Reviewer’s report

**Title:** Connectivity analysis tool enables semi-automated segmentation and quantification of adipose tissue magnetic resonance images in patients with monogenic metabolic syndrome

**Version:** 1 **Date:** 27 June 2006

**Reviewer:** Gerald Watts

**Reviewer’s report:**

General This is a fresh report of the use of connectivity analysis and MRI for assessing subcutaneous fat depots. It has been applied to two forms of FLPD, with anticipated results. The method has a high degree of intra and inter-observer reproducibility. While measuring sc fat may be useful, of greater importance in obesity is estimating visceral and liver fat. This report does not deal with this.

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**Major Compulsory Revisions** (that the author must respond to before a decision on publication can be reached) Have phantom studies been employed to assess accuracy of method? This would add weight to the technique. Can the method be adapted to estimating preperitoneal and skeletal muscle fat.

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**Minor Essential Revisions** (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct) Discussion too long by 25%.

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**Discretionary Revisions** (which the author can choose to ignore)

See above

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**What next?:** Unable to decide on acceptance or rejection until the authors have responded to the major compulsory revisions

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Statistical review:** No