Reviewer's report

Title: The use of MRI apparent diffusion coefficient (ADC) in monitoring the development of brain infarction

Version: 2 Date: 24 October 2010

Reviewer: karl lovblad

Reviewer's report:

The authors study the use of the ADC when monitoring ischemia. While this has been done before, this is an interesting paper that allows to remind of the use of ADC mapping in ischemia.


The authors need also to stress somewhat more the possibility of ADC mapy to determine thresholds in ischemia : i.e. differentiate tissue that will or will not evolve into infarction as Wella s demonstrate eventual return to normal after intervention (Taleb M, Lövblad KO, El-Koussy M, Guzman R, Bassetti C, Oswald H, Remonda L, Schroth G:Reperfusion demonstrated by ADC mapping after intra-arterial thrombolysis for human ischemic stroke confirmed by cerebral angiography.Neuroradiology 43: 591-594, 2001.)

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

Quality of written English: Acceptable

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

Declaration of competing interests:

I declare that I have no competing interest