

Original research

Quality of reporting and risk of bias: a review of randomised trials in occupational health

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ABSTRACT

Objectives To assess the reporting quality of randomisation and allocation methods in occupational health and safety (OHS) trials in relation to Consolidated Standards of Reporting Trials (CONSORT) requirements of journals, risk of bias (RoB) and publication year. **Methods** We systematically searched for randomised controlled trials (RCTs) in PubMed between 2010 and May 2019 in 18 OHS journals. We measured reporting quality as percentage compliance with the CONSORT 2010 checklist (items 8-10) and RoB with the ROB V.2.0 tool (first domain). We tested the mean difference (MD) in % in reporting quality between CONSORT-requiring and non-requiring journals, trials with low, some concern and high RoB and publications before and after 2015. Results In 135 articles reporting on 129 RCTs, average reporting quality was at 37.4% compliance (95% CI 31.9% to 43.0%), with 10% of articles reaching 100% compliance. Reporting quality was significantly better in CONSORT-requiring journals than non-requiring journals (MD 31.0% (95% CI 21.4% to 40.7%)), for studies at low RoB than high RoB (MD 33.1% (95% CI 16.1% to 50.2%)) and with RoB of some concern (MD 39.8% (95% CI 30.0% to 49.7%)). Reporting quality did not improve over time (MD -5.7% (95% CI -16.8% to 5.4%).

Conclusions Articles in CONSORT-requiring journals and of low RoB studies show better reporting quality. Low reporting quality is linked to unclear RoB judgements (some concern). Reporting quality did not improve over the last 10 years and CONSORT is insufficiently implemented. Concerted efforts by editors and authors are needed to improve CONSORT implementation.

INTRODUCTION

As researchers, we have an implicit sense that some studies are better than others. To this end, we judge how studies are set up and whether a risk exists that the results are biased. For this, proper reporting of how research data was collected, analysed, and interpreted is crucial regardless of the study type. Already twenty years ago, researchers called for better reporting of studies, which resulted in reporting guidelines for almost any study type.

Even though randomised controlled trials (RCTs) are considered the most rigorous scientific method to evaluate the effectiveness of interventions, evaluating the risk of bias (RoB) is indispensable to judge if findings can be trusted. When randomisation was not carried out properly or the allocation

Key messages

What is already known about this subject?

➤ The hallmark of randomised controlled trials is the random allocation of study participants but it has since long been recognised that randomisation and allocation methods are not well reported in general medical journals.

What are the new findings?

- ▶ In 135 articles of occupational health intervention studies, on average authors reported sufficiently on only 37.4% (95% CI 31.9% to 43.0%) of the required Consolidated Standards of Reporting Trials (CONSORT) checklist items regarding randomisation and allocation concealment, with only 10% of articles reaching 100%.
- ► In journals that require authors to use CONSORT reporting guidelines, reporting quality was 31 percentage points better (95% CI 21.4% to 40.7%) than in non-requiring journals.
- ► The average reporting quality of studies with low risk of bias was 33.1 percentage points better (95% CI 16.1% to 50.2%) than of studies with a high risk of bias.
- ➤ Over the past 10 years, the average reporting quality of randomisation and allocation concealment methods in occupational health and safety (OHS) trials did not improve.

How might this impact on policy or clinical practice in the foreseeable future?

- Findings demonstrate the need for journal editors and peer-reviewers to improve CONSORT adherence in randomised OHS trial reports.
- ➤ Trial authors need to improve reporting of sequence generation, allocation concealment and randomisation implementation methods in trial reports.

of participants was not maintained throughout the study, the results may be biased leading to false positive or false negative findings. 5-7 Yet, missing information in study reports may make it difficult or impossible to judge the RoB and the truthfulness of the results.

To ensure that methods are well documented and to improve the reporting quality of RCTs, the Consolidated Standards of Reporting Trials



Practice

(CONSORT) has been developed. It is a list of items to be reported in RCTs 'for which there was evidence, whenever possible that not adequately reporting this information could lead to biased estimates of the benefits of the intervention under investigation'. According to the CONSORT statement, articles reporting RCTs should include specific information about, among others, the randomisation methods and allocation procedure. The CONSORT checklist addresses the minimum set of items deemed fundamental to be reported in any randomised trial.8 It has been developed for RCTs with an extension for cluster RCTs (cRCTs), which are conducted in many health fields including occupational health and safety (OHS). From the reported information, the reader can judge if allocation was truly random and was maintained throughout the study and assess the RoB for these items. 10 In 2010, the CONSORT statement was revised and published in ten journals. Since then the updated statement has been endorsed by some journals and not by others. One can assume that more attention is drawn to the statement over the years, but it is unclear whether compliance with CONSORT has improved over time. Compliance with CONSORT has been studied in many medical fields with the general conclusion that reporting quality needs to be improved. 11-17 However, compliance with CONSORT of trials reported in OHS journals and the association to the RoB in studies has not been evaluated.

Objective

The aim of this study is to assess the reporting quality of randomisation and allocation methods of trials published in OHS journals and to evaluate if the reporting quality differs between earlier and more recent years of publication, CONSORT-requiring and non-requiring journals, and studies with high, some concern and low RoB.

METHODS

We defined reporting quality as percentage compliance with CONSORT checklist items in articles, with 100% indicating full compliance (highest reporting quality) and 0% implying no CONSORT item being reported (lowest reporting quality). We calculated the minimum required sample size to be 100 articles to detect a prevalence of 3% reporting quality different from zero with a power of 0.8 and p being 0.05. ¹⁸ We conducted a systematic literature search in 18 scientific OHS journals using MEDLINE via PubMed. We searched for RCTs published between 1 January 2010 (the year the CONSORT statement was revised) ⁹ and 28 May 2019. The full search strategy is provided in online supplemental table a.

We included RCTs with workers or workplaces as participants, irrespective of the type of intervention and comparison. We excluded cross-over trials, protocols, pilot studies, exposure studies, and studies that only reported secondary outcomes or cost-effectiveness analysis results because of more complicated reporting issues. We retrieved full-text articles of included studies to extract data on the year of publication, journal, randomisation methods and allocation process. We classified journals as CONSORT-requiring or non-requiring journals, based on the information provided on the journals' websites. We defined a journal as CONSORT-requiring, if authors are required to comply with the CONSORT statement or checklist⁹ when submitting an article. We distinguished between RCTs and cRCTs and classified articles with missing information on the type of randomisation method as RCTs.

We used the CONSORT 2010 checklist⁹ and the extension for cRCTs¹⁹ to measure the reporting quality of the randomisation

method and allocation process in articles. Assessment was done by one and checked by a second author. Disagreements were resolved via discussion. The checklist is structured into a fixed set of items that need to be included in a journal article when reporting a randomised trial. We applied the checklist items required for reporting the sequence generation, allocation concealment, randomisation implementation method and type. Those are four items for RCTs (8a, 8b, 9 and 10) and eight items for cRCTs (8a, 8b, extension 8b, 9, extension 9, 10a, 10b, 10c) (online supplemental table b). We calculated the reporting quality as percentage score (0%-100%) using the number of items reported divided by the number of items required according to CONSORT. For each article, data extraction and assessment of reporting quality was done by one and checked by a second author. We calculated the mean and SD of the reporting quality score per journal, journal type (CONSORT requirement yes or no), publication year (2010-2014 and 2015-2019), study type (RCTs and cRCTs) and RoB (low, some concern and high).

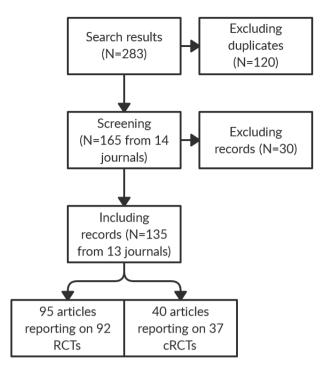
The Cochrane risk of bias tool (ROB V.2.0) is structured into five domains of signalling question. Each domain focuses on different aspects of the trial. Based on the answers to the signalling questions, the judgement of the RoB can be generated by an algorithm as either 'low RoB', 'some concern' or 'high RoB'. We used the first domain of ROB V.2.0 and the proposed algorithm to assess the RoB arising from the randomisation process (risk of selection bias) for each included trial. 10 We used study IDs to identify articles that report on the same study and agreed on the outcome for which to assess RoB (the first primary outcome mentioned in the results section). We did not contact study authors for additional information but used information from references provided in included articles. We assessed the RoB in duplicate and resolved disagreements via discussion. To ensure similar results between assessors, we performed one calibration exercise prior to the RoB assessment and discussed how to apply and interpret the RoB V.2.0 guidance document.²⁰ We also developed additional criteria for one of the three signalling questions (online supplemental table c) and used a third author to doublecheck RoB judgements from baseline characteristics.

We calculated the interrater reliability for the RoB judgement using Fleiss kappa. Agreement was categorised as poor (\leq 0.00), slight (0.01–0.20), fair (0.21–0.40), moderate (0.41–0.60), substantial (0.61–0.80) and almost perfect (0.81–1.00) using the interpretation of the k value proposed by Landis and Koch.²¹

We used the t-test and Satterthwaite approximation for standard errors to evaluate if the mean reporting quality of articles (1) improved over time (before 2015 vs after 2015), (2) is higher in journals referring to the CONSORT statement compared with articles published in journals without a reference to it, (3) is higher for articles reporting on low RoB studies compared with (A) high RoB studies or (B) studies of some concern and (4) is lower for articles reporting on studies with an unclear RoB judgement (some concern) compared with a clear RoB judgement (high or low).

RESULTS

Our search resulted in 135 included articles from 13 journals reporting on 129 (92 RCTs and 37 cRCTs) (figure 1, online supplemental table d). Six studies were reported in more than one article. Four studies did not provide enough information to identify the randomisation type. We categorised these as RCTs. A minority of journals (N=4) required authors to comply with the CONSORT statement (table 1). In our sample the journal with the highest mean reporting quality score was Occupational



N: number; RCT: randomised controlled trial; cRCT: cluster RCT

Figure 1 Flow chart.

Environmental Medicine, followed by Annals of Work Exposure and Health, and Scandinavian Journal of Work Environment and Health

Reporting quality was slightly better for RCTs (mean 38.9, SD 34.2) than cRCTs (mean 33.8, SD 28.8). All required checklist items were reported in 10% of the articles (13/135). Most articles (78/135) reported less than half of the checklist items (online supplemental table e). Sequence generation methods were most frequently reported (checklist item 8a) and the implementation of randomisation the least (checklist item 10

| Table 2 Checklist items reported by | y articles | of RCTs and | cRCTs |
|---|----------------|-----------------|------------------|
| CONSORT checklist items reported in N (%) articles | RCTs (N=95) | cRCTs (N=40) | Total (N=135) |
| All items | 12 (13%) | 1 (3%) | 13 (10%) |
| Sequence generation method (8a) | 54 (59%) | 16 (42%) | 70 (54%) |
| Sequence generation type | 46 (53%) | 9 (28%) | 55 (41%) |
| Type of randomisation (8b) | 46 (53%) | 13 (34%) | 59 (47%) |
| Details of stratification or matching (extension 8b) | na | 15 (45%) | 15 (14%) |
| Allocation concealment | 27 (32%) | 8 (20%) | 35 (26%) |
| Mechanisms to conceal sequence until allocation (9) | 27 (32%) | 10 (26%) | 37 (30%) |
| Concealment at cluster or individual level (extension 9) | na | 12 (34%) | 12 (11%) |
| Implementation of randomisation | 21 (26%) | 2 (3%) | 23 (17%) |
| Who generated sequence, who enrolled, who assigned (10) | 21 (26%) | na | 21 (18%) |
| Who generated sequence, who enrolled clusters, who assigned (10a) | na | 6 (15%) | 6 (5%) |
| How were individual participants included in clusters (10b) | na | 17 (43%) | 17 (13%) |
| Who gave consent and when (10c) | na | 19 (44%) | 19 (14%) |

CONSORT, Consolidated Standards of Reporting Trials; cRCTs, cluster randomised controlled trial; na, not applicable; RCTs, randomised controlled trial.

and 10a, b, c) (table 2, online supplemental table e). In some articles authors reported both the method and type of sequence generation (34 RCTs, 7 cRCTs) in half of those articles either allocation concealment method (18 RCTs, 4 cRCTs) or the implementation of the randomisation (14 RCTs, 2 cRCTs) were also reported.

