Additional file 2. Statistical results of the ANOVA on the fEEG and fNIRS brain parameters for the circular steering task.

A.	**GROUP**	**HEMISPHERE**	**HAND**
fEEG			
Alpha ERD	F (1, 27) = 0.66, p = .424, η^2_p = .02	F (1, 27) = 1.45, p = .293, η^2_p = .04	F (1, 27) = 0.42, p = .523, η^2_p = .01
Beta ERD	F (1, 27) = 0.08, p = .780, η^2_p = .00	F (1, 27) = 0.21, p = .654, η^2_p = .01	F (1, 27) = 0.40, p = .534, η^2_p = .01
Alpha ERS	F (1, 25) = 1.28, p = .269, η^2_p = .05	F (1, 25) = 0.00, p = .956, η^2_p = .00	F (1, 25) = 2.76, p = .109, η^2_p = .09
Beta ERS	F (1, 25) = 0.15, p = .698, η^2_p = .01	F (1, 25) = 0.00, p = .996, η^2_p = .00	F (1, 25) = 2.45, p = .127, η^2_p = .09
fNIRS			
ΔHbO_2 peak	F (1, 31) = 0.00, p = .967, η^2_p = .00	F (1, 31) = 0.20, p = .659, η^2_p = .00	F (1, 31) = 0.45, p = .506, η^2_p = .01
B.	**GROUP x HEMISPHERE**	**GROUP x HAND**	**HAND x HEMISPHERE**
fEEG			
Alpha ERD	F (1, 27) = 0.00, p = .999, η^2_p = .00	F (1, 27) = 1.04, p = .317, η^2_p = .04	F (1, 27) = 1.78, p = .193, η^2_p = .06
Beta ERD	F (1, 27) = 0.56, p = .461, η^2_p = .02	F (1, 27) = 0.90, p = .351, η^2_p = .03	F (1, 27) = 0.25, p = .619, η^2_p = .01
Alpha ERS	F (1, 25) = 0.26, p = .614, η^2_p = .01	F (1, 25) = 0.00, p = .961, η^2_p = .00	F (1, 25) = 0.07, p = .792, η^2_p = .00
Beta ERS	F (1, 25) = 0.03, p = .868, η^2_p = .00	F (1, 25) = 0.00, p = .924, η^2_p = .00	F (1, 25) = 1.42, p = .244, η^2_p = .05
fNIRS			
ΔHbO_2 peak	F (1, 31) = 0.07, p = .791, η^2_p = .02	F (1, 31) = 1.40, p = .246, η^2_p = .04	F (1, 31) = 3.52, p = .070, η^2_p = .10

A. Effects of Group (Old healthy vs Stroke), Hemisphere (Contralateral vs Ipsilateral) and Hand (Dominant / Non-paretic vs Non-dominant / Paretic) on the fNIRS and fEEG parameters on the circular steering task and **B.** Two levels interactions of the model. In bold, results with $p < .05$ and $\eta^2_p > .0$