

Supplementary Materials

Figure S1

Framewise Difference comparisons excluding 2 high motion participants in the FNL with headcase dataset

Figure S2

Filtered Framewise Difference comparisons excluding 2 high motion participants in the FNL with headcase dataset

Figure S3

Equivalence test comparisons excluding 2 high motion participants in the FNL with headcase dataset

Table 1

Framewise Difference statistics during *viewing* excluding 2 high motion participants in the FNL with headcase dataset

Table 2

Framewise Difference statistics during *viewing* excluding high motion volumes and 2 high motion participants in the FNL with headcase dataset

Table 3

Framewise Difference statistics during *talking* (both with and without high motion volume) excluding 2 high motion participants in the FNL with headcase dataset

Figure S1. Headcase effects on Framewise Displacement when viewing and speaking inside the scanner, excluding 2 high motion participants from the FNL with headcase dataset

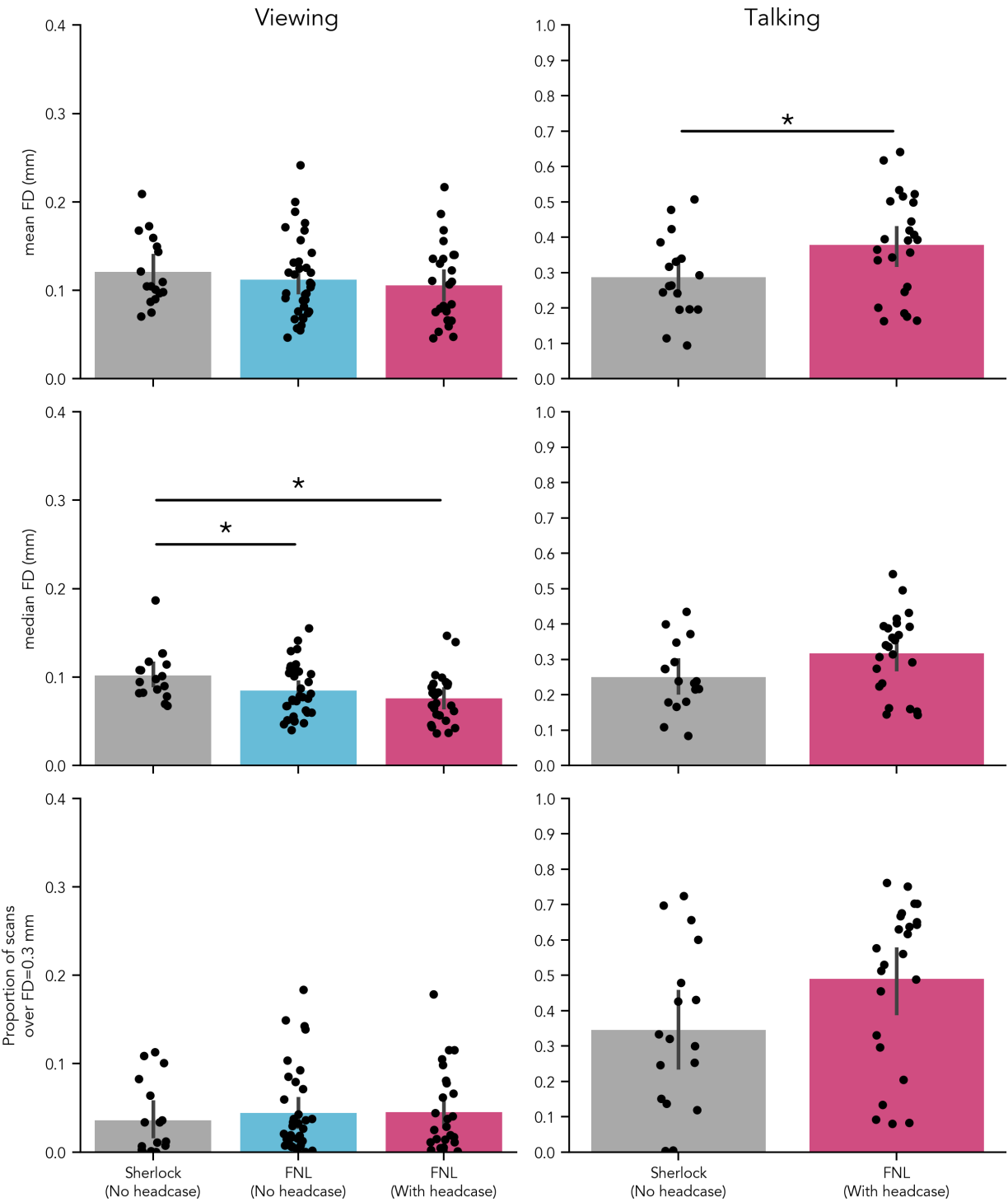


Figure S2. Headcase effects on Framewise Displacement excluding high motion volumes and excluding 2 high motion participants from the FNL with headcase dataset

