



FaST-PD Cardiovascular Exercise to Facilitate Motor Skill Learning in Parkinson's Disease

Responsible Scientists: Philipp Wanner Senior Scientist: PD Dr. Simon Steib Associated researchers/ clinicians: Prof. Dr. Jochen Klucken, Prof. Dr. Jürgen Winkler Funding: Deutsche Stiftung Neurologie (DSN) External partners: -







Molekulare Neurologie Ambulanz für Bewegungsstörungen

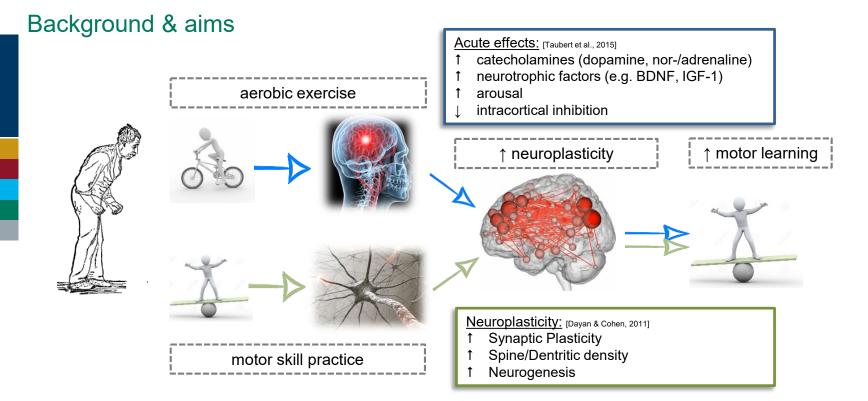








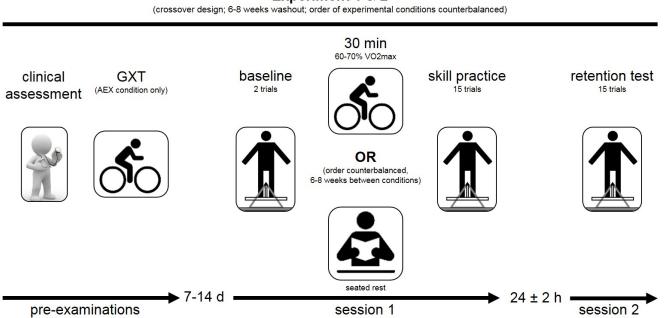








Experimental flow



Experiment 1 & 2





Findings

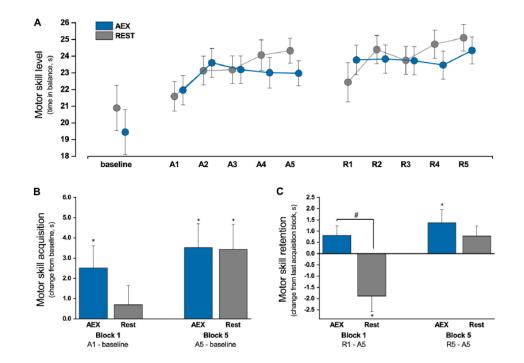


FIGURE 2 | Motor skill performance. (A) Motor skill performance (time in balance) during acquisition (A1–A5) and retention (R1–R5); (B) online skill gains illustrated as change from baseline block to first (A1) and last (A5) acquisition block, *significantly different from baseline (paired *t*-test $p \le 0.036$); (C) motor skill retention illustrated as change from last acquisition block (A5) to first (R1) and last (R5) retention block, *significantly different from baseline (paired *t*-test $p \le 0.036$); (C) motor skill retention illustrated as change from last acquisition block (A5) to first (R1) and last (R5) retention block, *significantly different from baseline (paired *t*-test $p \le 0.036$), #significant difference between aerobic exercise (AEX) and REST condition ($F_{1,32} = 10.734$, p = 0.003); error bars indicate 1 SE.