

Vertebroplasty:

**Subsequent compression fracture -
a common reason
for recurrent pain**

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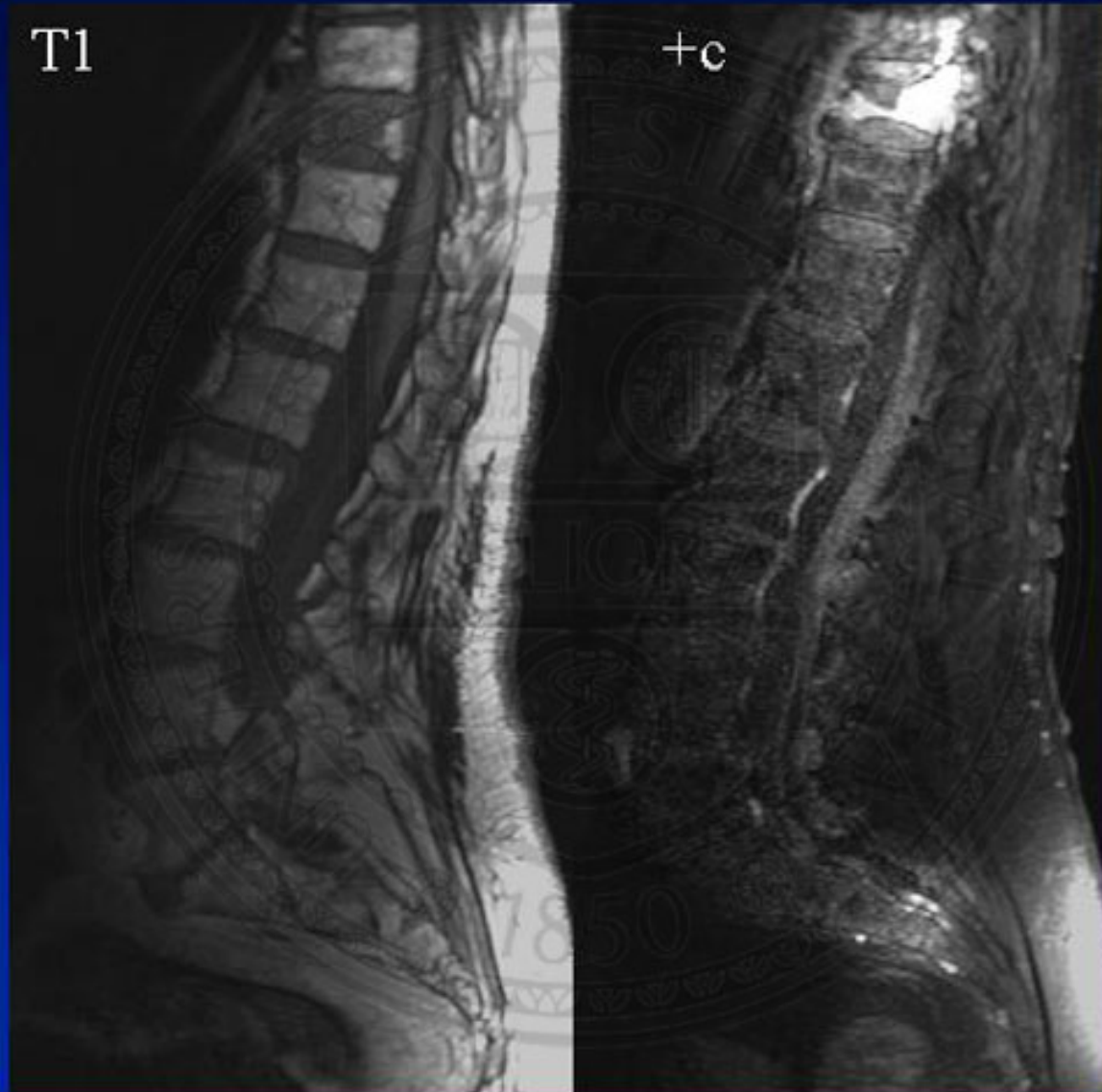
Purpose

- **To evaluate the cause of recurrent pain after initially successful vertebroplasty.**

