



What is ADR?

- ADR is the handbook for the carriage of dangerous goods by road
- it is developed and published by the United Nations Economic Commission for Europe
UNECE
- there are currently 45 contracting parties to the ADR (EU-27 and 18 more)



What is ADR?

- ADR stands for European Agreement concerning the International Carriage of Dangerous Goods by Road
- it also applies to national transport
- it is updated every odd year by WP.15 of the UNECE
- www.unece.org and directive 2008/68/EC



ADR requirements on carriage of medical waste

- Medical or clinical waste is:
 - classified by ADR in Part 2
 - Chapter 2.2
 - Subsection 2.2.62



ADR requirements on carriage of medical waste

- Medical or clinical waste is attributed to:
 - Class 6.2
'Infectious substances'
 - Subdivision I3 ('Clinical waste')



ADR requirements on carriage of medical waste

- Medical or clinical waste is defined as:
 - wastes derived from the medical treatment of animals or humans or bio-research



ADR requirements on carriage of medical waste

- Medical or clinical waste is classified as:
 - Category A infectious substances (UN 2814 or UN 2900), when it contains such substances, or
 - Category B infectious substances or such which are reasonably believed to have a low probability of containing infectious substances (UN 3291)



ADR requirements on carriage of medical waste

- Medical or clinical waste is classified :
 - by a specialist with the required professional judgment, based on
 - the known medical history symptoms,
 - individual circumstances of the source, and
 - endemic local conditions



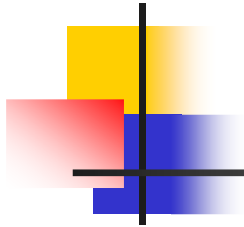
ADR requirements on carriage of medical waste

- Decontaminated medical or clinical wastes :
 - are not subject to the provisions of ADR
 - unless they meet the criteria for inclusion in another class



ADR requirements on carriage of medical waste

- Medical or clinical waste :
 - when classified as Category A infectious substances (UN 2814 or UN 2900)
 - can cause permanent disability, life-threatening or fatal disease in otherwise healthy humans = UN 2814 (or animals = UN 2900)
 - upon exposure and physical contact



- Examples are microorganisms of the Ebola virus, of cultures of Clostridium botulinum, of Hepatitis B, of the Marburg virus, of the Lassa virus and of the Variola virus, to name but a few
- Non-exhaustive list from ADR available in your conference documentation



ADR requirements on carriage of medical waste

- Medical or clinical waste :
 - when classified as Category A infectious substances (UN 2814 or UN 2900)
 - Proper shipping name for UN 2814 is 'Infectious substance, affecting humans'
 - Proper shipping name for UN 2900 is 'Infectious substance, affecting animals only'



ADR requirements on carriage of medical waste

- Medical or clinical waste :
 - when classified as Category A infectious substances (UN 2814 or UN 2900)
 - ADR also refers to numbers 18 01 03 and 18 02 02, according to the list of wastes annexed to Commission Decision 2000/532/EC



ADR requirements on carriage of medical waste

- Medical or clinical waste :
 - when classified as Category B infectious substances or such which are reasonably believed to have a low probability of containing infectious substances = UN 3291
 - proper shipping name for UN 3291 is 'Clinical waste, unspecified, n.o.s.' or '(Bio)Medical waste, n.o.s.' or 'Regulated medical waste, n.o.s.', packing group is II



ADR requirements on carriage of medical waste

- Medical or clinical waste :
 - when classified as Category B = UN 3291
 - ADR also refers to numbers 18 01 04 and 18 02 03, according to the list of wastes annexed to Commission Decision 2000/532/EC



ADR requirements on carriage of medical waste

- Medical or clinical waste is subject to:
 - the chain of co-responsibility as per ADR Chapter 1.4 (tasks of consignor, carrier, consignee, loader, packer/filler, and tank-container/portable tank operator)
 - the special packing provisions as per ADR 4.1.8, ONLY if suspected to be of Category A



