

*ASL Roma 2 – OSE
Patologia Vertebrale*



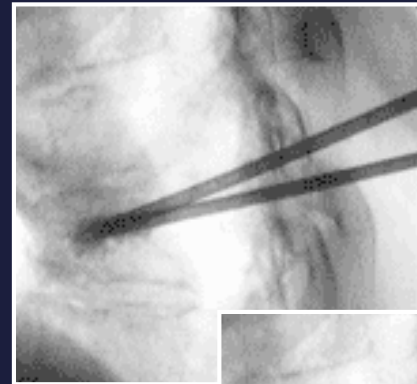
Vertebroplasty in the Treatment of Vertebral Compression Fractures. Retrospective Study



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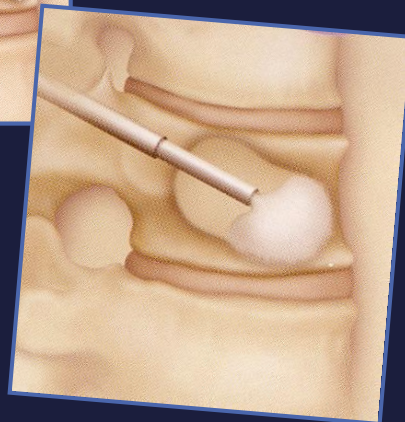
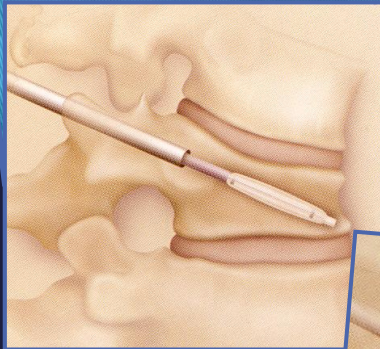
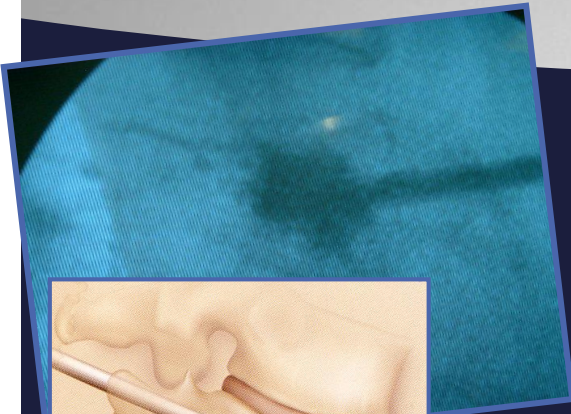
BACKGROUND

Percutaneous vertebroplasty is a minimally invasive surgical procedure that has gained popularity as a treatment option in the care for Vertebral Compression Fractures (VCFs).





No demonstrable clinically important benefits of Percutaneous Vertebroplasty (PVP) compared with conservative treatment in acute osteoporotic vertebral compression fractures (OVCFs) have been reported in Literature