The risk of selection bias was low in 49 trials (52 articles), of some concern for almost half the trials (63 studies reported in 66 articles), and high in 17 trials (17 articles).

The value for fixed-marginal kappa showed a moderate strength of agreement in RoB assessments between assessors (0.50; 95% CI 0.36 to 0.64).

| Journal | Total # articles (RCTs/cRCTs) | Impact factor 2017* | CONSORT requirement† | Mean reporting quality (%) (95 % CI) |
|---|----------------------------------|---------------------|----------------------|--------------------------------------|
| Medycyna Pracy | 1 (1/0) | 0.6 | No | 0 (–) |
| International Journal of Occupational and Environmental Health‡ | 1 (0/1) | 1.2 | No‡ | 0 (–) |
| Occupational Medicine | 2 (1/1) | 1.5 | No | 0 (–) |
| Toxicology & Industrial Health | 1 (1/0) | 1.3 | Yes | 0 (–) |
| International Journal of Occupational Medicine and Environmental Health | 2 (2/0) | 1.4 | No | 12.5 (-12.2 to 37.2) |
| American Journal of Industrial Medicine | 4 (4/0) | 1.7 | No | 12.5 (-12.2 to 37.2) |
| Journal of Occupational and Environmental Medicine | 37 (29/8) | 1.4 | No | 17.6 (11.0 to 24.2) |
| Journal of Occupational Health | 11 (8/3) | 1.3 | No | 31.8 (16.4 to 47.2) |
| International Archives of Occupational and Environmental Health | 15 (9/6) | 2.1 | Yes | 38.3 (24.4 to 52.3) |
| Industrial Health | 5 (3/2) | 1.1 | No | 42.5 (13.7 to 71.3) |
| Scandinavian Journal of Work. Environment & Health | 31 (20/11) | 2.8 | Yes | 50.4 (39.7 to 61.1) |
| Annals of work Exposure and Health§ | 1 (0/1) | 1.6 | No | 62.5 (–) |
| Occupational and Environmental Medicine | 24 (17/7) | 4 | Yes | 65.1 (51.2 to 79.0) |
| All journals (N=13) | 135 (95/40) | _ | _ | 37.4 (31.9 to 43.0) |

^{*}As of June 2020

[†]Instructions to authors require authors to comply with CONSORT statement or checklist.

[‡]Gone out of print.

[§]Previously Annals of Occupational Hygiene.

CONSORT, Consolidated Standards of Reporting Trials; cRCTs, cluster randomised controlled trials; RCTs, randomised controlled trials.

| Table 3 Differences in the average reporting quality in articles between journals, year of publication and RoB in studies | | | | |
|---|------------|--|-----------------------------|---------|
| Average reporting quality in articles | # articles | Mean reporting quality (%) (95% CI) | Mean difference (95% CI) | P value |
| Journals with versus without CONSORT requirement | | | | |
| With CONSORT requirement | 71 | 52.1 (44.4 to 59.8) | | |
| Without CONSORT requirement | 64 | 21.1 (15.1 to 27.1) | 31.0 (21.4 to 40.7) | < 0.001 |
| Older versus newer publications | | | | |
| Articles published 2010–2014 | 69 | 34.6 (26.7 to 42.6) | | |
| Articles published 2015–2019 | 66 | 40.3 (32.4 to 48.2) | -5.7 (-16.8 to 5.4) | 0.309 |
| Articles of low versus some concern vs high risk of bias studies | | | | |
| Low | 52 | 61.1 (53.2 to 68.9) | | |
| Some concern | 66 | 21.2 (15.2 to 27.3) | 39.8 (30.0 to 49.7) | < 0.001 |
| High | 17 | 27.9 (12.4 to 43.4) | 33.1 (16.1 to 50.2) | < 0.001 |
| Articles of unclear versus clear risk of bias studies | | | | |
| Unclear RoB (some concern) | 66 | 21.2 (15.2 to 27.3) | | |
| Clear RoB (low or high) | 69 | 52.9 (45.2 to 60.6) | -31.7 (-41.4 to -22.0) | < 0.001 |

CONSORT, Consolidated Standards of Reporting Trials; RoB, risk of bias.

Reporting quality and CONSORT requirement in journals

Reporting quality in articles published in journals requiring CONSORT compliance was on average 31% points higher than articles published in journals without a requirement (table 3).

Reporting quality and selection bias

We found a clear difference in the reporting quality of trials of different risk of selection bias (table 3). The average CONSORT reporting quality for low RoB trials was 33% points higher than for high RoB trials, and 40% points higher than for trials with a RoB of some concern (p<0.001). On average trials with a clear RoB (low or high) had a 32% points higher reporting quality than trials with an unclear RoB (some concern) (p<0.001).

Time trend in reporting quality

Articles published before and after 2015 were on average of similar reporting quality (table 3).

DISCUSSION

The average reporting quality in OHS trials was measured as 37.4% (95% CI 31.9% to 43.0%) compliance with the CONSORT checklist items 8–10. Articles published in journals requiring CONSORT compliance reported on average on 31% more checklist items, than those published in journals without a CONSORT requirement (p<0.001). Low RoB studies showed on average the highest reporting quality in articles (61%), which was about twice as much compared with high RoB studies (28%) and three times higher to studies with some concern (21%). Articles of studies with unclear RoB judgements (some concern) reported on average 32% less CONSORT checklist items than articles of studies with a clear RoB (high or low) (p<0.001). We did not find a trend over time in reporting quality.

Our results show an average reporting quality far below 100% compliance with CONSORT for low, some concern and high RoB studies. Results do not reflect how much compliance with CONSORT is necessary to judge the RoB in studies. Reporting quality refers to the CONSORT compliance per article, whereas the RoB is judged per study. In some cases, this meant we combined information from multiple publications to judge the RoB in one trial. Authors of Cochrane systematic reviews are advised to access trial protocols and other unpublished data, 'to clarify incompletely reported information or understand

discrepant information available in different sources', ²² which means considerable effort for reviewers. ²³

We found that more information is needed to judge a low compared with high RoB in trials. A trial can be of high RoB based on one item (allocation was not concealed), whereas for a low RoB judgement, information on both the allocation concealment and random sequence generation are necessary. Missing information requires judgements from baseline differences, which is more complicated. Complete compliance with CONSORT is therewith important to distinguish between low and high RoB in studies, avoid unclear RoB judgements, and save resources in the systematic review process.

The revised CONSORT statement was published in 2010. While we included trials published over a considerably long timespan (2010–2019), we did not find a difference in reporting quality between trials published during 2010–2014 and later years (2015–2019). This shows that compliance with the minimum standard set of items to be reported in trials is very unlikely to improve over time without further action.

Randomisation and allocation concealment in trials is not easy to perform and to describe. Errors can lead to biased estimate of the treatment effect or lower the quality of the evidence. S-7 Central randomisation and allocation procedures are less likely to be compromised compared with local randomisation, for example, with envelopes. For small trials, it is possible to use simple, free of charge on-line tools (eg, app. studyrandomizer.com or sealedenvelope.com). They provide more than a list of random numbers only and might be easier to describe.

Strength and limitations

To our knowledge, this is the first study to review the reporting quality in OHS trials and to assess the link to three possibly related factors: CONSORT requirements of OHS journals, risk of selection bias and year of publication.

Our search is systematic and reproducible although not comprehensive. Searching one database only might have limited the number of search results and excluded trial reports published in OHS journals not indexed in MEDLINE. However, we searched for trials published in 18 different OHS journals and had a sufficiently large sample size to detect at least a 16% mean difference in CONSORT compliance rates between two groups.

We believe our sample from 18 representative OHS journals make our findings reliable and applicable to the OHS field.

A limitation in our work is that we restricted reporting quality and RoB assessment to the randomisation and allocation process. This is because we consider selection bias to be a key issue in OHS, where trials are set in workplaces and are not straight forward to conduct. This was also found as a key issue in other fields.²⁵

During piloting we found that interpretation of the CONSORT checklist and RoB V.2.0 tool varied between assessors and needed considerable discussion before consensus was reached. We made considerable efforts to ensure reliable judgements that can be reproduced by assessing studies in at least duplicate and by developing and applying prespecified criteria to judge the reporting quality and RoB in studies. However, it is possible that another group of researchers could reach different judgements for some trials included in our sample. The CONSORT website (www. consort-statement.org) provides many examples of good and bad trial reporting. We found this a helpful tool to better understand the checklist items, make judgements and reach consensus when necessary. Until now, exemplary guidance on the Cochrane RoB V.2.0 tool is very limited. The interrater reliability of the tool has been previously studied with lower agreement ratings (fair) compared with ours (moderate).²⁶ Authors described similar difficulties for judging RoB from baseline imbalances but did not perform a calibration exercise nor develop additional criteria before applying the tool, which could explain our better rating. Our results show the need for more explicit guidance with practice examples to help reviewers applying the ROB V.2.0 tool.

We compared the reporting quality in journals with and without CONSORT requirement, based on the information provided in the submission guidelines. While the operationalisation of reporting guideline adherence may show a wide variation across journals, we believe journals will show a significant different approach in reviewing submissions compared with journals without instructions to authors to comply with CONSORT.

Comparison with other studies

Previous studies analysed the reporting quality of trials in other medical fields than OHS. ^{11–13} ²⁷ The most comprehensive was a 2012 Cochrane review, ²⁷ including 16 604 articles of RCTs published in general medical journals. Review authors found similar results to ours: reporting quality of trial reports was better in CONSORT endorsing journals, but the average reporting of CONSORT checklist items was found to be insufficient. Our findings reiterate that the reporting quality of trials is still suboptimal. Preferably all journals should require CONSORT compliance, including the OHS field.

While reporting guidelines are not intended to improve trial conduct, our results show that optimally randomised studies are on average better reported. Also, studies with a clear RoB assessment (high or low) were significantly better reported than studies with an unclear assessment (some concern). This shows that better reported trials enable a clear RoB judgement rather than resulting in an RoB assessment of some concern. Few studies have analysed the association between RoB and CONSORT compliance in trial reports. ²⁵ Studies in other medical fields showed similar findings to our study, in that low ROB was associated with better reporting.

CONCLUSION

Reporting quality of randomisation and allocation methods in OHS trials did not improve over the last ten years. Optimally

randomised trials (low RoB) and trials published in CONSORT-requiring journals are on average better reported but very few articles reach full compliance with CONSORT. Poor compliance due to omission of information hinder identification of low and high RoB in studies.

