

The burden of occupational ill-health related to dangerous substances – an EU-OSHA perspective

Elke Schneider, European Agency for Safety and Health at Work Helsinki, 03 October 2012





This presentation

EU-OSHA perspectives

- EU-OSHA presentation
- Different statistical sources
- Issues:
 - Dermal exposure
 - Combined exposure
 - Cancer at work
 - Vulnerable groups



EU-OSHA



Established in 1996 in Bilbao, Spain



Mission:

To help improve working conditions in the European Union by collecting, analysing and communicating technical, scientific and economic information related to OSH to Community bodies, Member States, the social partners and all those involved in the field of OSH

EU-OSHA is a tripartite organisation and brings together representatives from:

- governments, employers' and workers' organisations
- as well as from the European Commission



A network of Focal Points to support the agency's activities



EU
 Candidate and potential candidate countries
 EFTA/EEA

Dangerous substances – EU-OSHA's activities

Website information online and paper publications

- Occupational exposure limits
- Good practice examples and case studies
- Links to Member state information
- Fact sheets in all official languages

EU Risk observatory:

• Expert surveys, targeted studies, e.g. on nanoparticles

Campaigns:

- European Week 2003 activities and products
- Support to SLIC campaigns on asbestos and workplace risk assessment of dangerous substances
- "Dangerous substances" mainstreamed into our campaigns (noise, construction, young workers, risk assessment, maintenance, worker participation)

Mainstreamed into other activities

- Sectors, such as cleaners, health care, construction, transport, etc...
- Groups: young, female, migrant, older workers
- Emerging risks
- statistics



EU-OSHA cooperation with ECHA

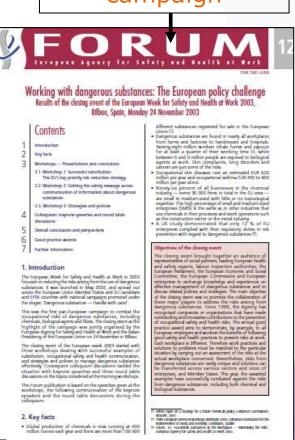
- Memorandum of understanding
- Institutional collaboration to avoid duplication and enhance complementarity e.g. following model agreements with other agencies
- Exchange of information on work programmes

COUNCIL REGULATION (EC) No 2062/94 of 18 July 1994 and amendments

The Agency shall work as closely as possible with the existing institutions, foundations, specialist bodies and programmes at Community level in order to avoid any duplication.

REACH already discussed during

EU-OSHA's 2003 campaign





CLP awareness-raising, EN version available



EU-OSHA materials

- a poster and a leaflet
- Frequently asked questions on REACH
- Frequently asked questions on CLP
- update of the Web section on dangerous substances
- Napo films

Promotion via Website and Newsletter (40,000 subscribers)

Cooperation:

- Info sheets with ETUI-IndustriAll-ECHA
- **■**DG EMPL guides on CLP and how to use information from labelling at workplaces (guide, powerpoint and notes, leaflet, pocket card)
- ACSH working party chemicals document on REACH and OSH
- **Link to ECHA CLP information**

Focal Point request:

- National information addressing the links between REACH and OSH/CLP and OSH
- •will be made available to SLIC Chemex
- Campaigns/initiatives to promote CLP/REACH or explain the links
- •Any labour inspection initiatives to access/use information from REACH



Promoting guidance on OSH, REACH and CLP

REACH 2013 - Call to action 🕺

Workers' reps in companies manufacturing, importing or using chemicals

The BEACH Regulation requires the registration of all chemical substances that are maunifactured or importad into the EU, Icaland, Norway or Lischtenstein in quantities of one tenne or more per year. It information on the hazardous properties of the chemical is unneralistic, it should be generated and the safety data sheats should be updated.

Substances already on the market have to follow specific registration deadlines, based on their volumes and on their health and service mental hazards. New substances must always be registered before they are placed on the market.

IS YOUR EMPLOYER READY?

Companies manufacturing or importing chamical substances into the EU in quantities of 100 toenes or more pay year have to register them by the second REACH deadlins of 31 May 2013.



Remember the deadlines *

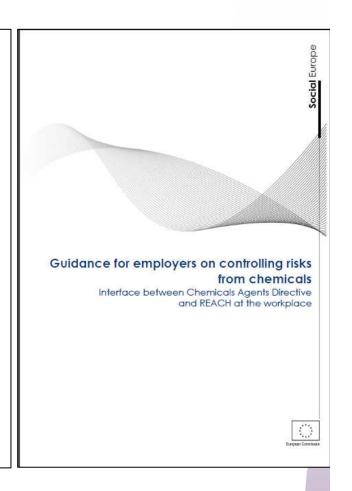
First registration 30 November 2010 ≥ 1000 tornes/year Second registration 31 May 2013 ≥ 100 tonnes/year Third registration
31 May 2018
2 1 tonne/year

Occupational Safety and Health and the Chemical Classification, Labelling and Packaging Regulation

Guidance to Help Employers and Workers to Manage the Transition to the New System



