Supplementary Table 1. Summary of baseline diffusion changes in whole-brain analysis of left TLE patients in comparison to controls. The p-values are the maximum difference observed in each structure.

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| Baseline decreases in FA | Corpus callosum, genu (p=0.034)Corpus callosum, body (p=0.035)Corpus callosum, splenium (p=0.049)Left fornix (cres) (p=0.035)Left anterior limb of internal capsule (p=0.033)Left posterior limb of internal capsule (p=0.043)Left retrolenticular part of internal capsule (p=0.035)Left anterior corona radiata (p=0.033)Right anterior corona radiata (p=0.036)Left superior corona radiata (p=0.034)Right superior corona radiata (p=0.036)Left posterior corona radiata (p=0.048)Left posterior thalamic radiation (p=0.037)Left inferior fronto-occipital fasciculus (p=0.033)Left inferior longitudinal fasciculus (p=0.034)Left external capsule (p=0.033)Left superior longitudinal fasciculus (p=0.034)Left uncinate fasciculus (p=0.034)Left corticospinal tract (p=0.041)Left cerebral peduncle (p=0.042)Right cerebral peduncle (p=0.045)Left superior cerebellar peduncle (p=0.042)Right superior cerebellar peduncle (p=0.042)Middle cerebellar peduncle (p=0.041)Left inferior cerebellar peduncle (p=0.045)Left medial lemniscus (p=0.041)Right medial lemniscus (p=0.045) |
| Baseline increases in MD | Corpus callosum, genu (p=0.040)Left fornix (cres) (p=0.043)Left anterior limb of internal capsule (p=0.038)Left anterior corona radiata (p=0.038)Left inferior fronto-occipital fasciculus (p=0.038)Left inferior longitudinal fasciculus (p=0.033)Left external capsule (p=0.038)Left uncinate fasciculus (p=0.038) |

Supplementary Table 2. Summary of baseline diffusion changes in whole-brain analysis of right TLE patients in comparison to controls. The p-values are the maximum difference observed in each structure.

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| Baseline decreases in FA | Corpus callosum, genu (p=0.003)Corpus callosum, body (p=0.003)Corpus callosum, splenium (p=0.006)Column/body of fornix (p=0.012)Left fornix (cres) (p=0.001)Right fornix (cres) (p=0.003)Left anterior limb of internal capsule (p=0.022)Right anterior limb of internal capsule (p=0.005)Left posterior limb of internal capsule (p=0.022)Right posterior limb of internal capsule (p=0.005)Left retrolenticular portion of internal capsule (p=0.019)Right retrolenticular portion of internal capsule (p=0.004)Left anterior corona radiata (p=0.007)Right anterior corona radiata (p=0.003)Left superior corona radiata (p=0.009)Right superior corona radiata (p=0.004)Right posterior corona radiata (p=0.006)Right posterior thalamic radiation/optic radiation (p=0.023)Left inferior fronto-occipital fasciculus (p=0.007)Right inferior fronto-occipital fasciculus (p=0.003)Left inferior longitudinal fasciculus (p=0.013)Right inferior longitudinal fasciculus (p=0.003)Left external capsule (p=0.010)Right external capsule (p=0.003)Left cingulate gyrus (p=0.005)Right cingulate gyrus (p=0.005)Right parahippocampal cingulum (p=0.040)Right superior longitudinal fasciculus (p=0.017)Right superior fronto-occipital fasciculus (p=0.012)Left uncinate fasciculus (p=0.010)Right uncinate fasciculus (p=0.003)Left corticospinal tract (p=0.012)Right corticospinal tract (p=0.032)Left cerebral peduncle (p=0.014)Right cerebral peduncle (p=0.005)Left superior cerebellar peduncle (p=0.012)Right superior cerebellar peduncle (p=0.011)Middle cerebellar peduncle (p=0.012)Left inferior cerebellar peduncle (p=0.012)Right inferior cerebellar peduncle (p=0.012)Left medial lemniscus (p=0.012)Right medial lemniscus (p=0.012) |
| Baseline increases in MD | Corpus callosum, genu (p=0.008)Corpus callosum, body (p=0.012)Right fornix (cres) (p=0.005)Left anterior limb of internal capsule (p=0.033)Right anterior limb of internal capsule (p=0.023)Right retrolenticular portion of internal capsule (p=0.006)Left anterior corona radiata (p=0.016)Right anterior corona radiata (p=0.007)Left superior corona radiata (p=0.026)Right superior corona radiata (p=0.029)Right posterior thalamic radiation/optic radiation (p=0.029)Left inferior fronto-occipital fasciculus (p=0.016)Right inferior fronto-occipital fasciculus (p=0.002)Left inferior longitudinal fasciculus (p=0.033)Right inferior longitudinal fasciculus (p=0.002)Left external capsule (p=0.032)Right external capsule (p=0.002)Left cingulate gyrus (p=0.048)Right parahippocampal cingulum (p=0.046)Right superior longitudinal fasciculus (p=0.033)Left uncinate fasciculus (p=0.033)Right uncinate fasciculus (p=0.002) |