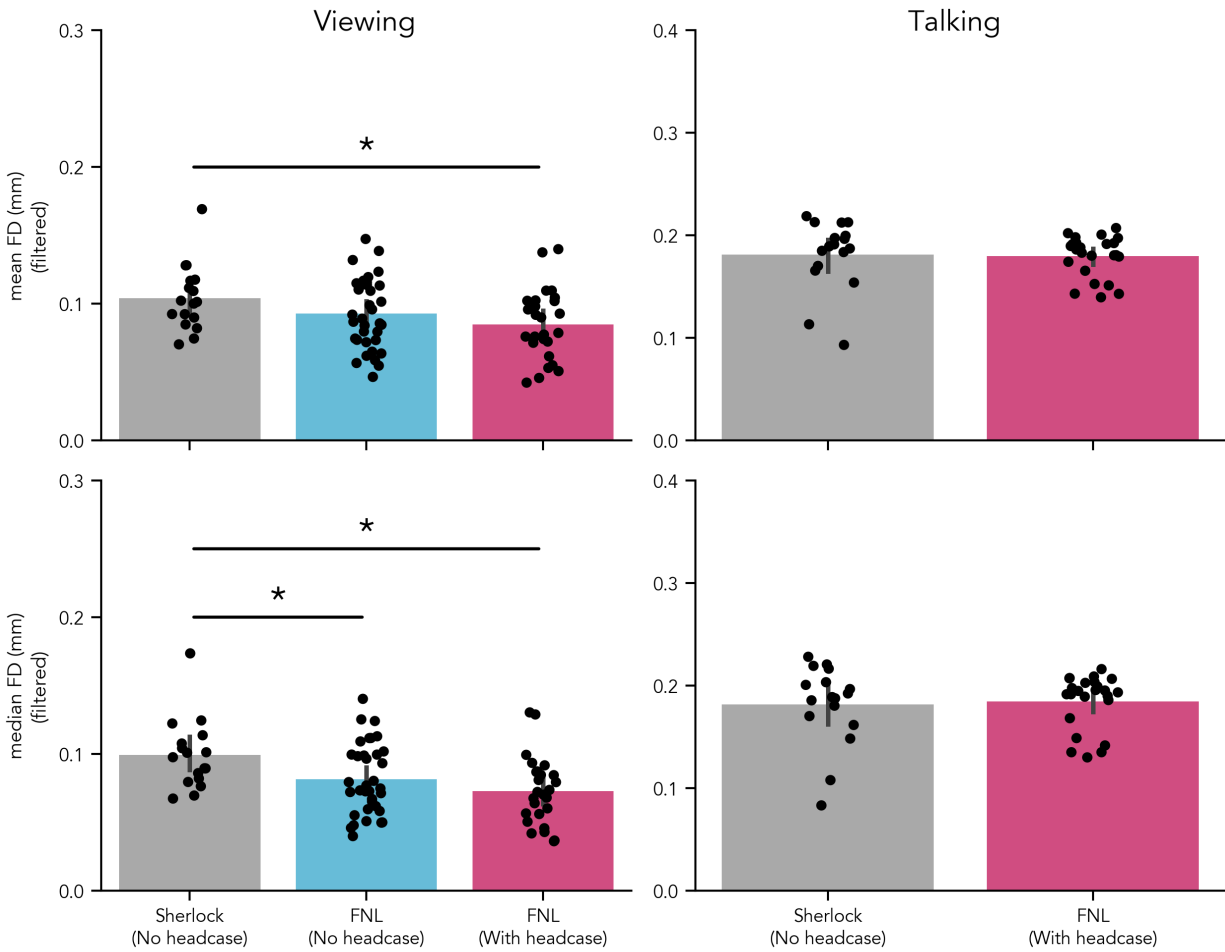


Figure S3. Equivalence tests of motion estimates with and without headcases, excluding 2 high motion participants from the FNL with headcase dataset

