Safe and healthy work in agriculture:

online information and education

International support for Primary Health Care?

Frank van Dijk,

Huub Oude Vrielink

Gert van der Laan

Foundation Learning and Developing

Occupational Health, LDOH

Lodi, September 2015
Higher demands: higher educational level of workers and role of evidence increased for professionals

Finding information and learning materials is much easier

Information: using smartphones as a tool to measure noise or fine dust levels
Knowledge translation from science to practice
Knowledge translation from science to practice

- Creation of scientific articles, (books), reviews
- Creation of TLV's, measurement protocols, professional (national) publications, guidelines, Q&A’s, apps, quality websites, search tools, online courses & lessons, Wikipedia, YouTube
- OSH and other professionals
- Workers, managers, companies, Govt, Social Security
- Storage and access via virtual libraries, repositories, clearing houses
- Education and training, congresses, meetings
information
New online sources to find information

Online available sources >>>>>>>>

- articles, reviews,
- e-b guidelines / related tools,
- toxicity info, informative websites,
- videos / YouTube,
- assessment tools,
- helpdesk / Question & Answer

Doctor do you know that your patient is googling?
Primary health care and workers’ health literature collection
A case-based toxicology module on agricultural- and mining-related occupational exposures. USA. PMID: 23049108 (for pharmacy students about farming- and mining-related occupational exposures in toxicology course; recognition of signs and symptoms; therapeutic plans)

Mental health first aid training of advisory and extension agents in supporting farmers in rural Queensland. Australia. PMID: 21105751 (for advisory and extension agents in agriculture)

Language and literacy barriers in safety and health training of agricultural workers. USA. PMID: 20665309 (wide overview on safety and health training issues for the diverse, dispersed, and often transient agricultural workers population in USA)

Learning and recall of Worker Protection Standard (WPS) training in vineyard workers. USA. PMID: 19657883 (for vineyard workers)

Continuing education in physical rehabilitation and health issues of agricultural workers. USA. PMID: 24959764 (for occupational and physical therapists)

Increasing the number of trained health and safety professionals in agricultural medicine: evaluation of the "building capacity" program, 2007-2013. PMID: 25635740 (for all kind of professionals)

Farmers' concerns: a qualitative assessment to plan rural medical education. PMID: 22458311 (medical students)
### Table 2

**Occupational disease surveillance training program.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>8:30-9:30</td>
<td>Introduction of participants and social group activity</td>
</tr>
<tr>
<td></td>
<td>9:30-12:00</td>
<td>Overview of occupational health concepts</td>
</tr>
<tr>
<td></td>
<td>13:00-14:00</td>
<td>Overview of the occupational disease surveillance system of the MOPH</td>
</tr>
<tr>
<td></td>
<td>14:00-16:00</td>
<td>Experience sharing: discuss problems and challenges with ODS at the PCU level</td>
</tr>
<tr>
<td>Day 2</td>
<td>8:30-9:00</td>
<td>Warm up session</td>
</tr>
<tr>
<td></td>
<td>9:00-12:00</td>
<td>Principles of occupational disease screening</td>
</tr>
<tr>
<td></td>
<td>13:00-16:00</td>
<td>Musculoskeletal disorder surveillance</td>
</tr>
<tr>
<td>Day 3</td>
<td>8:30-9:00</td>
<td>Warm up session</td>
</tr>
<tr>
<td></td>
<td>9:00-12:00</td>
<td>Skin disease surveillance</td>
</tr>
<tr>
<td></td>
<td>13:00-16:00</td>
<td>Practice by case study: occupational disease surveillance at the PCU level</td>
</tr>
<tr>
<td></td>
<td>16:00-16:30</td>
<td>Homework assignment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Three weeks break</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Practice at their own PCU regarding diagnosing, recording and reporting occupational diseases</td>
</tr>
<tr>
<td>Day 4</td>
<td>8:30-9:00</td>
<td>Warm up session</td>
</tr>
<tr>
<td></td>
<td>9:00-12:00</td>
<td>Pesticide related disease surveillance</td>
</tr>
<tr>
<td></td>
<td>13:00-16:00</td>
<td>Homework presentation</td>
</tr>
<tr>
<td>Day 5</td>
<td>8:30-9:00</td>
<td>Warm up session</td>
</tr>
<tr>
<td></td>
<td>9:00-12:00</td>
<td>Best practice in occupational disease surveillance at the PCU level</td>
</tr>
<tr>
<td></td>
<td>13:00-16:00</td>
<td>Evaluation of the workshop</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Closing the workshop</td>
</tr>
</tbody>
</table>
PubMed filters for OSH to find scientific articles

