Reviewer's report

**Title:** Quality of life is associated with physical activity and fitness in cystic fibrosis - a cross sectional and longitudinal observational study

**Version:** 1  **Date:** 24 July 2013

**Reviewer:** Brenda M. Button

**Reviewer's report:**

The researchers of this study are to be congratulated on completing a large and comprehensive longer term study. The funding received from a number of high profile organizations together with the carefully constructed study protocols and results recently published are a tribute to the quality of this body of research. The outcome measures used and the results have provided important findings that will benefit patients with CF worldwide. The patients recruited for the study also worked hard over a long period of time to make the study possible and should be congratulated on their contribution to new knowledge that will benefit others with CF around the world.

**Responses to Questions:**

1. Is the question posed by the authors well defined? Yes
2. Are the methods appropriate and well described? Yes
3. Are the data sound? Yes
4. Does the manuscript adhere to the relevant standards for reporting and data deposition? Yes
5. Are the discussion and conclusions well balanced and adequately supported by the data? Yes
6. Are limitations of the work clearly stated? Yes
7. Do the authors clearly acknowledge any work upon which they are building, both published and unpublished? Yes
8. Do the title and abstract accurately convey what has been found? Yes
9. Is the writing acceptable? Yes

Once you have done this, there are also some questions for you to answer, including one that asks your advice on publication. Please remember that it is journal policy to publish work deemed by peer reviewers to be a coherent and sound addition to scientific knowledge and to put less emphasis on interest levels, provided that the research constitutes a useful contribution to the field. Further guidance on these points follows.

In my opinion, this is an important study that is a sound addition to scientific knowledge and constitutes a useful contribution to the field of CF.
Main recommendation: Accept without amendments.