**Supplementary Figure 5.** A Bland-Altman plot of "adjusted" estimated infarct volumes vs. measured infarct volumes in a validation study (n=30). The dotted line indicates the mean difference between the estimated infarct volumes (obtained using the reference maps with the post hoc adjustment in Figure 1) and the measured infarct volumes (obtained using Analyze 12.0, an image analysis software package). The gray area indicates 95% limits of agreement. A logarithmic scale is used for the x-axis. Three patients (10%) are outside the limits of agreement.