Reviewer's report

Title: Measures and procedures utilized to determine the added value of microprocessor-controlled prosthetic knee joints: a systematic review

Version: 1 Date: 28 January 2013

Reviewer: Kenton R. Kaufman

Reviewer's report:

This paper describes a systematic review of scientific studies that compare the effects of using MPKs with mechanically controlled prosthetic knee joints. This study focuses on outcome measures that describe the patients function according to the ICF framework. A total of 31 studies and 64 outcome measures were identified. The manuscript documents that there remains a need for scientifically validated evidence regarding the performance of amputees using an MPK in daily life. This is a very thorough and well written manuscript. The authors have identified strengths of existing peer-reviewed literature and areas where additional information is needed.

Major Compulsory Revision—none

Minor Essential Revision—A notable limitation of the manuscript is that the search was performed in June 2011, over 18 months ago. Thus, the information contained in the manuscript is already dated. It is highly recommended that the authors update the manuscript so that it is more timely.

Discretionary Revisions—none

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 receive royalty payments from OttoBock Healthcare for a stance-control orthosis. The product is not related to the topic of the paper.