

### The New WM3 Guidelines

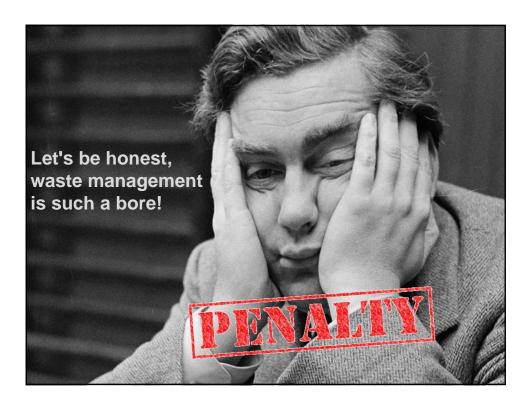
Safe, compliant management of laboratory wastes

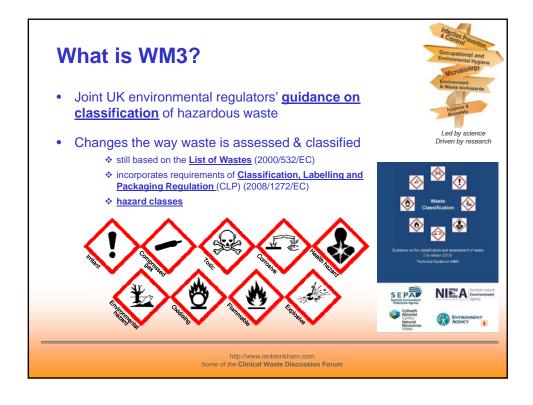
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## **Expect errors and revisions in WM3**



 WM3 introduces changes mainly associated with the Classification, Labelling & Packaging Regs (CLP)

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In use from 1 June 2015

- WM2 had errors. *J Hosp Infect* 2006;62:467-72 Expect corrections and changes in WM3
- There remains much that is <u>subjective</u>
- Interpretation of mirror entries will become much more contentious

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# What is excluded from WM3?

- material that is <u>not waste</u>
- · gaseous effluents emitted to atmosphere
- radioactive waste
- decommissioned explosives
- faecal matter, straw, other natural non-hazardous agricultural/forestry materials used in farming, forestry, or energy biomass
- waste waters but think twice before putting <u>ANYTHING</u> down the drain!
- animal by-products except those for incineration, landfill or biogas/composting
- carcasses of animals died other than by slaughter, animals killed to eradicate epizootic diseases, disposed in accordance with Regulation (EC) 774/2002
- waste from prospecting, extraction, treatment and storage of mineral resources and the working of quarries covered by Directive 2006/21/EC

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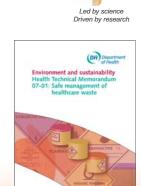
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#### **Biomedical wastes**

- Research or treatment of humans, or involving animals; <u>biomedical research</u> wastes
- Manage as <u>clinical (healthcare) waste</u> (List of Wastes 18 xx xx)
  - Packaging
  - ❖ On-site treatments?
  - Internal transport
  - Storage
  - Description/paperwork
  - Packaging & labelling
  - Collection for transport and final disposal/treatment



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# What makes hazardous waste hazardous?

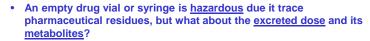
- New criteria for defining hazardous waste increase the types of materials considered a risk to human health or to the environment
- Ethanol is hazardous; a bottle of Whisky is not, but is <u>flammable</u> and <u>acutely toxic</u> and would be <u>hazardous</u> if left out for kerbside recycling and accidentally <u>consumed</u> by a child
- Healthcare wastes from home healthcare is non-hazardous, except when the <u>District Nurse</u> is present
- · What happens during storage or treatment of wastes?
- · Containers that held hazardous waste are hazardous?

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Occupational and Environmental Hypiene Microbiology Environment & Waste biohazards

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# What makes hazardous waste hazardous?





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- If prescription pharma wastes and their laboratory equivalents are hazardous, what about <u>OTC products</u>?
- · GMOs, biotech, & nanotech wastes?
- · Be very careful about what goes down the drain



"If there is any doubt, the worst case substance should be considered to be present" WM3, 2015

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#### What is "infectious"?

- Infection of evention
  Control evention
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- In the context of waste classification, the term "Infectious" is <u>undefined</u>, and <u>open to interpretation</u>
- A better definition might evolve from hospital infection control policy and practice
- Consider the <u>micro-organism</u>, the <u>dose</u>, the opportunities and the route(s) for <u>exposure</u> etc?
- Expect challenge

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### Work with your waste contractors

- Identify waste composition prospectively
- Ensure correct segregation at source
- Ensure correct containers; use with care
- Ensure correct **labelling** and **documentation**
- No excuses!

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## Is my waste hazardous?

- Advice from waste producers?
- MSDS?
- Sampling?
- Discuss with contractors?
- European Chemical Agency (ECHA) Classification & Labelling  $Inventory \ \underline{\textit{http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database}$ 
  - ❖ This information is from manufacturers, not users will it be relevant to you?



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### So, what to do? 7 Steps Waste safety, training, awareness • Work with producers identification, segregation Waste reduction; reuse; recycling packaging, labelling, storage Waste tracking; unit charging product inventory Local waste treatments? Work with contractors Identify wastes prospectively ❖ technical assistance & guidance administration & consignment notes **Waste & environment** champions? What happens to your wastes? http://www.ianblenkharn.com home of the Clinical Waste Discussion Forum