December 2011



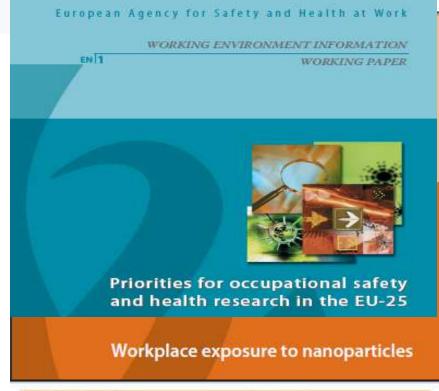


Relevant publications related to dangerous substances

Downloadable from www.osha.europa.eu

- Literature review and links collection on nanotechnologies
- Expert survey about chemical and biological emergings risks
- Member State survey on OELs for CMRs
- Literature review on noise & ototoxic substances
- Report on skin diseases and dermal exposure
- Input to FP 7 Priorities for EU research
- Risk communication on nanotechnologies
- Large-scale foresight on OSH risks linked to green jobs (2009-2012), includes nanomaterials







Expert forecast on emerging chemical risks related to occupational safety and health

There are an estimated 167,000 work related fatalities in the ELDT every year. About 193,000 are attributable to work-related desaste, of which 74,000 may be linked to workplace exposure to hazardous-substances ().

What are enemping mile

An lemorging OSH risk is any risk that is both new and Increasing.

New masons that

- . the risk was previously non-existent, or
- a long standing travels now considered to be a risk due to new scientific knowledge or public perceptions.

he risk is increasing it

. the number of huzarch leading to the risk is rising, or



Econology of BV917, Sports



Healthy Workplaces Campaign 2012-13 "Working together for risk prevention" Information materials available for you!







Strategic aims

- ▶Promotion of core message that workers and managers must work together
- ➤ Giving clear guidance to employers and workers on how to manage work-related risks
- ➤ Provision of practical guidance to promote a risk prevention culture





Promotional material

- Logo, slogan, poster
- > Campaign website www.healthy-workplaces.eu
- > Campaign Guide
- Campaign leaflet
- Good Practice Award Flyer
- NAPO DVDs and other audiovisual material
- ➤ PowerPoint presentations, internet banner, email-signature
- I-Pad application
- ➤ Give-aways
 - ➤ e.g. USB-Sticks, T-shirts, key ring with coin for supermarket troley



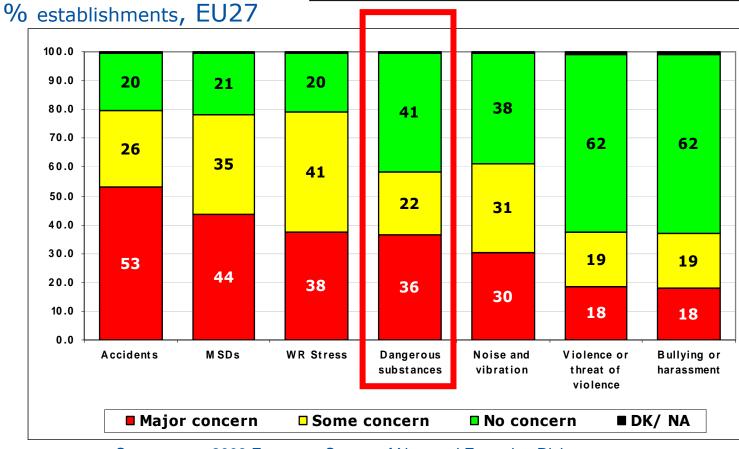


The enterprise perspective

"For each of the following issues, please tell me whether it is of major concern, some concern or no concern at all in your enterprise"

> **European Survey of Enterprises on New and Emerging Risks** (ESENER) - Managing safety and health at work

http://osha.europa.eu/en/publications/reports/esener1 osh management/



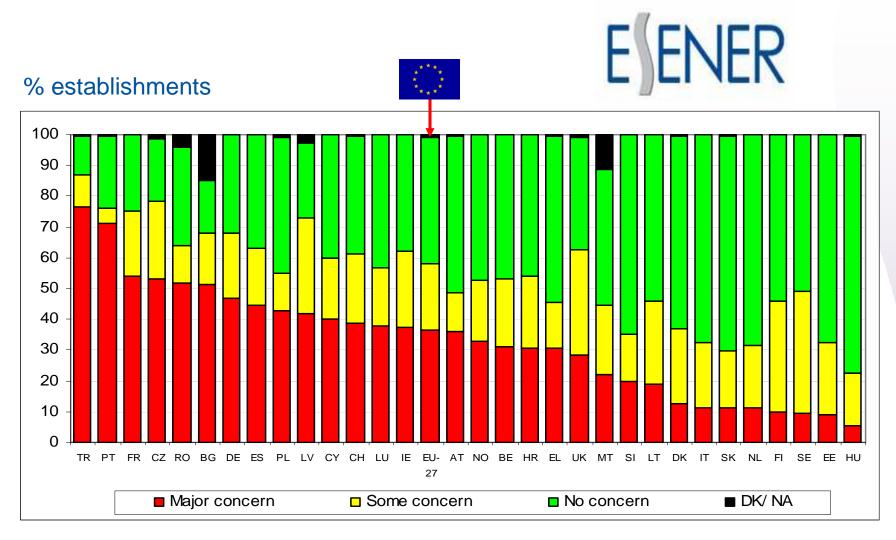
European Risk Observatory Report European Survey of Enterprises **European Survey of Enterprises** on New and Emerging Risks



2008 European Survey of New and Emerging Risks European Agency for Safety and Health at Work



"Dangerous substances: please tell me whether it is of majo some concern or no





Chemical emerging risks forecast: Poor management of chemical risks in SMEs

- 99.8% of enterprises are SMEs (EU-25, 2003)
- Employ 66% of EU private sector workforce
- 82% of reported occupational injuries in SMEs
- Fatal accident rate twice higher
- In France: CMRs risks assessed by 20% of micro enterprises, 38% of small companies, 57% of medium companies, and 67% of companies with > 200 workers.
- Lack of awareness/internal expertise/time/resources; poor contact with OSH bodies; poor worker consultation/training
- SMEs want to be told exactly how to control chemicals so as to meet all regulatory requirements
- Need to make SMEs' owners aware that OSH is worth it.



