP blocks (transverse abdominis plane blocks) and rectus sheath blocks, are increasingly being used for the management of postoperative pain from abdominal surgery. They are applicable to day surgery, have a low side effect profile and offer an alternative to epidural anaesthesia for abdominal surgery. Ultrasound guidance has improved the accuracy of abdominal blocks but the visibility of the cannula tip remains a problem. As a pioneer in regional anesthesia, PAJUNK® has developed the SonoTAP cannula that focuses on the optimization of visibility of the cannula tip for safe and reliable pain relief.

**SonoTAP cannulas**

**Precision for abdominal blocks**

The SonoTAP cannulas are equipped with an injection tube as standard.

**Unilateral blocks for:**
- Appendix removal
- Hernia operations
  (supported by block of the nervus genitofemoralis)
- Iliac crest bone graft harvesting

**Bilateral blocks for:**
- Caesarean delivery
- Hysterectomy
- Prostatectomy
- Midline incisions
- Laparoscopic operations

These techniques form an integral part of the multi-modal anaesthesia concept.
SonoTAP cannula with facet tip

The injection space for the TAP block is limited and lies relatively deep.

- The facet tip of the SonoTAP cannula provides double security: On the one hand, it guarantees clear identification under ultrasound and on the other hand, precise tactile localisation.
SonoEye cannulas

Peribulbar and retrobulbar blocks under ultrasonic monitoring

Eye blocks ensure excellent anesthesia with a high success rate for ophthalmologic surgery. SonoEye combines the proven Atkinson tip with the innovative “Cornerstone” reflectors for optimum visibility under ultrasonic monitoring in one cannula. The best requirements for safe placement of the cannula for peribulbar and retrobulbar blocks.
SonoEye cannula with Atkinson tip
The Atkinson tip guarantees a good skin penetration capability but is blunt enough to exclude to a large extent injuries to the sclera, blood vessels and nerves in the region of the eye socket.
### SonoPlex Stim cannulas

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### SonoTAP cannulas

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- Lucie Beylacq, M.D., Mahira Penna, Jr., Frederique Boutin, M.D., Amelie Lasserre, M.D., Pierre Maurett, M.D., Ph.D., Karine Nouette-Gaulain, M.D., Ph.D. Ultrasound-guided Peribulbar Block: First Description of a Technique on Fresh Human Cadavers, © 2011 American Society of Anesthesiologists


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