OSH interventions
etiology of occupational diseases
suspected occupational (w-related) diseases
agricultural workers’ diseases
chronic diseases and work
return to work studies
primary health care
work disability
Many reviews on low back pain and other musculoskeletal disorders

Alkalisation for organophosphorus pesticide poisoning
Antibiotic prophylaxis for leptospirosis
Antibiotic prophylaxis for mammalian bites
Interventions for preventing injuries in the agricultural industry
Interventions for preventing occupational irritant hand dermatitis
Urinary alkalisation for acute chlorophenoxy herbicide poisoning
Evidence-based practice guidelines

Dermatitis
Occupational aspects of management

Latex allergy
Occupational aspects of management

Upper limb disorders
Occupational aspects of management
App for protecting pregnant women, e.g. pesticides warning

Tool based on evidence-based practice guideline
In OSHA and Wikipedia also information on toxic properties
Informative websites for agriculture
Digitale risico-inventarisatie

Een aantal sectoren heeft pas een externe deskundige voor de toetsing in te schakelen als zij meer dan 25 werknemers hebben. Dit komt omdat de sociale partners de risico-inventarisaties van deze sectoren hebben erkend. Hoeft u een bedrijf in één van onderstaande sectoren met een erkende RIE?

En heeft u 25 werknemers of minder?

Dan kunt u zelf digitaal een checklist invullen en op basis daarvan een plan van aanpak opstellen.

In samenwerking met Steunpunt RIE heeft Sligas voor onderstaande sectoren een digitale RIE ontwikkeld.

- Akkernouw en vollegrondsteen
- Bloembollenteelt - handel en -bereiding (erkende RIE)
- Boom- en vaste plantenteelt (erkende RIE)
- Bos en natuur (erkende RIE)
- Glasblazen en -behandeling (erkende RIE)
- Fruitteelt
- Hoveniers en groenverzorgers met werknemersreglement (erkende RIE)
- Mechanische loonwerken met werknemersreglement (erkende RIE)
- Melkveehouderij (erkende RIE)
- Paardenhouderij (erkende RIE)
- Pluimveehouderij (erkende RIE)
- Varkenshouderij (erkende RIE)
- Zorgboerderij (erkende RIE)
<table>
<thead>
<tr>
<th>Arbeidsvriendelijke producten</th>
<th>Leverancier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achterzichtsysteem (camera) voor achteruit kijken op landbouwmachines</td>
<td>Orlaco Products BV</td>
</tr>
<tr>
<td>Bandenhuilpruim (winnaar arbo-Innovatieprijs 2003)</td>
<td>Bedacht door een gebruiker, bol Stigas voor meer informatie</td>
</tr>
<tr>
<td>Frontenetsysteem</td>
<td>Zuidberg Trac Line</td>
</tr>
<tr>
<td>Gereedschapsdrager</td>
<td>Pliegmakers Rips en Jacobs Metaalbewerking BV</td>
</tr>
<tr>
<td>Koceltrekhaak</td>
<td>Middelbos B.V. - Assen</td>
</tr>
<tr>
<td>Paaltrekker</td>
<td>W van de Kamp</td>
</tr>
<tr>
<td>Wielenwisselaar</td>
<td>Pliegmakers Rips en Jacobs Metaalbewerking BV</td>
</tr>
<tr>
<td>Bermpaal- en vangrailmaaier</td>
<td>Kruse Ootmarsum</td>
</tr>
<tr>
<td>Bandenklem</td>
<td>W van de Kamp</td>
</tr>
<tr>
<td>Electrische minidumper of kruiwagen</td>
<td>Zallys Italy</td>
</tr>
<tr>
<td>Radiografisch bestuurbare taludmaaier</td>
<td>C. v. d. Pols &amp; Zn BV</td>
</tr>
<tr>
<td>Stenenklem S100</td>
<td>Nimatoch Zeewolde</td>
</tr>
<tr>
<td>poetsvijl</td>
<td>Nimatoch Zeewolde</td>
</tr>
<tr>
<td>Houtzagers</td>
<td>Nimatoch Zeewolde</td>
</tr>
<tr>
<td>Vleesontkolver</td>
<td>Nimatoch Zeewolde</td>
</tr>
</tbody>
</table>
YouTube, how to protect yourself against Lyme disease

