







A dyadic action control trial In overweight and obese couples

Submission date 20/03/2012	Recruitment status No longer recruiting	 Retrospectively registered
Registration date 27/04/2012	Overall study status Completed	 Protocol added
Last Edited 14/12/2021	Condition category Nutritional, Metabolic, Endocrine	 SAP not yet added
		 Results added
		 Raw data not yet added
		 Study completed

Plain English Summary

Background and study aims

Regular physical activity has a positive impact on health in general and on weight in particular. However, 60% of the Swiss population do not regularly take part in physical activity and 37% are overweight or obese. The aim of this study is to examine the benefits of physical activity in overweight and obese couples, specifically the role of the partner in increasing physical activity.

Who can participate?

Overweight or obese, heterosexual adult couples want to increase their physical activity

What does the study involve?

Participating couples, with one partner being the target person, are randomly allocated to one of four different groups. At the start of the study, participants in all four groups receive an information leaflet on the benefits of physical activity for health and weight management. Additionally, target people and their partners in group 1 are instructed to set behavioral goals on how to increase the target person's physical activity to the recommended level. The target people in group 2 are instructed to set behavioral goals on their own. During the following two weeks, target people receive a daily text message reminding them of their goals. In group 1 the text-message reminder is sent by the partner, and in group 2 it is sent by the study personnel. Participants in groups 3 and 4, as well as the partners of group 1 and 2, also receive reminders to complete their daily diary. Participants in group 3 are instructed to not set any behavioral goals. Participants in group 4 complete a diary without reporting their physical activity.

What are the possible benefits and risks of participating?

Completion of the study is reimbursed with CHF 200 per couple. Furthermore, participants of all four groups may increase their level of physical activity. In none of the four groups will participants encounter any risks, inconveniences or disadvantages.

Where is the study run from?

University of Bern (Switzerland)

When is the study starting and how long is it expected to run for?

March 2012 to January 2014

Who is funding the study?
Swiss National Science Foundation (Switzerland)

Who is the main contact?
Ms Corina Berli
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Study website
<http://www.ges.psy.unibe.ch/aktiv/>

Contact information

Type(s)
Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Protocol/serial number
N/A

Study information

Scientific Title
Individual versus dyadic action control: a randomized controlled trial to promote physical activity in overweight and obese couples

Acronym
DYACTIC

Study hypothesis
1. Is a dyadic action-control intervention more effective in promoting physical activity than an individual action-control intervention and control conditions? Is the effect of dyadic action-

control dependent on the individual regulation capacities?

It is assumed that the dyadic action control intervention is superior in its effects on physical activity in an intentional sample than an individual action control intervention or control conditions. Both experimental groups (dyadic vs. individual action control) should be more successful in their behavioral change than control conditions. Moreover, it is assumed that this positive effect of dyadic action control is even more pronounced in individuals low in their individual self-regulation competencies.

2. What are the mediating mechanisms of the dyadic and individual action control conditions?

It is hypothesized that in the individual action control condition, the potential mediating mechanisms are enhanced action control and self-efficacy. The mediating mechanisms in the dyadic action control condition are in addition to these two individual components also social control and social support.

3. Are there gender differences in the effectiveness of a dyadic action control intervention?

It is assumed that men benefit more from a dyadic action control intervention provided by their heterosexual partner than women.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Faculty of Human Sciences Ethics Committee, University of Bern, 21/02/2012 ref: 2011-12-36206

Study design

Single-blind single-centre randomized controlled trial with longitudinal design

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Other

Study type(s)

Quality of life

Participant information sheet

<http://www.ges.psy.unibe.ch/aktiv/> [German]

Condition

Physical activity in overweight and obese individuals

Interventions

Experimental group I: Dyadic action-control group

1. Information leaflet on the benefits of moderate-intensity physical activity and the recommendations of the Swiss Federal Office of Sports (BASPO).

2. At the end of the baseline session, target persons and their partners are instructed to form behavioral goals to increase the target persons physical activity to the recommended levels (e.

g., get off the bus two stops earlier when going to work or take the bike instead of the car).
3. Partners are instructed to send daily text messages aiming at reminding the target person to their physical activity goals in personalized form (e.g., Dear Peter, which of the planned activities have you already carried out today? Love, Regula) on weekdays during the two weeks following baseline assessment. Target persons will not be informed that partners will receive a reminder text message from the study personnel every day instructing them to send the text message (and to fill in the diary at the end of the day).