Concerted efforts are needed by journals as well as authors to consistently implement the CONSORT checklist during the planning, writing and reviewing OHS trials. Trial authors and reviewers are advised to consult the CONSORT example database to better understand checklist items. Reporting of the implementation of the random allocation sequence needs improvement: which mechanism were used to implement the sequence, who generated the sequence, who enrolled participants, and who assigned participants to interventions. 9 19 We strongly recommend the use of a central unit for randomisation and allocation of study participants, for example, via online tools. The publication of more extensive study protocols by journals could also support CONSORT compliance already in an earlier stage. Editors and peer-reviewers of OHS journals are advised to require CONSORT compliance and pay attention to adequate reporting of the randomisation and allocation process in trials.

Future studies should focus on how to best disseminate the CONSORT checklist to funders, journals and trial authors. Future research should analyse the inter-rater reliability of the CONSORT checklist and ROB V.2.0 tool to help improve the usage and clarity to users. Online tools to centrally randomise and allocate study participants should be evaluated regarding accessibility and usability to support authors in choosing the best tool to perform and describe randomisation and allocation methods in trials. Future studies should analyse how journals can best operationalise reporting guideline adherence to help editors implement processes that ensure high reporting quality of OHS trials.

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REFERENCES

- 1 Schünemann H, Brożek J, Guyatt G. Grade Handbook for grading quality of evidence and strength of recommendations. The grade Working group, 2013. Available: www. guidelinedevelopment.org/handbook [Accessed 17 May 2019].
- 2 Morgan RL, Thayer KA, Bero L, et al. Grade: assessing the quality of evidence in environmental and occupational health. Environ Int 2016:92-93:611–6.
- 3 Altman DG, Simera I. A history of the evolution of guidelines for reporting medical research: the long road to the EQUATOR network. J R Soc Med 2016;109:67–77.
- 4 Jones DS, Podolsky SH. The history and fate of the gold standard. *Lancet* 2015;385;1502–3
- 5 Wood L, Egger M, Gluud LL, et al. Empirical evidence of bias in treatment effect estimates in controlled trials with different interventions and outcomes: metaepidemiological study. BMJ 2008;336:601–5.
- 6 Ioannidis JPA. Why most published research findings are false. PLoS Med 2005;2:e124
- 7 Jüni P, Altman DG, Egger M. Systematic reviews in health care: assessing the quality of controlled clinical trials. BMJ 2001;323:42–6.
- 8 CONSORT. How CONSORT began. Available: http://www.consort-statement.org/ about-consort/history [Accessed Jun 2020].
- 9 Moher D, Hopewell S, Schulz KF, et al. CONSORT 2010 explanation and elaboration: updated guidelines for reporting parallel group randomised trials. BMJ 2010:340:c869.
- 10 Sterne JAC, Savović J, Page MJ, et al. RoB 2: a revised tool for assessing risk of bias in randomised trials. BMJ 2019;366:14898.
- 11 Plint AC, Moher D, Morrison A, et al. Does the CONSORT checklist improve the quality of reports of randomised controlled trials? A systematic review. Med J Aust 2006;185:263–7.
- 12 Turner L, Shamseer L, Altman DG, et al. Does use of the CONSORT statement impact the completeness of reporting of randomised controlled trials published in medical journals? A cochrane review. Syst Rev 2012;1:60.
- 13 Devereaux PJ, Manns BJ, Ghali WA, et al. The reporting of methodological factors in randomized controlled trials and the association with a Journal policy to promote adherence to the consolidated standards of reporting trials (CONSORT) checklist. Control Clin Trials 2002;23:380–8.

- 14 Song T-J, Leng H-F, Zhong LL, et al. Consort in China: past development and future direction. Trials 2015;16:243.
- 5 Chatzimanouil MKT, Wilkens L, Anders H-J. Quantity and reporting quality of kidney research. J Am Soc Nephrol 2019;30:13–22.
- 16 Jull A, Aye PS. Endorsement of the CONSORT guidelines, trial registration, and the quality of reporting randomised controlled trials in leading nursing journals: a crosssectional analysis. *Int J Nurs Stud* 2015;52:1071–9.
- 17 Devos F, Ibrahim N, Foissac F, et al. Comparison of the quality of pediatric randomized controlled trials published in both nursing and medical journals: adherence to the CONSORT statement. Worldviews Evid Based Nurs 2018:15:447–54.
- 18 Sackett DL, Haynes RB, Guyatt GH. Clinical epidemiology: a basic science for clinical medicine. Boston: Little, Brown, 1991.
- 19 Campbell MK, Piaggio G, Elbourne DR, et al. Consort 2010 statement: extension to cluster randomised trials. BMJ 2012;345:e5661.
- 20 RoB2 Development GroupHiggins JP, Savović J, Page MJ, et al, eds. Revised Cochrane risk-of-bias tool for randomized trials (rob 2), 2019. https://drive.google.com/file/d/ 19R9savfPdCHC8XLz2iiMvL 71IPJERWK/view
- 21 Landis JR, Koch GG. The measurement of observer agreement for categorical data. *Biometrics* 1977:33:159–74.
- 22 Boutron I, Page MJ, Higgins JPT. 7.3.1 Collecting information for assessment of risk of bias. In: Higgins JPT, Thomas J, Chandler J, eds. Cochrane Handbook for systematic reviews of interventions version 6.0 (updated July 2019), 2019. https://training. cochrane.org/handbook
- 23 Li T, Higgins JPT, Deeks JJ. Chapter 5: Collecting data. In: Higgins JPT, Thomas J, Chandler J, et al, eds. Cochrane Handbook for systematic reviews of interventions version 6.0 (updated July 2019), 2019. https://training.cochrane.org/handbook
- 24 Kennedy ADM, Torgerson DJ, Campbell MK, et al. Subversion of allocation concealment in a randomised controlled trial: a historical case study. *Trials* 2017:18:204.
- 25 Ritchie A, Seubert L, Clifford R, et al. Do randomised controlled trials relevant to pharmacy meet best practice standards for quality conduct and reporting? A systematic review. Int J Pharm Pract 2020;28:220–32.
- 26 Minozzi S, Cinquini M, Gianola S. Reliability and applicability of the revised Cochrane 'Risk of bias' tool for randomized trials (RoB 2) [abstract]. In: Abstracts of the 26th Cochrane Colloquium. Santiago, Chile: Cochrane Database of Systematic Reviews, 20201 Suppl 1.
- 27 Turner L, Shamseer L, Altman DG, et al. Consolidated standards of reporting trials (CONSORT) and the completeness of reporting of randomised controlled trials (RCTs) published in medical journals. Cochrane Database Syst Rev 2012;11:Mr000030.
- 28 Riley SP, Swanson B, Brismée J-M, *et al*. A systematic review of orthopaedic manual therapy randomized clinical trials quality. *J Man Manip Ther* 2016;24:241–52.

Supplemental tables (a-e)

Supplemental Table a Search strategy (May 2019)

| PubMed | 28.5.2019 | |
|--------|---|---------|
| Query | Search | results |
| #1 | "AMERICAN JOURNAL OF INDUSTRIAL MEDICINE"[Journal]) OR "ANNALS OF WORK EXPOSURES AND HEALTH"[Journal] OR "ARCHIVES OF ENVIRONMENTAL & OCCUPATIONAL HEALTH"[Journal]) OR "Arh Hig Rada Toksikol"[jour]) OR "INDUSTRIAL HEALTH"[Journal]) OR "INTERNATIONAL ARCHIVES OF OCCUPATIONAL AND ENVIRONMENTAL HEALTH"[Journal] OR "INTERNATIONAL JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL HEALTH"[Journal] OR "INTERNATIONAL JOURNAL OF OCCUPATIONAL MEDICINE AND ENVIRONMENTAL HEALTH"[Journal] OR "JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL HYGIENE"[Journal] OR "JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE"[Journal] OR "JOURNAL OF OCCUPATIONAL HEALTH"[Journal] OR "Journal of occupational medicine and toxicology (London, England)"[Journal] OR "Medycyna pracy"[Journal] OR "Occupational medicine (Oxford, England)"[Journal] OR "Safety and health at work"[Journal] OR "Scandinavian journal of work, environment & health"[Journal] OR "Toxicology and industrial health"[Journal] OR Ann Occup Hyg[Journal] | 44150 |
| #2 | "randomized controlled trial"[Publication Type] | 483168 |
| #3 | ("2010"[Date - Publication] : "3000"[Date - Publication]) | 9817277 |
| #4 | #1 AND #2 AND #3 | 283 |

 $Supplemental\ Table\ b\ Summary\ of\ Consort\ checklist\ items\ regarding\ random is at ion\ and\ allocation\ process$

| Items | Short explanation | Applicable to |
|---|---|----------------|
| sequence generation method (item 8a) | Method used to generate the random allocation sequence | RCTs, cRCTs |
| sequence generation type (item 8b) | Type of randomisation; details of any restriction (such as blocking and block size) | RCTs, cRCTs |
| Extension 8b | Details of stratification or matching if used | Only for cRCTS |
| allocation concealment mechanism (item 9) | Mechanism used to implement the random allocation sequence (such as sequentially numbered containers), describing any steps taken to conceal the sequence until interventions were assigned | RCTs, cRCTs |
| Extension 9 | Specification that allocation was based on clusters rather than individuals and whether allocation concealment (if any) was at the cluster level, the individual participant level or both | Only for cRCTs |
| randomisation implementation (item 10) | Who generated the random allocation sequence, who enrolled participants, and who assigned participants to interventions | Only for RCTs |
| 10a | Who generated the random allocation sequence, who enrolled clusters, and who assigned clusters to interventions | Only for cRCTS |
| 10b | Mechanism by which individual participants were included in clusters for the purposes of the trial (such as complete enumeration, random sampling) | Only for cRCTs |
| 10c | From whom consent was sought (representatives of the cluster, or individual cluster members, or both) and whether consent was sought before or after randomisation | Only for cRCTs |

Supplemental Table c Summary of ROB tool 2.0 guidance document and our additional criteria to judge RoB from baseline differences

| Do baseline differences suggest a problem with the randomization process? | instructions from the Guidance document ¹ | Our extension/ interpretation | Examples |
|---|--|---|--|
| Answer 'No' if | no imbalances are apparent or if any observed imbalances are compatible with chance. (A small number of differences identified as 'statistically significant' at the conventional 0.05 threshold should usually be considered to be compatible with chance.) | enough information available to judge that (im)balance of baseline characteristics fits randomization methods | randomization: cRCT, clusters by manager participants report to, clusters were paired by age and three other factors of participants outcome: health outcome # of participants: same number of randomized study participants and participants with baseline measures (N=116), control group = 57 and intervention group = 59 statistically significant baseline differences: reported for participants not clusters, no significant differences except for one out of 22 variables (>12yrs of education) which was not a variable for pairing, imbalance in key prognostic factors: 1-year age difference between groups, outcome measure similar between groups judgment: observed imbalances and similarity in baseline characteristics |

| | | | compatible with type of randomization, no information for judgement missing |
|--------------------------------------|--|---|--|
| Answer 'Yes' if any of the following | substantial differences between intervention group sizes, compared with the intended allocation ratio: One example is a 1948 trial: Anticoagulants were administered to patients admitted on odd admission dates (n = 589) and conventional therapy to patients admitted on even admission dates (n = 442). Such a large difference in numbers is very unlikely given the expected 1:1 allocation ratio(P =0.001), raising suspicion that investigators manipulated the allocation so that more patients were admitted on odd dates so that they would receive the new anti-coagulant | no extension | If group size differences can be explained with clusters this cannot be answered with Yes, e.g. as seen in [23] group size differences (I=266 C = 255) due to clusters randomized (I=2, C=2) |
| | a substantial excess in statistically significant differences in baseline characteristics between intervention groups, beyond that expected by chance | see below | |
| | imbalance in one or more key prognostic factors, or baseline measures of outcome variables, that is very unlikely to be due to chance and for which the between-group difference is big enough | - for health outcomes: if baseline outcome and/or age differ statistically significant AND the difference is clinically relevant | |

