

Dynamic sitting on Bioswing chair increase chair sway and can induce increased trunk muscle activity during office tasks and task-transitions

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Children & Adults:

a normal school day: $\frac{2}{3}$ of class time spent sitting
a normal working day: $\frac{1}{2}$ of the day spent sitting

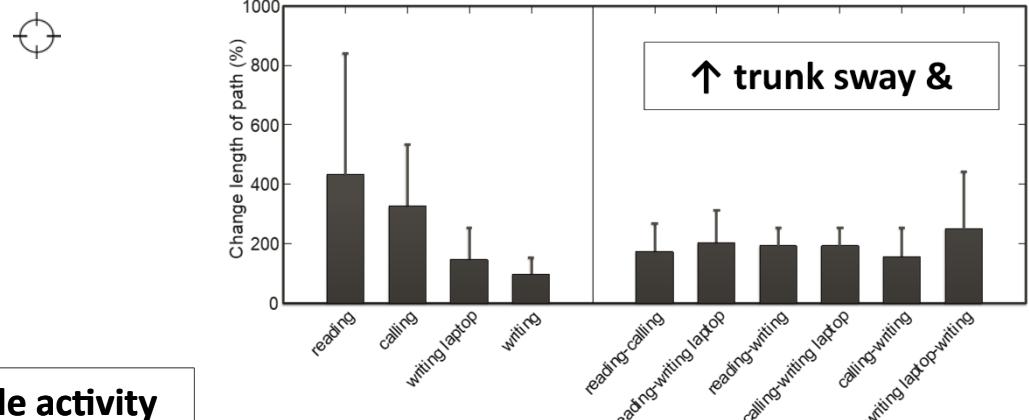
Physical Inactivity / Sedentarism

- biggest public health problem of the 21st century
- Independent cardiovascular risk factor
- higher risk of back pain, stroke, diabetes, etc.

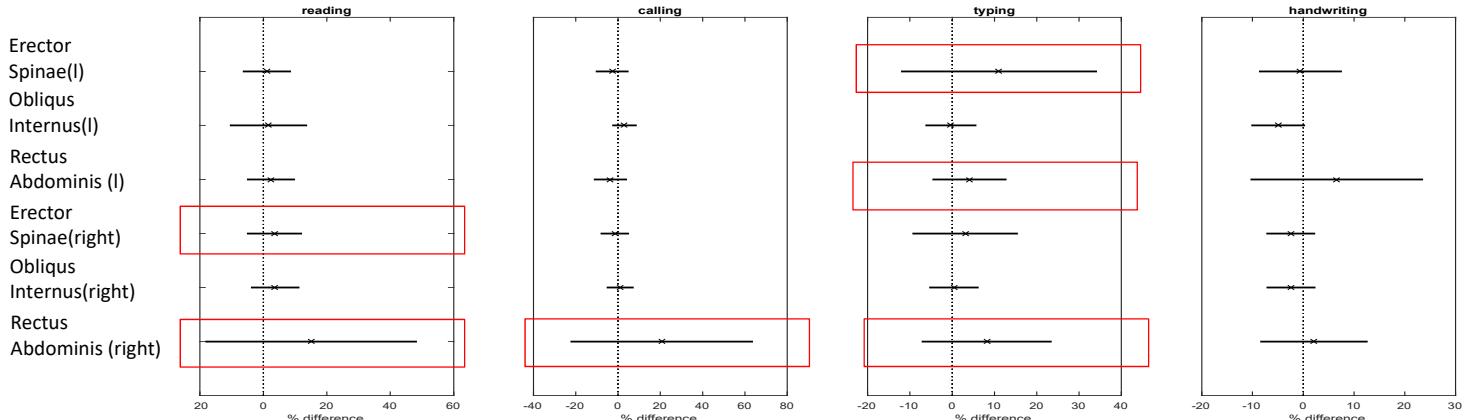


Bioswing Chair

- Cross-sectional crossover trial / n= 28 / young healthy, non-obese adults / 22 – 28 years of age / dynamic vs. Static sitting



Slight ↑ trunk muscle activity



References:

- Blair, S. N. (2009). "Physical inactivity: the biggest public health problem of the 21st century." Br J Sports Med 43(1): 1-2.
Wick, K., et al. (2018). "I Can Stand Learning: A Controlled Pilot Intervention Study on the Effects of Increased Standing Time on Cognitive Function in Primary School Children." Int J Environ Res Public Health 15(2).