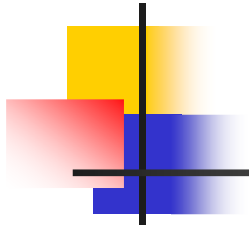
ADR requirements on carriage of medical waste

- Medical or clinical waste must be packed:
 - in conformity with Packing Instruction P 620 (UN 2814 and UN 2900), or
 - in conformity with Packing Instructions P 621, IBC 620 or LP 621 (UN 3291)



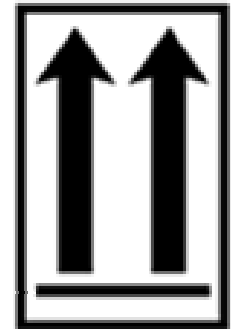
ADR requirements on carriage of medical waste

- Medical or clinical waste must be labelled:
 - with a Class 6.2 label, or
 - with a Class 6.2 AND a Class 2.2 label if refrigerated liquid nitrogen is used
 - this requirement applies to UN 2814, UN 2900 and UN 3291



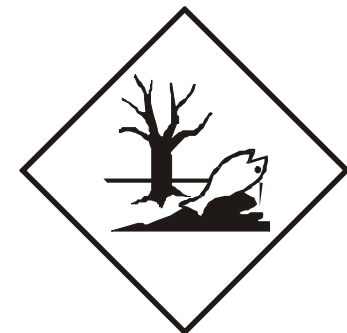
ADR requirements on carriage of medical waste

- Medical or clinical waste must also be labelled:
 - with orientation arrows on packagings containing Class 6.2 in primary packagings over 50 ml, OR on combination packagings with inner packagings containing liquids
 - this requirement applies to UN 2814, UN 2900 and UN 3291



ADR requirements on carriage of medical waste

- Medical or clinical waste may possibly also be labelled:
 - with the environmentally hazardous substance mark as of January 1st 2011
 - this requirement may apply to UN 2814 and UN 2900





ADR requirements on carriage of medical waste

- Medical or clinical waste may be carried:
 - in bulk in sheeted or closed bulk containers (UN 2814 and UN 2900, animal material only)
 - in bulk in closed bulk containers (UN 3291)
 - NO refrigerated liquid nitrogen
 - in conformity with ADR 7.3.2.6.1 (UN 2814 and UN 2900); and 7.3.2.6.2 and VV11 of 7.3.3 (UN 3291)



ADR requirements on carriage of medical waste

- Medical or clinical waste may be carried:
 - in closed tanks coded S4AH or L4BH (UN 3291 only)
 - NO refrigerated liquid nitrogen
 - in conformity with ADR 4.3.5 (TU-codes)



ADR requirements on carriage of medical waste

- Medical or clinical waste may be carried:
 - in exempted quantities of 333 l/kg per transport unit (UN 3291 only)
 - with NO tunnel restrictions (UN 3291 only)
 - but all tunnels are restricted to the transit of UN 2814 and UN 2900 since January 1st, 2010



ADR requirements on carriage of medical waste

- Medical or clinical waste may be carried:
 - in packages loaded on to closed or sheeted vehicles or containers (UN 3291 only), in conformity with ADR 7.3.3 (V-code)
 - with no special provisions for packages containing UN 2814 and UN 2900



ADR requirements on carriage of medical waste

- Medical or clinical waste may be carried:
 - only in conformity with the additional provisions for loading, unloading and handling as per ADR 7.5.11 (CV-codes)
 - in conformity with the referenced operation requirements as per ADR 8.5 (S-codes)



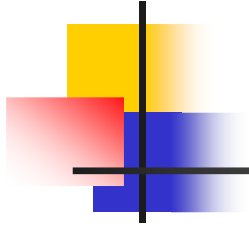
ADR requirements on carriage of medical waste

- Medical or clinical waste must be marked:
 - when carried in tanks or in bulk

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2814

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2900

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3291



THANK YOU

for your attention!



ADR requirements on carriage of medical waste

- Contact information:

- Julie POMPE (DGSA)

Société Nationale de Contrôle Technique

Tel. ++352-357214-282

Fax ++352-357214-231

Email julie.pompe@snct.lu