IACUC 101 HISTORICAL PERSPECTIVES Monte Matthews Director, Animal Welfare Services, University of Oregon Charles R. McCarthy, Ph.D. Ex-Director, Office for Protection of Research Risks (OPRR) John Miller, D.V.M. Ex-Director. Animal Welfare Division, OPRR February 8, 2024

GOALS: TAKE HOME MESSAGES

• Three major participants

- Scientists
- Government
- Public

2

4

- Debunk myth of rules, regs, policies driven by animal rights
- People care about humane use of animals

PARTICIPANTS IN THE PROCESS

Government

1

- Congress
 - USDA—USDA enforces
 - HHS: PHS (NIH, FDA, CDC)—OLAW enforces
- Scientists
 - Animal Care Panel
 - AALAS
 - AAALAC
 - ILAR
- Public

3

- Animal-centric organizations
- Health care consumers

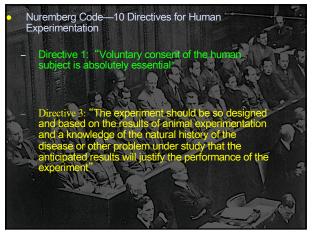
Setting the Stage:

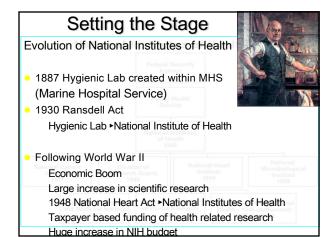
- Mid 1800s on, increase use of animals in medical education
- Claude Bernard, "Introduction to the Study of Experimental Medicine" 1865
- Increase use of rats and mice in early 1900s
- British Cruelty to Animals Act of 1876
- Establishment of several Antivivisection Societies:
 - 1867 Pennsylvania Society for the Prevention of Cruelty to Animals
 - 1883 American Antivivisection Society

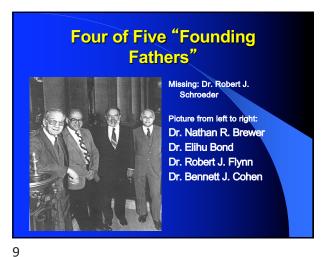
Setting the Stage:

- Nazi Germany
 - Focus on natural healing, organic living
 - Adoption of eugenics ("good birth")
 - Sterilization clinics
 - Mass murder of handicapped, mentally ill,
 - Banned vivisection on animals, but experiments on Jews OK

Pic. 5.2 "Hell Coings" The life animals of Cornenty subtiling Remains
Coings for this order having a vivocation. The Each humanchal in August of
Organization and the Control of the Contr







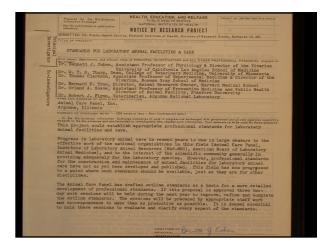
SCIENTISTS' INVOLVEMENT 1950 Animal Care Panel (ACP) **1951** Proceedings of the Animal Care Panel 1952 Institute of Laboratory Animal Resources under National Research Council 1960 Animal Facilities Certification Committee (Board) 1963 Guide for Laboratory Animal Facilities and Care 1965 AFCB ⇒ AAALAC incorporated 1965 2nd edition of *Guide* (1968, 1972, 1978, 1985, 1996 8th edition 2011) ACP → AALAS **1967**

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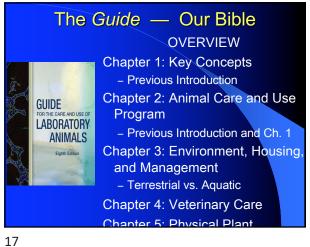




