



Vertebroplasty Is Safer When Applied With Vertebrography

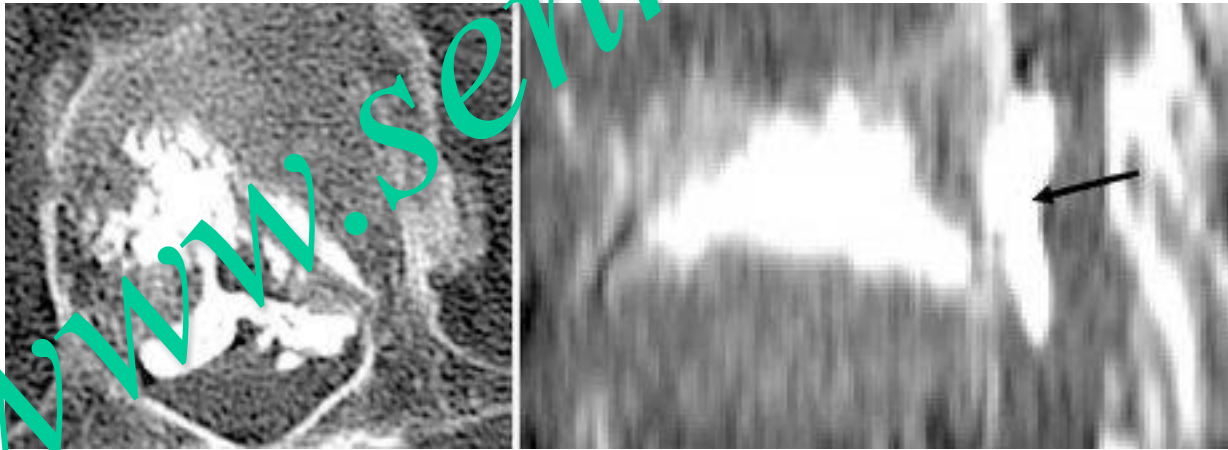
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Introduction

- Between 38-85 % of cement leakage rate has been reported during vertebroplasty procedures

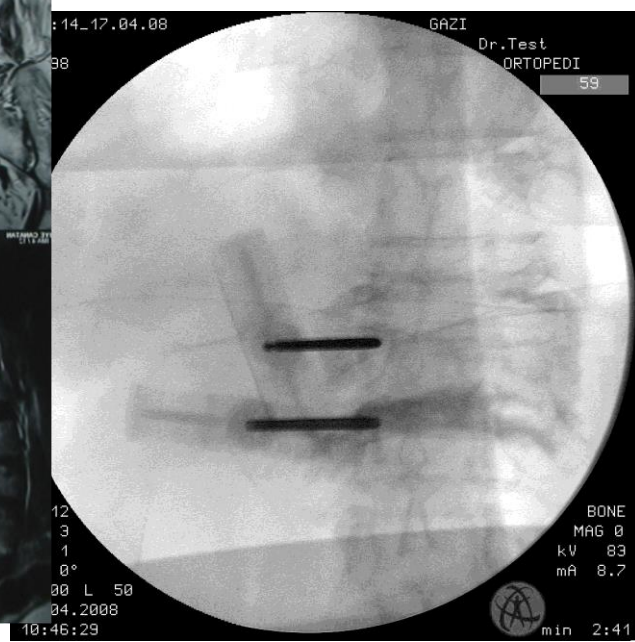
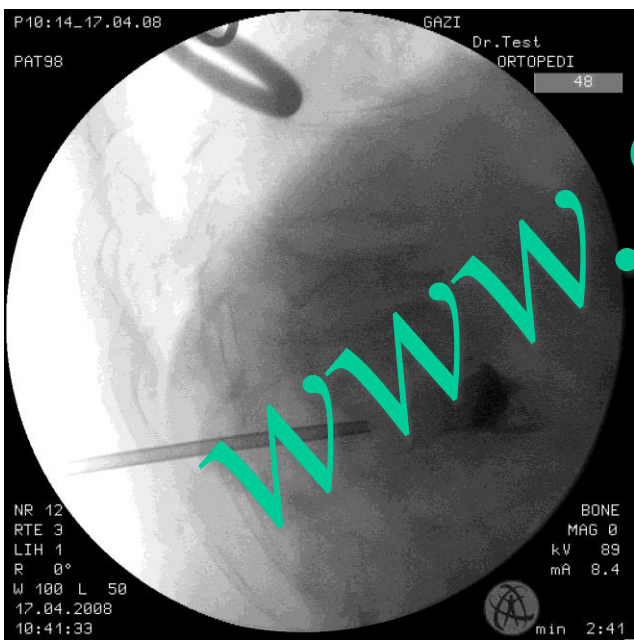
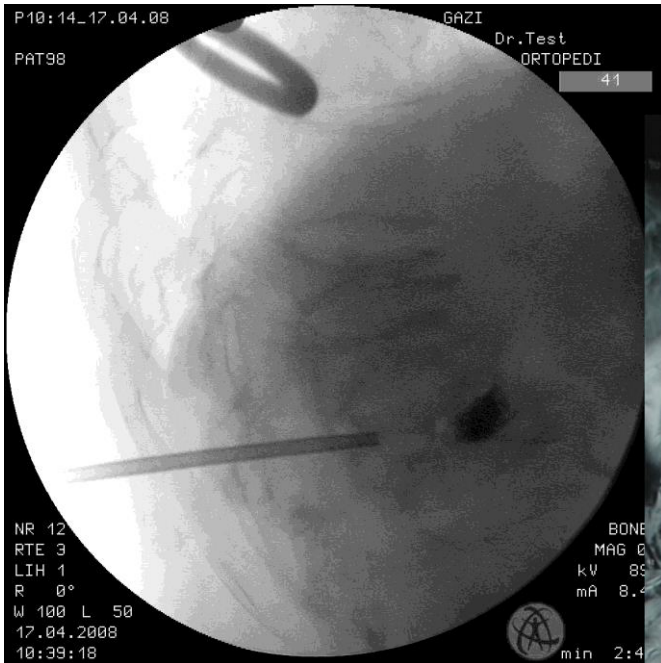


