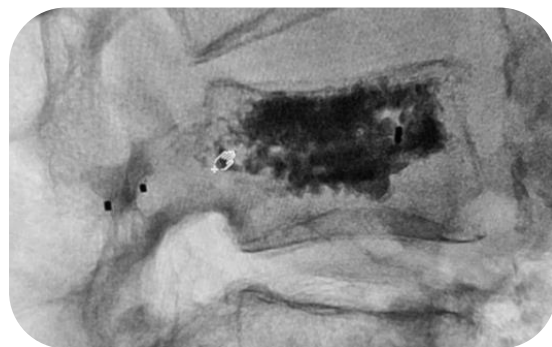
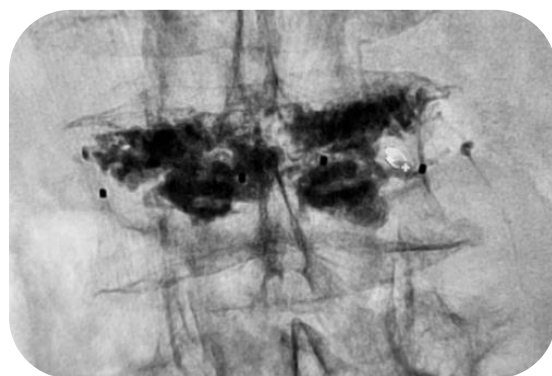


hy prevention[®]

UNIQUE PEDICLE ANCHORAGE FOR FULL VERTEBRA REINFORCEMENT

 VSTRUT[®]

TRANSPEDICULAR
VERTEBRAL SYSTEM



A  STRUTPLASTY[®] TECHNIQUE FOR BONE CONSOLIDATION

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PRODUCT & INDICATION

VSTRUT® VERTEBRAL IMPLANT is indicated for use in the treatment of vertebral fractures in the thoracic and lumbar spine (T1 to L5).

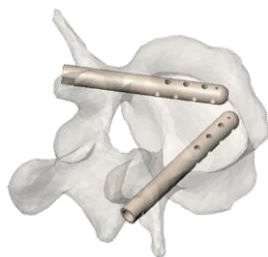
It is intended to be used in combination with PMMA bone cement for vertebroplasty and kyphoplasty (*Teknimed F20® bone cement*).

The recommended use is for the treatment of:

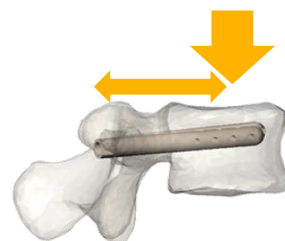
- **Osteoporotic fractures, mobile or non-mobile, OF1, OF2 or OF3 (AO Classification)**
- **Fractures or impending fractures due to cancer** that can be combined with tumor ablation
- **Pedicle involvement**, 64% of osteoporotic compression fractures present a pedicle involvement (*2010 Ishiyama et al.*)
- **Vertebral cleft fracture**, to prevent cement nonunion (*2021 Tomas et al.*)

MAIN CHARACTERISTICS

1. Implant made of PEEK Polymer (close to normal bone)



2. Pedicle anchorage to share axial loading between anterior and posterior column and reinforce pedicles



3. Cement distribution control (lateral holes in vertebral body only)



4. Full vertebrae reinforcement (vertebral body + pedicles)

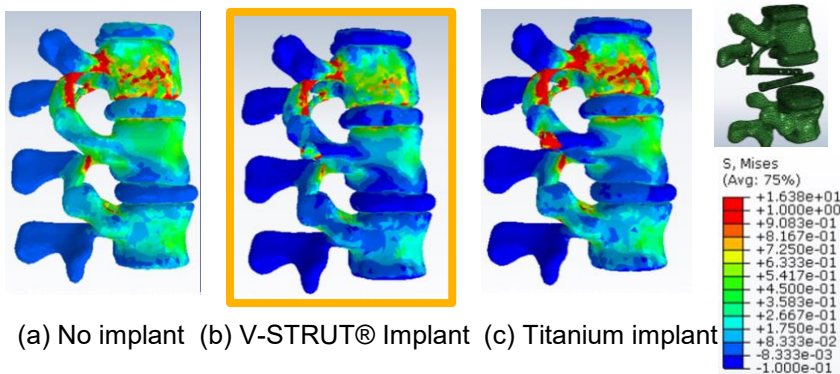




BIOMECHANICS & CLINICAL OUTCOMES

FINITE ELEMENTS ANALYSIS

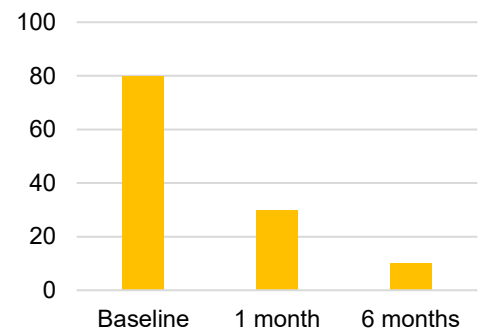
Stress distribution at treated and adjacent levels



- **Stress absorption achieved by the PEEK Implant** (2023 Hambli et al)
- **Stress limitation with 4cc bone cement** (2024 Vienney et al.)

CLINICAL EXPERIENCE

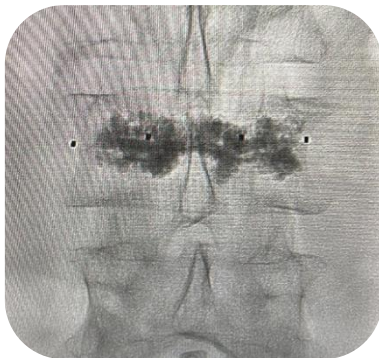
VAS Score



- **Significant pain reduction**
- **Subsequent and adjacent fractures limitation** (2025 De Leacy et al.)

CLINICAL CASES

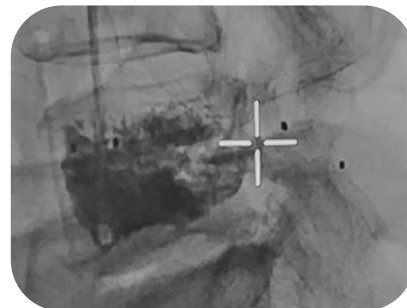
Female, 72yo, osteoporosis, L3



Female, 69yo, osteoporosis, L3



Female, 63yo, L5, cancer with RF ablation





TRANSPEDICULAR VERTEBRAL SYSTEM

RANGE OF SIZES

INSTRUMENTATION



IMPLANT DIAMETER 4.5 mm		IMPLANT DIAMETER 5.5 mm		IMPLANT DIAMETER 6.5 mm	
REF	Length	REF	Length	REF	Length
34525	25 mm	-	-	-	-
34530	30 mm	-	-	-	-
34535	35 mm	-	-	-	-
34540	40 mm	35540	40 mm	36540	40 mm
34545	45 mm	35545	45 mm	36545	45 mm
34550	50 mm	35550	50 mm	36550	50 mm
34555	55 mm	35555	55 mm	36555	55 mm
34560	60 mm	35560	60 mm	36560	60 mm

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Medical device

For more information, see the instructions for use

PATENTED

FDA CLEARED (class II)



PLA-HYP02-EN V12