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Diploma in Pharmacy 2nd Year

Pharmacology

Experiment

To study the laboratory animal Rabbit

Aim:

To study the laboratory animal Rabbit

Reference :

‘ Dr. P.Mudagal Manjunatha , “Practical Manual of Pharmacology”
Published by Nirali Prakashan, Page no 15 - 18

Theory :

Description

- **Rectal Temperature:** 38.7°C -39.1°C
- **Normal Respiratory Rate:** 55 per min
- **Pulse Rate:** 135 per min
- **Gestation Period:** 28-31 days
- **Weaning Age:** 6-8 weeks
- **Mating Age:** 6-9 months
- **Litters:** 4 Yearly; average 4 litter
- **Room Temperature:** 15.5-18.5
- **Humidity:** 40-45%
- **Weight (Adult):** 0.9-6.75 kg



Housing

- Cages should be made of galvanised iron.
- The minimum size of cage for a medium sized rabbit should be 2x2x1(1/2)ft.
- Young rabbits up to 3 months of age should be housed together, after which males and females should be separated.

Feeding

- Pelleted diet, such as 18 of Bruce and Parkers(1947) or commercial breeders pellets, should be provided.
- Daily supply of 72 gm of a mixture of one part oats and three parts bran should be fed as a slightly moist mash.
- Green stuffs or root vegetables should be provided.
- Clean drinking water should be provided.

Handling of Rabbit

- + Rabbit's car should be smoothened back
- + The cars and loose skin at the back of the neck should be picked up with one hand in a firm grip
- + The other hand should be placed under the hind quarter to support the weight and lift gently.
- + Rabbits should never be lifted by ear alone.
- + Rabbits should be placed on a non-slippery surface.
- + If restraint is required during anaesthesia or inoculation, rabbits should be wrapped in a roller towel or placed in a special box.



Common Diseases of Rabbit

- Coccidiosis (hepatic and intestinal)
- Pseudo tuberculosis
- Respiratory infections (Snuffles)
- Pneumococci
- Streptococci
- Intestinal infections (Mucoid enteritis, Dianthoca)
- Rabbit syphilis (*Treponema cuniculi*)
- Worms (*Cysticercus* stage of dog tape worm. *Taenia pisiformis*)

Experimental Procedures on Rabbit

- | | |
|----------------------------|--------------------------------|
| ✚ Antisera | ✚ Intra-peritoneal inoculation |
| ✚ Anaesthesia | ✚ Intra-cerebral inoculation |
| ✚ Scarification | ✚ Intra-testicular |
| ✚ Subcutaneous inoculation | ✚ Ophthalmic |
| ✚ Intra-venous inoculation | ✚ Collection of blood. |

Applications

- ✓ Pyrogen testing
- ✓ Bioassay of anti-diabetic, curare form drugs and sex hormones
- ✓ Screening of agents affecting capillary permeability
- ✓ Drugs used in glaucoma
- ✓ Pharmacokinetic studies
- ✓ Animal of choice for cardiac studies
- ✓ Teratogenicity studies
- ✓ Suitable for researches on reproduction
- ✓ Study on miotic and mydriatics

Result :

The laboratory animal rabbit was studied.