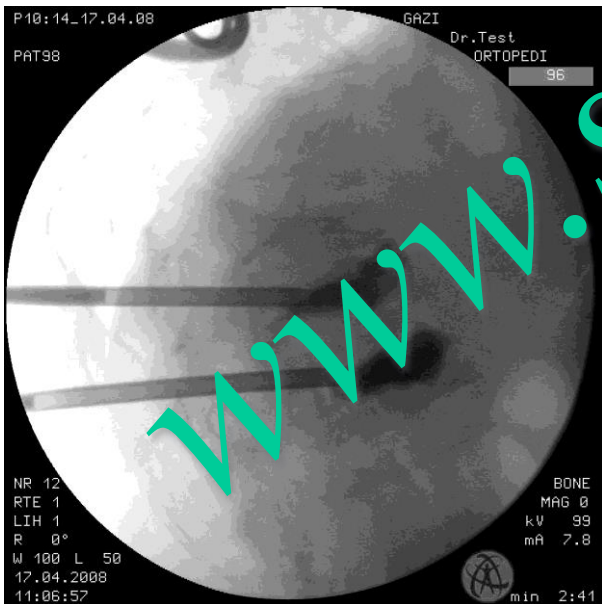
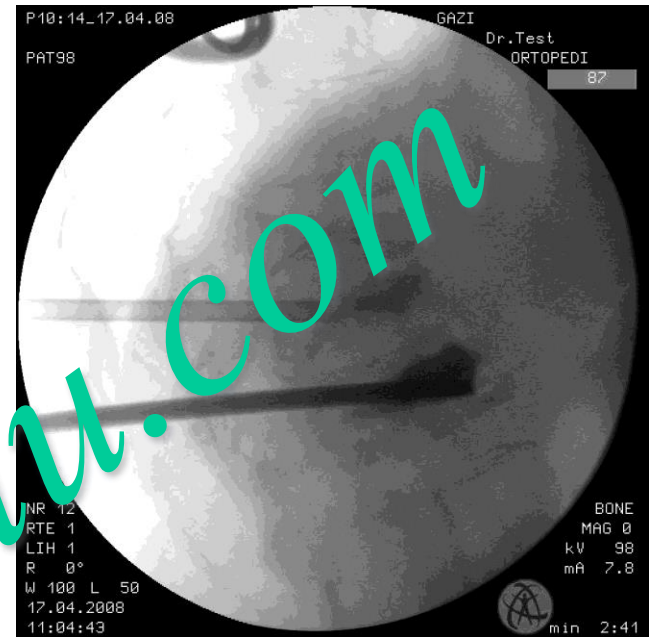
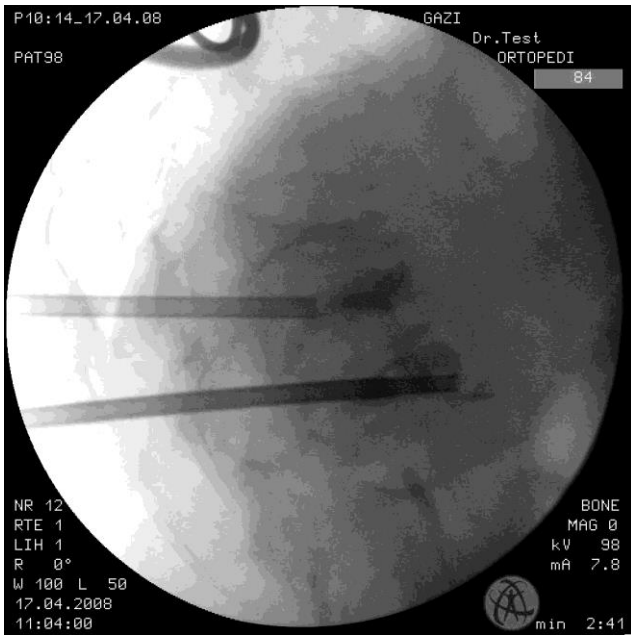
Aim

