Reviewer's report

**Title:** On summary measure analysis of linear trend repeated measures data - A performance comparison using mixed model data

**Version:** 1 **Date:** 30 August 2011

**Reviewer:** Douglas G Bonett

**Reviewer's report:**

The paper addresses an important topic and should be publishable after some revision. Part of the problem is unclear writing and the authors will need to work hard to improve the paper in this respect.

The section on Illustrative examples on page 9 seems out of place. It could go before the Example 1 results section on page 12.

On page 4 you say there is no obvious superiority of the adjusted F over the UMA. The adjusted F is superior in cases where the number of repeated measurements is greater than the sample size in which case the adjusted F can be computed but the UMA cannot.

**Level of interest:** An article whose findings are important to those with closely related research interests

**Quality of written English:** Not suitable for publication unless extensively edited

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**

I declare that I have no competing interests.