| | randomization with less than 200 participants (because any difference can be expected with simple randomization) | |
|--|--|--|
| excessive similarity in baseline characteristics that is not compatible with chance | groups are deemed too similar if: groups show no differences in important prognostic factors (e.g. outcome measure and age) without using mechanisms for achieving balance (e.g. minimization or stratification) | fictional example of very similar baseline in two groups would be: 49.64 (13.65) and 49.63 (12.23) if it's not down to the decimals we would not deem it too similar, e.g. as seen in [24] age [mean (SD)] 49.64 (13.65) and 50.21 (12.23) |
| there is no useful baseline information available (e.g. abstracts, or studies that reported only baseline characteristics of participants in the final analysis) | baseline measurement of important prognostic factor e.g. outcome measure missing, OR no statistics have been provided | [24] baseline characteristics not reported for all participants that were randomized, also: statistical significance not tested, type of randomization not reported [23] cRCT: type of |
| btl w | here is no useful paseline information vailable (e.g. abstracts, or studies that reported participants in the final | (because any difference can be expected with simple randomization) excessive similarity in passeline characteristics that is not compatible with chance groups are deemed too similar if: groups show no differences in important prognostic factors (e.g. outcome measure and age) without using mechanisms for achieving balance (e.g. minimization or stratification) there is no useful passeline information example information example information to a statistic so for activity and the statistic of the statistics have been to similar if: groups are deemed too similar if: groups show no differences in important prognostic factors (e.g. outcome measure and age) without using mechanisms for achieving balance (e.g. minimization or stratification) baseline measurement of important prognostic factor e.g. outcome measure missing, on the statistic passeline information in the final malysis) or the statistic prognostic factors (e.g. outcome measure measurement of important prognostic factor e.g. outcome measure missing, on the statistic passeline information in the final factor e.g. outcome measure measurement of important prognostic factor e.g. outcome measure missing, on the statistic passeline information in the final factor e.g. outcome measure missing, on the statistic passeline information in the final factor e.g. outcome measure missing, on the statistic passeline information in the final factor e.g. outcome measure missing, on the statistic passeline information in the final factor e.g. outcome measure measurement of important prognostic factors (e.g. outcome measurement of important prognostic factor e.g. outcome measurement of important prognostic factor e. |

statistical tests not reported

imbalance in key prognostic factors: 4 years age difference, relevant differences between groups in outcome measure (1:2 ratio of monthly working hours lost due to sick leave), information missing to judge if imbalance is due to randomization

[25]: imbalance in key prognostic factors: no statistically significant or clinical relevant differences for age and three other factors, but outcome measure at baseline not reported

¹ RoB2 Development Group. Revised Cochrane risk-of-bias tool for randomized trials (RoB 2). In: Higgins JP, Savović J, Page MJ, Sterne JAC (eds.) 2019. https://drive.google.com/file/d/19R9savfPdCHC8XLz2iiMvL_71lPJERWK/view (07. September 2020)

Supplemental Table d List of included articles (N=135)

| Article | |
|---------|---|
| ID | Citation |
| | Ahola K, Vuori J, Toppinen-Tanner S, Mutanen P, Honkonen T. Resource-enhancing group |
| | intervention against depression at workplace: who benefits? A randomised controlled |
| | study with a 7-month follow-up. Occupational and environmental medicine. |
| 1 | 2012;69(12):870-6. |
| | Aikens KA, Astin J, Pelletier KR, Levanovich K, Baase CM, Park YY, et al. Mindfulness goes to |
| | work: impact of an online workplace intervention. Journal of occupational and |
| 2 | environmental medicine. 2014;56(7):721-31. |
| | Allexandre D, Bernstein AM, Walker E, Hunter J, Roizen MF, Morledge TJ. A Web-Based |
| | Mindfulness Stress Management Program in a Corporate Call Center: A Randomized |
| | Clinical Trial to Evaluate the Added Benefit of Onsite Group Support. Journal of |
| 3 | occupational and environmental medicine. 2016;58(3):254-64. |
| | Arbogast JW, Moore-Schiltz L, Jarvis WR, Harpster-Hagen A, Hughes J, Parker A. Impact of |
| | a Comprehensive Workplace Hand Hygiene Program on Employer Health Care Insurance |
| | Claims and Costs, Absenteeism, and Employee Perceptions and Practices. Journal of |
| 4 | occupational and environmental medicine. 2016;58(6):e231-40. |
| | Arends I, van der Klink JJ, van Rhenen W, de Boer MR, Bultmann U. Prevention of |
| | recurrent sickness absence in workers with common mental disorders: results of a cluster- |
| 5 | randomised controlled trial. Occupational and environmental medicine. 2014;71(1):21-9. |
| | Arnetz JE, Hamblin L, Russell J, Upfal MJ, Luborsky M, Janisse J, et al. Preventing Patient- |
| | to-Worker Violence in Hospitals: Outcome of a Randomized Controlled Intervention. |
| 6 | Journal of occupational and environmental medicine. 2017;59(1):18-27. |
| | Baatjies R, Meijster T, Heederik D, Sander I, Jeebhay MF. Effectiveness of interventions to |
| | reduce flour dust exposures in supermarket bakeries in South Africa. Occupational and |
| 7 | environmental medicine. 2014;71(12):811-8. |
| | Baydur H, Ergor A, Demiral Y, Akalin E. Effects of participatory ergonomic intervention on |
| | the development of upper extremity musculoskeletal disorders and disability in office |
| 8 | employees using a computer. Journal of occupational health. 2016;58(3):297-309. |
| | Becker A, Angerer P, Muller A. The prevention of musculoskeletal complaints: a |
| | randomized controlled trial on additional effects of a work-related psychosocial coaching |
| | intervention compared to physiotherapy alone. International archives of occupational and |
| 9 | environmental health. 2017;90(4):357-71. |
| | Bennett JB, Broome KM, Schwab-Pilley A, Gilmore P. A web-based approach to address |
| | cardiovascular risks in managers: results of a randomized trial. Journal of occupational and |
| 10 | environmental medicine. 2011;53(8):911-8. |
| | Beresford SA, Bishop SK, Brunner NL, Duncan GE, McGregor BA, McLerran DF, et al. |
| | Environmental assessment at worksites after a multilevel intervention to promote activity |
| 4.4 | and changes in eating: the PACE project. Journal of occupational and environmental |
| 11 | , 11 |
| | Bian Y, Xiong H, Zhang L, Tang T, Liu Z, Xu R, et al. Change in coping strategies following |
| 42 | intensive intervention for special-service military personnel as civil emergency responders. |
| 12 | Journal of occupational health. 2011;53(1):36-44. |
| | Bostock S, Luik AI, Espie CA. Sleep and Productivity Benefits of Digital Cognitive Behavioral |
| 4.4 | Therapy for Insomnia: A Randomized Controlled Trial Conducted in the Workplace |
| 14 | |
| | Bovo R, Trevisi P, Emanuelli E, Martini A. Voice amplification for primary school teachers |
| 4.5 | with voice disorders: a randomized clinical trial. International journal of occupational |
| 15 | medicine and environmental health. 2013;26(3):363-72. |

| | Brown DK, Barton JL, Pretty J, Gladwell VF. Walks4Work: assessing the role of the natural |
|----|--|
| | environment in a workplace physical activity intervention. Scandinavian journal of work, |
| 16 | environment & health. 2014;40(4):390-9. |
| | Carvalho Mesquita C, Ribeiro JC, Moreira P. Effect of a specific exercise program on the |
| | strength and resistance levels of lumbar muscles in warehouse workers. International |
| 17 | journal of occupational medicine and environmental health. 2012;25(1):80-8. |
| | Chaleat-Valayer E, Denis A, Abelin-Genevois K, Zelmar A, Siani-Trebern F, Touzet S, et al. |
| | Long-term effectiveness of an educational and physical intervention for preventing low- |
| | back pain recurrence: a randomized controlled trial. Scandinavian journal of work, |
| 18 | |
| | Chopp-Hurley JN, Brenneman EC, Wiebenga EG, Bulbrook B, Keir PJ, Maly MR. Randomized |
| | Controlled Trial Investigating the Role of Exercise in the Workplace to Improve Work |
| | Ability, Performance, and Patient-Reported Symptoms Among Older Workers With |
| 19 | |
| | Christensen JR, Overgaard K, Hansen K, Sogaard K, Holtermann A. Effects on presenteeism |
| | and absenteeism from a 1-year workplace randomized controlled trial among health care |
| 20 | |
| | Coffeng JK, Hendriksen IJ, Duijts SF, Twisk JW, van Mechelen W, Boot CR. Effectiveness of a |
| | combined social and physical environmental intervention on presenteeism, absenteeism, |
| | work performance, and work engagement in office employees. Journal of occupational |
| 21 | |
| | Comper MLC, Dennerlein JT, Evangelista GDS, Rodrigues da Silva P, Padula RS. |
| | Effectiveness of job rotation for preventing work-related musculoskeletal diseases: a |
| | cluster randomised controlled trial. Occupational and environmental medicine. |
| 22 | |
| | de Vries JD, van Hooff ML, Guerts SA, Kompier MA. Exercise to reduce work-related |
| | fatigue among employees: a randomized controlled trial. Scandinavian journal of work, |
| 26 | environment & health. 2017;43(4):337-49. |
| | Deitz D, Cook RF, Hersch RK, Leaf S. Heart healthy online: an innovative approach to risk |
| | reduction in the workplace. Journal of occupational and environmental medicine. |
| 27 | 2014;56(5):547-53. |
| | Dellve L, Ahlstrom L, Jonsson A, Sandsjo L, Forsman M, Lindegard A, et al. Myofeedback |
| | training and intensive muscular strength training to decrease pain and improve work |
| | ability among female workers on long-term sick leave with neck pain: a randomized |
| | controlled trial. International archives of occupational and environmental health. |
| 28 | 2011;84(3):335-46. |
| | Doda D, Rothmore P, Pisaniello D, Briggs N, Stewart S, Mahmood M, et al. Relative benefit |
| | of a stage of change approach for the prevention of musculoskeletal pain and discomfort: |
| 29 | a cluster randomised trial. Occupational and environmental medicine. 2015;72(11):784-91. |
| | Driessen MT, Proper KI, Anema JR, Knol DL, Bongers PM, van der Beek AJ. The |
| | effectiveness of participatory ergonomics to prevent low-back and neck painresults of a |
| | cluster randomized controlled trial. Scandinavian journal of work, environment & health. |
| 31 | 2011;37(5):383-93. |
| | Dropkin J, Kim H, Punnett L, Wegman DH, Warren N, Buchholz B. Effect of an office |
| | ergonomic randomised controlled trial among workers with neck and upper extremity |
| 32 | , , , |
| | Ebert DD, Heber E, Berking M, Riper H, Cuijpers P, Funk B, et al. Self-guided internet-based |
| | and mobile-based stress management for employees: results of a randomised controlled |
| 35 | trial. Occupational and environmental medicine. 2016;73(5):315-23. |
| | |

