

*Education & Training
when
Animals used for
Scientific Purposes*

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ARRP Workshop April 2010 ...

- Need to maintain informed workforce
- Attainment of competency mandatory
- Education resources need to meet international benchmark, evidence-based, peer reviewed and accessible
- Assessment for content and effective delivery
- Both on-line and face to face delivery – promote reflective learning
- Resources needed - skills and knowledge

International Guidelines ...

- Institute for Laboratory Animal Science (ILAR)
- Canadian Council for Animal Care (CCAC)
- Federation of European Laboratory Animal Science Associations (FELASA)

ICLAS Guidelines (2010)

- A **core curriculum** should be adopted which is based on the key elements of establishing a culture of responsible animal use.
- This core emphasises the responsibilities of scientists, their relationship with the AEC, requirements for protocol compliance and benefits of a team approach.
- Supplementary material – species, procedure and institutional needs.

ICLAS – Core Components

- Laws, regulations, guidelines
- Roles and responsibilities
- Ethical issues
- 3Rs
- Experimental design - non-experimental variables
- Recognition of pain and distress – anaesthesia, analgesia, pain management, humane endpoints, effects on data

ICLAS – Core Components ...

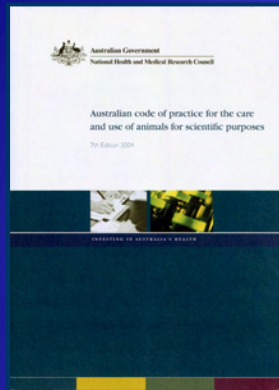
- Euthanasia – theory of humane death and common methods
- Principles of animal care – non-experimental variables
- Aseptic technique
- Common procedures
- OH & S

ICLAS Guidelines

1. All personnel involved should be adequately **educated, trained and qualified** in the principles of LAS and the ethical considerations of animal use and should have demonstrated knowledge and expertise in the specific animal procedures proposed and species used.
2. Training programs should be tailored to the specific needs of the animal used and the institution.

ICLAS Guidelines

3. Emphasis on new scientists.
4. Need for continuing education
5. All animal users should receive adequate training prior to working with animals.
6. Training documented.
7. Assessment of skills and knowledge of individuals and of effectiveness of program.
8. Institutional responsibility to resource



Ethical Framework

Guiding Principles

The Code emphasises the **responsibilities** of all those involved - this embraces a **duty of care**, a genuine commitment to the welfare of the animals, a respect for the contribution they make and a desire to promote the animal's well-being.



Institutional responsibility to ensure investigators and teachers are aware of their responsibilities, including by the provision of educational programs, continuing training and workshops

Students... ethical and legal responsibilities as well as the appropriate methods for the care and use of animals.

Australian Code of Practice

- Primacy of investigator's responsibility
- Role of AEC to verify claims & monitor approvals
- Code establishes principles - evidence-based implementation
- All personnel involved, their role and details of experience and training to perform specific procedures
- ? Necessary skills and knowledge

Outcomes:

- ◆ An awareness of the ethical issues
- ◆ An understanding of personal and institutional responsibilities and accountability
- ◆ An understanding of the principles governing ethical review and procedures for the approval and monitoring of animal use
- ◆ An understanding of the importance of good animal welfare to both the ethical use of animals and to scientific outcomes
- ◆ An understanding of the importance of evidence based practice to achieving animal welfare outcomes.

Education Working Group

- Responsibility for oversight of work plan
- On-line module – Code specific –
 - (1) support institutional programs,
 - (2) resource of current and relevant information
- Scope of content - core topics to address 'common' issues interface with elective species-specific
- Content experts – ethics, lab animals, wildlife & farm animals
- Expert reference group – review content, web-design and functionality

Common Procedures - Review available resources: species, content, format, availability

- Handling & restraint
- Sexing
- Administration of substances
- Blood collection
- Monitoring wellbeing /pain/distress
- Normal vs pain behaviours
- Anaesthesia
- Euthanasia
- Post mortem examination

On-line resources

- AALAS Learning Library
www.aalaslearninglibrary.org
- Procedures with Care
www.procedureswithcare.org.uk
- Assessing the Health & Welfare of Laboratory Animals
www.ahwla.org.uk
- Guidelines for the Recognition & Assessment of Animal Pain
www.link.vet.ad.ac.uk/animalpain/

CD ROM:

- Office of Laboratory Animal Welfare (NIH)
<http://grants.nih.gov/grants/olaw>
Basic Bi methodology /Survival Rodent Surgery
- Institute of Animal Technology
www.iat.org.uk
Euthanasia /Handle with Care
- American College of Laboratory Animal Medicine
www.aclam.org