

Using animals in studies; a veterinary perspective



Why, what, when

- **Efficacy studies. Target species.**
- **Duration of Immunity studies**
- **Residue studies**
- **Safety studies (systemic and local reactions, adverse events reporting).**

The 3 R's

Reduce. Refine. Replace.

- **Mathematical modelling**
- **Experimental design e.g. SE 1942; different challenge doses, non-heat treated, unchallenged sentinels (not repeating control group for each question)**
- **Specialist statistical advice**
- **Better methodologies and technical advances (e.g. in analysis of vaccine candidates)**
- **Within Moredun - Experiments and Ethics Committee**

Legalisation

- **Unnecessary suffering is illegal, unacceptable and the penalties are severe**
- **Home Office control**
- **Animals (Scientific Procedures) Act 1986**
(amended 2012 to transpose European Directive 2010/63/EU)

Legalisation

What is covered and how is it enforced.....

- PPL, PIL and Establishment license
- What – species, procedure
- Where
- Who (training)
- Severity limits, end points, prevent unnecessary suffering
- Home Office Inspector
- NVS (Named Veterinary Surgeon)
- NACWO (Named Animal Care and Welfare Officer)

Further information

A Guide for licence holders on the Operation of the Animals (Scientific Procedures) Act 1986

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/116860/quick_start_guide.pdf

The Five Freedoms

- 1. Freedom from Hunger and Thirst** – by ready access to fresh water and a diet to maintain full health and vigour.
- 2. Freedom from Discomfort** – by providing an appropriate environment including shelter and a comfortable resting area.
- 3. Freedom from Pain, Injury or Disease** – by prevention or rapid diagnosis and treatment.
- 4. Freedom to Express Normal Behaviour** - by providing sufficient space, proper facilities and company of the animal's own kind.
- 5. Freedom from Fear and Distress** – by ensuring conditions and treatment which avoid mental suffering.

Reports and Legalisation

- **Animals (Scientific Procedures) Act 1986**
- **The Brambell Report
Welfare of Animals kept under Intensive
Livestock Husbandry Systems, December 1965**
- **Farm Animal Welfare Advisory Committee**
- **Animal Welfare Act 2006
(Duty of Care, Codes of Practice)**