Emerging chemical risks identified in the EU-OSHA survey

BACKGROUND

- Expert survey Delphi studies
- Questionnaire for chemical and biological agents
 - Risks-substances-productsprocedures
 - Health effects-diseases
 - Supporting references
- Part of an overall assessment incl. also
 - Physical and mechanical
 - Human, social and organisational

RESULTS

Replies from 21 EU countries (19 Member States + 2 EFTA)

- Exposure to nanoparticles and ultrafine particles
- Sensitisers and allergens
- CMRs, and in particular lack of information on reprotoxicants
- Combined exposures
- Exposure in waste treatment activities
- Difficulties in managing chemical risks especially in SMEs and outsourced activities



Chemical emerging risks: Five main groups identified

- 1. Nanomaterials, ultrafine particles (e.g. diesel exhaust, metal welding fumes, silica), fibres (e.g. man-made mineral fibres)
- 2. Allergenic and sensitising substances, and in particular skin diseases and dermal exposure
- 3. Carcinogenic, mutagenic and reprotoxic substances
- 4. Sectors specifically highlighted
 - Waste treatment, home nursing/caring, cleaning and wet work
- 5. Combined exposures
 - Combined chemicals (even when each taken separately is not toxic)
 - Dangerous substances in SMEs and sub-contracted activities
 - Ototoxic substances and noise



Occupational exposure to chemicals in the EU

Still high exposures of workers (ESWC 2010):

- More workers handled infectious materials (11% vs. 9% in 2005)
- 15% either breathe in smoke, fumes, or dust, or handle dangerous chemicals –, the same proportion as 10 years before.
- nearly 1/3 exposed to loud noise, heavy work (e.g. 33% carrying heavy loads), ¼ exposed to vibrations, unchanged since 2000.
- Time pressure, tight deadlines, pace increasing
- Unfavourable working conditions tend to cluster disproportionally in some groups. Therefore policy solutions should be multidimensional

Occupational diseases in EU (EODS harmonised figures):

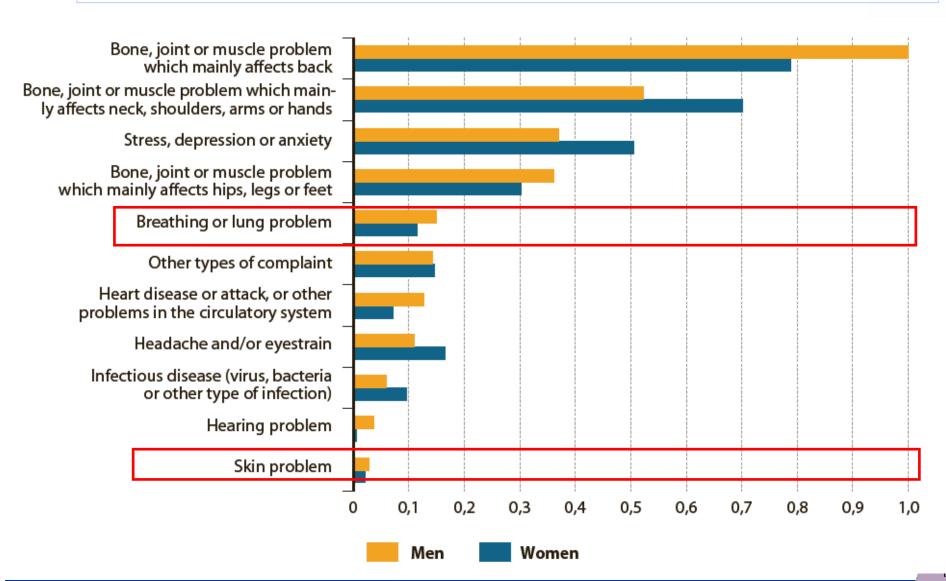
- about 50 % related to dangerous substances
- skin diseases are decreasing, but respiratory diseases still recognised for 14-15% of workers
- 5% are occupational cancers
- Big differences between genders in the distribution of occupational diseases, incl. the ones related to dangerous substances



