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Diploma in Pharmacy 2nd Year

Pharmacology

Experiment

To study the laboratory animal Guinea Pig

Aim:

To study the laboratory animal Guinea Pig

Reference :

‘ Dr. P.Mudagal Manjunatha , “Practical Manual of Pharmacology”
Published by Nirali Prakashan, Page no 11 - 14

Theory :

Description

- **Rectal Temperature:** 37.6-38.9 Specify Unit C or F
- **Normal Respiration Rate:** 80 per minute
- **Pulse Rate:** 150 per minute
- **Gestation Period:** 59-72 days.
- **Weaning Age:** 14-21 days
- **Mating Age:** 12-30 weeks
- **Litters:** 3 yearly; average litter. 3
- **Room Temperature:** 18.5-21
- **Humidity:** 45%
- **Weight-Weaning:** 120gm, adult: 200-1000gm



Housing

- Stock pens should be about 4x6ft and 1 foot 8 inch height
- One square foot of space should be allowed for each animal
- Not more than 25 animals should be kept in any one pen.
- Galvanised iron cages should be used and sterilised.
- A convenient size of 14x9x5 in fitting in a tray 1.5 in deep

Feeding

- ✚ A diet in pelleted form should be provided in preference to mashes.
- ✚ Diet of Bruce and Parks (1947) contains balanced proportions of protein, fats and carbohydrate with added vitamins salt and trace element.
- ✚ Crushed cats 2 part+ Broken bran 1 part.
- ✚ Cabbage and hay should be supplemented.
- ✚ Fish or meat meal should be added.

Different Strains of Guinea Pig

- Skinny pig
- Abyssinian guinea pig
- Werewolf skinny pig
- Teddy guinea pig
- Texel guinea Pig
- White-crested guinea pig
- Peruvian Satin guinea pig



Handling

- ◇ These are very humble rodents and can be easily handled because of their docile nature
- ◇ One hand should be placed across the animal back with the thumb behind the shoulder and the other fingers should be placed forward on the opposite side
- ◇ The animal should be lifted gently and its weight should be supported with the other hand's palm placed uppermost under the hind quarters.



Common Diseases of Guinea Pig

- ▲ Pseudo tuberculosis (acute or chronic)
- ▲ Abscesses in lymphatic glands
- ▲ Respiratory tract infections
- ▲ Intestinal infections
- ▲ Protozoan disease (Coccidiosis, Toxoplasmosis)
- ▲ Viral disease.

Experimental Procedures Guinea Pig

- Anaesthesia (Pentobarbitone sodium 28mg/kg body weight)
- Subcutaneous inoculation
- Intracutaneous inoculation
- Intraperitoneal inoculation
- Collection of blood.

Applications

- ✓ Evaluation of bronchodilators
- ✓ Anaphylactic and immunological studies
- ✓ Study of histamine and antihistamines
- ✓ Bioassay of digitalis
- ✓ Evaluation of local anaesthetics
- ✓ Hearing experiments study
- ✓ Isolated tissues especially ileum, heart
- ✓ Study on TB
- ✓ Study on ascorbic acid metabolism.

Result :

The laboratory animal guinea pig was studied.

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