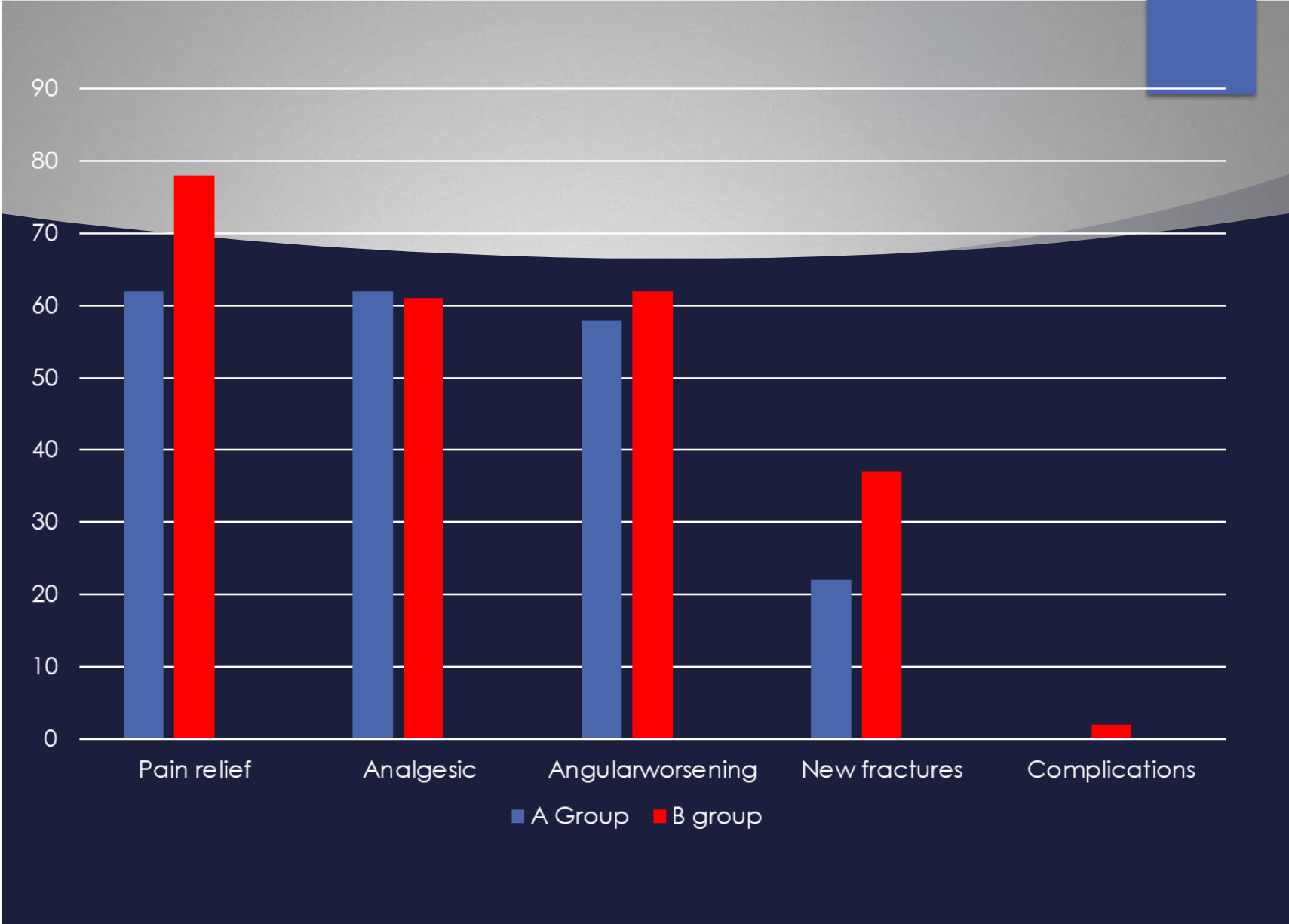
More adverse events - such as cement leakage and new vertebral fractures- have been reported in PVP treated patients, instead.

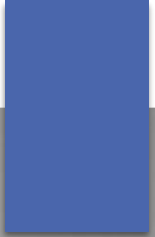
METHODS

We random selected 200 OVCFs cases treated in our Center in 2015-2016, 100 conservatively treated (A) and 100 PVP treated (B) . Both groups were compared respect to pain (VAS scale), analgesic use, vertebral body angular deformity, incidence of new vertebral fractures.

RESULTS

In B group pain relief was seen just after the procedure (78%), in A group in 15 days after trauma (62%). Analgesic use was the same in both groups. Angular deformity worsened in 62% of cases in B group, in 58% of cases in A group. In 2 years new vertebral fractures were observed in both groups (37%B, 22% A)





No serious complication occurred in A group, while in B group we observed one case of paraplegia due to a spontaneous extradural hematoma and 1 rib fracture because of operating bed positioning

DISCUSSION AND CONCLUSIONS

No statistically significant difference was seen in the follow-up of PVP and conservatively treated patients. New vertebral fractures occurred in both groups. The number of complications was not relevant. In conclusion vertebroplasty can be considered a useful procedure in painful OVCFs , but it has to be performed in first days after trauma and patients should be better informed on risk/benefit of it.



A lateral X-ray of a human spine. A bright, white, irregularly shaped mass is visible in the middle of the thoracic spine, representing a vertebroplasty procedure. The rest of the spine shows normal bony structures. The word "GRAZIE" is overlaid in large, blue, stylized letters.

GRAZIE

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- ▶ none of the authors has any potential conflict of interest