Experiment

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Diploma in Pharmacy 2nd Year Pharmacology Experiment

To study different routes of drug administration in animals

Aim:

To study different routes of drug administration in animals

Reference :

[•] Dr. P.Mudagal Manjunatha , "Practical Manual of Pharmacology" Published by Nirali Prakashan, Page no 28 - 32

Theory :

Routes of Drug Administration

- Enteral Route: Drugs are introduced directly into any part of GIT. It could be:
 - i. **Oral Route:** The drug is swallowed through mouth with water or food This rout is economic, convenient, safe, and some animals can be trained to cooperate voluntarily. This route is not referable since it is inaccurate.
 - ii. **Intra-gastric Route:** The drug is administered directly into the oesophagus or stomach. It is often used instead of mixing the substance in water or food. This method is accurate for dosing of animals. A gastric lavage tube (small curved, metallic tube with ball on the tip) is often used without anaesthesia.
- 2) Parenteral Route: This route involves
 - i. Intravenous (IV): Into the venous bloodstream.
 - ii. Intraperitoneal (IP): Into the abdominal cavity.



- iii. Subcutaneous (SC): Under the skin.
- iv. Intramuscular (IM): Into a muscle.
- v. Intradermal (ID): Into or between layers of skin.
- vi. Intrathecal (IT): Into the subarachnoid space of the spinal cord.
- vii. Intracranial (IC): Into the substance of the brain.

Site	Species					
Jugular vein	Cat, sheep, dog, goat, rabbit, house, cow					
Cephalic vein (Fore limb)	Dog, cat, <mark>large primates.</mark>					
Saphenous vein (Hind limb)	Monkey, d <mark>og, guinea pig (difficult</mark>)					
Tail vein	Rat, mouse					
Marginal ear vein	Rabbit, pig					
Alar vein (Wing vein)	Bird					
Femoral vein	Monkey, cat					

Table 1: Site of Parenteral Route in Various Animals

3) Topical Route: It is the most convenient route for local anaesthetics. ointments and creams that can be easily applied on the surface of skin membrane. Eye drops and ointments are also used administered by this rout. Animals, like rabbit, guinea pig and rat, are administered drug using this route.



NR = Not recommended. Requires extreme care.	*Must be chemically restrained.	Primate" (Baboon) Cephalic, recurrent tarsal, and jugular 50-100ml, jugular veins, 10-20ml 18ga (slowly), ~ 20ga 18ga 18ga	Primate (Khesus, Cyno Cephalic, recurrent tarsal, or 25-50ml, ~ 20ga Quadriceps/posterior Snow) jugular veins, 5-10ml triceps, 1-3ml, ~ 20g (slowly), ~ 20ga (slowly), ~ 20ga triceps, 1-3ml, ~ 20g	monkey, galago) (slowly), ~ 21ga	1.0	Cat Cephalic vein, 2-5ml 50-100ml, (slowly), ~ 21ga 20ga	RabbitMarginal ear vein, 1-5ml50-100ml,(slowly), ~ 21ga20ga	Pig Ear vein, saphenous 0.5ml, ~ 23ga	Hamster Femoral/jugular vein (cut 3-4ml, ~ 21ga down), 0.3ml, ~ 25ga	Lateral tail vein, 0.2ml, ~ 2-3ml, ~ 25ga	I able 2: Needle Sizes a Intravenous	
		 Quadriceps/posterior thigh, Scruff, 10-30ml per site, triceps, 1-3ml, ~ 20ga 60-100 total, ~ 20ga 	a Quadriceps/posterior thigh, Scruff, 10-30ml, ~ 20ga triceps, 1-3ml, ~ 20ga	thigh, 0.3	ceps/posterior thigh, 2- 20ga	~ Quadriceps/posterior thigh, 1ml, Scruff, back, 50-100ml, ~ 20ga	~ Quadriceps/posterior thigh, Scruff, flank 30-50ml, ~ lumbar muscles, 0.5-1ml, ~ 20ga 20ga	vein, 10-15ml, ~ 21ga Quadriceps/posterior thigh, Scruff, 5-10ml, ~ 20ga 0.3ml, ~ 21ga	NR Quadriceps/posterior thigh, Scruff, 3-4ml, ~ 20ga 0.1ml, ~ 25ga	NR Quadriceps/posterior thigh, Scruff, 2-3ml, ~ 20ga 0.05ml, ~ 25ga	and Recommended Injection's Volumes Intraperitoneal Intramuscular Subcutaneous	

Result :

Experimental pharmacology was studied.



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