

Predicting FWHM (Eddy — Shoreline) of Each Scan

Main Effects of Percent Motion, Scheme, and Denoising

Characteristic	Beta	95% CI ¹	p-value
(Intercept)	-0.060	-0.083, -0.036	<0.001
% Motion			
15	—	—	
30	-0.086	-0.111, -0.060	<0.001
50	-0.199	-0.225, -0.174	<0.001
Scheme			
ABCD	—	—	
HCP	0.018	-0.002, 0.039	0.084
Denoising			
MP-PCA	—	—	
None	-0.009	-0.030, 0.012	0.4

¹ CI = Confidence Interval

Supplementary Listing 3: Evaluating Smoothness of Preprocessed Data Following Head Motion Correction Quantified by FWHM. The SHORELine FWHM value was subtracted from the Eddy FWHM, and this difference was the outcome variable of the model. Across all sampling schemes and method correction methods, more motion is associated with greater smoothness in output images. SHORELine produced significantly sharper outputs than Eddy.