- Contrast media injection (venography or vertebrography) has been advocated before the cement injection during vertebroplasty
- Our aim in this study, to evaluate of effectiveness of contrast injection before cement application

Materials and Method

- 30 percutaneous vertebroplasty procedures
- 26 patients suffered from osteoporotic vertebral fx
- 4 patients with metastatic or primary tumor
- 18 F, 12 M
- Average age was 72 (41-87)
- Mean FU 17 months (3-28)
- Non-ionic contrast (Omnipaque®)







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Results

Level	Vertebroplasty	(%)
T6	1	3.3
T8	1	3.3
T10	1	3.3
T11	1	3.3
T12	4	13.2
L1	8	26.4
L2	5	16.5
L3	3	9.9
L4	4	13.2
L5	1	3.3
Total	30	100

- In 18 levels both pedicles were used for cement injection
- In 12 levels just one pedicle was used for injection
- 4.5 ml (3-7 ml) cement

Clinical Evaluation

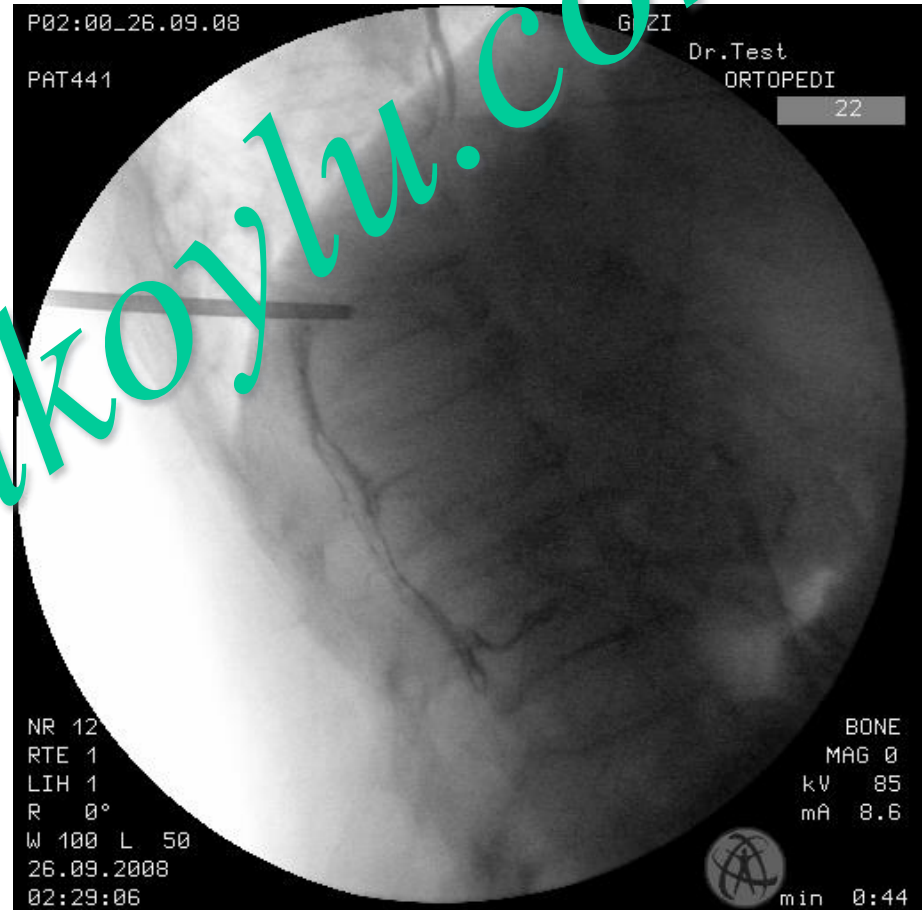
	Preop	Postop	Last FU
VAS (mean)	8	1.7	2
ODI (mean)	70.9	31	27

Radiologic Evaluation

	Preop	Postop
Local kyphosis angle(SD)	27(6.8)	25(6.5)
Wedging index (SD)	60.8(8)	63.5(7)
Compression rate% (SD)	61.3(7.6)	61.5(7.5)

Results

- Contrast media leakage to the epidural space was encountered in **three patient**
- There was no allergic reaction or adverse effect due to the contrast media



Conclusion

- Non-ionic contrast media injection seems to be an effective and safe trick of trade for the prevention of the cement leakage in percutaneous vertebroplasty

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Thank You

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