Reviewer's report

Title: Embracing additive manufacture: implications for foot and ankle orthosis design

Version: 1 Date: 6 February 2012

Reviewer: Rosemary Dubbeldam

Reviewer's report:

Dear authors,

Your manuscript has improved. However, I have some remaining issues:

Major Compulsory Revision Issues:

METHODS

1. AFO testing: You refer to the marker placement method used by Guo. In that study the markers were attached to the lateral and medial malleoli by rigid shells (precise description is not given as they too refer to prior studies). In case of the AFO, that would not be possible, so how did you attach the markers on your test subject?

Your conclusions are built on your assessed ankle angle and this finding depends on your marker placement. So please indicate marker placement location. It is inappropriate to have to track down two other articles before one finds a possible description of the method used.

RESULTS

2. Usually at Initial Contact, the ankle joint is in slight dorsiflexion. The ankle angle plot of your shod condition however indicates 5 deg plantarflexion at Initial Contact. Can you give an explanation?

Minor and Discretionary Revision Issues:

RESULTS

3. How come your plots in figure 6 and 7 have changed so dramatically?? Did you perform new tests with adapted stiffness?

DISCUSSION

4. “Mavroidis” is not spelt correctly the second time in your DISCUSSION

Level of interest: An article of importance 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.