



Ex Pharm (Experimental Pharmacology) - Series software

HEALTH EDUCATION BUREAU

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Objective

"To bring innovative & affordable health and education products, so as to make health and education in reach of every Indian"

Genesis

The Health Education Bureau was launched, with the blessings of former President Dr. APJ Abdul Kalam. Its prime aim is to bring innovative & affordable health education products, so as to make health education in reach of every Indian.

About Ex Pharm (Experimental – Pharmacology) - Series software

This is a computer assisted learning package containing various programs which simulate animal experiments in Pharmacology. These programs can be used to demonstrate drug on different animals systems. The package is user friendly, highly interactive and full of animated sequences which make simulation appear realistic. The current version of Ex-Pharm series consists of following computer simulated experiments:

Experiments List

01. Experiment on effects of various drugs (Mydriatic, Miotic and Local Anaesthetic) on rabbit's eye.

- Epinephrine
- Atropine
- Ephedrine
- Physostigmine
- Lignocaine

02. Study of Analgesic activity with the help of "Tail Flick Apparatus" (Analgesiometer).

03. Study of Analgesic activity with the help of "Hot Plate Apparatus" (Analgesiometer).

04. To study analgesic activity by writhing test.

05. Study of Antihistaminic drugs/Anti allergic drugs by mast

cell stabilization method with help of "Histamine Chamber"

06. Study of Muscle Relaxant activity with the help of "Rota-Rod Apparatus".

07. Study of CNS Depressants & Stimulants Using "Actophotometer".

08. Study of Drugs acting on CNS (Including Anxiolytic Activity) using following modules

- Elevated Plus Maze Method
- Pole Climbing Method

09. Study of anticonvulsant activity using "Electro Convulsimeter".

10. To study PTZ induced convulsions in mice.
 11. Simulation of pupil control
 - Simulation of the effects of the physiological stimuli and drugs on the papillary reflexes.
 - Simulation of the control in patient with partial parasympathectomy
 12. To study of action of strychnine/ anaesthetic on frog neurons (excitability).
 13. Experiments on Lagendorff's Apparatus
 - Effect of coronary vasodilators on isolated heart
 - Effect of parasympathomimetics
 14. Test for pyrogens using rabbits.
 15. Effect of drugs on isolated guinea pig ileum (in-vitro).
 16. To study respiratory depression effect on rabbit.
 17. Study of stereotype and anti-catatonic activity of drugs on mice.
 18. Experiments on thyroid and antithyroid drugs
 - The effect of thyroxin, TSH, propylthiouracil, on metabolism.
 19. Experiments on blood sugar
 - The effect of insulin (hypoglycemic activity) and alloxan on blood glucose.
 20. Study of anti-inflammatory activity using carrageenan induced paw oedema method.
 21. Study of diuretic activity using metabolic cage.
 22. Experiment on Effect of various drugs on Isolated Frog's Heart. (DRC- Dose Response Curve)
 - Epinephrine
 - Norepinephrine
 - Isoprenaline
 - Calcium Chloride
 - Propranolol
 - Acetylcholine
 - Potassium chloride
 - Atropine sulphate
 23. Experiment on Bioassay of Histamine on the Ileum of Guinea Pig.
 24. To study the action of strychnine/ anaesthetic on frog neurons (excitability).
 25. Experiments on effect of different drugs on dog BP & heart rate.
 - The Effect of epinephrine, acetylcholine, atropine on the arterial pressure (dog-blood pressure).
 - Simultaneous analysis of effect of different drugs on dog heart rate and blood pressure.
 - Effects of drugs on blood pressure (vasopressor and vaso-depressors with appropriate blockers).
 26. Bioassay of Acetylcholine on the isolated rectus abdominis muscle of frog
 - (a) By Matching Method, (b) By Interpolation Method,
 - (c) By 3 Point Method, (d) By 4 Point Method.
 27. Bioassay of oxytocin on the isolated rat uterine horn by following methods
 - (a) By Matching Method, (b) By Interpolation Method,
 - (c) By 3 Point Method, (d) By 4 Point Method.
 28. Bioassay of serotonin on the isolated rat fundus strip by following methods
 - (a) By Matching Method, (b) By Interpolation Method,
 - (c) By 3 Point Method, (d) By 4 Point Method.
 29. To record the DRC and to determine the PD₂ value for acetylcholine on frog rectus abdominis muscle.
 30. Study of anti-ulcer activity - using pylorus ligation method.
 31. Evaluation of effect of acetylcholine (spasmogens) using rabbit jejunum.
 32. Evaluation of effect of different drugs on ciliary motility.
 33. Evaluation of effect of saline purgatives on frog intestine.
 34. Determination of acute irritation of a test substance.
 - Skin irritation (Including edema formation)
 - Eye irritation.
- * Examination mode will also be provided for modules.
- * With the above mentioned list of interactive software experiments , modules will also be provided for following .
- Study of different routes of drugs administration in mice/rats.
 - Common Laboratory techniques of blood withdrawal anaesthesia and euthanasia.

Why it is Necessary

AS PER NATIONAL MEDICAL COMMISSION

NMC has issued MSR for Medical Colleges through Gazette Notification, Dated 29 Oct 2020. The mentioned regulations has stated that pharmacology experiments should be done by computer assisted learning software”.

AS PER PHARMACY COUNCIL OF INDIA

PCI has issued guidelines through Gazette Notification No.10-1/2012- PCI; Dated 25 August 2014. The mentioned guidelines has stated that “Wherever animal experimentations are prescribed in the curriculum, the required knowledge and skill should be imparted by using computer assisted modules”.

AS PER PHARMACY COUNCIL OF INDIA

The Education Regulations, 2020 - Recommending Ex Pharm Software for Pharmacology Experiments”.

Subscription Procedure

The software can be subscribed by sending the filled subscription form with the requisite fees (as mentioned in form), on below mentioned address.

Address:

Health Education Bureau

55/20, Rajat Path, Mansarovar,

Jaipur,(Rajasthan),PIN-302020

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Ex Pharm Software (All experimental pharmacology modules of B.Pharm + D.Pharm syllabus as per PCI)	1 Year (For all active Experimental modules)	4,150 ₹	4,897 ₹	<input type="checkbox"/>	Ex Pharm Software (All experimental pharmacology modules of syllabus as per PCI+NMC+VCI)	1 Year (For all active Experimental modules)	9,920 ₹	11,705 ₹	<input type="checkbox"/>
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*1 query means group of words, ending with full stop.

*Prices includes delivery and maintenance cost also.

*Customized Packages (For desired duration/modules) are also available for all Journals/Softwares.

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