Dear Dr. Theodoros B GRIVAS and reviewers

Thank you very much for the reviewers’ reports. I again investigated AIS subjects only female without scoliosis operations. The number of the subjects was 49. Because BMDs of rotated lumbar spine were not good to evaluate, BMDs of femur were used to analysis. BMDs tend to be affected by age in adolescent periods, the lowest Z scores of the femur were used for individual subjects. Similar to previous reports, BMI and Z scores were positively correlated. But age of menarche were not correlated with Z scores.

Values of BAP and TRAP5b are also affected by age. The values of BAP were within normal compared to previous reports but values of TRAP5b were high especially in young age. In the high TRAP5b group, the lowest femoral Z scores were lower than those in the normal TRAP5b group. We concluded the primary cause of low Z scores would be high TRAP5b (imbalance of bone metabolism).

Sincerely.
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