Author’s response to reviews

Title: Correlation analysis between the magnetic resonance imaging characteristics of osteoporotic vertebral compression fractures and the efficacy of percutaneous vertebroplasty: A prospective Cohort Study

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Reviewer reports:

Charu Chanana, MD (Reviewer 3): I didnot see legends for MRI image and graphs. Please include legends.

Tab.1 Paired t-tests were used to compare differences with regard to the parameters within the three groups.

Tab.2 Paired t-tests were used to compare differences with regard to the VAS, ODI, and SF-36 scores within the three groups.

Tab.3 The spearman’s relevance bewteen Vertebral marrow edema and VAS,ODI,SF-36.

Figure1. According to the degree and ranges of bone marrow edema on the MRI sagittal view, the patients were divided into mild edema(a1，a2), moderate edema(b1，b2), and severe edema(c1，c2).

Figure2. Flow chart of follow-up

Figure3. Statistical graphs of various parameter in different groups.
Figure 4. Changes in VAS, ODI, SF-36 during different group follow-up.

Minor grammatical errors:

In Materials and methods:

Line 7: Xray

Agreement

Line 17: K wires

Agreement

Line 46-48: Please check grammar

a large amount of bone cement leaked outside the vertebral body.

Emmanuel Estrella, MD, MSc (Reviewer 4): I congratulate the authors for the study.

I would like to ask if a pre-testing was done on the evaluation of bone marrow edema as evaluated by the expert radiologist to determine any inter-observer variability.

The imaging department had analyzed the image of vertebral bone marrow edema, and selected the area of bone marrow edema as the reference, and there was no difference among the observers.