The worker perspective – health problems

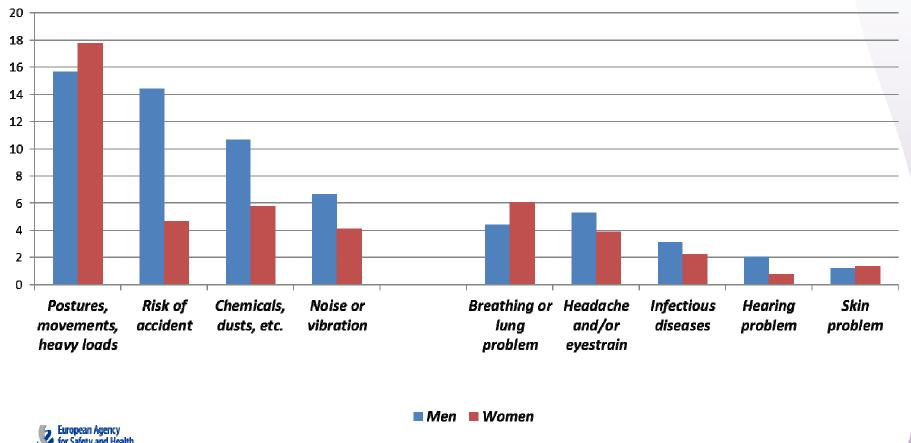
(Eurostat -LFS ad hoc module 2007)

Relative occurrence of the type of work-related health problem indicated as most serious health problem in the past 12 months in employed persons in the EU27



The Worker perspective:

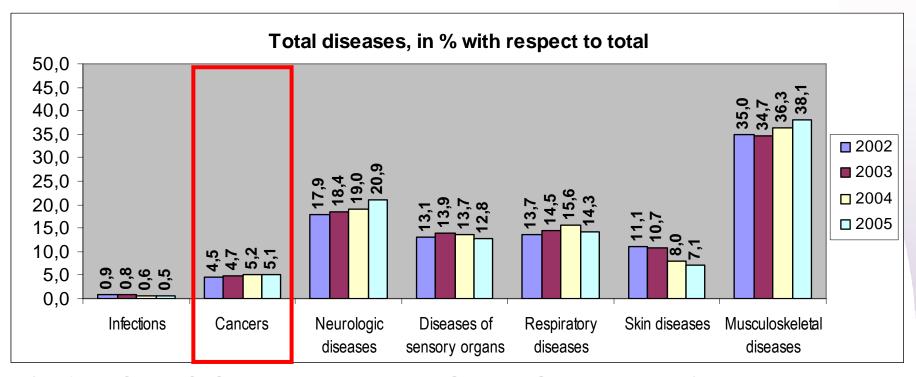
Main factor adversely affecting physical health (in %) and work-related health problems experienced in the past 12 months (LFS ad hoc module 2007)





Occupational diseases in Europe:

About 5% annually recognised occupational cancer



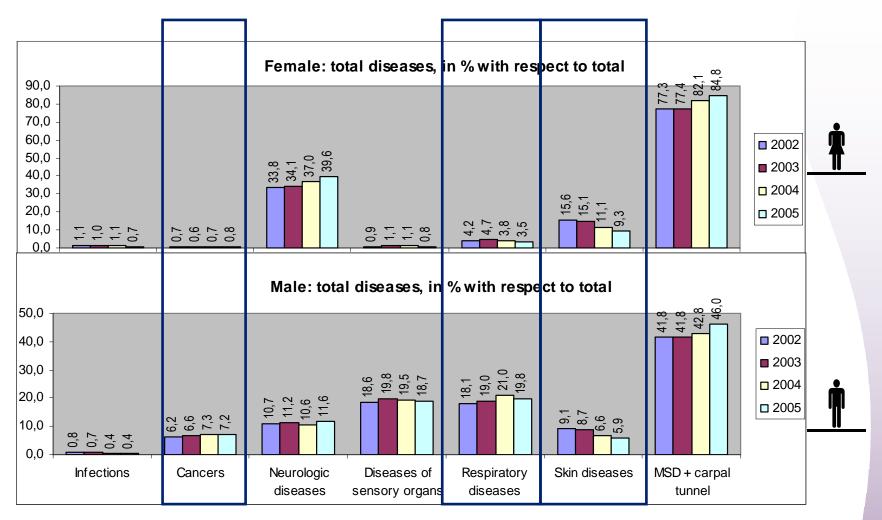
(% of total ODs, EODS 2002-2005. EU15, except Germany, Greece and Ireland)





Occupational diseases - big gender differences,

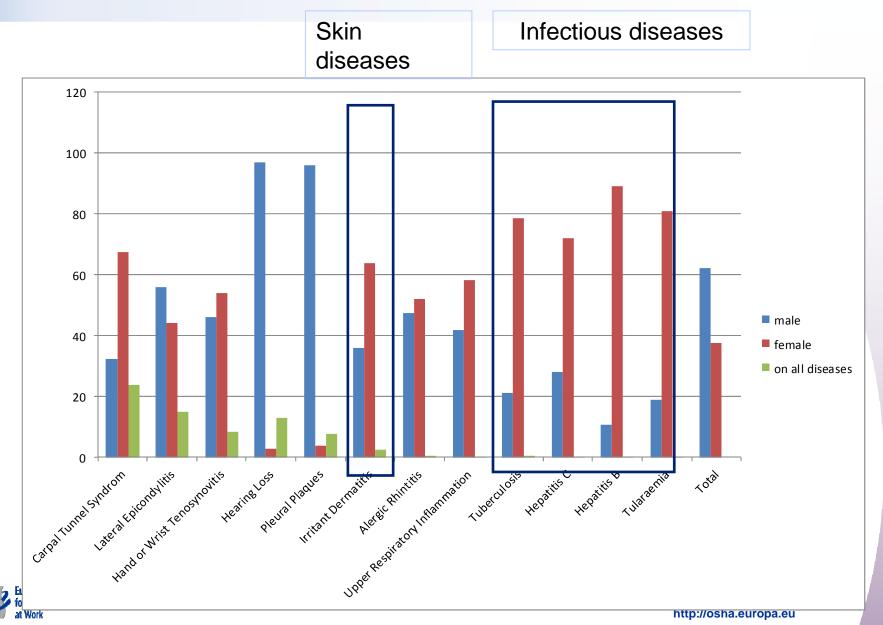
emerging diseases and those relevant to women not all reflected (e.g. cardiovascular, depression, reproductive)



