**Supplementary S1 –processing of DWI images**

Preprocessing of the DWI scans consisted of several steps. First, the b=0 volumes of both the DWI scans were extracted, merged and processed with FSL’s tool for correction of susceptibility induced distortions: TOPUP1. TOPUP estimates the susceptibility-induced off-resonance field and corrects and combines both b=0 volumes. Afterwards, all DWI volumes were corrected for movement artefacts and eddy current-induced distortions with FSL’s EDDY tool2. EDDY’s main output is a 4D file containing, in this study, 62 volumes of corrected data. These 4D datasets were subsequently used to fit all DTI parameters using FSL’s tool DTIFIT3 which fits a diffusion tensor model at each voxel and computes the Eigenvalues λ1 (axial diffusivity; AD), λ2, λ3 and the composite measures fractional anisotropy (FA) and mean diffusivity (MD). Subsequently radial diffusivity (RD) was computed by averaging the second and third Eigenvalues.

References

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