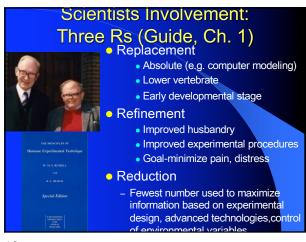




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SCIENTISTS' INVOLVEMENT 1950 Animal Care Panel (ACP) 1951 Proceedings of the Animal Care Panel 1952 Institute of Laboratory Animal Resources 1959 The Principles of Humane Experimental Technique by W.M.S. Russell and R.L. Burch **1960** Animal Facilities Certification Committee (Board) 1963 Guide for Laboratory Animal Facilities and Care 1965 AFCB ⇒ AAALAC incorporated 1965 2nd edition of *Guide* (1968, 1972, 1978, 1985, 1996 8th edition 2011) **1967** ACP 2 AALAS



GOVERNMENT'S INVOLVEMENT

1962 NIH Contract - first *Guide*1966 Laboratory Animal Welfare Act
1970 LAWA Animal Welfare Act
(1976, 1985, 1990, 2002, 2007)

1971 NIH *Policy*1973 Public Health Service Policy (1979, 1986, 2002 and 2015 revised)

1985 PHS Act (Health Research Extension Act)

19 20

1966 Laboratory Animal Welfare Act	
 Focus on preventing theft of dogs and cats Registration limited facilities with dogs/cats Holding areas only Only records of acquisition required Developed 8 areas of minimum standards: 	
HousingFeedingWateringSanitation	-Shelter -Separation of species -Ventilation -Adequate vet care

1970 Animal Welfare Act
LAWA changed to AWA
Extension into the laboratory
Report number of animals by pain category
Require appropriate use of anesthetics
Include all warm blooded species except...

21 22

1985 Animal Welfare Act Amendments

- Establishment of IACUC
- Assign responsibility to Institutional Official
- Review of protocols (USDA "activity")
- Semiannual program review & inspections
- Search for alternatives to painful procedures
- Personnel qualifications
- Environmental enrichment for NHPs
- Exercise for dogs

FARM SECURITY AND RURAL INVESTMENT
ACT OF 2002
Title X Miscellaneous
Subtitle D—Animal Welfare

• SEC. 10301. DEFINITION OF ANIMAL
UNDER THE ANIMAL WELFARE ACT.
Section 2(g) of the Animal Welfare Act (7
U.S.C. 2132(g)) is amended in the first
sentence by striking 'excludes horses not
used for research purposes and' and
inserting the following: 'excludes (1)birds,
rats of the genus Rattus, and mice of the
genus Mus, bred for use in research, (2)
horses not used for research purposes, and
(3)'.

1971 NIH Policy Institution had to have Assurance - AAALAC - Local Committee Annual Inspections Compliance with AWA • Follow Guide

1973 Public Health Service (PHS) Policy

- Include animals for research, teaching, education, demonstration
- Continue accept AAALAC instead of **IACUC**
- Still no requirement for protocol review

25 26

1979 PHS Policy Highlights

- IACUC or "Committee" now required for program oversight
- Assurance required before funding received
- All live vertebrates
- Annual reports required
 - Recommend protocol review

1985/86 PHS Policy

- Health Research Extension Act-Nov. 20,1985
- More detailed Assurance
- IO ultimately responsible
- CEO appoints IACUC members
- Minimum of 5 IACUC members:
 - DVM program authority
 - One practicing scientist One NAM
- Protocol Review Semiannual reports of program review
- Detailed training program description

27 28

U.S. Government Principles

- U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training
- Developed in 1983 by Interagency Research Animal Committee (IRAC)
- Incorporated into PHS Policy in 1986; endorsed by Guide
- Nine basic and elegant principles
- PHS Policy—p.4-5; Guide—App. B p.199-200

 Basis for ethical discussion U.S. Government Principles...

ne development of knowledge necessary for the improvement of the health and well-being of humans as well as other nais requires in vivo experimentation with a wide variety of animal species. Whenever U.S. Government agencies alor prequirements for testing, research, or training procedures involving the use of vertebrate animals, the following pipes shall be considered; and whenever these agencies actually perform or sponsor such procedures, the responsible tutional Official shall ensure that these principles are adhered to:

1. The transportation, care, and use of animals should be inacordance with the Animal Welfare Act (7 U.S.C. 2131 eq.) and other applicable Federal laws, guidelines, and policies.