(% of total ODs , EODS 2002-2005. EU15, except Germany, Greece and Ireland)



The 5 most frequent diseases and diseases which are more frequent for women 2007 (EODS-data)

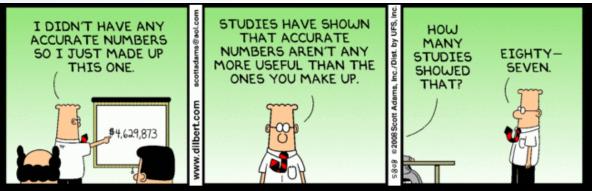


Occupational diseases - Which sectors and occupations?

- More than 80% of the occupational diseases (EODS) in:
 - workers in craft and related trades (41%),
 - plant, machine operators, assemblers (21%), and
 - workers with elementary occupations (19%).
- highest proportion in the sectors
 - nanufacturing, (38%),
 - construction (13%),
 - wholesale retail trade, repair (7%), and
 - health and social work' (5%).
- for men: 'manufacturing' and 'construction',
- for women: 'wholesale retail trade, repair', & 'health and social work'.



Estimation of work-related Fatalities – EU 27

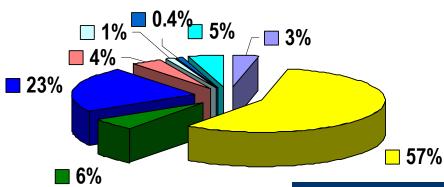


- 205 million people in employment
- 167,000 fatalities attributed to work-related accidents and diseases in EU, and within that:
- 159,000 fatalities attributed to work-related diseases
- 7,460 fatalities caused by accidents at work
- 74,000 fatalities attributed to hazardous substances at work (asbestos included)
- 95,581 work-related cancer deaths annually
 (9.6% of all cancer deaths estimated to be attributable to work)
 (2002)



Work-related Annual Deaths – EU-27

Deaths attributed to work, 167 000/year



Asbestos 31 000

- Communicable diseases
- **■** Respiratory Diseases
- **Mental Disorders**
- **■** Genitourinary system

- Cancers
- **■** Circulatory diseases
- Digestive systems diseases
- Accidents and violence

Sources: Hämäläinen P, Takala J, Saarela KL; TUT, ILO, EU-OSHA



	No.	1120 a Modernia			AND SOURCE OF THE REAL PROPERTY.	ACCUSED ON THE PARTY OF THE PAR	
		Fatal	Fatal	Accident			Deaths
		accidents	accidents,	causing 3+	ILO Estimate	ILO Estimate	caused by
ILO Estimates	Total	reported	estimate	days' absence	Work-related	Work-related	dangerous
Country	employment	(ILO 2003)	ILO 2003	Estimate 2003	diseases	mortality	substances
Austria	3,798,400	103	227	213,419	2,820	3,047	1,318
Belgium	4,070,400		84	78,974	2,893	2,977	1,353
Bulgaria	2,834,000	114	288	270,674	2,006	2,294	898
Cyprus	327,100	8	10	9,251	242	252	113
Czech Republic	4,733,000	199	245	230,128	3,648	3,893	1,706
Denmark	2,692,500		51	47,949	2,026	2,077	947
Estonia	594,300	31	38	35,849	683	721	309
Finland	2,385,000	43	49	46,068	1,862	1,911	871
France	24,630,900	661	782	735,214	19,279	20,061	9,014
Germany	36,172,000		901	847,094	28,568	29,469	13,358
Greece	4,103,900		68	63,932	3,203	3,271	1,498
Hungary	3,921,900	133	164	153,804	4,507	4,670	1,950
Ireland	1,836,000	65	80	75,167	1,333	1,413	623
Italy	22,133,000	916	991	931,709	16,987	17,978	7,943
Latvia	1,006,900	41	50	47,413	1,157	1,207	527
Lithuania	1,438,000	117	144	135,301	1,652	1,796	769
Luxembourg	293,400	16	7	6,581	139	146	65
Malta	147,042	12	15	13,877	113	128	53
Netherlands	7,935,000		104	97,778	5,949	6,053	2,782
Poland	13,617,000	515	633	595,557	10,357	10,990	4,637
Portugal	5,127,700		346	325,299	3,888	4,234	1,818
Romania	9,222,500	418	1,016	955,493	6,059	7,075	2,712
Slovakia	2,164,600	94	116	108,704	1,607	1,722	719
Slovenia	896,000	40	49	46,257	681	730	318
Spain	17,295,900	722	722	678,803	13,887	14,609	6,493
Sweden	4,234,000		56	52,650	3,163	3,219	1,479
United Kingdom	27,820,800	174	224	210,598	20,778	21,002	9,716
Total	205,431,242	4,422	7,460	7,013,545	159,485	166,945	73,989
11.50			- 175				County.