| | Ebert DD, Lehr D, Boss L, Riper H, Cuijpers P, Andersson G, et al. Efficacy of an internet- |
|----|--|
| | based problem-solving training for teachers: results of a randomized controlled trial. |
| 36 | Scandinavian journal of work, environment & health. 2014;40(6):582-96. |
| | Ebert DD, Lehr D, Heber E, Riper H, Cuijpers P, Berking M. Internet- and mobile-based |
| | stress management for employees with adherence-focused guidance: efficacy and |
| | mechanism of change. Scandinavian journal of work, environment & health. |
| 37 | |
| | Eguchi M, Ohta M, Yamato H. The effects of single long and accumulated short bouts of |
| | exercise on cardiovascular risks in male Japanese workers: a randomized controlled study. |
| 38 | |
| | Erman MK, Seiden DJ, Yang R, Dammerman R. Efficacy and tolerability of armodafinil: |
| | effect on clinical condition late in the shift and overall functioning of patients with |
| | excessive sleepiness associated with shift work disorder. Journal of occupational and |
| 39 | |
| | Esmaeilzadeh S, Ozcan E, Capan N. Effects of ergonomic intervention on work-related |
| | upper extremity musculoskeletal disorders among computer workers: a randomized |
| | controlled trial. International archives of occupational and environmental health. |
| 40 | 2014;87(1):73-83. |
| | Faghri PD, Simon J, Huedo-Medina T, Gorin A. Perceived Self-Efficacy and Financial |
| | Incentives: Factors Affecting Health Behaviors and Weight Loss in a Workplace Weight |
| | Loss Intervention. Journal of occupational and environmental medicine. 2017;59(5):453- |
| 41 | 60. |
| | Fisker MH, Ebbehoj NE, Vejlstrup SG, Lindschou J, Gluud C, Winkel P, et al. Prevention of |
| | hand eczema: effect of an educational program versus treatment as usual - results of the |
| | randomized clinical PREVEX trial. Scandinavian journal of work, environment & health. |
| 42 | 2018;44(2):212-8. |
| | Framke E, Sorensen OH, Pedersen J, Rugulies R. Effect of a participatory organizational- |
| | level occupational health intervention on short-term sickness absence: a cluster |
| | randomized controlled trial. Scandinavian journal of work, environment & health. |
| 44 | 2016;42(3):192-200. |
| | Gartner FR, Nieuwenhuijsen K, Ketelaar SM, van Dijk FJ, Sluiter JK. The mental vitality @ |
| | work study: effectiveness of a mental module for workers' health surveillance for nurses |
| | and allied health care professionals on their help-seeking behavior. Journal of occupational |
| 45 | and environmental medicine. 2013;55(10):1219-29. |
| | Genin PM, Degoutte F, Finaud J, Pereira B, Thivel D, Duclos M. Effect of a 5-Month |
| | Worksite Physical Activity Program on Tertiary Employees Overall Health and Fitness. |
| 46 | Journal of occupational and environmental medicine. 2017;59(2):e3-e10. |
| | Glass N, Hanson GC, Anger WK, Laharnar N, Campbell JC, Weinstein M, et al. Computer- |
| | based training (CBT) intervention reduces workplace violence and harassment for |
| 47 | homecare workers. American journal of industrial medicine. 2017;60(7):635-43. |
| | Glass N, Hanson GC, Laharnar N, Anger WK, Perrin N. Interactive training improves |
| | workplace climate, knowledge, and support towards domestic violence. American journal |
| 48 | of industrial medicine. 2016;59(7):538-48. |
| | Glasscock DJ, Carstensen O, Dalgaard VL. Recovery from work-related stress: a randomized |
| | controlled trial of a stress management intervention in a clinical sample. International |
| 49 | archives of occupational and environmental health. 2018;91(6):675-87. |
| _ | Gram B, Holtermann A, Bultmann U, Sjogaard G, Sogaard K. Does an exercise intervention |
| | improving aerobic capacity among construction workers also improve musculoskeletal |
| | pain, work ability, productivity, perceived physical exertion, and sick leave?: a randomized |
| 50 | controlled trial. Journal of occupational and environmental medicine. 2012;54(12):1520-6. |
| | |

| | Gupta N, Wahlin-Jacobsen CD, Abildgaard JS, Henriksen LN, Nielsen K, Holtermann A. |
|----|---|
| | Effectiveness of a participatory physical and psychosocial intervention to balance the |
| | demands and resources of industrial workers: A cluster-randomized controlled trial. |
| 53 | Scandinavian journal of work, environment & health. 2018;44(1):58-68. |
| | Hagiwara Y, Yabe Y, Yamada H, Watanabe T, Kanazawa K, Koide M, et al. Effects of a |
| | wearable type lumbosacral support for low back pain among hospital workers: A |
| 54 | randomized controlled trial. Journal of occupational health. 2017;59(2):201-9. |
| | Harber P, Boumis RJ, Su J, Barrett S, Alongi G. Comparison of three respirator user training |
| 55 | methods. Journal of occupational and environmental medicine. 2013;55(12):1484-8. |
| | Hartfiel N, Burton C, Rycroft-Malone J, Clarke G, Havenhand J, Khalsa SB, et al. Yoga for |
| | reducing perceived stress and back pain at work. Occupational medicine (Oxford, England). |
| 56 | , , , , |
| | Hartfiel N, Havenhand J, Khalsa SB, Clarke G, Krayer A. The effectiveness of yoga for the |
| | improvement of well-being and resilience to stress in the workplace. Scandinavian journal |
| 57 | of work, environment & health. 2011;37(1):70-6. |
| | Hees HL, de Vries G, Koeter MW, Schene AH. Adjuvant occupational therapy improves |
| | long-term depression recovery and return-to-work in good health in sick-listed employees |
| Ε0 | with major depression: results of a randomised controlled trial. Occupational and |
| 59 | environmental medicine. 2013;70(4):252-60. |
| | Hellstrom L, Bech P, Hjorthoj C, Nordentoft M, Lindschou J, Eplov LF. Effect on return to work or education of Individual Placement and Support modified for people with mood |
| | and anxiety disorders: results of a randomised clinical trial. Occupational and |
| 60 | environmental medicine. 2017;74(10):717-25. |
| | Hogg-Johnson S, Robson L, Cole DC, Amick BC, 3rd, Tompa E, Smith PM, et al. A |
| | randomised controlled study to evaluate the effectiveness of targeted occupational health |
| | and safety consultation or inspection in Ontario manufacturing workplaces. Occupational |
| 61 | |
| | Hong O, Chin DL, Fiola LA, Kazanis AS. The effect of a booster intervention to promote |
| | hearing protection behavior in operating engineers. American journal of industrial |
| 62 | medicine. 2013;56(2):258-66. |
| | Hutting N, Staal JB, Engels JA, Heerkens YF, Detaille SI, Nijhuis-van der Sanden MW. Effect |
| | evaluation of a self-management programme for employees with complaints of the arm, |
| | neck or shoulder: a randomised controlled trial. Occupational and environmental |
| 64 | , , , |
| | Jakobsen MD, Sundstrup E, Brandt M, Jay K, Aagaard P, Andersen LL. Effect of workplace- |
| | versus home-based physical exercise on musculoskeletal pain among healthcare workers: |
| CC | a cluster randomized controlled trial. Scandinavian journal of work, environment & health. |
| 66 | 2015;41(2):153-63. Jay K, Frisch D, Hansen K, Zebis MK, Andersen CH, Mortensen OS, et al. Kettlebell training |
| | for musculoskeletal and cardiovascular health: a randomized controlled trial. Scandinavian |
| 67 | journal of work, environment & health. 2011;37(3):196-203. |
| | Jensen LD, Maribo T, Schiottz-Christensen B, Madsen FH, Gonge B, Christensen M, et al. |
| | Counselling low-back-pain patients in secondary healthcare: a randomised trial addressing |
| | experienced workplace barriers and physical activity. Occupational and environmental |
| 68 | medicine. 2012;69(1):21-8. |
| | Justesen JB, Sogaard K, Dalager T, Christensen JR, Sjogaard G. The Effect of Intelligent |
| | Physical Exercise Training on Sickness Presenteeism and Absenteeism Among Office |
| 69 | Workers. Journal of occupational and environmental medicine. 2017;59(10):942-8. |
| | Kajiki S, Izumi H, Hayashida K, Kusumoto A, Nagata T, Mori K. A randomized controlled trial |
| | of the effect of participatory ergonomic low back pain training on workplace |
| 70 | improvement. Journal of occupational health. 2017;59(3):256-66. |
| | |

| | Kaku A, Nishinoue N, Takano T, Eto R, Kato N, Ono Y, et al. Randomized controlled trial on |
|------|--|
| | the effects of a combined sleep hygiene education and behavioral approach program on |
| 71 | sleep quality in workers with insomnia. Industrial health. 2012;50(1):52-9. |
| | Kasperczyk S, Dobrakowski M, Kasperczyk A, Romuk E, Rykaczewska-Czerwinska M, Pawlas |
| | N, et al. Effect of N-acetylcysteine administration on homocysteine level, oxidative |
| | damage to proteins, and levels of iron (Fe) and Fe-related proteins in lead-exposed |
| 72 | workers. Toxicology and industrial health. 2016;32(9):1607-18. |
| | Kasperczyk S, Dobrakowski M, Kasperczyk J, Romuk E, Prokopowicz A, Birkner E. The |
| | influence of beta-carotene on homocysteine level and oxidative stress in lead-exposed |
| 73 | workers. Medycyna pracy. 2014;65(3):309-16. |
| | Kawashima M, Sano K, Takechi S, Tsubota K. Impact of lifestyle intervention on dry eye |
| | disease in office workers: a randomized controlled trial. Journal of occupational health. |
| 74 | , , , |
| | Ketelaar SM, Nieuwenhuijsen K, Gartner FR, Bolier L, Smeets O, Sluiter JK. Mental Vitality |
| | @ Work: The effectiveness of a mental module for workers' health surveillance for nurses |
| | and allied health professionals, comparing two approaches in a cluster-randomised |
| | controlled trial. International archives of occupational and environmental health. |
| 75 | 2014;87(5):527-38. |
| | Kimura R, Mori M, Tajima M, Somemura H, Sasaki N, Yamamoto M, et al. Effect of a brief |
| | training program based on cognitive behavioral therapy in improving work performance: A |
| 77 | randomized controlled trial. Journal of occupational health. 2015;57(2):169-78. |
| | Korshoj M, Lidegaard M, Skotte JH, Krustrup P, Krause N, Sogaard K, et al. Does aerobic |
| | exercise improve or impair cardiorespiratory fitness and health among cleaners? A cluster |
| | randomized controlled trial. Scandinavian journal of work, environment & health. |
| 78 | 2015;41(2):140-52. |
| | Korshoj M, Ravn MH, Holtermann A, Hansen AM, Krustrup P. Aerobic exercise reduces |
| | biomarkers related to cardiovascular risk among cleaners: effects of a worksite |
| | intervention RCT. International archives of occupational and environmental health. |
| 79 | 2016;89(2):239-49. |
| | Kouwenhoven-Pasmooij TA, Robroek SJ, Nieboer D, Helmhout PH, Wery MF, Hunink M, et |
| | al. Quality of motivational interviewing matters: the effect on participation in health- |
| | promotion activities in a cluster randomized controlled trial. Scandinavian journal of work, |
| 80 | environment & health. 2018;44(4):414-22. |
| | Kramer MK, Molenaar DM, Arena VC, Venditti EM, Meehan RJ, Miller RG, et al. Improving |
| | employee health: evaluation of a worksite lifestyle change program to decrease risk |
| 0.4 | factors for diabetes and cardiovascular disease. Journal of occupational and environmental |
| 81 | medicine. 2015;57(3):284-91. |
| | Lammerts L, Schaafsma FG, Bonefaas-Groenewoud K, van Mechelen W, Anema J. |
| | Effectiveness of a return-to-work program for workers without an employment contract, |
| 02 | sick-listed due to common mental disorders. Scandinavian journal of work, environment & |
| 82 | health. 2016;42(6):469-80. Lenderink AF, Spreeuwers D, van der Klink JJ, van Dijk FJ. Information and feedback to |
| | improve occupational physicians' reporting of occupational diseases: a randomised |
| | controlled trial. International archives of occupational and environmental health. |
| 84 | |
| - 04 | Lerner D, Adler D, Hermann RC, Chang H, Ludman EJ, Greenhill A, et al. Impact of a work- |
| | focused intervention on the productivity and symptoms of employees with depression. |
| QC | Journal of occupational and environmental medicine. 2012;54(2):128-35. |
| | Lexis MA, Jansen NW, Huibers MJ, van Amelsvoort LG, Berkouwer A, Tjin ATG, et al. |
| | Prevention of long-term sickness absence and major depression in high-risk employees: a |
| 26 | randomised controlled trial. Occupational and environmental medicine. 2011;68(6):400-7. |
| 50 | 1. and annual controlled than occupational and environmental medicine. 2011,00(0).400-7. |

