Elective in Physiology

Basics of animal handling and research

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1	Block	I
2	Department/ Area	Physiology
3	Name of Mentor/	Dr Iqbal Alam, Professor, Department of Physiology,
4	Supervisor/ In charge	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	 To acquire basic knowledge about animal handling. To understand the importance of ethical aspects and importance of animal research. To help a trainee gain competencies in animal research.
8	Expected outcomes	 To explain the importance of animal experimentation. To know the ethical aspects of animal experimentation. To follow the correct methodology for disposal of biomedical waste generation during animal experimentation. To perform basic animal anthropometrical techniques independently. To be able to perform recording of biological signals like EMG, ECG etc in rat model with assistance. To be able to perform cannulation of rat carotid artery, independently. To describe the routes of drug administration in rats and calculation of dose according. To describe the physiological basis of animal models of few diseases like heart failure, preeclampsia etc.
9	Assessment	 Attendance Day to day participation in animal research and handling activities during the routine training hours. 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.