Sources: Hämäläinen P, Takala J, Saarela KL; TUT, ILO, EU-OSHA

How to measure occupational burden

- The following metrics of risk or burden have been used in these studies: relative risk (RR), attributable fraction (AF) of disease due to specific exposure, incidence of disease due to occupational exposures, life years lost due to occupational factors, disability-adjusted life years (DALY) and costs of occupational diseases and accidents.
- The DALY concept has been favoured in recent years, because it takes into account not only the lost life years but also life with disability/disease.
- However, the use of DALY has also been critisised. DALYs are poor indicators of effectiveness of public health interventions. DALYs have also been claimed to regard life of disabled people as less valuable.







Work-relatedness of common diseases

Disease	Attribution %, Overall: 6.7%	Reference: ILO, Decent Work-SafeWork, 2005
Asthma, adult males	30	Karjalainen et al. 2001
Lung cancer	25-30	Axelsson 2001
Cardiovascular disorders		
CHD	5-30	Leigh 1997
Stroke	5	Leigh 1997
Musculoskeletal disorders		
Upper extremities	15-40	EU OSHA
Low back	37	WHO 2002,
		Punnet et al. 2005
Mental health disorders	5-10	e.g. Toppinen et al. 1997
Diabetes II	+	
Breast cancer	+	

SLIC THEMATIC DAY - BRUSSELS, 22 NOVEMBER 2010





Work-relatedness of common diseases

Work-related attributable fractions of various diseases. These fractions (%) are largely based on industrial country conditions while their application was adapted to selected developing countries

Causes	Attributable fraction	Attributable fraction, men	Attributable fraction, women
Communicable diseases	8.8	4.8	32.5
Malignant neoplasms	8.4	13.8	2.2
Respiratory systems diseases	4.1	6.8	1.1
Circulatory systems diseases	12.4	14.4	6.7
Neuro-psychiatric conditions	3.4	6.6	1.8
Digestive systems diseases	2.1	2.3	1.5
Diseases of the genitourinary system	1.3	3.0	0.4

Overall work-relatedness of mortality, ILO:	6.7%
GDP loss, Australian method	5.9%
Global Burden of disease and injury in Europe, WHO	5.0%

Coverage of work-related diseases in estimates

- Most studies reviewed dealing with high prevalence diseases in Europe and globally, such as cancers and pulmonary diseases (asthma and COPD).
- Burden of other diseases with high prevalence in occupational settings like cardiovascular diseases and MSDs not adequately estimated.
- Noise-induced hearing loss, although among most common diseases, only estimated in a small number of studies. The same is true for skin diseases.
- Unexpectedly large burden for diseases of the blood and blood forming organs and certain disorders involving the immune mechanism, attributable to occupation should be seen as challenges for future research (Tuchsen et al., 2004).
- Concern should be given to the burden of reproductive disorders
- A bias towards traditional (male jobs) for which there is more (exposure and epidemiological) information available – which leaves younger people and women out of the overall picture



Vulnerable groups - Gender issues





- Exposures underestimated and awareness low
- Men and women work in different sectors, and within one sector, in different jobs
- Risk assessment of exposure to dangerous substances needs to be targeted to women
- Occupational diseases reflect male industry jobs
- Personal protective equipment to be designed for women
- Identify combined exposures typical for female jobs
- How to ensure OSH for female workers in multiple jobs (e.g. cleaning, home care) and informal work

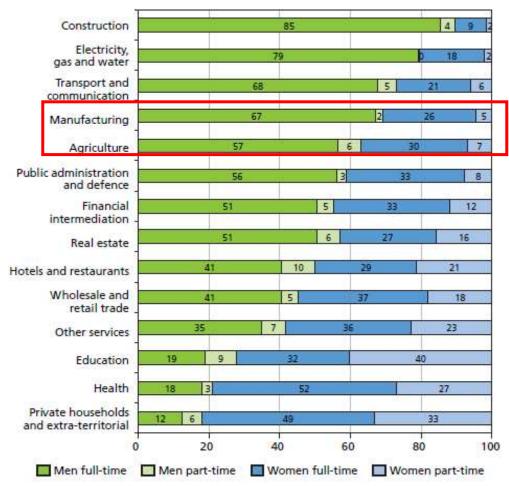


Female employment - segregation

Women concentrated in fewer sectors than men

- Women in services, men mainly ir construction, utilities, transport and manufacturing
- Much more part-time for women
- Only one in five men (22%) and one quarter of women are employed in mixed-sex occupations.
- But: high proportion of women in agriculture and manufacturing







Source: Eurofound

http://osha.europa.eu

Women's exposure to dangerous substances remains largely unexplored

Substance	Source	Circumstances	Occupation, task
Pesticides and storage chemicals	FoodstuffStoragePlantsAnimals	 Agriculture and farming Horticulture Workers who handle goods from containers and in storage areas 	Farmers, and agricultural workersGardenersRetailCleaners
Exhaust fumes Diesel exhaust and particles	Exhaust from combustion engine, incl. diesel and other engines on trucks, ships, trains and buses	 Unintentional contact when loading and unloading Maintenance Refuelling Parking areas of vehicles 	 Maintenance workers Retail workers Drivers, delivery and cargo workers Workers on mission Transport workers Emergency workers
2			

EU-OSHA publications highlighting chemical and biological risks to women Combined exposures!

