‘Relieved Working’ study: intervention to decrease occupational quartz exposure at construction worksites

No registrations found.

Ethical review	Not applicable
Status	Recruitment stopped
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON26894

Source
Nationaal Trial Register

Brief title
Relieved Working

Health condition

occupational quartz exposure

Sponsors and support

Primary sponsor: Netherlands Organisation for Applied Scientific Research TNO
Source(s) of monetary or material Support: ZON-MW, The Netherlands Organization for Health Research and Development

Intervention

Outcome measures

Primary outcome

Personal respirable dust and quartz exposure

Secondary outcome

Behavioural outcomes:

- beliefs

- skills

- intention

- risk perception

Study description

Background summary

Occupational quartz exposure continues to be an important hazard in the construction industry. Until now, evidence-based interventions aimed at reducing quartz exposure are scarce. The aim of this study was to systematically develop an intervention and to describe the study to evaluate its effectiveness.

The intervention was developed according to the principles of the Intervention Mapping protocol, meaning that evidence from the literature was combined with information collected from stakeholders (e.g., construction workers, managers and researchers). The intervention aimed to integrate technical, behavioral and organizational factors. The intervention consists of two plenary meetings for all employers within the company and individual visits at construction worksites including specific intervention materials. Additionally, a demonstration session about control measures is organized for all managers. The effectiveness of the intervention will be evaluated in a cluster randomized controlled trial among eight construction companies, with measurements at baseline and follow-up. Outcome measures are personal respirable dust and quartz exposure by means of exposure assessment and behavioural and organizational determinants which will be assessed by means of questionnaires. Additionally, a process evaluation will shed light on whether, how and why the intervention (does not) work(s).

Study objective

Our hypothesis is that after the intervention the exposure assessment and behavioral factors (e.g. knowledge, skills and social influence) in the intervention group will be significantly higher than the outcomes of those in the control group at follow-up

Study design

Baseline

Follow-up (1 year)

Intervention

The intervention aimed to integrate technical, behavioural and organizational factors. The intervention consists of two plenary meetings for all employers within the company and individual visits at construction worksites including specific intervention materials. Additionally, a demonstration session about control measures is organized for all managers.

Contacts

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Eligibility criteria

Inclusion criteria

1. Construction workers

2. Availability: available for the study for the following 12 months

3. Permission: signed an informed consent

4. No co-intervention of other long term health programs

Exclusion criteria

1. Medical contraindication for participation

2. Not sufficiently capable of using the Dutch language

Study design

Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Open (masking not used)
Control:	Active

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	01-01-2012
Enrollment:	120
Type:	Actual

Ethics review

Not applicable

Application type:	Not applicable

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL4372
NTR-old	NTR4586
Other	:

Study results

Summary results
Quartz and Respirable Dust in the Dutch Construction Industry: A Baseline Exposure Assessment as Part of a Multidimensional Intervention Approach. van Deurssen E, Pronk A, Spaan S, Goede H, Tielemans E, Heederik D, Meijster T. Ann Occup Hyg. 2014 Apr 10. [Epub ahead of print]