www.stigas.nl
U.S. Agricultural Safety and Health Centers

Home Videos Afspeellijsten Kanalen Discussie Over

Gemaakte afspeellijsten

Needlestick Prevention
Preventing Needlestick Injuries - Proper Use... 1:56
Preventing Needlestick Injuries - Proper Use... 2:33
Preventing Needlestick Injuries - Proper Use... 2:34
Volledige afspeellijst weergeven (4 videoclips)

Fluorescent Tracer Video Series
Fluorescent Tracer 2 of 6: Getting Started 5:09
Volledige afspeellijst weergeven (7 videoclips)

Considering Human and Animal Safety: Dairy Safety Training
Dairy Safety Training Video Series Introduction... 1:14
Outsider Animal Care (Dairy Safety Training... 8:59
Milkling Barn Safety (Dairy Safety Training... 2:02
Volledige afspeellijst weergeven (16 videoclips)

Hearing Protection
Protect What's Yours - Hearing 2:36
Volledige afspeellijst weergeven (1 videoclip)

Ladder Injuries
Ladder Injuries: Trailer (1 of 9) Lesiones de... 2:99
Ladder Injuries: Introduction (2 of 9) Introdu... 2:13
Ladder Injuries: Testimonial (3 of 9) Relat... 1:15
Volledige afspeellijst weergeven (10 videoclips)

Meer weergeven

Uploading

John Deere Farm Safety Stop Motion
van dathefr 2 week geleden • 262,854 weergeven
This is a stop-motion video about the dils and dohls of farm safety, filled with 1/96 scale John Deere models. Although farm....

SaskPower Farm Safety Video
van Melchez Media & Design Inc. 4 week geleden • 2,116 weergeven
SaskPower Farm Safety Video.

Respirator Protection
European Agency for Safety and Health at Work

Online Interactive Risk Assessment

A collection of web-based tools to perform a health and safety risk assessment of your workplace

https://client.oiraproject.eu/

Only one for agriculture OiRA yet (Latvia)
ILO Agriculture Checkpoints

Android application

Install Now

Powered by: International Labour Office

The Ergonomic Checkpoints in Agriculture app allows you to create interactive checklists of ergonomic checkpoints to use in the agriculture sector. There are 100 checkpoints in total. The app also includes best practice recommendations for taking action and implementing effective safety and health improvements in an agriculture environment.

Features:
- Access detailed descriptions of checkpoints with illustrations
- Create custom checklists, prioritize checkpoints and make notes
- Date stamp and export your checklists and notes

Who is the app for?
The app is designed for use by anyone concerned with creating a better workplace in agriculture and rural settings: employers, supervisors, workers, inspectors, safety and health personnel, trainers and educators, engineers, ergonomists and designers.

The International Labour Organization is a specialized agency of the United Nations. Its main aim is to promote rights at work, encourage decent employment opportunities, enhance social protection and strengthen dialogue on work-related issues.