| | Li X, Lin C, Liu C, Ke S, Wan Q, Luo H, et al. Comparison of the effectiveness of resistance |
|-----|--|
| | training in women with chronic computer-related neck pain: a randomized controlled |
| | study. International archives of occupational and environmental health. 2017;90(7):673- |
| 87 | 83. |
| | Lidegaard M, Sogaard K, Krustrup P, Holtermann A, Korshoj M. Effects of 12 months |
| | aerobic exercise intervention on work ability, need for recovery, productivity and rating of |
| | exertion among cleaners: a worksite RCT. International archives of occupational and |
| 88 | environmental health. 2018;91(2):225-35. |
| | Limm H, Gundel H, Heinmuller M, Marten-Mittag B, Nater UM, Siegrist J, et al. Stress |
| | management interventions in the workplace improve stress reactivity: a randomised |
| 89 | controlled trial. Occupational and environmental medicine. 2011;68(2):126-33. |
| | Mainsbridge CP, Cooley PD, Fraser SP, Pedersen SJ. The effect of an e-health intervention |
| | designed to reduce prolonged occupational sitting on mean arterial pressure. Journal of |
| 91 | occupational and environmental medicine. 2014;56(11):1189-94. |
| | Martimo KP, Shiri R, Miranda H, Ketola R, Varonen H, Viikari-Juntura E. Effectiveness of an |
| | ergonomic intervention on the productivity of workers with upper-extremity disordersa |
| | randomized controlled trial. Scandinavian journal of work, environment & health. |
| 92 | 2010;36(1):25-33. |
| | Matsugaki R, Kuhara S, Saeki S, Jiang Y, Michishita R, Ohta M, et al. Effectiveness of |
| | workplace exercise supervised by a physical therapist among nurses conducting shift work: |
| 93 | A randomized controlled trial. Journal of occupational health. 2017;59(4):327-35. |
| | McCauley L, Runkle JD, Samples J, Williams B, Muniz JF, Semple M, et al. Oregon |
| | indigenous farmworkers: results of promotor intervention on pesticide knowledge and |
| | organophosphate metabolite levels. Journal of occupational and environmental medicine. |
| 94 | 2013;55(10):1164-70. |
| | Melton L, Anfield R, Kane G, White N, Young J, Dunnington K. Reducing the incidence of |
| | short-term disability: testing the effectiveness of an absence prediction and prevention |
| | intervention using an experimental design. Journal of occupational and environmental |
| 95 | medicine. 2012;54(12):1441-6. |
| | Michishita R, Jiang Y, Ariyoshi D, Yoshida M, Moriyama H, Yamato H. The practice of active |
| 0.7 | rest by workplace units improves personal relationships, mental health, and physical |
| 97 | activity among workers. Journal of occupational health. 2017;59(2):122-30. |
| | Morgan PJ, Collins CE, Plotnikoff RC, Cook AT, Berthon B, Mitchell S, et al. The impact of a |
| | workplace-based weight loss program on work-related outcomes in overweight male shift |
| 98 | workers. Journal of occupational and environmental medicine. 2012;54(2):122-7. |
| | Muschalla B. Negative work perception not changed in a short work-anxiety-coping group |
| 400 | therapy intervention. International journal of occupational and environmental health. |
| 100 | 2016;22(4):321-4. |
| | Nakamura S, Somemura H, Sasaki N, Yamamoto M, Tanaka M, Tanaka K. Effect of |
| 101 | management training in organizational justice: a randomized controlled trial. Industrial |
| | health. 2016;54(3):263-71. |
| | Nanri A, Tomita K, Matsushita Y, Ichikawa F, Yamamoto M, Nagafuchi Y, et al. Effect of six months lifestyle intervention in Japanese men with metabolic syndrome: randomized |
| 102 | controlled trial. Journal of occupational health. 2012;54(3):215-22. |
| 102 | Nishinoue N, Takano T, Kaku A, Eto R, Kato N, Ono Y, et al. Effects of sleep hygiene |
| | education and behavioral therapy on sleep quality of white-collar workers: a randomized |
| 103 | controlled trial. Industrial health. 2012;50(2):123-31. |
| | Noordik E, van der Klink JJ, Geskus RB, de Boer MR, van Dijk FJ, Nieuwenhuijsen K. |
| | Effectiveness of an exposure-based return-to-work program for workers on sick leave due |
| | to common mental disorders: a cluster-randomized controlled trial. Scandinavian journal |
| 104 | of work, environment & health. 2013;39(2):144-54. |
| 104 | 5. 1151.1, Change in Canal 2013,03(2).177 57. |

| | Ognibene GT, Torres W, von Eyben R, Horst KC. Impact of a Sit-Stand Workstation on |
|-----|---|
| | Chronic Low Back Pain: Results of a Randomized Trial. Journal of occupational and |
| 105 | environmental medicine. 2016;58(3):287-93. |
| | Ostbye T, Stroo M, Brouwer RJ, Peterson BL, Eisenstein EL, Fuemmeler BF, et al. Steps to |
| | Health employee weight management randomized control trial: short-term follow-up |
| 106 | results. Journal of occupational and environmental medicine. 2015;57(2):188-95. |
| | Oude Hengel KM, Blatter BM, van der Molen HF, Bongers PM, van der Beek AJ. The |
| | effectiveness of a construction worksite prevention program on work ability, health, and |
| | sick leave: results from a cluster randomized controlled trial. Scandinavian journal of work, |
| 107 | environment & health. 2013;39(5):456-67. |
| | Ozaki I, Watai I, Nishijima M, Saito N. Randomized controlled trial of Web-based weight- |
| | loss intervention with human support for male workers under 40. Journal of occupational |
| 108 | health. 2019;61(1):110-20. |
| | Patterson PD, Buysse DJ, Weaver MD, Doman JM, Moore CG, Suffoletto BP, et al. Real- |
| | time fatigue reduction in emergency care clinicians: The SleepTrackTXT randomized trial. |
| 109 | American journal of industrial medicine. 2015;58(10):1098-113. |
| | Poulsen OM, Aust B, Bjorner JB, Rugulies R, Hansen JV, Tverborgvik T, et al. Effect of the |
| | Danish return-to-work program on long-term sickness absence: results from a randomized |
| 440 | controlled trial in three municipalities. Scandinavian journal of work, environment & |
| 110 | health. 2014;40(1):47-56. |
| | Puhkala J, Kukkonen-Harjula K, Mansikkamaki K, Aittasalo M, Hublin C, Karmeniemi P, et |
| | al. Lifestyle counseling to reduce body weight and cardiometabolic risk factors among |
| 111 | truck and bus driversa randomized controlled trial. Scandinavian journal of work, environment & health. 2015;41(1):54-64. |
| | Quach T, Von Behren J, Tsoh J, Reynolds P, Fu L, Nguyen T, et al. Improving the knowledge |
| | and behavior of workplace chemical exposures in Vietnamese-American nail salon |
| | workers: a randomized controlled trial. International archives of occupational and |
| 112 | environmental health. 2018;91(8):1041-50. |
| | Rantonen J, Luoto S, Vehtari A, Hupli M, Karppinen J, Malmivaara A, et al. The |
| | effectiveness of two active interventions compared to self-care advice in employees with |
| | non-acute low back symptoms: a randomised, controlled trial with a 4-year follow-up in |
| | the occupational health setting. Occupational and environmental medicine. 2012;69(1):12- |
| 113 | 20. |
| | Rantonen J, Vehtari A, Karppinen J, Luoto S, Viikari-Juntura E, Hupli M, et al. Face-to-face |
| | information combined with a booklet versus a booklet alone for treatment of mild low- |
| | back pain: a randomized controlled trial. Scandinavian journal of work, environment & |
| 114 | health. 2014;40(2):156-66. |
| | Rasotto C, Bergamin M, Sieverdes JC, Gobbo S, Alberton CL, Neunhaeuserer D, et al. A |
| | tailored workplace exercise program for women at risk for neck and upper limb |
| | musculoskeletal disorders: a randomized controlled trial. Journal of occupational and |
| 115 | environmental medicine. 2015;57(2):178-83. |
| | Reme SE, Grasdal AL, Lovvik C, Lie SA, Overland S. Work-focused cognitive-behavioural |
| | therapy and individual job support to increase work participation in common mental |
| 110 | disorders: a randomised controlled multicentre trial. Occupational and environmental |
| 116 | medicine. 2015;72(10):745-52. |
| | Salomonsson S, Santoft F, Lindsater E, Ejeby K, Ljotsson B, Ost LG, et al. Cognitive- |
| | behavioural therapy and return-to-work intervention for patients on sick leave due to |
| 118 | common mental disorders: a randomised controlled trial. Occupational and environmental medicine. 2017;74(12):905-12. |
| 110 | Sanaeinasab H, Saffari M, Valipour F, Alipour HR, Sepandi M, Al Zaben F, et al. The |
| 110 | effectiveness of a model-based health education intervention to improve ergonomic |
| 113 | encourteness of a model based nearth cadeadon intervention to improve eigenomic |

