



EBP in medicina del Lavoro

Alberto Baldasseroni
CeRIMP Regione Toscana

Pisa 28-29 Maggio 2009

Due approcci al tema delle "Prove di Efficacia" nella prevenzione dei rischi e danni da lavoro



Jos Verbeek
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Cochrane Occupational Health Field
The reliable source of evidence in occupational health



Firenze 23-24 Ottobre 2008



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The reliable source of evidence in occupational health

Due punti di vista

- EBM-like approach (Cochrane Collaboration)
 - Stress on Internal validity (“rigid” selection criteria, only RCTs or ITS)
 - Scientific evidence

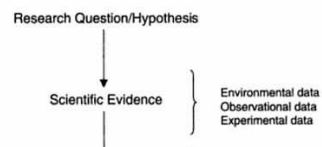


Figure 9.1. The intersection of science and health policy. *Adapted from: Samet (2000).*

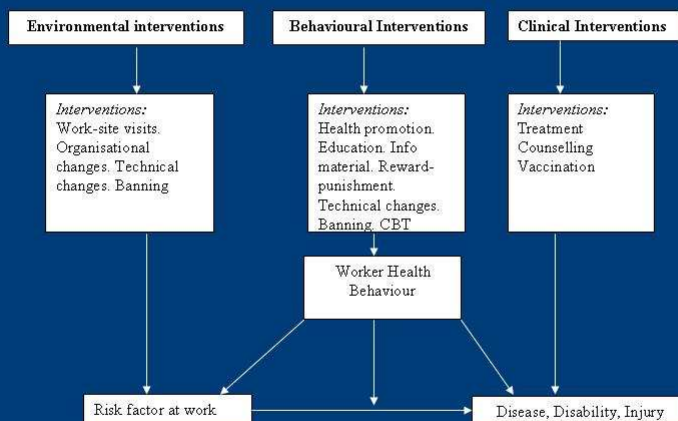
Occupational Health Interventions



Verbeek, Scand J WEH 2004

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Occupational Health Interventions



Verbeek, Scand J WEH 2004

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Need for effective interventions in practice

- E.g. how to best help teachers with voice problems (dysphonia)?

- Clinical intervention?
 - Speech therapy? Aids?
- Behavioural intervention?
 - Education and training? Regulation?
- Environmental intervention?
 - Change classroom environment? Regulation?
- Multifaceted intervention?



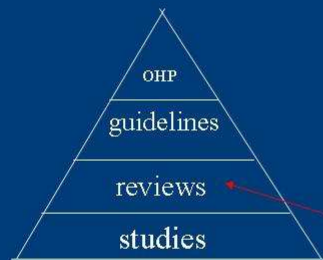
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Evidence voice problems interventions

- Search Medline through Pubmed: voice AND occupation
- Evidence
 - Cochrane Reviews: Ruotsalainen et al 2007:
 - Moderate evidence that voice therapy is effective compared to no evidence (based on 4 RCTs)
 - combination of direct and indirect techniques
 - No evidence that voice training is effective (based on 2 RCTs)
 - No evidence that work-directed or environmental interventions are effective (no studies found)
 - No evidence on aids
- Implications for practice
 - Concentrate on therapy for those with symptoms
 - Ask for studies of prevention effectiveness

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How to better use the evidence base?



- Convince employers and unions
- (Personal) Knowledge Management to improve use in practice
- Develop guidelines to put evidence into practice
- Systematic reviews to improve the evidence base
- More intervention studies and less meta exposure studies

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in the Cochrane Library

- Full Systematic Reviews on occupational health (N=39)
 - Reviews published before COHF (N=30)
 - Smoking cessation, Screening for lung cancer, Vocational rehabilitation for schizophrenia, Back pain and return to work
 - New Reviews published since COHF (N=9)
 - Hearing protection, Stress management, Prevention of injuries in Construction and Agriculture, Return to work in Depressed Workers, Voice disorders
 - New Protocols since COHF (N=10)
 - Alcohol testing, pre-employment examinations, sharps injuries
 - New registered Titles (N=6)
 - Topics:
 - Return to work in cancer survivors, shift work