ILO Agriculture Checkpoints related apps:

Risk assessment tools
Whether it is a health or safety question about the work you do, the CCOHS team is dedicated to answering any questions you may have. By Internet or telephone.

OSH Answers on occupations:

Farmer, Landscaper, Pest Controller and Fumigator,

Tree Planter, Welder
education

OBJECTIVE: Physicians typically receive little continuing medical education (CME) about their role in workplace injury management as well as on workplace injuries and disease. Although new technologies may help educate physicians in these areas, careful evaluation is required, given the understudied nature of these interventions. The objective of this study is to evaluate two promising new technologies to deliver CME (online learning and videoconferencing) and to compare the effectiveness of these delivery methods to traditional CME interventions (large urban traditional conference lectures and small group local face-to-face outreach) in their impact on physician knowledge related to workplace injury management.

METHODS: This study utilized a prospective, controlled evaluation of two educational programs for BC physicians: 1) The Diagnosis and Management of Lateral Epicondylitis; and 2) Is Return-to-Work Good Medicine? Each educational module was delivered in each of four ways (Outreach Visit, Videoconference Session, Conference Lecture, Online) and physicians self-selected their participation—both in terms of topic and delivery method. Questionnaires related to knowledge as well as learner attitude and satisfaction were administered prior (pretest) and following (posttest) all educational sessions.

RESULTS: 581 physician encounters occurred as a result of the educational interventions and a significant percentage of the physicians participated in the research per se (i.e. there were 358 completed sets of pretest and posttest 'Knowledge' questionnaires). Overall the results showed that the developed training programs increased physicians' knowledge of both Lateral Epicondylitis and the physician's role in Return-to-Work planning as reflected in improved posttest performance when compared to pretest scores. Furthermore, videoconferencing and online training were at least as effective as conference lectures and instructor-led small group outreach sessions in their impact on physician knowledge.

CONCLUSIONS: Use of effective videoconferencing and online learning activities will increase physician access to quality CME related to workplace injury management and will overcome access barriers intrinsic to types of CME interventions based on instructor-student face-to-face interactions. Canada
Online OSH courses and lessons for professionals

Welcome to the Workers' Health Education website
Dive into the database of learning materials for safe and healthy work all over the world.
Join our world wide community to share your experiences. But also to exchange your own learning material that may help others in their struggle for better work. Read more...

Search materials
Learning Materials
Information materials & tools

Advanced search learning materials
Join the Forum
Advanced search information materials & tools

http://www.workershealtheducation.org
Work Improvement in Neighbourhood Development programme (WIND): training programme on safety, health and working conditions in agriculture

The Work Improvement in Neighbourhood Development (WIND) training programme provides practical responses to the special problems of agricultural safety and health. Building on the ILO’s experience gained through the WISE (Work Improvement in Small Enterprises) programme, WIND applies a participatory and action-oriented training approach, designed for rapid and sustainable improvements in farmers’ safety, health and working conditions. To ensure relevance, as well as sustainability, WIND is very much reliant on, and responsive to, farmers’ own initiatives, knowledge and resources.

Type: Book
Date issued: 01 July 2005
Authors: Kawakami, Tsuyoshi; Kawakami; Khai, Ton; Thut, Kogi; Kazutaka
Format available: viii, 130 p.
Contact(s): Mr Tsuyoshi Kawakami

Download: pdf – 5.0 MB
Work Improvement in Neighbourhood Development

Global action guide for WIND: Practical approaches for improving safety, health and working conditions in agriculture

The guide presents special features and methods of the WIND training programme, aiming at its effective application in various agricultural settings in different countries in the world. Practical step-wise guidance is provided on the development of a programme at national level as well as the organization of training workshops in a rural setting. Broad experiences gained in many countries are reflected in this guide.

