CONTROVERSIES AND ETHICS OF ANIMAL TESTING:
EMERGING ISSUES AND NEW CHALLENGES

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ANIMAL TESTING
HIGHLY CONTROVERSIAL ISSUE
UNIQUE TO MODERN SCIENCE

FAVOUR
• ACADEMICIANS
• RESEARCHERS
• CONTROVERSIES

AGAINST
• ANIMAL RIGHTS ACTIVISTS
• ETHICS
ACADEMICIANS & RESEARCHERS

- SCIENTIFIC BREAKTHROUGHS
- ANTIBIOTICS, DRUGS, VACCINES
- MEDICAL PROCEDURES, TOXICOLOGY
- XENO TRANSPANTATION OF ORGANS

SAVED HUMAN LIVES
ANIMAL RIGHTS ACTIVISTS

- REPEATED PROTESTS
- DECISION MAKING ABILITY
- AVOID / MINIMIZE EXPERIMENTATION
- CONSEQUENTIALIST JUSTIFICATION

(comparing the moral consequences of an experiment doing or not doing)
CONTROVERSIES
ETHICS
EMERGING ISSUES
NEW CHALLENGES
CONTROVERSIES

• PAIN, SUFFERING, DISCOMFORT

• PAIN RELIEVER MAY INTERACT WITH DRUG

• IRRATIONAL ABUSE

• UNNECESSARY REPLICATIONS

• INDISCRIMINATE NUMBER
ETHICS

• MORAL STATUS - (HUMANS = ANIMALS)

• SPECIESISM (like racism) (inflicting pain on human/animal is equally wrong)

• ETHICAL SELF-EXAMINATION
  (self-analysis of one's own personal and scientific motives)

• ETHICAL REVIEWS & AUDIT
EMERGING ISSUES

- METABOLIC TESTS
- TOXICITY TESTS
- EFFICACY TESTS
- CARCINOGENIC TESTS
- LD 50 TOXICITY TEST BANNED
EMERGING ISSUES

• PREVENTION OF CRUELTY TO ANIMALS ACT, 1960

• WILDLIFE PROTECTION ACT, 1972

• UGC GUIDELINES 2011 DISCONTINUATION OF DISSECTION AND EXPERIMENTS ON LIVE ANIMALS IN A PHASED MANNER

• MOEF GUIDELINES 2012

• NGO’S - PFA, PETA, SPCA etc
NEW CHALLENGES

- ALTERNATE MODES FOR DISSECTION AND EXPERIMENTATION
- DIGITAL / PLASTINATED SPECIMENS
- DEVELOPMENT OF ALTERNATIVES TO USE OF ANIMALS IN PG EDUCATION
4 R’s

RUSSELL & BURCH - 1959

- REDUCTION
- REFINEMENT
- REPLACEMENT
- REHABILITATION
ALTERNATIVES

• CDs, COMPUTER SIMULATIONS,
  MANNEKIN / MODEL, INVITRO METHODS

• AUTOPSY, EPIDEMIOLOGICAL STUDIES,
  TISSUE CULTURES, IN SILICO TESTS

• COMPUTERS ARE UNABLE TO MODEL
  ALL INTERACTIONS MAKING ANIMAL
  RESEARCH NECESSARY IN MANY AREAS

KISHORE
REMEDIES

- ONLY MEDICINAL PURPOSES
- NO COSMETICS TESTING
- JUSTIFIED CIRCUMSTANCES
- UNNECESSORY SACRIFICE
- BEST EXPERIMENTAL DESIGNS
- EUTHANASIA
COSMETICS

• TESTING BANNED IN EUROPE
• LEAPING BUNNY LOGO

OTHER AREAS

• LEATHER Vs JUTE BAGS
• NON VEG / VEG / VEGAN
• FOCUSED CRITICAL THINKING
• IS AND WILL BE AN ONGOING PROCESS
• CHANGING ATTITUDES OF PEOPLE
• MORAL STRESS - EUTHANASIA
• CLEAR ALL ETHICAL DILEMMAS
• BROADER PERSPECTIVE
• HOLISTIC APPROACH
• **SCIENTIFIC BASIS**

• **ENFORCEMENT OF LAWS, REGULATIONS**

• **STRICT ANIMAL ETHICS COMMITTEES**

• **NON SCIENTIFIC SOCIAL MEMBER**

• **TRANSPARENCY**
CONCLUSION

• NECESSARY EVIL

• INDISPENSIBLE & INEVITABLE

• HELPFUL FOR FURTHERING MEDICAL SCIENCE
• INITIALLY ON HUMANS
• HUMAN RIGHTS ACTIVISTS
• ANIMALS
• ANIMAL RIGHTS ACTIVISTS
• HUMANS AGAIN (WITH CONSENT)