



Davin Med

| VERTEBRAL COMPRESSION FRACTURE

Vertebroplasty Instruments



Minimally Invasive

Small incision for
reduced tissue trauma



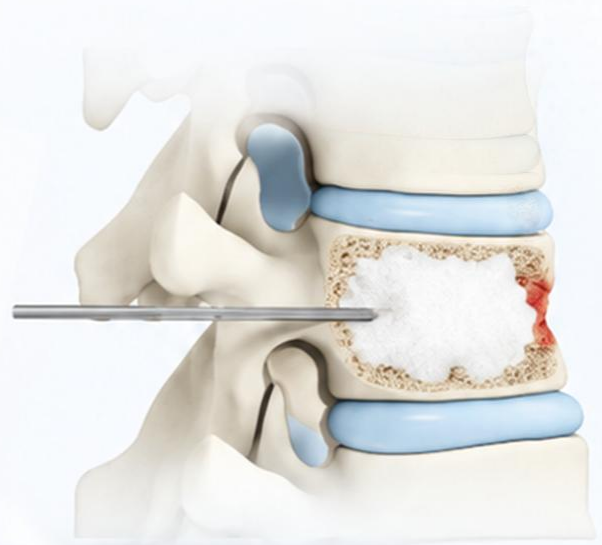
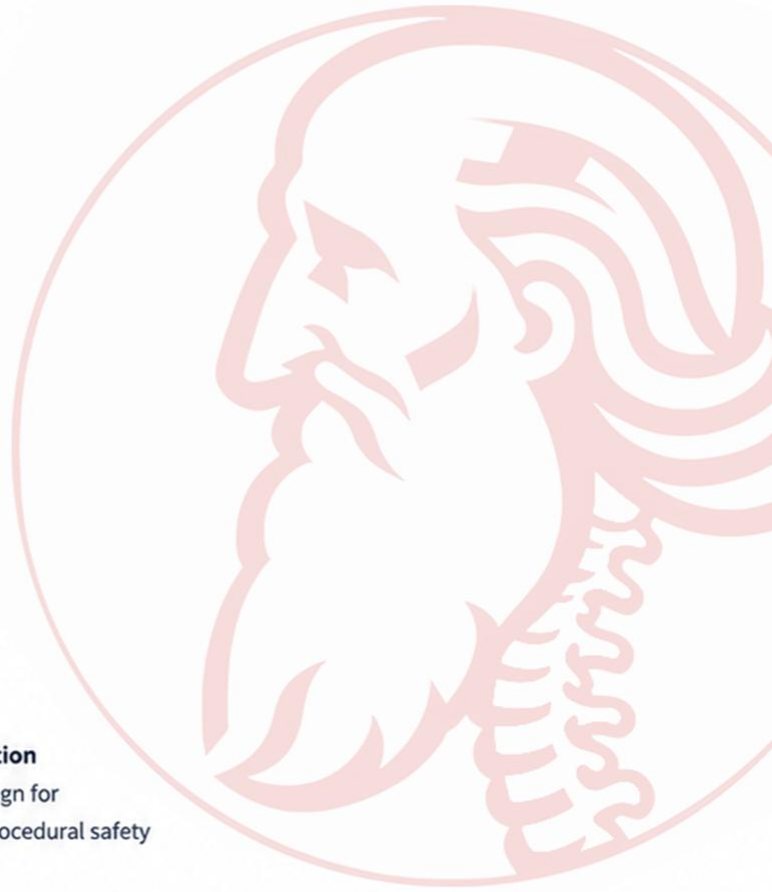
Precise Positioning

Accurate control for
optimal cement delivery



Safe Operation

Reliable design for
enhanced procedural safety



• Product Introduction

- Percutaneous Vertebroplasty instrument sets are designed for minimally invasive treatment of Vertebral Compression Fractures (VCFs). Available in complete kits or separate single instruments for flexible selection.
- Type I PVP Instrument Kit: Equipped with standard puncture & dilation system, biopsy harvesting system and bone cement injection system.
- Type II PVP Instrument Kit: Optimized configurations including upgraded drill bits, biopsy extractors and bone cement injectors.
- Type III PVP Instrument Kit: Integrated puncture and dilation design, delivering simplified workflow for experienced surgeons.

✓ Indications

- ✓ Fresh simple compression fractures of thoracolumbar vertebrae caused by osteoporosis in middle-aged and elderly patients without neurological injuries.
- ✓ Chronic spinal compression fractures (duration over 6 months) with severe kyphosis and intractable back pain resulting from fracture.
- ✓ Multi-level compression fractures of adjacent vertebrae secondary to osteoporotic vertebral fractures.
- ✓ Pathological compression fractures induced by benign and malignant vertebral tumors.