1. Procedures involving animals should be designed and performed with due consideration of their relevance to human inimal health, the advancement of knowledge, or the good of society.

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2. Proper use of animals, including the avoidance or minimization of discomfort, distress, and pain when consistent side to exhibit available to a significant practices, is imperative. Unless the contrary is established, investigators should consider that educers that cause pain or distress in human beings may cause pain or distress and ben animals.

2. Procedures with animals that may cause more than momentary or slight pain or distress should be performed with reprirate sedation, analgesia, or anesthesia. Surgicial or other painful procedures should be performed with reprirate sedation, analgesia, or anesthesia. Surgicial or other painful procedures when the animals.

2. Procedures with animals that may cause more than momentary or slight pain or distress should be performed with reprirate sedation, analgesia, or anesthesia. Surgicial or other painful procedures should be performed with reprirate sedation, feeting, and contribute to their health a

- laboratory animals.

 Where exceptions are required in relation to the provisions of these Principles, the decisions should not rest with the against directly concerned but should be made, with due regard to Principle II, by an appropriate review group such institutional animal care and use committee. Such exceptions should not be made solely for the purposes of teaching.

Principle IV: Questions for Discussion

- What is the impact of this principle?
- Share examples of the utilization of this principle.

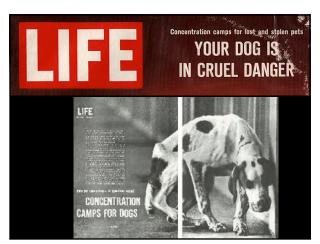
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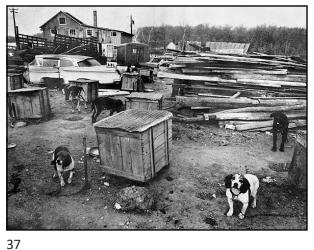


PUBLIC'S INVOLVEMENT 1962 Silent Spring, by Rachel Carson **1966** LIFE magazine article **1969** Greenpeace founded Animal Liberation, by Peter Singer **1975** The "Silver Spring Monkeys" **1981** 1984 University of Pennsylvania head injury studies

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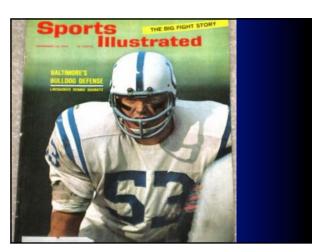




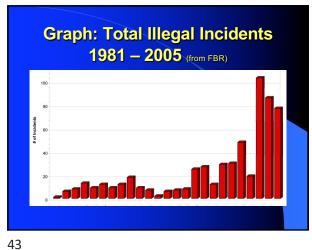


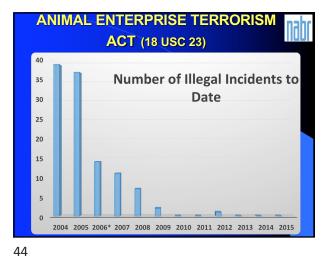


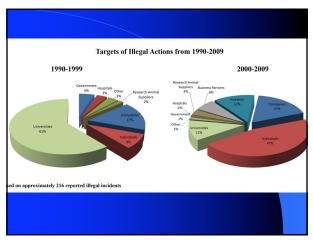




PUBLIC'S INVOLVEMENT 1962 Silent Spring, by Rachel Carson LIFE magazine article **1966** Greenpeace founded **1969** Animal Liberation, by Peter Singer **1975** The "Silver Spring Monkeys" **1981** University of Pennsylvania head **1983** injury, "whiplash" studies





















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