- Noise in figures OSH in figures report
 - highlights exposures in food and textile manufacturing, education, health care and other service professions
- Combined exposures to noise and ototoxic substances literature review
- Transport sector OSH in figures report highlights overlooked exposures to women in general, in particular women in service tasks (restauration, cleaning)
- Factsheets on respiratory and skin sensitisers, highlight exposures to biological agents in service sectors, health care, etc.
- Reports on cleaners highlight exposures to precarious workers and lack of training and information
- Report on HORECA and efacts on Dangerous substances in HORECA highlights multiple exposures and lack of information
- Legionella and legionnaires' disease: European policies and good practices, Report and Factsheet 100



Combined exposures – Noise and ototoxic substances

- Avicenna, first to describe the harmful effect of a chemical substance on ear function almost 1,000 years ago, mercury vapor to combat head lice
- Sectors with high noise often also sectors with high exposures to ototoxicants
- Ototoxicants:
 - Pharmaceuticals: antibiotics, cytostatic drugs
 - **Solvents** (Toluene, ethylbenzene, n-propylbenzene, Styrene and methylstyrenes, Trichloroethylene, p-Xylene, n-Hexane, Carbon disulfide)
 - Asphyxiants (carbon monoxide)
 - **Nitriles** (acrylonitrile; 3,3'-Iminodipropionitrile, 3-Butenenitrile, cis-2-Pentenenitrile, cis-Crotononitrile).
 - **Metals and metal compounds** (Pb & compounds, Hg (methyl mercury chloride, mercuric sulfide), Sn-organic compounds, Ge (germanium dioxide)).
 - **Suspected**: Cd (cadmium chloride), As, Bromates (sodium and potassium bromate), tobacco smoke, halogenated hydrocarbons (PCBs, Tetrabromobisphenol A, Hexabromocyclododecane, Hexachlorobenzene)
 - Policy measures an example:
 - FR, INRS proposed lowering the OEL for styrene 50 to 30 ppm in addition to the compulsory use of hearing protectors for 8-hour noise exposure to 80 dB(A)
 - Other measures: substitution, public risk communication, monitoring and assessment tools



Combined risks - a major issue for women at work

Risk factors, conditions	Outcomes
 Exposure to biological & chemical agents Working in service sectors Working at clients premises Jobs not covered by OSH legislation Monotonous and repetitive work Multiple roles Lack of information and training Low control, autonomy and support Prolonged standing and sitting Static postures Moving loads repetitively and moving people Client and patient contact 	 Infectious diseases Skin disorders, asthma Stress and mental health problems Different accidents: slips, trips and falls, violence-related, needlestick injuries, cuts and sprains Fatigue and cognitive disorders Musculoskeletal disorders



Transport Dangerous substances

Substance

- Solvents, VOCs,
- Exhaust fumes, Diesel exhaust and particles
- Road and ambient dust
- Disinfectants
- •Textile fibres (e.g. cotton)
- Asbestos
- Fumigation and storage chemicals

Biological and infectious agents

Source

- Dangerous goods
- Cargo loads and foodstuff on long-distance transport
- Cleaning products
- Insulation materials
- •Brakes (buses, trucks)
- Waste
- Fuels

Workers

- •Cleaners, service and maintenance workers
- Catering staff
- Cargo workers
- Drivers, delivery and attendants
- •Workers who handle container goods

- Animals
- Foodstuff, perishable goods, raw materials
- •Insects, other vectors
- •Contact with passengers
- •Confinement, long-distance travelling

- •Contact with foodstuff, infected travellers and goods
- •When travelling abroad
- Contact with animals



http://osha.europa.eu



Louisville-based Bella Energy worked with EMC Engineers on this photovoltaic installation for the

- "Construction" hazards combined with electrical hazards
- Greatest risks: manufacturing
 - Involves large quantities of chemicals - many are highly toxic
 - solvents and acids for cleaning the semiconductor parts
 - gases for depositing the ultra-thin layers of material
 - metals, depending on the type of PV module being made
- Leaching hazard, including at the waste treatment stage



Hazard Classification of Chemicals Typically Used in PV Module Manufacturing

Material	DOT Hazard Classification*		
Arsenic	Polson		
Arsine	Highly Toxic Gas		
Cadmium	Polson		
Diborane	Flammable Gas		
Diethyl Sliane	Flammable Liquid		
Diethyl Zinc	Pyrophoric Liquid		
Dimethyl Zinc	Spontaneously Combustible		
Hydrochloric Acid	Corrosive Material		
Hydrofluoric Acid	Corrosive Material		
Hydrogen	Flammable Gas		
Hydrogen Selenide	Highly Toxic Gas		
Hydrogen Sulfide	Flammable Gas		
Indium	Not Regulated		
Methane	Flammable Gas		
Molybdenum Hexafluoride	Toxic and Corrosive Gas		
Oxygen	Gaseous Oxidizer		
Phosphine	Highly Toxic and Pyrophoric Gas		
Phosphorus Oxychloride	Corrosive Material		
Selenium	Polson		
Silane	Pyrophoric Gas		
Silicon Tetrafluoride	Toxic and Corrosive Gas		
Tellurium	Not Regulated		
Tertlarybutyl Arsine	Pyrophoric and Highly Toxic Liquid		
Tertiarybutyl Phosphine	Pyrophoric Liquid		
Tetramethyl Tin	Pyrophoric and Highly Toxic Liquid		
Trimethyl Indium	Pyrophoric Solid		
Trimethyl Aluminum	Pyrophoric Liquid		
Trimethyl Gallum	Pyrophoric Liquid		
Tungsten Hexafluoride	Toxic and Corrosive Gas		