Material and Methods

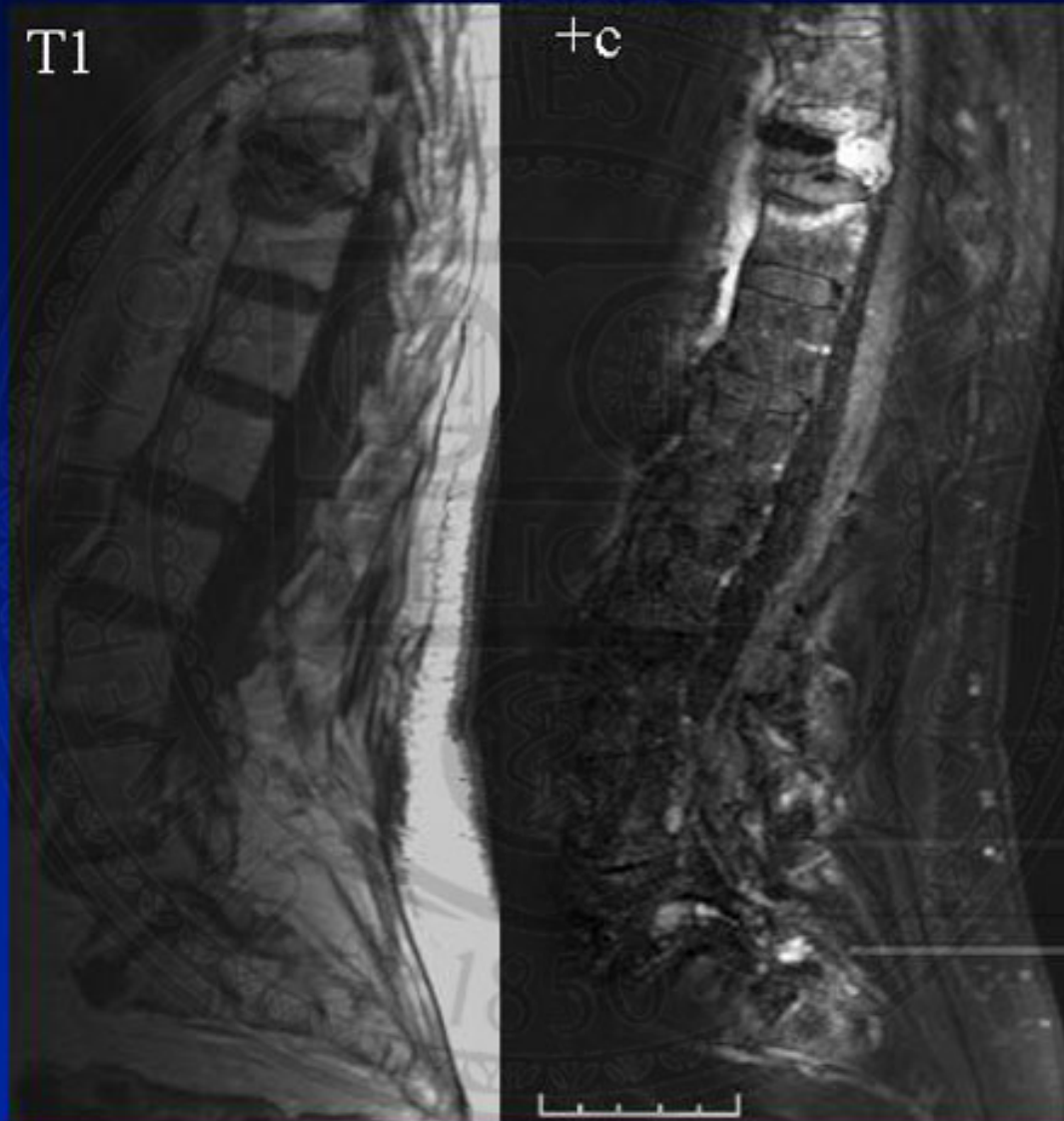
- **32 patients with 61 vertebral osteoporotic compression fractures**
- **11 patients returned with new onset of pain within 3 months**
- **They had initially been pain free and had sudden onset of new pain**
- **MRI and bone scan in all 11 patients**

