Reviewer's report

**Title:** Decreased levels of physical activity in adolescents with Down syndrome are related with low bone mineral density: a cross-sectional study

**Version:** 3  **Date:** 10 June 2013

**Reviewer:** Carol Garrison

**Reviewer's report:**

**Major Compulsory Revisions:**
1. In figure 3, I believe that during the last revision, the lowPA and highPA labels were reversed.
2. I appreciate the authors addressing previous concerns.

**Minor Essential Revisions:** None.

**Discretionary Revisions:**
1. The authors mention in their comments to the reviewer that when you reviewed the time sheets - there had been no time spent in contact sports or swimming. You might consider mentioning this in the manuscript for all readers.
2. I appreciate the authors including in the limitations the consideration of having more complete information regarding all activity (including when the accelerometer is not worn) in future studies. Given your findings, it might be interesting to include the 20 minute periods of inactivity as part of the lowPA time.
3. In Results, Physical Activity paragraph, ~4th and 5th sentence: change light PA to low PA.

**Level of interest:** An article of outstanding merit and interest in its field

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**
I declare that I have no competing interests.