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Cochrane Occupational Health Field
The reliable source of evidence in occupational health





Finnish Institute of Occupational Health

Database

Hand Searching

Search strategies

Systematic reviews

Training

Contact us

Funding

 Tulostettava sivu

HOME PAGE OF COCHRANE OCCUPATIONAL HEALTH FIELD > Systematic reviews > Reference list of Cochrane OH Reviews

» Occupational Health Cochrane-Reviews : Reference list by topic

Last updated - 26.09.2008

1. Musculoskeletal disorders

- back**
 Advice to stay active as a single treatment for low-back pain and sciatica. [CD003632](#)
 Back schools for non-specific low-back pain. [CD000361](#)
 Behavioural treatment for chronic low-back pain. [CD002014](#)
 Exercise therapy for treatment of non-specific low back pain. [CD000335](#)
 Insoles for prevention and treatment of back pain. [CD005275](#)
 Lumbar supports for prevention and treatment of low back pain. [CD001823](#)
 Manual material handling advice and assistive devices for preventing and treating back pain in workers. [CD005958](#)
 Multidisciplinary biopsychosocial rehabilitation for subacute low-back pain among working age adults. [CD002193](#)
 Multidisciplinary bio-psycho-social rehabilitation for chronic low-back pain. [CD000963](#)
 Work conditioning, work hardening and functional restoration for workers with back and neck pain. [CD001822](#)
- neck**
 Exercises for mechanical neck disorders. [CD004250](#)
 Medicinal and Injection therapies for mechanical neck disorders. [CD000319](#)
 Multidisciplinary biopsychosocial rehabilitation for neck and shoulder pain among working age adults. [CD002194](#)
- upper limb**
 Biopsychosocial rehabilitation for upper limb repetitive strain injuries in working age adults. [CD002268](#)
 Ergonomic and physiotherapeutic interventions for treating work-related complaints of the arm, neck or shoulder in adults. [CD003471](#)
 Non-surgical treatment (other than steroid injection) for carpal tunnel syndrome. [CD003219](#)
- other musculoskeletal**
 Multidisciplinary rehabilitation for fibromyalgia and musculoskeletal pain in working age adults. [CD001984](#)
 Physiotherapist-led programmes and interventions for rehabilitation of anterior cruciate ligament, medial collateral ligament and meniscal injuries of the knee in adults. [CD001354](#)

2. Smoking

Competitions and incentives for smoking cessation. [CD004307](#)
 Workplace interventions for smoking cessation. [CD003440](#)

3. Injuries and poisoning

Alkalinisation for organophosphorus pesticide poisoning. [CD004897](#)
 Interventions for preventing injuries in the agricultural industry. [CD006398](#)
 Interventions for preventing injuries in the construction industry. [CD006251](#)
 Oximes for acute organophosphate pesticide poisoning. [CD005055](#)

4. Infectious diseases

Antibiotics for leptospirosis. [CD001306](#)
 Antibiotics for preventing leptospirosis. [CD001305](#)
 Antiretroviral post-exposure prophylaxis (PEP) for occupational HIV exposure. [CD002835](#)
 Influenza vaccination for healthcare workers who work with the elderly. [CD005187](#)
 Vaccines for preventing hepatitis B in health-care workers. [CD000100](#)

5. Cancer

Drugs for preventing lung cancer in healthy people. [CD002141](#)
 Screening for lung cancer. [CD001991](#)

6. Mental

Interventions to improve occupational health in depressed people. [CD006237](#)
 Melatonin for the prevention and treatment of jet lag. [CD001520](#)
 Preventing occupational stress in healthcare workers. [CD002892](#)
 Psychological debriefing for preventing post traumatic stress disorder (PTSD). [CD000560](#)
 Vocational rehabilitation for people with severe mental illness. [CD003080](#)

7. Other

Cognitive behavioural therapy for tinnitus. [CD005233](#)
 Effectiveness of vocational rehabilitation intervention on the return to work and employment of persons with multiple sclerosis. [CD007256](#)
 Interventions for preventing voice disorders in adults. [CD006372](#)
 Interventions for treating functional dysphonia in adults. [CD006373](#)
 Interventions to promote the wearing of hearing protection. [CD005234](#)
 Interventions in the workplace to support breastfeeding for women in employment. [CD006177](#)

