SUPPLEMENTARY MATERIAL

Supplementary Figure 1. Absolute CBF for the baseline and postictal periods as a function of brain hemisphere. Error bars represent +/- SE. A 2 x 2 repeated measures ANOVA showed no main effect of hemisphere [F(1,17) = 1.108, P = 0.307], however, a significant main effect of state was seen [F(1,17) = 18.753, P < 0.001].

Supplementary Figure 2. Comparison of postictal hypoperfusion and surgical resection cavity in a 43 year old male with right mesial temporal lobe epilepsy and right hippocampal sclerosis. A. Subtraction ASL showed a ‘lobar’ pattern of hypoperfusion in the right temporal lobe. B. T1-weighted images showing the resection cavity following a right anterior temporal lobectomy. C. Subtraction ASL results superimposed upon post-operative T1-weighted images.

Supplementary Table 1. Region of interest analysis in patients with a SOZ identified by all clinical investigations available. Patients 12 and 17 (unclear SOZ) as well as 20 (generalized epilepsy) were excluded from this analysis.

Supplementary Table 2. Contralateral region of interest analysis in patients with a SOZ identified by all clinical investigations available. Patients 12 and 17 (unclear SOZ) as well as 20 (generalized epilepsy) were excluded from this analysis.