Biological hazards in Australian workplaces

Findings and policy implications of a survey of Australian workers' exposures to biological hazards

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Biological hazards

Organic substances that pose a threat to the health of humans and other living organisms

- Pathogenic microorganisms, viruses, toxins, spores, fungi and
- bio-active substances > Biological vectors of disease

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Worldwide, 320 000 workers die each year from communicable diseases caused by work-related exposures to biological hazards (Driscoll et al. 2005, OSHA 2007)





Biological hazards: regulations and guidance for workers in Australia

> No regulations

> National Code of Practice for work-related exposure to Hepatitis and HIV

Limited guidance material available on work health and safety authority websites

> History of communicable disease being considered within public health domain - rather than as a work health and safety issue







Biological hazards: state of knowledge in

No data on the provision of controls for biological hazards > Are workers protected?

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Biological hazards: results of exposure study

Biological material	Percentage of workers surveyed	Percentage of exposed workers
Human bodily matter Includes: blood, urine / faeces, vomit, saliva, breast milk etc	14.5%	74.9%
Animal products Includes: raw / cooked meat, offal, skins, blood, milk, eggs	3.6%	18.3%
Living animals Includes: cattle, sheep, poultry, fish, and their urine / faeces	2.3%	11.9%
Biohazard waste, sewerage & rubbish	0.7%	3.4%
Laboratory cultures Includes: animal and human tissue cultures, bacterial and cell cultures	0.5%	2.8%
Total reported exposure to biological materials	19.4%	-
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Biological hazards: results of exposure study



the longest exposure durations

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Biological hazards: results of exposure study



Policy response to biological hazards

- Workshops held around Australia on blood borne pathogens
- Workshops attended by health and allied health workers, police, construction workers, waste disposal workers, council home care workers, park rangers, work health and safety reps from mines, embalmers, dentists and dental assistants
- Workshop purpose was to discuss the possible revision of the national code of practice for blood borne diseases (Hep B and HIV), but also to establish general sentiment for codes and/or regulation of biological hazards broadly

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Biological hazards: future policy work

- Further consultation with relevant industry groups to identify issues and develop guidance materials
- Development of a biological hazards framework for future guidance, codes of practice or regulation development
 - Based on type of biological material exposure
 - Broken down by occupation / industry



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More information?

Come see my poster 22 March 10-11 am

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