Reference:
978-92-2-128467-3(print)[ISBN]
978-92-2-128468-0(webpdf)[ISBN]

Download:
pdf - 0.7 MB
Farmwise

Your essential guide to health and safety in agriculture

Date of publication: 2013
ISBN: 978 0 7176 6579 2
Series code: HSG270 (Second edition)
Price: £10.00
Download a free copy
Buy this product

There are persistently high rates of fatal incidents and work-related ill health in the agricultural industry. This guidance is designed to help everyone working in the industry achieve good standards of health and safety and reduce injuries and ill health by identifying causes, eliminating hazards and controlling risks.

This updated second edition is for employers, employees and the self-employed. It covers the management of health and safety, as well as outlining the specific risks of agricultural and horticultural work, giving easy-to-follow, practical advice to keep you safe and healthy at work.
Orientation on Health and Safety for New Agricultural Workers

New agricultural employees need to know about their health and safety responsibilities, legislation, hazards, and how to work safely.

Language: English | French

Save up to 80% with Multi-seat Licenses for e-courses. The more seats you buy the more you save! Product pricing and availability are subject to change without notice.

To order online, visit our Pricing & Ordering page.
Recently updated! In English and Spanish!

Course materials
The undergraduate course module on occupational medicine consists of four chapters.

Aims and Objectives
The objective of the EMUTOM Module is to have an agreed common approach to teaching Occupational Medicine across Europe. The intention is not to develop a specialist-training course; it is to extend awareness and relevant knowledge of work and health topics among people who need to manage or advise on these issues.

Background
Most people spend a third of their adult lives at work and "occupation" is an important determinant of human health. Each year 167,000 workers die in the EU-27 of the consequences of their work, according to estimates from the International Labour Office (2009). As many as 159,500 of these fatalities can be attributed to work-related diseases.

Module description
The course is offered at undergraduate level and introduces the basic tenets of work and health, and occupational medicine. A broad framework to recognize, diagnose and manage a variety of work-related health problems is outlined. In addition, this course focuses on promoting and maintaining the health and work ability of the worker and the working society.
Welcome to the online hub for professional education in Occupational Hygiene.

Here you can find training materials, learn how to become qualified in Occupational Hygiene or develop your career alongside an international community.

Learn more about OH
Learn more about OH training
Learn more about OH qualifications

Approved training materials

W503 Noise - Measurement and its Effects
Noise
Languages: ENG

W502 Thermal Environment
Thermal Environment
Languages: ENG

Your area

NETHERLANDS

Your National Association

Euro Safety and Health
Netherlands

Supported by

More National Associations

Search for training materials

Upcoming events

There are no upcoming events listed.
2. Stepwise development of the OHS system

Stage I: Starting level

Case 2: Agriculture in Viet nam

Agriculture is one of the most important sectors of the economy in Viet Nam, employing 58 per cent of the country’s total workforce. As in other developing countries, it includes many hazardous occupations. Farmers have many accidents and work-related diseases, especially through the use of electricity, machines and chemicals.

The Government of Viet Nam understands the importance of occupational health and made agriculture the main focus for their National Weeks on Occupational Health and Safety in 2002 and 2003.

(photographer: Martin Connelly)
Some other examples of lessons and short courses on Workers' Health Education

- Carcinogenic substances  Canada
- Making the occupational link  UK
- Musculoskeletal disorder awareness  UK
- **WIND video (agriculture)**  ILO
- Asbestos  UK
- Occupational asthma  UK
- Fitness for work and rehabilitation  UK
Conclusions and challenges

• New online information and learning materials, and related blended practices are attractive and inspiring for PHC

• Online information and use of online lessons and courses reach many more professionals and workers than ever before! Blended forms of education have many advantages

• However, online source are not always tailor-made for PHC; there are gaps

• There is a need for a tailor-made blended course for PHC professionals

• There is a need to develop an online platform for OSH in agriculture comparable with or using www.workershealtheducation.org
BOHA Project: participants and activities

- Project group BOHA
- Trainers
- Practitioners primary health care
- Agricultural workers

+ Local experts and local conditions