^{*}DOT, Department of Transportation

Dermal exposure and skin diseases

Identification and control of risk factors very important

- Skin diseases are among the most often recognized occupational disease (EODS).
- Chemicals responsible for 80-90% of skin disorders incl. soaps, detergents, solvents, fragrances
- Sector: 1/3 of all cases 'manufacturing', followed by 'construction' (14 %), & 'health & social work' (9.5 %).
- Occupation:
 - crafts and related trades workers, followed by the elementary occupations, service workers, shop and market sales workers, and plant and machine operators and assemblers.
- No harmonised approach to disease recognition and compensation
- Contact dermatis the most common, also chemical burns, contact urticaria, photodermatitis, contact leukoderma, infectious dermatitis, skin cancer
- Not only hands other skin parts exposed to airborne susbtances or touched with dirty hands
- No validated method to assess dermal exposure; no « dermal OELs » available
- Lack of data on health effects and dose-effect relationship
- Combined exposures (incl. humidity factor), repeated exposure, exposure to diluted preparations, etc. to be considered
- Gloves not (always) a solution: occlusive, wet atmosphere inside



What is not considered – work-related diseases

- The most popular health outcomes in studies have been cancer and accidental injuries. The determinants of those outcomes are mainly mechanical factors and chemical exposures at work.
- Health problems:
 - Neurologic disorders linked to chemicals exposure
 - Tinnitus, voice disorders
 - Reproductive disorders linked to work organisation and/or chemical exposures
 - Cardiotoxicity
 - Health problems linked to combined exposure
 - Asbestos and cardiovascular diseases
 - ...
- Factors underassessed:
 - Work organisational: Issues linked to lack of control, disruption, shift work, night work
 - Multiple exposures



Carcinogens and work-related cancer - workshop

- Background:
 - Major cause of death/disease in workers;
 - Legislation in place to address carcinogenic risk
- Date: 3 4 September 2012, Berlin
- 3 topics
 - Monitoring work-related cancer
 - Vulnerable workers, work ability, rehabilitation and back-to-work
 - Example(s) of prevention initiatives and campaigns
- Aim
 - Scope further EU-OSHA activities
- Output: Workshop and online summary
- To consider:
 - Integraton with other policy areas, such as public health
 - Build on previous EU-OSHA research (emerging risks, vulnerable groups, gender, OELs CMR review, occupational burden of disease)



Work-related cancer – Workshop 3 – 4 September 2012, Berlin - preliminary conclusions

Monitoring:

- Take different approach (occupation → disease rather than agent → disease
- Use job-exposure matrices
- Use cancer registers and other sources of data

Rethink concept of vulnerable workers:

- Young workers (e.g. in maintenance)
- Migrant workers in low-skilled manual jobs lack of training and access to preventive services
- Women in service professions
- Older workers

Rethink major causes and how to assess the burden of disease:

- NOCCA study looked at socio-economic determinants and occupations via cancer incidence
- Combined exposures to several factors
- Shift work and cancer



Work-related cancer - projects

- SUMER survey (France): data collected by occupational health doctors aimed at mapping workers' exposure to chemical, physical and biological agents
- GISCOP93 survey (France): data collected by researchers aimed at recreating the work history of patients diagnosed with cancer in 3 hospitals of Paris region & improving recognition and compensation
- OCCAM project (Italy): Occupational Cancer Monitoring by automatic linkage of cancer cases (and controls) identified in Hospitals with the information available in the Social Security archives (= name of employing firm and sector in which workers are employed for each year of employment)
- CAREX: assessing number of workers exposed using job-exposure databases and employment figures



Changes in the world of work

Issues to be addressed

- Part-time work and temporary work
- Trend to multiple jobs, how to assess exposures and protect workers
- Move from industry to services
 - Statistics insufficient (e.g. restricted coverage of sectors and diseases)
- Increasing number of female workers & insufficient knowledge
- Increasing number of migrant workers & insufficient knowledge
- Subcontracting
- Informal work. e.g. in home care, cleaning, agriculture
- Move away from the one worker/one workplace concept, how to work at client's premises
- Unsolved problems regarding combined exposures, including with physical risks, and dermal exposure
- Impact of new technologies nano, green jobs, etc...



Proposals:

- an approach by sectors and occupations
- monitoring, information, prevention and awareness raising targeted at different groups – diversity approach
- an assessment of combined risks
- how to reach workers and employers in maintenance jobs
- how to reach workers and employers in outsourced work
- how to translate information to the workplace level
- share information from monitoring and practice
- exchange of information on exposures to occupational carcinogens
- unfavourable working conditions tend to cluster disproportionally in some groups. Therefore policy solutions should be multidimensional
- include diversity considerations into the design and implementation of monitoring and estimation methods
- explore the differences between Member states policies and identify what the success factors are for an effective integration of these issues





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