**Supplementary Table S1.** Head motion during the fMRI task: mean scan-to-scan (framewise) displacement for the six realignment parameters

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | T1 | T2 |
|  |  | M ± SD (Range) | M ± SD (Range) |
|  |  | typical | poor | typical | poor |
| Translation (mm) | x | 0.031972 ± 0.033749(0.009332 – 0.153166) | 0.020673 ± 0.008125(0.010621 – 0.034698) | 0.025864 ± 0.017425(0.006584 – 0.062158) | 0.022502 ± 0.01371(0.011833 – 0.068624) |
| y | 0.050542 ± 0.020753(0.022323 – 0.091017) | 0.043127 ± 0.019111(0.022438 – 0.079626) | 0.047264 ± 0.018929(0.025422 – 0.089912) | 0.04164 ± 0.016683(0.017208 – 0.06724) |
| z | 0.080123 ± 0.040098(0.025678 – 0.181216) | 0.071252 ± 0.028089(0.029124 – 0.124249) | 0.091931 ± 0.050954(0.024286 – 0.194538) | 0.075669 ± 0.032001(0.040122 – 0.135413) |
| Rotation (degree) | pitch | 0.001197 ± 0.000527(0.00608 – 0.002692) | 0.001134 ± 0.00036(0.000624 – 0.001716) | 0.001249 ± 0.000453(0.000491 – 0.002056) | 0.001127 ± 0.000388(0.000522 – 0.001718) |
| roll | 0.000647 ± 0.000423(0.000227 – 0.002001) | 0.000468 ± 0.000199(0.00231 – 0.000913) | 0.000564 ± 0.000387(0.00023 – 0.001497) | 0.000555 ± 0.00048(0.000276 – 0.002256) |
| yaw | 0.000444 ± 0.000509(0.000193 – 0.002328) | 0.000288 ± 0.000113(0.000184 – 0.000401) | 0.000328 ± 0.000221(0.000116 – 0.000753) | 0.000285 ± 0.00015(0.00014 – 0.000757) |

Note: T1: first grade; T2: second grade; M: mean; SD: standard deviation.