

Elective In Physiology

Basics of animal handling and research

S. No.	Name of the Elective	Basics of animal handling and research
1	Block	
2	Department/ Area	Physiology
3	Name of Mentor/ Supervisor/ In charge	Dr Iqbal Alam, Professor, Department of Physiology, HIMSR
4	Co-Supervisor	Dr Bhawna Mattoo, Assistant Professor, Department of Physiology, HIMSR
5	Number of students intake	02-05
6	Method of Selection (if applicable)	Interview to determine a candidate's core understanding and interests in the field of animal experimentation.
7	Objectives	<ol style="list-style-type: none">1. To acquire basic knowledge about animal handling.2. To understand the importance of ethical aspects and importance of animal research.3. To help a trainee gain competencies in animal research.
8	Expected outcomes	<ol style="list-style-type: none">1. To explain the importance of animal experimentation.2. To know the ethical aspects of animal experimentation.3. To follow the correct methodology for disposal of biomedical waste generation during animal experimentation.4. To perform basic animal anthropometrical techniques independently.5. To be able to perform recording of biological signals like EMG, ECG etc in rat model with assistance.6. To be able to perform cannulation of rat carotid artery , independently.7. To describe the routes of drug administration in rats and calculation of dose according .8. To describe the physiological basis of animal models of few diseases like heart failure, preeclampsia etc.
9	Assessment	<ol style="list-style-type: none">1. Attendance2. Day to day participation in animal research and handling activities during the routine training hours.3. Performance of assigned task and presentation of results in the department.
10	Log book	Regular log book entry of daily activities. See Appendix 1 for log book details.

Annexure 1

S. No.	Name of Competency	Procedure	Date of Procedure	Trainee's feedback	Trainee's initials	Trainer's initials with date
1	To importance of animal experimentation					
2	To know the ethical regulations and guidelines of CPCSEA in India					
3	To dispose the animal tissue according to proper guidelines.					
4	To be able to weight the rat independently.					
5	To be able to calculate dose of drug to be administered to the rat.					
6	To be able to Non-invasive ECG independently in rats.					
7	To be able to perform cannulation of rat carotid artery , independently					
8	To describe the physiological basis of animal models of few diseases like heart failure					

Reflection by student