



Moving Towards Health: Physical Activity as **Engagement in University Students** a Resource for Healthy Academic

_udwig Piesch, Katrin Obst, Susen Köslich-Strumann, Till Utesch

Central Institution for Prevention and University Health Management nstitute of Health Sciences

Aim & Background

influence transitions between academic behavior and University students face elevated health risks from academic demands. While stress consequences are wellstudied, less is known about the role of physical activity (PA) and sedentary time (ST) in coping. This study examines how physical activity and sedentary time experience patterns in university students over time.

Design: 2022 - 2025: Prospective longitudinal cohort study (LUST: Lübeck University Student Trial)

university students ($M_{\rm age}$ = 20.81 \pm 3.33, 80.3 % female) Patricipants: N = 785 (1965 observations)

- Physical activity: Moderate to vigorous intensity physical activity in metabolic equivalent of task minutes per week (IPAQ: International Physical Activity Questionnaire, Craig et al., 2003)
- Sedentary time: Daily time spent sitting in minutes
- Academic coping behavior and experience patterns: Coping style of dealing with professional demands ACEP: Schaarschmidt & Fischer, 1997, 2008)
- Good health: Health promoting attitutde to work, optimal professional motivation, no health risks
- Sparing personal investment: Resource efficient
- Ambitious: Excessive engagement, workaholism attitude to work, self-protection, no health risk over-motivation, vulnerability to health risks
- resignation, high vulnerability and health risks
- Results & Discussion

sedentary time was associated with an increased hazard of direct transition from pattern G (Good health) to B (Burnout, HR = 2.33, 95% Cl: 1.14 - 4.74). Physical activity was not significantly associated with transition hazard mandated sitting could foster long-term healthy coping in ratios between coping patterns. Reducing structurally-Markov multi-state model analyses revealed that







Sedentary time increases the risk of direct transition from healthy to burnout-related coping patterns within one year of study.

Reducing sedentary time could support student well-being.