Alcohol and drug screening of occupational drivers for preventing injury (Review)

Cashman CM, Ruotsalainen JH, Greiner BA, Beirne PV, Verbeek JH



This is a reprint of a Cochrane review, prepared and maintained by The Cochrane Collaboration and published in *The Cochrane Library* 2009, Issue 2

<http://www.thecochranelibrary.com>



Alcohol and drug screening of occupational drivers for preventing injury (Review)
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[Intervention Protocol]
Health examination for preventing occupational injuries and disease in workers

Norashikin Mahmud¹, Eva Schonstein¹, Marika M Lehtola², Joe H Verbeek², Jean-Baptiste Fassin³, Michael F Reneman⁴, Rob de Bie⁵

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Contact address: Norashikin Mahmud, Faculty of Health Sciences, University of Sydney, Cumberland Campus C42, 75 East St (PO Box 170), Lidcombe, NSW, 2141, Australia. nmah3154@usyd.edu.au. (Editorial group: Cochrane Injuries Group.)

Cochrane Database of Systematic Reviews, Issue 2, 2009 (Status in this issue: *Unchanged*)
Copyright © 2009 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.
DOI: 10.1002/14651858.CD007290
This version first published online: 16 July 2008 in Issue 3, 2008. (Help document - Dates and Statuses explained.)

This record should be cited as: Mahmud N, Schonstein E, Lehtola MM, Verbeek JH, Fassin JB, Reneman MF, de Bie R. Health examination for preventing occupational injuries and disease in workers (Protocol). *Cochrane Database of Systematic Reviews* 2008, Issue 3. Art. No.: CD007290. DOI: 10.1002/14651858.CD007290.

Abstract

This is the protocol for a review and there is no abstract. The objectives are as follows:

The objectives of the review are as follows:

Weaker evidence..

- the lower the methodological quality...
 - the lower the power to change beliefs
 - the more difficult it is to draw conclusions
 - the more work it is to locate studies
 - the more difficult it is to agree about study designs

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Due punti di vista

- Public Health (North American)
 - Stress on External rather than Internal validity (Transferability & Dissemination)
 - Best Available Evidence (Public Health Policy; Decision making)
 - Practical evidence

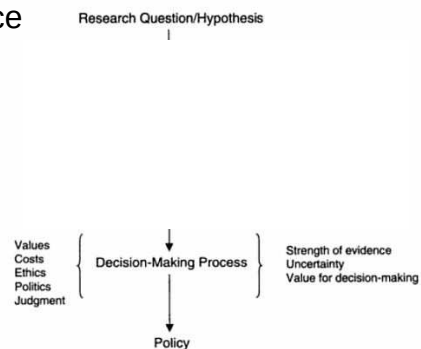


Figure 9.1. The intersection of science and health policy. *Adapted from: Samet (2000).*

AMERICAN JOURNAL OF INDUSTRIAL MEDICINE 44:157–165 (2003)

Work-Related Falls Among Union Carpenters in Washington State Before and After the Vertical Fall Arrest Standard

Hester J. Lipscomb, PhD,¹ Leiming Li, MS, and John Dement, PhD, CIH

AMERICAN JOURNAL OF INDUSTRIAL MEDICINE 51:719–727 (2008)

Prevention of Traumatic Nail Gun Injuries in Apprentice Carpenters: Use of Population-Based Measures to Monitor Intervention Effectiveness

Hester J. Lipscomb,^{1,2} James Nolan,² Dennis Patterson,² and John M. Dement¹

Letters to the Editor

**A Counterintuitive on Data Quality and
the Systematic Review Process for
Occupational Injury Interventions**
Are We Missing the Forest for the Trees?

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John M. Dement, PhD, CIH
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Am J Prev Med 2009;36(4)

In Reply:

We thank Drs. Lipscomb and Dement for their view on our Cochrane systematic review. We were glad to see that they were critical about the review, but also agreed with much of the content.

