

Vertebroplasty accessories

Vertebral body stabilisation with Vertebroplasty

Article	Packing unit		Art.-No.		
Injection Systems / Syringes					
VerteStable® SIS	5		458040		
2.5 ml syringe with wings and Luer-lock connection	20		SI02.5L /L-A		
Application Cannulas					
VerteStable® cannula			Length		
Diameter			125 mm	150 mm	
11 G	3.00 mm	25	-	458043	458044
VERTEBROSTEEL®					
Diameter		100 mm		120 mm	150 mm
11 G	3.00 mm	10	KMFVT1110000C-A	KMFVT1112000C-A	KMFVT1115000C-A
13 G	2.50 mm	10	KMFVT1310000C-A	KMFVT1312000C-A	KMFVT1315000C-A
15 G	1.80 mm	10	KMFVT1510000C-A	KMFVT1512000C-A	KMFVT1515000C-A
VERTEBROPLASTIC® - Bevel Tip					
11 G	3.00 mm	10	KRVT1110200CBP-A	KRVT1112200CBP-A	KRVT1115200CBP-A
13 G	2.50 mm	10	KRVT1310200CBP-A	KRVT1312200CBP-A	KRVT1315200CBP-A
15 G	1.80 mm	10	KRVT1510200CBP-A	KRVT1512200CBP-A	KRVT1515200CBP-A
VERTEBROPLASTIC® - Trocar Tip					
11 G	3.00 mm	10	KRVT1110200CT-A	-	KRVT1115200CT-A

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2.5 ml syringe, VERTEBROSTEEL®, VERTEBROPLASTIC® Biopsybell s.r.l.

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Vertebroplasty procedure

»Vertebroplasty is a procedure for the treatment of bone pain«

„Vertebroplasty is a medical treatment method which can be suitable for patients with back pain. For a variety of diseases that come along with strong bone pain of the vertebra good results were achieved with Vertebroplasty in the past. These diseases are predominately osteoporosis as well as the attack by tumors.

Bone pain originates by an increasing instability of the bone that leads to deformations of it. On the one hand the pain emergence due to the fracture itself but also due to the irritation of the surrounding periosteum. Because this periosteum is been fed by many ‚pain nerves‘, the patient senses pain. By using Vertebroplasty the lost bony structure is been compensated by bone cement, fragments are reconnected and the bone is stabilized from the inside. Thereby the painful deformation is prevented and the patient experiences a fast and long-lasting pain relief.“



Prof. Dr. med. Johannes Hierholzer
Chief physician of the diagnostic and interventional radiology
Ernst-von-Bergmann Clinic, Potsdam, Germany

Vertebroplasty accessories

For the application of the PMMA bone cement into the vertebral body during a vertebroplasty procedure several accessories are used e.g. injection systems/syringes. After mixing of the PMMA bone cement components the PMMA bone cement is transferred out of the mixing system into injection systems or syringes. After filling of the injection systems/syringes the PMMA bone cement is injected over cannulas into the vertebral body to be treated. The PMMA bone cement will be hard in just minutes – see handling chart of the PMMA bone cement. Vertebroplasty is little stressful and elderly patients can be treated outpatient with local anesthesia. The treatment of several vertebral bodies is possible with one surgical procedure.

Injection systems / Syringes



2.5ml syringe

- Syringe with 2.5 ml capacity
- Self-explanatory handling
- Standard Luer-lock connection for all standard vertebroplasty components
- Easy to use



VerteStable® SIS

- Syringe with 3 ml capacity
- Ergonomical design and self-explanatory handling
- Operation with only one hand
- Significantly longer application times compared to conventional polycarbonate syringe
- Reduced risk of leakage by direct and perceptible force transfer
- Standard Luer-lock connection for all standard vertebroplasty components

Application cannulas



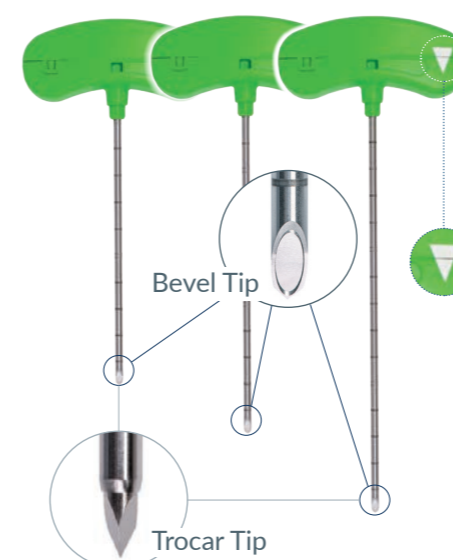
VerteStable® cannulas

- High stability (wall thickness 0.375 mm)
- Smooth edge
- Supplementary guide to penetration depth with engraved cm markings with 5 and 10 marks
- The notch at the mandrin head enables the position of the cannula point to be located
- The solid metal attachment of cannula and mandrin withstands the impact of a surgical hammer
- Luer Lock connection for standard syringes
- **Two different lengths**
125 mm | 150 mm
- **Diameter**
3.00 mm (11 G)



VERTEBROSTEEL® cannulas

- AISI 304 stainless steel cannula and stylet
- Cannula with ergonomic steel handle
- Easy handling of the needle due to enhanced design of the steel handle
- Coaxial biopsy can be performed with VERTEBROSTEEL®
- Tip Direction Indicator
- **Three different lengths**
100 mm | 120 mm | 150 mm
- **Diameter**
3.00 mm (11 G) | 2.50 mm (13 G) | 1.80 mm (15 G)



VERTEBROPLASTIC® cannulas

- AISI 304 stainless steel cannula and stylet
- Cannula with plastic handle
- Ergonomic grip with locking system
- Easy handling of the needle due to enhanced design of the plastic handle
- Coaxial biopsy can be performed with VERTEBROPLASTIC®
- Tip Direction Indicator (just for Bevel Tip)
- **Different lengths**
Bevel Tip: 100 mm | 120 mm | 150 mm
Trocar Tip: 100 mm | 150 mm
- **Diameter**
Bevel Tip: 3.00 mm (11 G) | 2.50 mm (13 G) | 1.80 mm (15 G)
Trocar Tip: 3.00 mm (11 G)