HAZARDOUS CHEMICAL EXPOSURES IN AUSTRALIA: CURRENT STATUS & DIRECTION

Improving Occupational Health for West Australians Occupational Health Society of Australia (WA)

CLAYTON UTZ

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OVERVIEW

Effective regulation & reform

Keeping pace with the science

Complex toxicology & legal interplay

What does good regulation look like?

Hygienists – difficult / sophisticated role



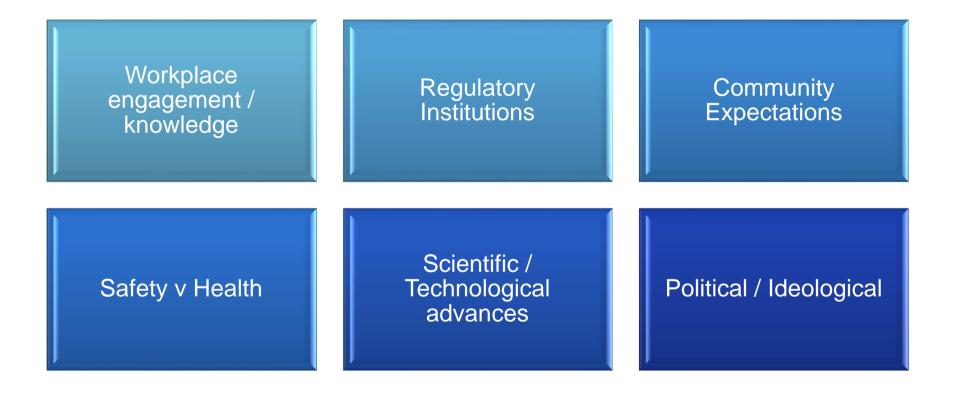
EFFECTIVE OH&S REGULATION





INFLUENCES ON GOOD REGULATION

Good regulation is dynamic (but predictably so)





OVERRIDING OH&S DUTIES

- Trend: non-prescriptive overriding duties
 - » Improved National consistency
 - » "reasonably practicable" steps
 - » "appropriate measures" / "healthy atmosphere"
 - » "acceptable level" of risk / "likelihood" & "severity" of illness
- Overriding Duty: safe working environment
 - » Reasonable steps (size / nature of operations)
 - » Prescriptive regulatory obligations
 - » Legal status of exposure limits / guidelines

TOXICOLOGY & CAUSATION

Common sense approach (not always helpful)

Exposure limits <u>not</u> definitive

"Material contribution" ("safe" level?)

"Strands in the cable"

Reasonable inferences (eg. Bradford Hill)

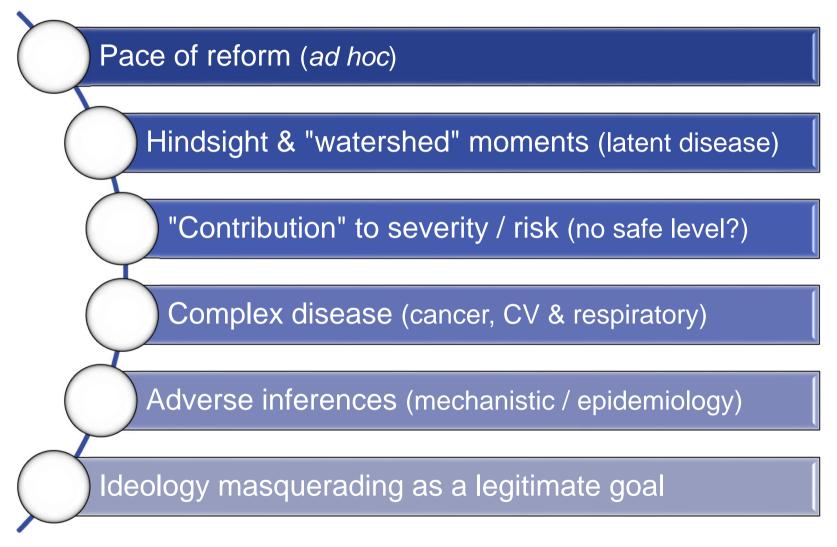


HEALTH CHALLENGES



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LEGAL CHALLENGES



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IDEOLOGY V LEGITIMATE GOALS



http://TheFunnyPlace.net



IDEOLOGY V LEGITIMATE GOALS



- Uncertain science
- Public ignorance

How on earth did sharks become the new dolphin?

Garry Linnell

COMMENT OCTOBER 7 2016

SAVE PRINT LICE

THE SCIENCE DOESN'T STAND STILL!

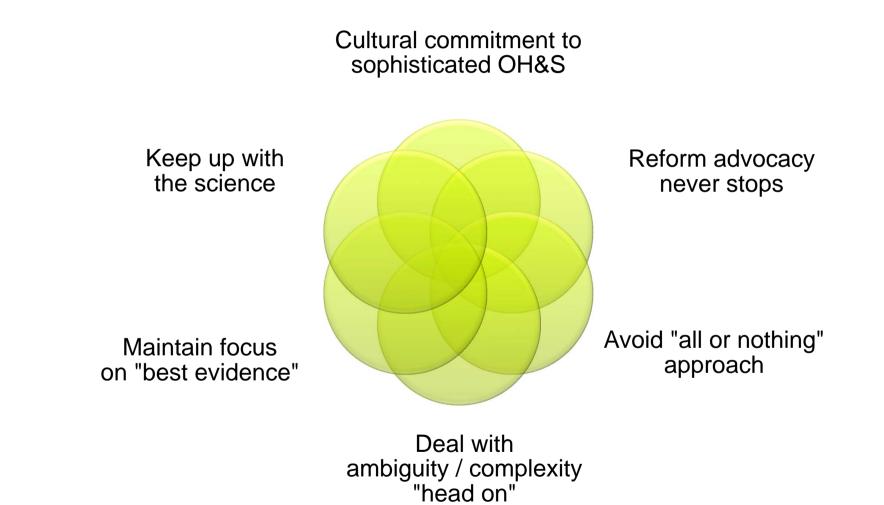
- Precautionary principle: A difficult balancing act
 - Obligation to stay ahead of the curve (or just keep up?)
 - » Science of health effects / surveillance (diesel, mixtures, nano etc)
 - » Regulatory movements elsewhere (silica)
 - » Dealing with the unknown (nanoparticles, chemical mixtures)
- Is the approach to exposure standards too narrow / slow?

EXPOSURE STANDARDS: NEW APPROACHES?

- Safe Work Australia Review
 - » Health based -v- pragmatic
 - » Mandatory -v- advisory (or both?)
- NIOSH
 - » Data hierarchy
 - » Hazard / exposure banding (endocrine disruptors / dose response?)
 - » Efficiencies / deals with uncertainty
- Industrial Chemicals Bill 2017 (NICNAS / AICIS)
- Regulation: Punitive -v- continuous improvement



KEY TAKEAWAYS



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