

Participation of Industrial workers in a Physical and Psychosocial Intervention (PIPPI)

Submission date 18/06/2013	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 10/07/2013	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
Last Edited 09/12/2019	Condition category Injury, Occupational Diseases, Poisoning	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

Studies have shown that need for recovery (a persons desire to be temporarily relieved from work stressors to replenish his or her resources) is related to work demands and resources among workers. In the short term, high work demands lead to an increased shortage of resources which is considered to enhance the need for recovery. In the long term, absence of recovery may lead to tiredness, exhaustion, loss of function and physical and mental problems. The accumulated tiredness from repeated insufficient recovery is associated with health problems, sick leave and work disability. Work ability is also associated with long term effects of insufficient need for recovery, i.e., tiredness, reduced productivity, stress and burnout as well as future sickness absence and early retirement. Blue collar workers (people who perform manual labor) generally experience higher need for recovery, tiredness, reduced work ability and comparatively higher risk of early exit from the labor market. Thus, it is important to develop effective initiatives to reduce need for recovery and increase work ability among these workers to improve the balance between work demands and resources. However, research about these methods is scarce. Therefore, the present study aims to find out how well our method to improve the balance between demands and resources among industrial workers works.

Who can participate?

Workers from work teams belonging to selected departments mainly involved in manufacturing in industrial companies in Denmark will be offered participation in the study.

What does the study involve?

The study involves an audit to find out the existing resources in the companies. Various workshops will be conducted to train leaders and health and safety representatives for supporting and facilitating the study method. The working teams and later the individual workers will participate in sessions to discuss current work demands and resources (both physical and psychosocial), develop action plans and implement them to minimize demands and maximize the positive effects of the resources at work. The workers will be involved in collecting information for a broad effect and process evaluation. For these evaluations, information will be collected via questionnaire at the start, at the end of first year and at the end of second year and also via text messages each month. The information will also be collected via interviews at

different levels of organization, via observations during the activities and via organizational records and documents.

What are the possible benefits and risks of participating?

This activities will benefit the workers by improving their work resources and demands, potentially reducing need for recovery and improving work ability. This will also provide the team leaders with a systematic method to deal with work environment problems and improve the balance between demands and resources in the work team. This will benefit the participating organizations by providing them with the knowledge and training for performing these initiatives in the future. There are no known risks of participating in this study.

Where is the study run from?

The study is managed by a research group from The National Research Centre for the Working Environment in Copenhagen, Denmark.

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

This is a two-year study. The contact with work places and planning of the study method started in January 2013. In one of the companies, the organizational resources audit has started in May 2013 and the initial information collection will begin in June 2013. An identical procedure will be performed after approximately six months in a second company.

Who is funding the study?

This study is a part of a research grant from the Government (Satspulje grant), Denmark.

Who is the main contact?

Prof. Andreas Holtermann
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Contact information

Type(s)

Scientific

Contact name

Dr Andreas Holtermann

Contact details

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2100

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title

Participation of Industrial workers in a Physical and Psychosocial Intervention (PIPPI): a randomized controlled trial

Acronym

PIPPI

Study objectives

Primary hypothesis: The intervention will reduce the need for recovery among industrial workers.
Secondary hypothesis: The intervention will improve the work ability among industrial workers.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethical Committee for the Capital Region of Denmark, 12/02/2013, ref: H-2-2013-FSP13

Study design

Two year wait-list cluster randomized controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Other

Study type(s)

Quality of life

Participant information sheet

No participant information sheet available

Health condition(s) or problem(s) studied

All workers with or without diseases and working in the participating teams in the industrial sectors.

Interventions

This is a two-year waitlist randomized control study.

In the first year, the intervention group will receive the treatment while control group will receive treatment as usual. The intervention will be conducted at different levels of organization. At the organizational level, an audit of organizational resources will be carried out to map the existing resources in relation to the working environment and act upon initiatives

not functioning as intended. At the leader level, workshops will be conducted to train leaders and health and safety representatives in supporting and facilitating the intervention activities, to provide these groups with knowledge about the main features of the intervention and to furnish them with an opportunity for learning by sharing the experiences about the progress of the intervention. At the group and individual level, participatory cognitive mapping sessions will be carried out, allowing team members to discuss current work demands and resources (both physical and psychosocial) and to develop action plans to minimize demands and maximize the positive effects of the resources. At all levels, the intervention will be implemented with the existing organization of work (e.g. by utilizing time already allotted for team meetings and leader-employee talks). The company will be provided with visual boards to aid the implementation of action plans. All levels of the company will work together in ensuring that corrective action is taken regarding imbalances between demands and resources uncovered during the intervention. If required, the assistance of an experienced consultant will be available to the teams for implementing action plans. In the second year, control group will also receive the similar intervention (explain above) while the intervention group will voluntarily participate in the intervention.

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

1. Need for recovery measured at baseline and at first and second follow-up via questionnaire and also during each month via text messages.

Secondary outcome measures

1. Work ability, quantitative productivity, perceived exertion, job satisfaction and sickness absence measured via questionnaire at first and second follow-up and via SMS every second month.
2. Work demands and resources, well-being, work commitment and engagement, burnout, intention to retire measured at first and second follow-up via questionnaire.

Overall study start date

01/01/2012

Completion date

30/12/2018

Eligibility**Key inclusion criteria**

1. Inclusion criteria for intervention: workers from work teams belonging to selected departments mainly involved in manufacturing in industrial companies in Denmark.
2. Inclusion criteria for the participation in scientific evaluation of study: Sign the informed consent, work for 20 hours/week or more.

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

The target number of participants will be at least 300 workers.

Total final enrolment

415

Key exclusion criteria

No exclusion criteria for participating in the intervention activities.

Exclusion criteria for participation in scientific evaluation of study: Not fulfilling the abovementioned inclusion criteria.

Date of first enrolment

01/01/2013

Date of final enrolment

01/01/2014

Locations**Countries of recruitment**

Denmark

Study participating centre

National Research Centre for the Working Environment

Lersø Parkallé 105

Copenhagen

Denmark

2100

Sponsor information**Organisation**

National Research Centre for the Working Environment (Denmark)

Sponsor details

Lersø Parkallé 105

Copenhagen

Denmark

2100

Sponsor type

Research organisation

ROR

<https://ror.org/03f61zm76>

Funder(s)

Funder type

Government

Funder Name

This study has been supported by the Danish Parliament (Satspuljen 2012; Nye Veje) grant number 17.21.02.60.

Results and Publications

Publication and dissemination plan

Planned publication in a high-impact peer reviewed journal.

Intention to publish date

30/12/2019

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be stored in a non-publically available repository Dansk data arkiv(<https://www.sa.dk/brug-arkivet/danskdataarkiv/dda-dansk-data-arkiv>) from 01/09/2017.

IPD sharing plan summary

Stored in repository

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/01/2018	09/12/2019	Yes	No