

ESC Project: The influence of strangers in physical activity and sedentary behavior. A randomized controlled trial

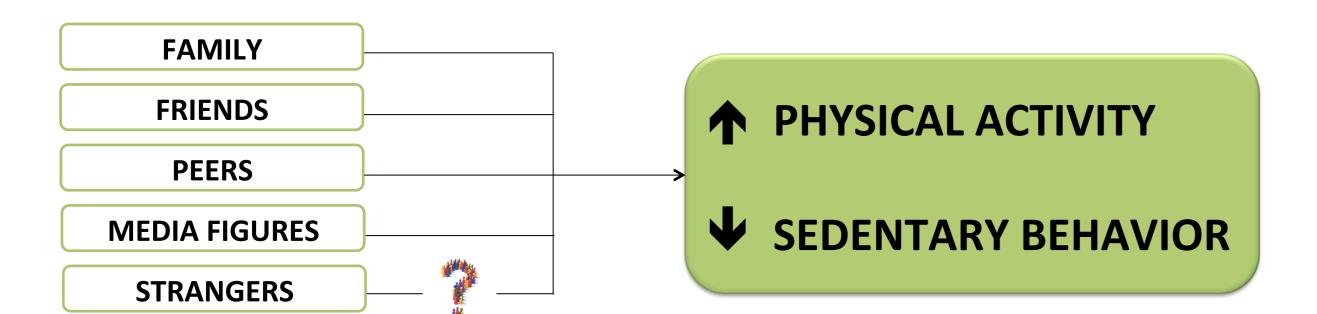
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Poster P3c.205 6.6.2015 | 11 a.m.

Introduction

A rising number of interventions targeting health behavior change have been emerging from Deci and Ryan's Self-Determination Theory (1). Recent research shows that exercise motivation can be "contagious" (2) and suggests that family (3), friends, peers (4) and media figures (5) can be used to make people more active and less sedentary. However, it seems that there is a lack of knowledge about social contagion through strangers. Hence, the main purpose of this study was to analyse the association between social contagion through strangers and Physical Activity (PA) and Sedentary Behavior (SB) levels.



Methods

- Data from the ESC (Exercise Socially Contagious) Project
- Randomized Controlled trial
- 74 adults (18-64 years), both genders, with 2 groups (37 participants each):

Intervention Group (IG)

- Exposed to strangers (staff members):
 - talking about PA
- 10 people doing PA
- PA video

Control Group (CG)

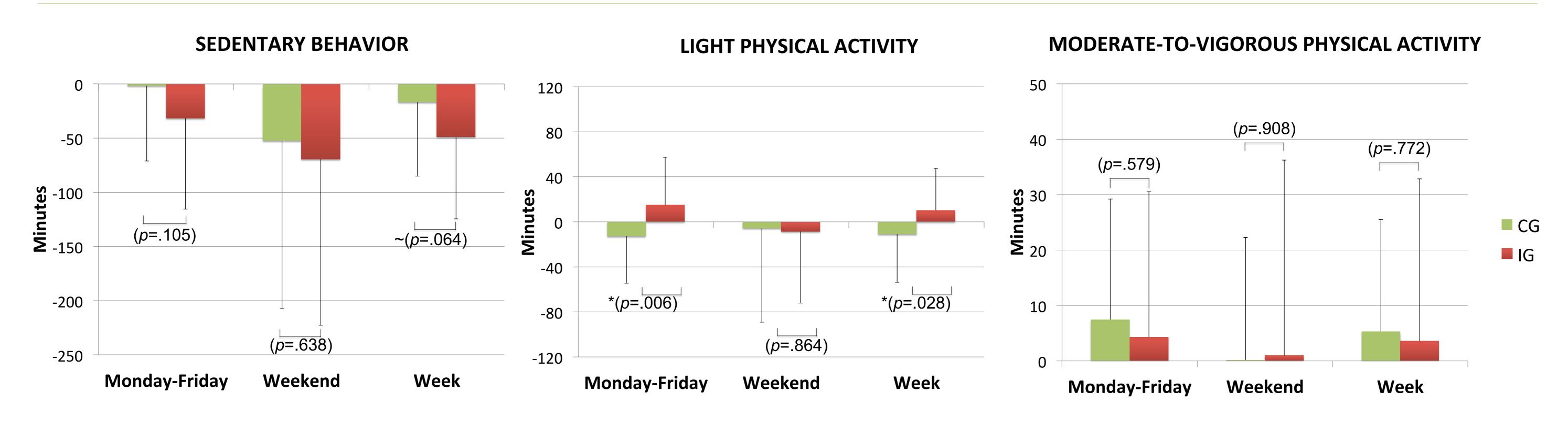
- Exposed to a video about healthy nutrition
- Participants PA and SB were measured objectively by accelerometers Actigraph wGT3X 512 MB for seven consecutive days, before and after the intervention.



 We compared the difference between post-test and pre-test of both groups (IG and CG) using a T-test for independent samples

Results

Differences between post-test and pre-test



Conclusions

The data indicate that the exposure to strangers doing and talking about PA was associated with a SB decrease in approximately 30 min in a week and a LPA increase in about 20 min in a week. Therefore, social contagion through strangers appears to promote behavior changes concerning PA and SB.

References

Fortier MS, Duda JL, Guerin E, Teixeira PJ. Promoting physical activity: development and testing of self-determination theory-based interventions. The international journal of behavioral nutrition and physical activity. 2012;9:20. Scarapicchia TM, Sabiston CM, Andersen RE, Bengoechea EG. The Motivational Effects of Social Contagion on Exercise Participation in Young Female Adults. Journal of Sport & Exercise Psychology. 2013;35:563-75.

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- Morgan PJ, Lubans DR, Callister R, Okely AD, Burrows TL, Fletcher R, et al. The "Healthy Dads, Healthy lifestyle program for overweight fathers and their children. International journal of obesity. Nature Publishing Group; 2011 Mar;35(3):436 Salvy S-J, Roemmich JN, Bowker JC, Romero ND, Stadler PJ, Epstein LH. Effect of Peers and Friends on Youth Physical Activity and Motivation to be Physically Active. Journal of Pediatric Psychology. 2009;34(2):217–25.
- 5. Taveras EM, Rifas-Shiman SL, Field AE, Frazier AL, Colditz GA, Gillman MW. The influence of wanting to look like media figures on adolescent physical activity. The Journal of adolescent health. 2004 Jul;35(1):41–50







