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Master thesis in stroke research

The multicenter, randomized controlled trial "Physical Fitness Training in Subacute Stroke" investigated the efficacy of an aerobic treadmill-based training intervention in subacute stroke patients. After the publication of the primary efficacy endpoints (Nave et al., *BMJ*, 2019) and the safety analyses (Rackoll et al., *IJS*, accepted) we aim to identify specific patient characteristics of participants who responded to our intervention protocol compared to those that exhibited no improvement. The results of this analysis will be important to inform clinical practice in stroke recovery and secondary stroke prevention. Therefore, we are looking for an enthusiastic and ambitious student from the sport medicine faculty. The interested person would need to be.

Interested students should:

- have a strong interest to learn about neurological aspects of sports therapy
- know basics about clinical studies and good clinical practice
- have a background in statistics (programming skills in R is an advantage)

We can offer:

- the possibility to work with data from a high-quality randomized controlled trial
- work with clinical and biomarker data over a broad range of assessments
- work in a motivated research group of the Center of stroke research of the Charité Universitätsmedizin Berlin
- close supervision on the project with regular online group meetings and additional personal meetings
- the opportunity to publish the results in a peer-reviewed article in an evolving scientific field
- German and English spoken language possible

Interested students are asked to send an application with CV to Torsten Rackoll (torsten.rackoll@charite.de)

Nave AH, Kröber JM, Brunecker P, et al. Biomarkers and perfusion - training-induced changes after stroke (BAPTISE): Protocol of an observational study accompanying a randomized controlled trial. *BMC Neurol.* 2013;13:197. doi:10.1186/1471-2377-13-197

Flöel A, Werner C, Grittner U, et al. Physical fitness training in Subacute Stroke (PHYS-STROKE)--study protocol for a randomised controlled trial. *Trials.* 2014;15(1):45. doi:10.1186/1745-6215-15-45

Nave AH, Rackoll T, Grittner U, et al. Physical Fitness Training in Patients with Subacute Stroke (PHYS-STROKE): multicentre, randomised controlled, endpoint blinded trial. *BMJ.* 2019;366:l5101. doi:10.1136/bmj.l5101

Rackoll T, Nave AH, Ebinger M, et al. Physical Exercise in Patients with Subacute Stroke (PHYS-STROKE): safety analyses of a randomized clinical trial. *IJS.* (in press)

GEFÖRDERT VOM



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