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Roger A. Haslam, PhD
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Jos H. Verbeek, MD, PhD

^{1a} **Medicina del Lavoro**

Med Lav 2009; 100, 4: 000-000

**Writing a Cochrane systematic review on preventive
interventions to improve safety: the case of the
construction industry**

H.F. VAN DER MOLEN^{*, **}, P.L.T. HOONAKKER^{***}, MARIKA M. LEHTOLA^{****}, H. HSIAO^{*****},
R.A. HASLAM^{*****}, A. HALE^{*****}, J. H. VERBEEK^{*, ****}

^{1a} **Medicina del Lavoro**

Med Lav 2009; 100, 4: 000-000

**Systematic reviews of workplace injury interventions:
What are we missing?**

HESTER J. LIPSCOMB, LISA A. POMPEII^{*}, D.J. MYERS, ASHLEY L. SCHOENFISCH, J.M. DEMENT

EBP e Lavoro

La prevenzione efficace
dei rischi e danni da lavoro



FIRENZE 23-24 OTTOBRE 2008
VILLA MONTALTO

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Ministero del Lavoro,
della Salute
e della Previdenza Sociale



Ebp e lavoro

http://www.ccm-network.it/ebp_e_lavoro/

La prevenzione efficace dei rischi e danni da lavoro





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Ebp e lavoro: la prevenzione basata su prove di efficacia

In evidenza

È on line il **dossier** di Ebp e lavoro, a cura di Alberto Baldasseroni e Nadia Olimpì. Il lavoro di revisione sistematica della letteratura scientifica e grigia è relativo all'efficacia degli interventi di prevenzione nei confronti degli infortuni sul lavoro.

Guarda anche i **materiali** de "La prevenzione efficace dei rischi e dei danni da lavoro", il convegno tenutosi il 23-24 ottobre 2008 a Villa Montalto (Fi), che chiude i lavori del progetto di ricerca del Centro per il controllo delle malattie del ministero della Salute dedicato alla valutazione delle prove di efficacia nella prevenzione degli infortuni sul lavoro.

"Ebp e lavoro" è uno spazio sul web che raccoglie e rende disponibili per gli operatori sanitari materiali, documenti ed esperienze pratiche all'insegna dell'evidence based prevention in tema di lavoro e salute, in ambito internazionale, ma anche nazionale e locale.

Uno strumento che rientra in un progetto più ampio e ambizioso: contribuire a mettere in atto sul territorio nazionale, in accordo con le Regioni, interventi di promozione della salute occupazionale basati sulle migliori pratiche disponibili e condivise dalla comunità scientifica internazionale.



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L'efficacia degli interventi per la prevenzione degli infortuni sul lavoro

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Gennaio 2009

A Baldasseroni, N Olimpì

VALUTAZIONE DELLA VACCINAZIONE DELL'INTERVENTO LIEPITO DI DONATELLA SANTUCCI PER ALIMENTAZIONE (LISA)

Luglio 2007

Introduzione universale della vaccinazione contro le patologie causate da *Streptococcus pneumoniae* nei bambini e negli adulti: prove di efficacia

Luglio 2007

Servizi di Assistenza al Lavoro e al Lavoro (SAL)

Luglio 2007

Coccar

Draft 07/2008

I "Dossier"

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L'Azione Istituzionale sui Policy Makers

Un bilancio delle attività italiane

^{1a} Medicina del Lavoro

Med Lav 2005; 96, 6: 513-548

Studi di efficacia di attività preventive nelle comunicazioni ai congressi della Società Italiana di Medicina del Lavoro e Igiene Industriale (1989-2003)

S. MATTIOLI, A. BALDASSERONI*, G. MANCINI**, M. FIERRO***, F.S. VIOLANTE

^{1a} Medicina del Lavoro

Med Lav 2009; 100, 4: 000-000

L'apporto della comunità scientifica italiana alle prove di efficacia in medicina del lavoro

S. MATTIOLI, A. BALDASSERONI*, DONATELLA PLACIDI**, M. FIERRO, G. MANCINI***, G. CAMPO****, A. FARIOLI, FRANCESCA ZANARDI*****, F.S. VIOLANTE