| | posture in office computer workers: a randomized controlled trial. International archives of occupational and environmental health. 2018;91(8):951-62. |
|-----|--|
| | Sasaki N, Somemura H, Nakamura S, Yamamoto M, Isojima M, Shinmei I, et al. Effects of |
| | Brief Communication Skills Training for Workers Based on the Principles of Cognitive |
| | Behavioral Therapy: A Randomized Controlled Trial. Journal of occupational and |
| 120 | environmental medicine. 2017;59(1):61-6. |
| | Schiller H, Soderstrom M, Lekander M, Rajaleid K, Kecklund G. A randomized controlled |
| 422 | intervention of workplace-based group cognitive behavioral therapy for insomnia. |
| 122 | International archives of occupational and environmental health. 2018;91(4):413-24. |
| | Schuna JM, Jr., Swift DL, Hendrick CA, Duet MT, Johnson WD, Martin CK, et al. Evaluation of a workplace treadmill desk intervention: a randomized controlled trial. Journal of |
| 123 | occupational and environmental medicine. 2014;56(12):1266-76. |
| | Sforzo GA, Kaye MP, Calleri D, Ngai N. Free choice access to multipoint wellness education |
| | and related services positively impacts employee wellness: a randomized and controlled |
| 124 | trial. Journal of occupational and environmental medicine. 2012;54(4):471-7. |
| | Sihawong R, Janwantanakul P, Jiamjarasrangsi W. Effects of an exercise programme on |
| | preventing neck pain among office workers: a 12-month cluster-randomised controlled |
| 127 | trial. Occupational and environmental medicine. 2014;71(1):63-70. |
| | Sletten TL, Ftouni S, Nicholas CL, Magee M, Grunstein RR, Ferguson S, et al. Randomised |
| | controlled trial of the efficacy of a blue-enriched light intervention to improve alertness |
| | and performance in night shift workers. Occupational and environmental medicine. |
| 128 | 2017;74(11):792-801. |
| | Smits PB, de Graaf L, Radon K, de Boer AG, Bos NR, van Dijk FJ, et al. Case-based e-learning |
| 129 | to improve the attitude of medical students towards occupational health, a randomised controlled trial. Occupational and environmental medicine. 2012;69(4):280-3. |
| 123 | Sparer EH, Catalano PJ, Herrick RF, Dennerlein JT. Improving safety climate through a |
| | communication and recognition program for construction: a mixed methods study. |
| 130 | Scandinavian journal of work, environment & health. 2016;42(4):329-37. |
| | Steinberg G, Scott A, Honcz J, Spettell C, Pradhan S. Reducing Metabolic Syndrome Risk |
| | Using a Personalized Wellness Program. Journal of occupational and environmental |
| 131 | medicine. 2015;57(12):1269-74. |
| | Strijk JE, Proper KI, van Mechelen W, van der Beek AJ. Effectiveness of a worksite lifestyle |
| | intervention on vitality, work engagement, productivity, and sick leave: results of a |
| 400 | randomized controlled trial. Scandinavian journal of work, environment & health. |
| 132 | 2013;39(1):66-75. |
| | Sundstrup E, Jakobsen MD, Brandt M, Jay K, Persson R, Aagaard P, et al. Workplace strength training prevents deterioration of work ability among workers with chronic pain |
| | and work disability: a randomized controlled trial. Scandinavian journal of work, |
| 133 | environment & health. 2014;40(3):244-51. |
| | Svensson AL, Marott JL, Suadicani P, Mortensen OS, Ebbehoj NE. Sickness absence in |
| | student nursing assistants following a preventive intervention programme. Occupational |
| 134 | medicine (Oxford, England). 2011;61(1):57-61. |
| | Thiart H, Lehr D, Ebert DD, Berking M, Riper H. Log in and breathe out: internet-based |
| | recovery training for sleepless employees with work-related strain - results of a |
| | randomized controlled trial. Scandinavian journal of work, environment & health. |
| 137 | 2015;41(2):164-74. |
| | Toppinen-Tanner S, Bockerman P, Mutanen P, Martimo KP, Vuori J. Preventing Sickness |
| 120 | Absence With Career Management Intervention: A Randomized Controlled Field Trial. |
| 139 | Journal of occupational and environmental medicine. 2016;58(12):1202-6. Uchiyama A, Odagiri Y, Ohya Y, Takamiya T, Inoue S, Shimomitsu T. Effect on mental health |
| 140 | of a participatory intervention to improve psychosocial work environment: a cluster |
| 140 | or a participatory intervention to improve psychosocial work environment, a cluster |

| Umanodan R, Shimazu A, Minami M, Kawakami N. Effects of computer-based stress management training on psychological well-being and work performance in japanese employees: a cluster randomized controlled trial. Industrial health. 2014;52(6):480-91. Unterbrink T, Pfeifer R, Krippeit L, Zimmermann L, Rose U, Joos A, et al. Burnout and effort-reward imbalance improvement for teachers by a manual-based group program. International archives of occupational and environmental health. 2012;85(6):667-74. Valley MA, Stallones L. Effect of Mindfulness-Based Stress Reduction Training on Health Care Worker Safety: A Randomized Waitist Controlled Trial. Journal of occupational and environmental medicine. 2017;59(10):935-41. van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. Hands4U: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 146 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen JL, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occu | | randomized controlled trial among nurses. Journal of occupational health. 2013;55(3):173-83. |
|--|-----|--|
| 141 employees: a cluster randomized controlled trial. Industrial health. 2014;52(6):480-91. Unterbrink T, Pfeifer R, Krippeit L, Zimmermann L, Rose U, Joos A, et al. Burnout and effort-reward imbalance improvement for teachers by a manual-based group program. 142 International archives of occupational and environmental health. 2012;85(6):667-74. Valley MA, Stallones L. Effect of Mindfulness-Based Stress Reduction Training on Health Care Worker Safety: A Randomized Waitist Controlled Trial. Journal of occupational and environmental medicine. 2017;59(10):935-41. van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. Hands40: the effectiveness of a multifacteted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 146 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program fo | | Umanodan R, Shimazu A, Minami M, Kawakami N. Effects of computer-based stress |
| Unterbrink T, Pfeifer R, Krippeit L, Zimmermann L, Rose U, Joos A, et al. Burnout and effort-reward imbalance improvement for teachers by a manual-based group program. 142 International archives of occupational and environmental health. 2012;85(6):667-74. Valley MA, Stallones L. Effect of Mindfulness-Based Stress Reduction Training on Health Care Worker Safety: A Randomized Waitlist Controlled Trial. Journal of occupational and 143 environmental medicine. 2017;59(10):935-41. van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. Hands4U: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 146 2015;59(3):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen LJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job s | | management training on psychological well-being and work performance in japanese |
| effort-reward imbalance improvement for teachers by a manual-based group program. 142 International archives of occupational and environmental health. 2012;85(6):667-74. Valley MA, Stallones L. Effect of Mindfulness-Based Stress Reduction Training on Health Care Worker Safety: A Randomized Waitlist Controlled Trial. Journal of occupational and environmental medicine. 2017;59(10):935-41. van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. Hands40: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 142 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;33(6):680-6. Varekamp J, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2013;39(3):2 | 141 | employees: a cluster randomized controlled trial. Industrial health. 2014;52(6):480-91. |
| 142 International archives of occupational and environmental health. 2012;85(6):667-74. Valley MA, Stallones L. Effect of Mindfulness-Based Stress Reduction Training on Health Care Worker Safety: A Randomized Waitlist Controlled Trial. Journal of occupational and environmental medicine. 2017;59(10):935-41. van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. Hands-4U: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term | | Unterbrink T, Pfeifer R, Krippeit L, Zimmermann L, Rose U, Joos A, et al. Burnout and |
| 142 International archives of occupational and environmental health. 2012;85(6):667-74. Valley MA, Stallones L. Effect of Mindfulness-Based Stress Reduction Training on Health Care Worker Safety: A Randomized Waitlist Controlled Trial. Journal of occupational and environmental medicine. 2017;59(10):935-41. van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. Hands-4U: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term | | effort-reward imbalance improvement for teachers by a manual-based group program. |
| Valley MA, Stallones L. Effect of Mindfulness-Based Stress Reduction Training on Health Care Worker Safety: A Randomized Waitlist Controlled Trial. Journal of occupational and 143 environmental medicine. 2017;59(10):935-41. van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. Hands4U: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 146 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wirm KF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcome | 142 | International archives of occupational and environmental health. 2012;85(6):667-74. |
| 143 environmental medicine. 2017;59(10):935-41. van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. Hands4U: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 146 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284- | | |
| van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et al. HandsAU: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 146 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, | | Care Worker Safety: A Randomized Waitlist Controlled Trial. Journal of occupational and |
| al. Hands4U: the effectiveness of a multifaceted implementation strategy on behaviour related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviou | 143 | environmental medicine. 2017;59(10):935-41. |
| related to the prevention of hand eczema-a randomised controlled trial among healthcare workers. Occupational and environmental medicine. 2014;71(7):492-9. van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 146 2015;98(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled 148 trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and envi | | van der Meer EW, Boot CR, Twisk JW, Coenraads PJ, Jungbauer FH, van der Gulden JW, et |
| van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work- | | al. Hands4U: the effectiveness of a multifaceted implementation strategy on behaviour |
| van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work- | | · · · · · · · · · · · · · · · · · · · |
| van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz Exposure Among Construction Workers. The Annals of occupational hygiene. 146 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 147 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction | 145 | |
| Exposure Among Construction Workers. The Annals of occupational hygiene. 2015;59(8):959-71. van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kau | | van Deurssen E, Meijster T, Oude Hengel KM, Boessen R, Spaan S, Tielemans E, et al. |
| van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part | | Effectiveness of a Multidimensional Randomized Control Intervention to Reduce Quartz |
| van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early | | Exposure Among Construction Workers. The Annals of occupational hygiene. |
| mHealth intervention aiming to improve health-related behavior and sleep and reduce fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial | 146 | 2015;59(8):959-71. |
| fatigue among airline pilots. Scandinavian journal of work, environment & health. 2014;40(6):557-68. van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled 148 trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized 151 controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. V | | van Drongelen A, Boot CR, Hlobil H, Twisk JW, Smid T, van der Beek AJ. Evaluation of an |
| van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. | | mHealth intervention aiming to improve health-related behavior and sleep and reduce |
| van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | fatigue among airline pilots. Scandinavian journal of work, environment & health. |
| intervention for sick-listed employees with distress: results of a randomised controlled trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Vilkari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 147 | ··· |
| trial. Occupational and environmental medicine. 2010;67(9):596-602. van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | van Oostrom SH, van Mechelen W, Terluin B, de Vet HC, Knol DL, Anema JR. A workplace |
| van Wier MF, Dekkers JC, Hendriksen IJ, Heymans MW, Ariens GA, Pronk NP, et al. Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized 151 controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | intervention for sick-listed employees with distress: results of a randomised controlled |
| Effectiveness of phone and e-mail lifestyle counseling for long term weight control among overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized 151 controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 148 | trial. Occupational and environmental medicine. 2010;67(9):596-602. |
| overweight employees. Journal of occupational and environmental medicine. 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | • |
| 149 2011;53(6):680-6. Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| Varekamp I, Verbeek JH, de Boer A, van Dijk FJ. Effect of job maintenance training program for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| for employees with chronic disease - a randomized controlled trial on self-efficacy, job satisfaction, and fatigue. Scandinavian journal of work, environment & health. 150 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized 151 controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 149 | |
| satisfaction, and fatigue. Scandinavian journal of work, environment & health. 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized 151 controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at 152 work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| 2011;37(4):288-97. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized 151 controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at 152 work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. Long-term effects of an occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| occupational health guideline on employees' body weight-related outcomes, cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 150 | |
| cardiovascular disease risk factors, and quality of life: results from a randomized controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| controlled trial. Scandinavian journal of work, environment & health. 2013;39(3):284-94. Verweij LM, Proper KI, Weel AN, Hulshof CT, van Mechelen W. The application of an occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
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| occupational health guideline reduces sedentary behaviour and increases fruit intake at work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 151 | |
| work: results from an RCT. Occupational and environmental medicine. 2012;69(7):500-7. Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| Viester L, Verhagen EA, Bongers PM, van der Beek AJ. The effect of a health promotion intervention for construction workers on work-related outcomes: results from a randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 152 | |
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| randomized controlled trial. International archives of occupational and environmental health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| health. 2015;88(6):789-98. Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| Viikari-Juntura E, Kausto J, Shiri R, Kaila-Kangas L, Takala EP, Karppinen J, et al. Return to work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 152 | · |
| work after early part-time sick leave due to musculoskeletal disorders: a randomized controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 153 | |
| controlled trial. Scandinavian journal of work, environment & health. 2012;38(2):134-43. Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | | |
| Vilela BL, Benedito Silva AA, de Lira CA, Andrade Mdos S. Workplace exercise and | 15/ | |
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| 133 Caucational program for improving fittiess outcomes related to fleatiff in workers. a | 155 | · |
| | 155 | cadeational program for improving neness outcomes related to fleaten in workers. a |