! Contraindications

- Burst vertebral fractures accompanied by neurological impairment.
- Elderly patients with severe cardiac, hepatic or renal dysfunction who cannot tolerate surgery.
- Compression fractures combined with facet joint or intervertebral joint dislocation.
- Patients suffering from osteomyelitis or systemic infection.
- Hyperlipidemia patients with a history of lower limb or systemic vascular embolism.
- Pregnant women.

• Specialized Instruments



Type A Puncture Instrument



Dilator



Type B Puncture Instrument:
Integrated Puncture & Dilatation Tool



● SPECIALIZED INSTRUMENTS

Type C Drill

Standard drill design for creating vertebral access channels with precise and efficient drilling.

Standard thread design for stable advancement



Type D Drill

Fine pitch design controls insertion depth and helps prevent tissue damage for safer operation.

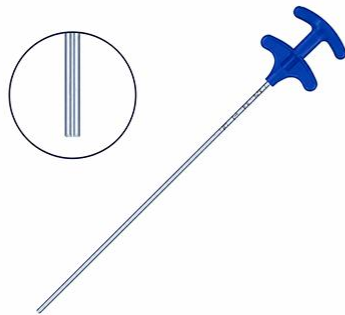
Fine pitch with controlled depth



Universal Bone Cement Injector

Standard straight-tip design for precise bone cement injection with controlled delivery.

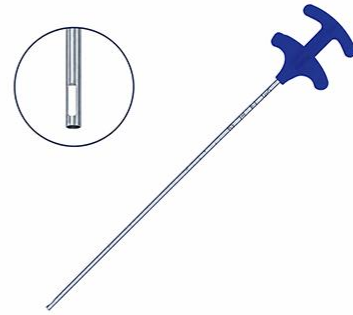
Straight tip design for stable injection



Side-Port Bone Cement Injector

Side-port outlet design improves cement distribution and filling performance.

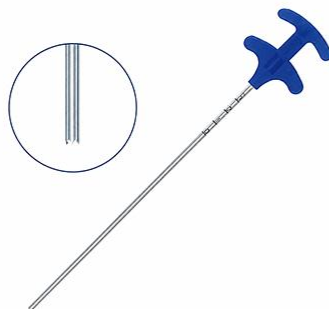
Side outlet for uniform cement distribution



Triangular Biopsy Extractor

Triangular cutting tip design for vertebral tissue biopsy sampling with sharp cutting performance.

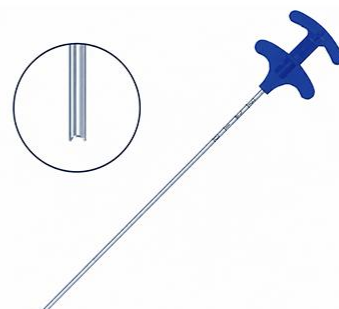
Triangular tip for accurate sampling



Crescent Biopsy Extractor

Sharp cutting edge enables convenient biopsy while maintaining a smooth bone channel without burrs.

Crescent tip for smooth access





● Product Configuration

QZTC-I Type

No.	Name	Type	Specification	Quantity
1	Puncture Needle	Type A	Φ3.0	2
2	Guide Wire	-	Φ1.6	2
3	Dilator	-	Φ4.2	2
4	Drill	Type C	Φ3.5	1
5	Biopsy Extractor	Triangular	Φ3.5	1
6	Bone Cement Injector	Universal	Φ3.5	5
7	Bone Cement Mixing Rod	-	-	1

QZTC-II Type

No.	Name	Type	Specification	Quantity
1	Puncture Needle	Type A	Φ3.0	2
2	Guide Wire	-	Φ1.6	2
3	Dilator	-	Φ4.2	2
4	Drill	Type D	Φ3.5	1
5	Biopsy Extractor	Crescent	Φ3.5	1
6	Bone Cement Injector	Universal	Φ3.5	3
7	Bone Cement Injector	Side Port	Φ3.5	2
8	Bone Cement Mixing Rod	-	-	1

QZTC-III Type

No.	Name	Type	Specification	Quantity
1	Puncture Instrument	Type B	Φ4.2	2
2	Drill Bit	Type C	Φ3.5	1
3	Biopsy Extractor	Triangular	Φ3.5	1
4	Bone Cement Injector	Universal	Φ3.5	5
5	Bone Cement Mixing Rod	-	-	1

● Product Configuration



Good trafficability

Smooth insertion and excellent deliverability.



Good recoverability

Rapid balloon folding for easy retrieval.



Conductive to decompression

Effective creation of working cavity for bone cement injection.



Limit mark:

Accurate identification of balloon position, also can effectively reduce the number of fluoroscopy.



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Balloon folding:

Quick and effective recovery to the original state.