Experimental group II: Individual action-control group

1. Information leaflet on the benefits of moderate-intensity physical activity and the recommendations of the Swiss Federal Office of Sports (BASPO).
2. At the end of the baseline session, target persons alone are instructed to form behavioral goals to increase their physical activity to the recommended levels (e.g., get off the bus two stops earlier when going to work or take the bike instead of the car).
3. On weekdays during the two weeks following baseline assessment, the target persons will receive a daily text messages from the study personnel aiming at reminding the target person to their physical activity goals. Partners of the target persons in this condition will receive a text message at the same time with the prompt to complete the diary at the end of the day.

Control group I: Full diary version

1. Information leaflet on the benefits of moderate-intensity physical activity and the recommendations of the Swiss Federal Office of Sports (BASPO).
2. Couples in control group I will not be instructed to form any behavioral goals, but will also receive text messages (at the same time as all other participants) with the prompt to complete the diary at the end of the day.

Control group II: Diary without self-reported physical activity

1. Information leaflet on the benefits of moderate-intensity physical activity and the recommendations of the Swiss Federal Office of Sports (BASPO).
2. Couples of this second control group will receive the same instructions and text messages during the diary phase as control group I participants. As completing a diary on self-reported physical activity might in itself trigger self-monitoring, albeit not as strongly as the two intervention groups, the second control group serves the purpose to control for this potential diary effect by only completing questions on social-cognitive variables, but not on self-reported physical activity. Thus, this group will rely on ambulatory momentary monitoring of physical activity by means of an accelerometry only.

Intervention Type

Behavioural

Primary outcome measure

1. 7-day-recall of physical activity, measured using an adapted version of the Physical Activity Frequency Questionnaire (PAFQ; Bernstein et al., 1998) and German-PAQ-50+ (Huy & Schneider, 2008) at baseline, 1 month follow-up and 6 month follow-up.
2. 24-hour-recall of physical activity, measured using an adapted short version of the Physical Activity Frequency Questionnaire (PAFQ; Bernstein et al., 1998) during the diary phases, i.e., daily during 28 days following baseline assessment and daily during 14 days after 6 month follow-up.
3. Accelerometry Data of physical activity (amount of light, moderate and intense activity per day, energy expenditure per day), measured by Actigraph devices GT3X+ daily during 28 days following baseline and daily during 14 days after 6 month follow-up.

Secondary outcome measures

1. Habitual physical activity, measured using the Baecke Index at run-in period and 6 month follow-up
2. Body Mass Index (BMI), waist circumference, waist-to-hip-ratio, measured at baseline, one month follow-up and 6 month follow-up
3. Aerobic fitness, measured by the submaximal cycle test Aerobic Power Index at baseline and 6 month follow-up.

Overall study start date

16/03/2012

Overall study end date

03/01/2014

Eligibility

Participant inclusion criteria

1. Heterosexual adult couples
2. Being committed for at least 12 months
3. Cohabiting for at least 6 months
4. German-speaking
5. BMI > 25
6. Physically inactive and intending to be more active

Participant type(s)

Healthy volunteer

Age group

Adult

Sex

Both

Target number of participants

160 couples (n=40 couples per group)

Participant exclusion criteria

1. 24-hour shift work
2. Pregnancy

Recruitment start date

16/03/2012

Recruitment end date

03/01/2014

Locations

Countries of recruitment

Germany

Switzerland

Study participating centre

University of Konstanz

Konstanz

Germany

78457

Sponsor information

Organisation

University of Bern (Switzerland)

Sponsor details

Institute of Psychology

Health Psychology

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Sponsor type

University/education

Website

<http://www.ges.psy.unibe.ch>

ROR

<https://ror.org/02k7v4d05>

Funder(s)

Funder type

Research organisation

Funder Name

Schweizerischer Nationalfonds zur Förderung der Wissenschaftlichen Forschung ref:
PP00P1_133632/1

Alternative Name(s)

Schweizerischer Nationalfonds, Swiss National Science Foundation, Fonds National Suisse de la Recherche Scientifique, Fondo Nazionale Svizzero per la Ricerca Scientifica, Fonds National Suisse, Fondo Nazionale Svizzero, Schweizerische Nationalfonds, SNF, SNSF, FNS

Funding Body Type

Private sector organisation

Funding Body Subtype

Trusts, charities, foundations (both public and private)

Location

Switzerland

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

Not provided at time of registration

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article	protocol	24/12/2014		Yes	No
Results article	results	01/08/2016		Yes	No
Results article	results	05/01/2018	28/10/2019	Yes	No
Results article		24/11/2021	14/12/2021	Yes	No