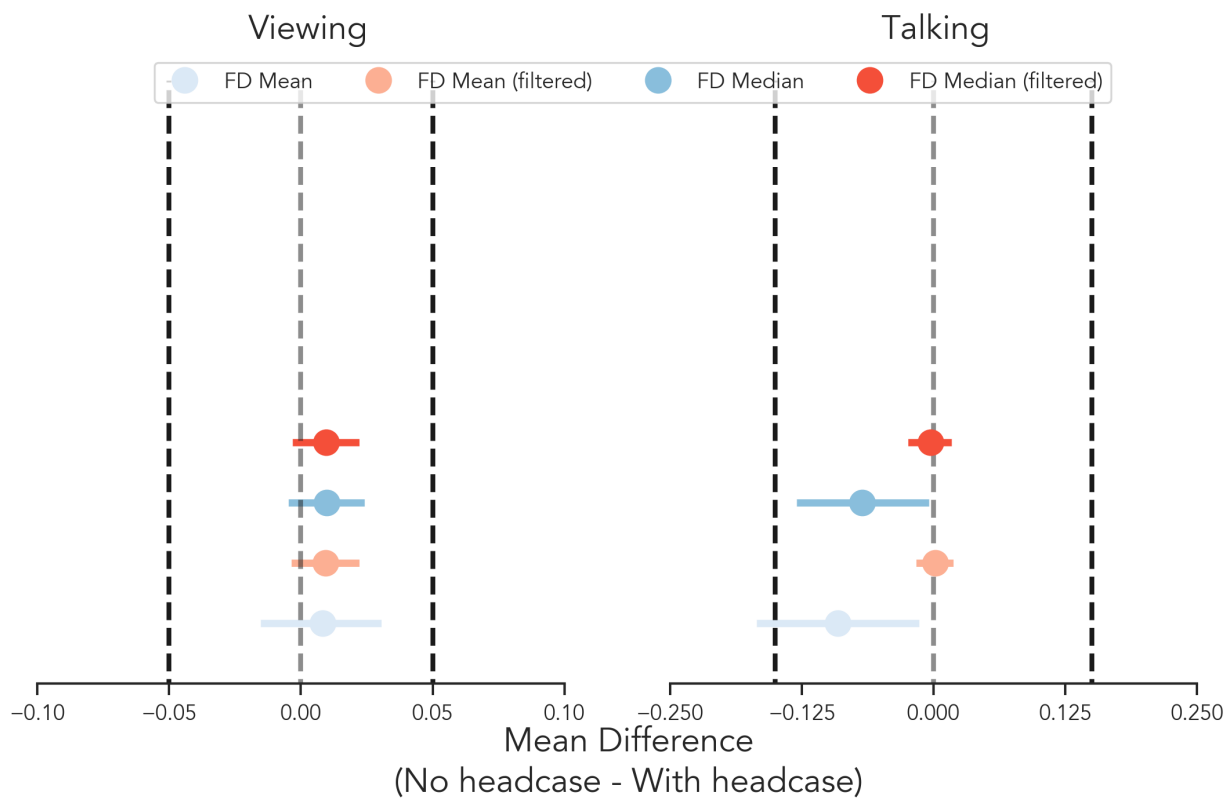


Table 1. Head case comparisons while *viewing* movies, excluding 2 high motion participants in the FNL with headcase dataset

<i>Comparison</i>	<i>Condition</i>	<i>Metric</i>	<i>Mean.Difference</i>	<i>t</i>	<i>p.perm</i>
FNL no-case - FNL with-case	Viewing	FD Mean	0.008 (-0.015 0.031)	0.689	0.496
FNL no-case - FNL with-case	Viewing	FD Median	0.01 (-0.005 0.024)	1.309	0.196
FNL no-case - FNL with-case	Viewing	Spike Proportion	0.001 (-0.023 0.025)	0.115	0.906
FNL no-case - Sherlock	Viewing	FD Mean	-0.008 (-0.032 0.015)	-0.70 3	0.489
FNL no-case - Sherlock	Viewing	FD Median	-0.017 (-0.034 -0.002)	-2.06 1	0.045
FNL no-case - Sherlock	Viewing	Spike Proportion	0.009 (-0.016 0.033)	0.723	0.466
Sherlock - FNL with-case	Viewing	FD Mean	0.017 (-0.01 0.043)	1.248	0.224
Sherlock - FNL with-case	Viewing	FD Median	0.027 (0.01 0.045)	2.981	0.005
Sherlock - FNL with-case	Viewing	Spike Proportion	-0.008 (-0.036 0.019)	-0.55 3	0.576

Table 2. Head case comparisons while *viewing* movies after excluding high motion TRs and excluding 2 high motion participants in the FNL with headcase dataset

<i>Comparison</i>	<i>Condition</i>	<i>Metric</i>	<i>Mean.Difference</i>	<i>t</i>	<i>p.perm</i>
FNL no-case - FNL with-case	Viewing	FD MeanFiltered	0.009 (-0.004 0.022)	1.391	0.167
FNL no-case - FNL with-case	Viewing	FD MedianFiltered	0.01 (-0.003 0.022)	1.451	0.151
FNL no-case - Sherlock	Viewing	FD MeanFiltered	-0.011 (-0.025 0.002)	-1.541	0.134
FNL no-case - Sherlock	Viewing	FD MedianFiltered	-0.018 (-0.032 -0.004)	-2.368	0.022
Sherlock - FNL with-case	Viewing	FD MeanFiltered	0.02 (0.005 0.036)	2.581	0.014
Sherlock - FNL with-case	Viewing	FD MedianFiltered	0.027 (0.012 0.044)	3.373	0.002

Table 3. Head case comparisons while *talking*, excluding 2 high motion participants in the FNL with headcase dataset. Filtered values reflect comparisons after excluding high motion TRs.

<i>Comparison</i>	<i>Condition</i>	<i>Metric</i>	<i>Mean.Difference</i>	<i>t</i>	<i>p.perm</i>
Sherlock - FNL with-case	Talking	FD Mean	-0.091 (-0.168 -0.014)	-2.250	0.037
Sherlock - FNL with-case	Talking	FD Median	-0.068 (-0.13 -0.005)	-2.058	0.055
Sherlock - FNL with-case	Talking	Spike Proportion	-0.145 (-0.281 -0.005)	-1.998	0.062
Sherlock - FNL with-case	Talking	FD MeanFiltered	0.002 (-0.016 0.019)	0.186	0.857
Sherlock - FNL with-case	Talking	FD MedianFiltered	-0.003 (-0.024 0.017)	-0.272	0.791