

CPCSEA, OBJECTIVES AND FUNCTIONS



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CPCSEA



- Committee for the **P**urpose of **C**ontrol and **S**upervision of **E**xperiments on **A**nimals (CPCSEA)
- Statutory body formed by the Act of the Indian Parliament under the **Prevention of Cruelty to Animals Act, 1960**
- Formed in **1964**
- Revived in **1998**, under the committed chairpersonship of Meneka Gandhi
- Head quarters at **New Delhi**
- Includes various guidelines and sub committees

CPCSEA



- National level expert committee to scrutinize and approve the research projects conducted using animals.
- Introduced a national “Good Laboratory Practice” document
- Introduced the credo of **3R principles**
- 2004 – CPCSEA officially accepts the concept of the 4th R

“investigators have a moral responsibility to take care of laboratory animals after use”

CPCSEA



This committee is composed of

- ✓ Members of the scientific community
- ✓ Regulatory authorities
- ✓ Animal activists.
- ✓ The committee has 10 experts and 3 official members

Ministry of
Environment and
Forests
(Animal welfare)

CPCSEA

IAEC

IBSC/IBC

IAEC: Institutional animals ethical committee

IBSC/IBC: Institutional bioscience ethical committee

CPCSEA and IAEC



- ❖ Role of CPCSEA is to monitor animal experiments through ethics committees set up in institutions(IAEC)
- ❖ CPCSEA Nominee –important link between CPCSEA and IAEC
- ❖ IAEC scrutinize all project proposals for experimentation on animals.
- ✓ For small animals- give the final approval
- ✓ For large animals- make its recommendation to SCLA
(**Sub-Committee on Large Animals**)

IAEC composition

- ▣ --**A Biological Scientist.**
 - ▣ --**Two Scientists from different bio disciplines.**
 - ▣ --**A Veterinarian involved in care of Animals.**
 - ▣ --**Scientist In-Charge of Animal House Facility.**
- The Chairman (preferably Head of the Institution / Department) and Member Secretary need to be nominated from the above five members.
 - Other members : Main Nominee, Link Nominee, Scientist from outside and Socially Aware Nominee nominated by CPCSEA.
 - The validity of IAEC is for 3 years.

CPCSEA



Goals:

- To promote the humane care of animals used in research.
- To provide specifications that will enhance animals well being and quality of research.

Objective:

- Effective functioning of Institutional animal ethical committee

Main Activities



- ❖ Registration of establishments
 - ✓ for experiments on animals
 - ✓ for Breeding of animals
- ❖ Approval of Animal House Facilities
- ❖ Permission of Committee for Conducting Experiments

CPCSEA guidelines



Veterinary care:

- ✓ Provided by a veterinarian
- ✓ Daily observation of animals adopted

Quarantine, Stabilization and Separation:

- ✓ **Quarantine** period for small lab animals : one wk to one mth-
large lab animals : up to 6 weeks
- ✓ Physiologic, psychological and nutritional **stabilization** required
- ✓ Physical **separation** of animals by species to prevent anxiety and behavioral changes

Animal procurement and transportation



- ❖ Procurement of animals done from established commercial animal vendors.
- ❖ During transport, stress avoided by:
 - ✓ Use of transport containers (cages or crates) of appropriate size
 - ✓ Permissible number of animals accommodated in each container



Experimental area:

- Experiments should be carried out in a separate area away from the place where they are housed.
- Separate functional areas for
 - ✓ surgical support
 - ✓ treatment of animals
 - ✓ post operative and intensive care

Physical facilities



Building materials	Durable, moisture- proof, fire resistant and pest resistant
Corridor(s)	Wide enough to facilitate the movement of personnel and equipment
Animal room doors	Should fit properly , should not be rust
Exterior windows	Windows are not recommended
Floors	Smooth, moisture proof , nonabsorbent, skid proof floors
Drains	Proper drainage, Floors should be sloped
Storage areas	Designed for feed, bedding, cages and materials not in use.

Environment



Temperature
Humidity control

between 18-29° C
range of 30-70%

Ventilation

designed with 12-15 air cycles per hour.

Power and lighting

System should be safe
Fluorescent lights are efficient
Emergency backup needed

Noise control

noise free environment
Concrete walls are more effective

Animal husbandry



CAGING OR HOUSING SYSTEM

The housing system should provide



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- ❖ Adequate space, freedom of movement, normal postural adjustments
- ❖ Comfortable environment
- ❖ Easy access to food and water
- ❖ Adequate ventilation

Food and water



- Food should be palatable, non-contaminated, and nutritionally adequate

Feed should contain

- moisture
- crude fibre, crude protein and crude fat
- essential bits, minerals, carbohydrates

Feed should not contain

- insecticides, hormones, antibiotics, fumigants or potential toxicants.
- heavy metals

- Should have continuous access to fresh, potable uncontaminated drinking water

Bedding



- Should be absorbent, free from toxic chemicals
- Should be removed and replaced periodically with fresh materials
- Ideal to change the bedding twice a week



Sanitation and cleanliness



- Animal rooms, corridors, storage spaces, and other areas should be cleaned with appropriate detergents and disinfectants
- Wastes should be removed regularly and frequently (waste disposal – incineration)
- Cages should be sanitized before animals are placed in them



- Proper maintenance of records must
- Should maintain the SOP's
- Proper selection of animal facility staff required
- **Anaesthesia** should be complete and without any pain
- **Euthanasia** :done when animal required to be sacrificed or termination of an experiment or otherwise for ethical reasons



Thank you