| | randomized controlled trial. Journal of occupational and environmental medicine. |
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| | 2015;57(3):235-40. |
| | Willert MV, Thulstrup AM, Bonde JP. Effects of a stress management intervention on |
| | absenteeism and return to workresults from a randomized wait-list controlled trial. |
| 156 | Scandinavian journal of work, environment & health. 2011;37(3):186-95. |
| | Wilson MG, DeJoy DM, Vandenberg RJ, Corso P, Padilla H, Zuercher H. Effect of Intensity |
| | and Program Delivery on the Translation of Diabetes Prevention Program to Worksites: A |
| | Randomized Controlled Trial of Fuel Your Life. Journal of occupational and environmental |
| 157 | medicine. 2016;58(11):1113-20. |
| | Vlasveld MC, van der Feltz-Cornelis CM, Ader HJ, Anema JR, Hoedeman R, van Mechelen |
| | W, et al. Collaborative care for sick-listed workers with major depressive disorder: a |
| | randomised controlled trial from the Netherlands Depression Initiative aimed at return to |
| | work and depressive symptoms. Occupational and environmental medicine. |
| 158 | 2013;70(4):223-30. |
| | von Thiele Schwarz U, Augustsson H, Hasson H, Stenfors-Hayes T. Promoting employee |
| | health by integrating health protection, health promotion, and continuous improvement: |
| | a longitudinal quasi-experimental intervention study. Journal of occupational and |
| 159 | environmental medicine. 2015;57(2):217-25. |
| | Yu IT, Yu W, Li Z, Qiu H, Wan S, Xie S, et al. Effectiveness of participatory training in |
| | preventing accidental occupational injuries: a randomized-controlled trial in China. |
| 162 | Scandinavian journal of work, environment & health. 2017;43(3):226-33. |
| | Yu W, Yu IT, Wang X, Li Z, Wan S, Qiu H, et al. Effectiveness of participatory training for |
| | prevention of musculoskeletal disorders: a randomized controlled trial. International |
| 163 | archives of occupational and environmental health. 2013;86(4):431-40. |

Supplemental Table e Overview reporting quality of CONSORT checklist items per article

| article IDs |
|---|
| Sequence generation method (item 8a) |
| Sequence generation type (item 8b) |
| Extension 8b for cRCTs |
| Allocation concealment mechanism (item 9) |
| Extension 9 for cRCTs |
| Randomisation implementation (item 10) |
| Extension for cRCTs, randomisation implementation 10a: who did what |
| Extension for cRCTs, randomisation implementation 10b: how clusters included (all?, random?) |
| Extension for cRCTs, randomisation implementation 10c: Informed consent from whom and when |

Randomised controlled trials (RCT)

| 18 | Yes | Yes | na | Yes | na | Yes | na | na | na |
|-----|-----|-----|----|-----|----|-----|----|----|----|
| 32 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 61 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 64 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 68 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 87 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 111 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 113 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 114 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 116 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 148 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 154 | Yes | Yes | na | Yes | na | Yes | na | na | na |
| 16 | Yes | Yes | na | Yes | na | No | na | na | na |
| 35 | Yes | Yes | na | Yes | na | No | na | na | na |
| 49 | Yes | Yes | na | Yes | na | No | na | na | na |
| 86 | Yes | Yes | na | Yes | na | No | na | na | na |
| 91 | Yes | Yes | na | Yes | na | No | na | na | na |

| 158 | Yes | Yes | na | Yes | na | No | na | na | na |
|-----|-----|-----|----|-----|----|-----|----|----|----|
| 92 | Yes | Yes | na | No | na | Yes | na | na | na |
| 110 | Yes | Yes | na | No | na | Yes | na | na | na |
| 9 | Yes | Yes | na | No | na | No | na | na | na |
| 42 | Yes | Yes | na | No | na | No | na | na | na |
| 54 | Yes | Yes | na | No | na | No | na | na | na |
| 59 | Yes | Yes | na | No | na | No | na | na | na |
| 70 | Yes | Yes | na | No | na | No | na | na | na |
| 71 | Yes | Yes | na | No | na | No | na | na | na |
| 77 | Yes | Yes | na | No | na | No | na | na | na |
| 93 | Yes | Yes | na | No | na | No | na | na | na |
| 103 | Yes | Yes | na | No | na | No | na | na | na |
| 109 | Yes | Yes | na | No | na | No | na | na | na |
| 139 | Yes | Yes | na | No | na | No | na | na | na |
| 143 | Yes | Yes | na | No | na | No | na | na | na |
| 155 | Yes | Yes | na | No | na | No | na | na | na |
| 156 | Yes | Yes | na | No | na | No | na | na | na |
| 118 | Yes | No | na | Yes | na | Yes | na | na | na |
| 132 | Yes | No | na | Yes | na | Yes | na | na | na |
| 19 | Yes | No | na | Yes | na | No | na | na | na |
| 120 | Yes | No | na | Yes | na | No | na | na | na |
| 150 | Yes | No | na | Yes | na | No | na | na | na |
| 1 | Yes | No | na | No | na | Yes | na | na | na |
| 153 | Yes | No | na | No | na | Yes | na | na | na |
| 2 | Yes | No | na | No | na | No | na | na | na |
| 14 | Yes | No | na | No | na | No | na | na | na |
| 15 | Yes | No | na | No | na | No | na | na | na |
| 36 | Yes | No | na | No | na | No | na | na | na |
| 37 | Yes | No | na | No | na | No | na | na | na |
| 38 | Yes | No | na | No | na | No | na | na | na |

| 57 | Yes | No | na | No | na | No | na | na | na |
|-----|-----|-----|----|-----|----|-----|----|----|----|
| 67 | Yes | No | na | No | na | No | na | na | na |
| 69 | Yes | No | na | No | na | No | na | na | na |
| 105 | Yes | No | na | No | na | No | na | na | na |
| 122 | Yes | No | na | No | na | No | na | na | na |
| 129 | Yes | No | na | No | na | No | na | na | na |
| 137 | Yes | No | na | No | na | No | na | na | na |
| 60 | No | Yes | na | Yes | na | Yes | na | na | na |
| 108 | No | Yes | na | Yes | na | Yes | na | na | na |
| 82 | No | Yes | na | Yes | na | No | na | na | na |
| 3 | No | Yes | na | No | na | No | na | na | na |
| 11 | No | Yes | na | No | na | No | na | na | na |
| 26 | No | Yes | na | No | na | No | na | na | na |
| 102 | No | Yes | na | No | na | No | na | na | na |
| 115 | No | Yes | na | No | na | No | na | na | na |
| 119 | No | Yes | na | No | na | No | na | na | na |
| 128 | No | Yes | na | No | na | No | na | na | na |
| 142 | No | Yes | na | No | na | No | na | na | na |
| 147 | No | Yes | na | No | na | No | na | na | na |
| 149 | No | No | na | Yes | na | Yes | na | na | na |
| 6 | No | No | na | No | na | No | na | na | na |
| 8 | No | No | na | No | na | No | na | na | na |
| 10 | No | No | na | No | na | No | na | na | na |
| 17 | No | No | na | No | na | No | na | na | na |
| 27 | No | No | na | No | na | No | na | na | na |
| 28 | No | No | na | No | na | No | na | na | na |
| 39 | No | No | na | No | na | No | na | na | na |
| 46 | No | No | na | No | na | No | na | na | na |
| 47 | No | No | na | No | na | No | na | na | na |
| 48 | No | No | na | No | na | No | na | na | na |

| 50 | No | No | na | No | na | No | na | na | na |
|-----|----|----|----|----|----|----|----|----|----|
| 55 | No | No | na | No | na | No | na | na | na |
| 56 | No | No | na | No | na | No | na | na | na |
| 62 | No | No | na | No | na | No | na | na | na |
| 72 | No | No | na | No | na | No | na | na | na |
| 73 | No | No | na | No | na | No | na | na | na |
| 74 | No | No | na | No | na | No | na | na | na |
| 81 | No | No | na | No | na | No | na | na | na |
| 84 | No | No | na | No | na | No | na | na | na |
| 85 | No | No | na | No | na | No | na | na | na |
| 89 | No | No | na | No | na | No | na | na | na |
| 95 | No | No | na | No | na | No | na | na | na |
| 106 | No | No | na | No | na | No | na | na | na |
| 123 | No | No | na | No | na | No | na | na | na |
| 124 | No | No | na | No | na | No | na | na | na |
| 131 | No | No | na | No | na | No | na | na | na |
| 133 | No | No | na | No | na | No | na | na | na |
| 157 | No | No | na | No | na | No | na | na | na |

Cluster randomised conrolled trials (cRCTs)

| 29 | Yes | Yes | Yes | Yes | Yes | na | Yes | Yes | Yes |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| 152 | Yes | Yes | Yes | Yes | Yes | na | Yes | Yes | No |
| 101 | Yes | Yes | Yes | Yes | Yes | na | No | Yes | Yes |
| 151 | Yes | Yes | Yes | Yes | Yes | na | No | No | No |
| 40 | Yes | Yes | Yes | Yes | No | na | No | Yes | No |
| 162 | Yes | Yes | Yes | Yes | No | na | No | No | No |
| 78 | Yes | Yes | Yes | No | Yes | na | No | Yes | No |
| 66 | Yes | Yes | No | Yes | Yes | na | Yes | Yes | Yes |
| 31 | Yes | No | Yes | Yes | Yes | na | No | Yes | No |
| 163 | Yes | No | Yes | No | Yes | na | Yes | Yes | No |

| 5 | Yes | No | No | Yes | Yes | na | Yes | No | Yes |
|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| 146 | Yes | No | No | Yes | Yes | na | No | Yes | Yes |
| 53 | Yes | No | No | No | No | na | No | Yes | Yes |
| 127 | Yes | No | No | No | No | na | No | Yes | Yes |
| 112 | Yes | No | No | No | No | na | No | No | Yes |
| 22 | Yes | No | No | No | No | na | No | No | No |
| 140 | No | Yes | Yes | No | No | na | No | Yes | No |
| 88 | No | Yes | Yes | No | No | na | No | No | Yes |
| 4 | No | Yes | No | No | No | na | No | Yes | Yes |
| 104 | No | Yes | No | No | No | na | No | No | Yes |
| 45 | No | Yes | No | No | No | na | No | No | No |
| 145 | No | No | Yes | No | Yes | na | No | No | Yes |
| 79 | No | No | Yes | No | No | na | No | Yes | Yes |
| 21 | No | No | Yes | No | No | na | No | No | Yes |
| 159 | No | No | Yes | No | No | na | No | No | Yes |
| 107 | No | No | No | No | Yes | na | Yes | Yes | No |
| 44 | No | No | No | No | No | na | No | Yes | No |
| 98 | No | No | No | No | No | na | No | Yes | No |
| 20 | No | No | No | No | No | na | No | No | Yes |
| 75 | No | No | No | No | No | na | No | No | Yes |
| 80 | No | No | No | No | No | na | No | No | Yes |
| 97 | No | No | No | No | No | na | No | No | Yes |
| 7 | No | No | No | No | No | na | No | No | No |
| 12 | No | No | No | No | No | na | No | No | No |
| 41 | No | No | No | No | No | na | No | No | No |
| 94 | No | No | No | No | No | na | No | No | No |
| 100 | No | No | No | No | No | na | No | No | No |
| 130 | No | No | No | No | No | na | No | No | No |
| 134 | No | No | No | No | No | na | No | No | No |
| 141 | No | No | No | No | No | na | No | No | No |
| | | | | | | | | | |