

Height Restoration with Kyphoplasty and vertebroplasty - a cadaver study

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Purpose

Compare height restoration
with
Vertebroplasty and Kyphoplasty
in a cadaver model

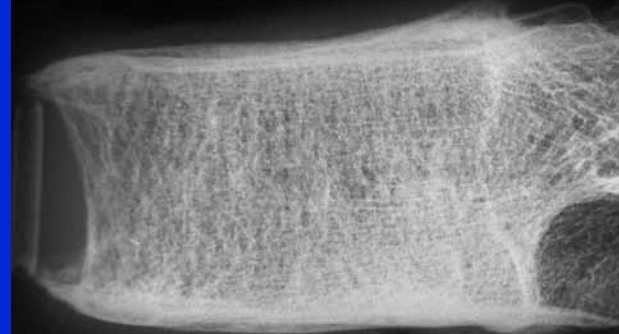
Materials

**17 vertebral bodies
from donated cadavers
(7 Lumbar and 10 thoracic)
Average age 82 years**

Methods

Initial height

CT and Radiograph



Vertebroplasty L1 initial

Compression fractures

CT and Radiograph



Vertebroplasty fx L1

Kyphoplasty or vertebroplasty

CT and Radiograph



Vertebroplasty L1 post tx

Compression technique



Vertebroplasty

n=9

Initial

23 mm



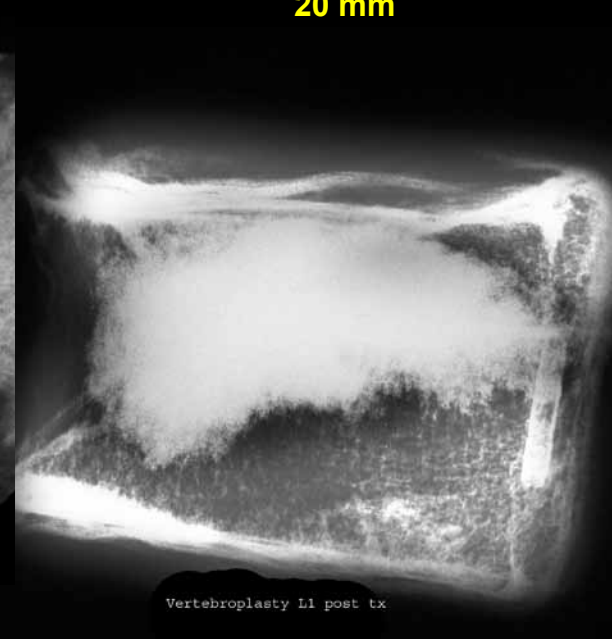
Fracture

17 mm



Treatment

20 mm



Kyphoplasty

n=8

Initial

24 mm



Fracture

18 mm



Treatment

22 mm



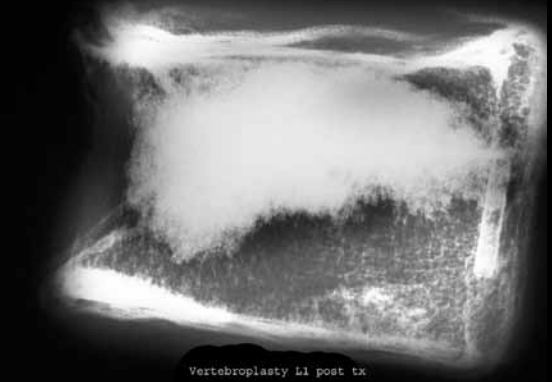
Results

vertebral body height

	Initial	Fracture	Treatment	Increase (mm)	Restoration of initial height (%)
Vertebroplasty	23	17	20	2.6	87%
Kyphoplasty	24	18	22	4.2	92%

- **P>0.05**

Vertebroplasty 87%



Kyphoplasty 92%



P>0.05

Conclusion

No statistically significant difference in height restoration (87% vs 92%)

Larger material is in progress

Clinical studies