Initial T10 fracture



New pain and new T11 fracture

2 weeks after treatment



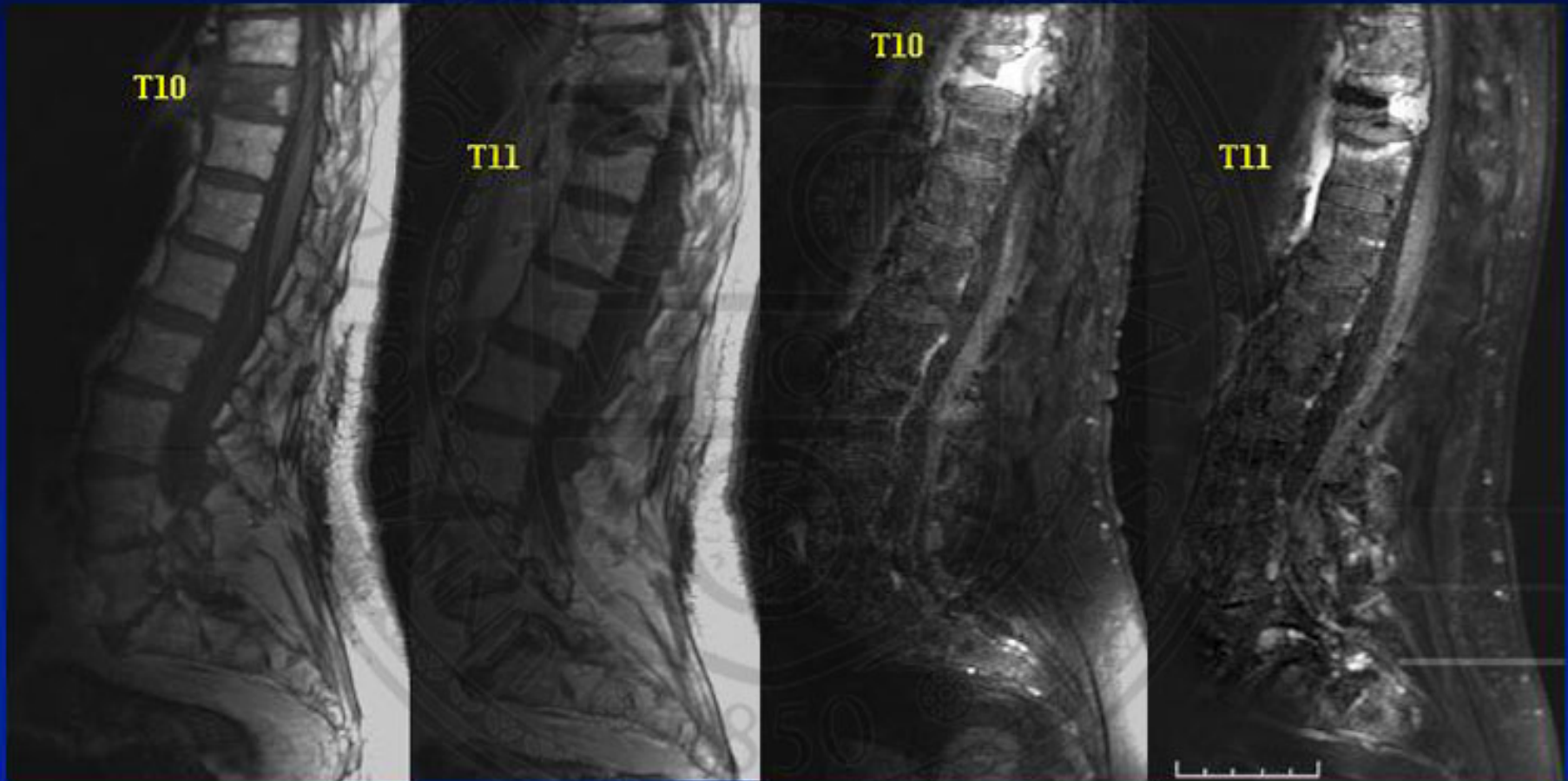
New fracture adjacent to treated vertebral body

Initial

New

Initial

New



Results

n=32 patients

- **11 patients returned with new onset of pain**
- **8 had new fracture on MRI**
- **6 of the fractures seen on bone scan**
- **3 unknown cause of recurrent pain**
- **4 patient returned more that one time with new fracture**

Conclusion

- **New compression fracture is common**
- **Often the reason for new pain**
- **More often in patients with multiple fractures initially**
- **MRI is preferred imaging in patient with recurrent pain**
- **Treatment of new fracture is successful**
- **Patient should be informed since risk is of new fracture is 25%**
- **Vertebroplasty might increase the risk for new fractures**