Field of application of the VascularSono cannula “out-of-plane” and “in-plane”

- Innovative generation of cannula with “Cornerstone” reflectors
- Excellent echogenic properties
- Guaranteed visibility even for flat puncture angle
- Risk of complications reduced to a minimum

VascularSono

<table>
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<tr>
<th>Product</th>
<th>Matching with guidewire up to</th>
<th>Size</th>
<th>Item no.</th>
<th>Price</th>
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<td>21 G x 35 mm</td>
<td>1187-4M035</td>
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VascularSono

The echogenic cannula for ultrasound guided central venous and arterial punctures

VascularSono is a brightly echogenic vascular puncture cannula that maximizes the advantages of ultrasound guidance, and hence it will reduce complications. Ultrasound guidance of central venous and arterial access has improved safety and become the standard, but at the steep puncture angle required, the ultrasound waves striking conventional needles are reflected away from the ultrasound transducer making the needle shaft invisible.

The tips of conventional needles are also difficult to see and it is often necessary to infer the needle tip position from tissue movement. Due to these difficulties, complications such as failure to insert the guide wire, arterial puncture, haematoma and pneumothorax continue to occur.

VascularSono incorporates “Cornerstone” reflectors, which are on the distal 2 cm of the cannula. This technology, developed by PAJUNK®, is already being used successfully in PAJUNK® regional anaesthesia needles. The “Cornerstone” reflectors guarantee the visibility of the cannula shaft, independent of the puncture angle. When a blood vessel is viewed in “short axis” and the VascularSono cannula is advanced in an “out of plane” orientation, the tip is easily guided to the middle of the vessel. In addition the VascularSono cannula can be easily viewed “in plane” which facilitates exact positioning of the tip within the vessel, optimizing insertion of the guide wire.

Marking

The black marking on the cannula hub simplifies checking the position of the cannula tip.

Sophisticated Cornerstone texture

The distal end of the VascularSono cannula is equipped with two Cornerstone segments (circumferential array, 60° staggered). Identification of the cannula in every position is optimized.

Visibility – independent of the puncture angle

The alignment of the “Cornerstone” reflectors was designed to maximize the reflection when the cannula is inserted at a steep puncture angle. The effect is that the cannula is perfectly visible at every puncture angle.

Perfect antifriction properties

Cannula version with bevelled tip.

Excellent antifriction properties in all tissue layers.

The “Cornerstone” reflectors (patent pending) are arranged around the VascularSono cannula. The “Three-walled” indentation guarantees reflection of ultrasound waves independent of the cannula position.

Precise fit

The cannula is designed to facilitate smooth insertion of all standard guide wires.

The tips of conventional needles are also difficult to see and it is often necessary to infer the needle tip position from tissue movement. Due to these difficulties, complications such as failure to insert the guide wire, arterial puncture, haematoma and pneumothorax continue to occur.