

# Clearing house systematic reviews on occupational health and safety topics

## PEROSH



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# PEROSH - Members

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# Clearing house systematic reviews



- **First meeting April 2009**
- **Project leader: FIOH**
- **Project partners: BAuA, CIOP, IFA, INSHT, ISPEL, NRCWE, STAMI, TNO**



- **Objectives:**
  - **Collection of systematic reviews on occupational health topics**
  - **Exchange of experiences on any aspect of systematic reviews**
  - **A website with all relevant information**



# Clearing house systematic reviews- methods

- **Target group:**
  - Professionals
  - Policy Makers
  - Researchers

- **Definition:**

“A **systematic review** attempts to collate all empirical evidence that fits pre-specified eligibility criteria to answer a specific research question. It uses explicit, systematic methods that are selected with a view to minimizing bias, thus providing reliable findings from which conclusions can be drawn and decisions made.”

according to **P**referred **R**eporting **I**tems for **S**ystematic Reviews and **M**eta-**A**nalyses: The PRISMA Statement (<http://www.prisma-statement.org/>)

# Clearing house systematic reviews - methods

- **Inclusion criteria:**

- A clearly defined question with reference to **P**articipants, **I**nterventions or exposure, **C**omparisons, **O**utcomes, and **S**tudy design (**PICOS**)

Question on the following aspects of occupational diseases and injuries are included and categorized:

- Intervention: therapy and prevention
  - Prognosis
  - Diagnosis
  - Etiology
  - Prevalence/incidence
- Inclusion of an electronic search of at least one database
  - Publication date 2000 to present (unless the type of exposure warrants older reviews)

## Clearing house systematic reviews - methods

- **Inclusion Criteria for Occupational Health and Safety topics:**
  - **Occupational exposure e.g.**
    - **Chemical exposures**
    - **Stress at work**
    - **Biomechanical loading**
  - **Occupational outcomes e.g.**
    - **Occupational diseases or symptoms**
    - **Workability/disability and productivity loss**
    - **Injuries**

# Clearing house systematic reviews - methods

- **Classification according to PICO:**
  - **Participants: workers**
  - **Intervention / Exposure: welding fumes**
  - **Comparison: no exposure to welding fumes**
  - **Outcome: lung cancer**
- **Search strategy:**
  - **Databases: at least PubMed and Embase**
  - **A joint literature search strategy:**
    - **terms for the disease**
    - **terms for the occupation or exposure**
    - **terms for the type of study**


# Clearing house systematic reviews - first results

## Examples:

- Do factors at work lead to neck and work related upper limb disorders ?
- Does physical work load lead to hip osteoarthritis?
- Workplace interventions for preventing needle stick injuries in health care personnel
- Systematic Reviews of work-related economic outcomes
- Is aggression more frequent in health care workers compared to other workers in public functions?
- Interventions to prevent noise-induced hearing loss
- Prognostic factors for the duration of sickness absence in musculoskeletal disorders
- Does solar UV radiation lead to skin diseases in outdoor workers?

# Clearing house systematic reviews – under construction and discussion

- **Website including**
  - a searchable database with review abstracts
  - information on the methods/ criteria used for searching and selecting reviews

<a href="#">Home Page</a>
<a href="#">How to use the database</a>
<a href="#">Search strategies</a>
<a href="#">Topics</a>
 <a href="#">Tulostettava sivu</a>

Perosh > Home Page

## » PEROSH Clearing House of Systematic Reviews

Perosh Clearing House of Systematic Reviews is a project of the Partner of national institutes of occupational health and safety in Europe. It aims conducted in the field of occupational health and safety. We go beyond etiological studies, prognostic, diagnostic and prevalence studies.

The objective is to facilitate knowledge transfer from scientific research sources and presenting them in a systematic way, we hope that the form of an overview of reviews.

- **Quality assessment and critical appraisal of systematic reviews**



**SIGN 50**

A guideline developer's handbook

**CASP**

**NHS**

**Critical Appraisal Skills Programme**