

# 'Relieved Working' study: intervention to decrease occupational quartz exposure at construction worksites

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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...

|                             |                       |
|-----------------------------|-----------------------|
| <b>Ethische beoordeling</b> | Niet van toepassing   |
| <b>Status</b>               | Werving gestopt       |
| <b>Type aandoening</b>      | -                     |
| <b>Onderzoekstype</b>       | Interventie onderzoek |

## Samenvatting

### ID

NL-OMON26894

### Bron

Nationaal Trial Register

### Verkorte titel

Relieved Working

### Aandoening

occupational quartz exposure

### Ondersteuning

**Primaire sponsor:** Netherlands Organisation for Applied Scientific Research TNO

**Overige ondersteuning:** ZON-MW, The Netherlands Organization for Health Research and Development

### Onderzoeksproduct en/of interventie

### Uitkomstmaten

#### Primaire uitkomstmaten

## Toelichting onderzoek

### Achtergrond van het onderzoek

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).

### Doel van het onderzoek

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

### Onderzoeksopzet

Baseline

Follow-up (1 year)

### Onderzoeksproduct en/of interventie

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.

## Contactpersonen

### Publiek

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### Wetenschappelijk

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## Deelname eisen

### Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

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

### Belangrijkste redenen om niet deel te kunnen nemen

## (Exclusiecriteria)

1. Medical contraindication for participation
2. Not sufficiently capable of using the Dutch language

## Onderzoeksopzet

### Opzet

|                  |                         |
|------------------|-------------------------|
| Type:            | Interventie onderzoek   |
| Onderzoeksmodel: | Parallel                |
| Toewijzing:      | Gerandomiseerd          |
| Blinding:        | Open / niet geblindeerd |
| Controle:        | Actieve controle groep  |

### Deelname

|                         |                       |
|-------------------------|-----------------------|
| Nederland               |                       |
| Status:                 | Werving gestopt       |
| (Verwachte) startdatum: | 01-01-2012            |
| Aantal proefpersonen:   | 120                   |
| Type:                   | Werkelijke startdatum |

## Ethische beoordeling

|                     |                     |
|---------------------|---------------------|
| Niet van toepassing |                     |
| Soort:              | Niet van toepassing |

## Registraties

### Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

## Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

## In overige registers

| Register       | ID      |
|----------------|---------|
| NTR-new        | NL4372  |
| NTR-old        | NTR4586 |
| Ander register | :       |

## Resultaten

### Samenvatting resultaten

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]