

DEPARTMENT OF PHARMACOLOGY

GMC KATHUA

INTRODUCTION

The document addresses the request made on June 18th, 2021 from Principal Government Medical College Kathua regarding Pharmacology department plan for the future as a vision document.

The department had already initiated a discussion to determine new strategic planning process and has already taken and complemented measures for achieving student and faculty success, Some of the implement initiatives although modes but a start in the right direction have been.

Undergraduate Teaching

Teaching as per new competency based curriculum has been started. Medical students are often overwhelmed by the large number of drugs.

Model based teaching of the injection of medicine by the intradermal, subcutaneous, intramuscular and intravenous routes using aseptic techniques and setting up of an intravenous drip and adjust the drip rate according to required dosage has been started. Proper method of use of metered dose inhalers (MDI), spacers and preparing and administering nebulized drugs.

After the conventional undergraduate practical's preparation mixture, lotion and animal experiment is often criticised and introduction of useful procedure in its place has been emphasized so the key guidance is that student must be adequately prepared to prescribe drugs when they graduate.

The department should ensure that all graduates must be demonstrably safe prescribers.

Newer methods like problem based learning (PBL), E-learning and computer assisted learning (CAL) will be implemented during the lab, works. The main advantages of such methods are that student; through self-questioning and critical thinking learn how to learn.

PBL in the form of therapeutic problem and E-learning and CAL is the form interactive activities animation, video demonstration, video clips of experts and self assessment exercises, demonstrations of effect of drugs on various parameters would help students develop important skills such as reasoning and persistence in the self directed search for solutions becoming better problem- solvers.

Audio-visual aids can be in the form of demonstration of procedure for parental drugs administration like IV, IM S/C routes and use of inhaler spacers.

Filling up an adverse drug report (ADR) report as per the pharmacovigilance guidelines. Critical analysis of drug promotional literature in the terms of pharmacological actions of their ingredients claims of pharmacological companies, rational or irrational fixed dose combination.

One issue in assessment is standard evaluation and efforts are now made as per new curriculum guidelines where in goals of teaching as well as learning is on basis of knowledge and skills acquired.

The department has been established and equipment for lab is under process of procurement.

Presently the sanctioned departmental faculty strength is as under-

| S.no | Faculty | Sanctioned Posts | Present Status of Faculty |
|------|---------------------|------------------|---|
| 1 | Professor | 1 | Dr. Vineeta Sawhney |
| 2 | Associate professor | 1 | |
| 3 | Assistant professor | 2 | Dr. Naiyma Choudhary Dr. Sanjay Shah |
| 4. | Demonstrator | 2 | |

Pharmacovigilance Center

Adverse drug reaction center has been approved for the department by the National Pharmacovigilance center Ghaziabad in the month of Feb 2021. Our AMC (ADR monitoring centre) is reporting ADR to the national center. Various sensitization programmes for the reporting of adverse drug reaction for faculty and nursing staff is required.

Institutional Ethical Committee

The Department is actively involved in supervising the research work of various departments of institution. The department has conducted IEC meeting where more than 50 research projects were evaluated.

Research work

The Department has published more than seven (7) research papers in indexed journals in last two years.

Post graduate teaching

The goal of the department is to start post graduate teaching and for that department inspection by expert from DNB was conducted in the month of April 2021.

Recommendations

Undergraduate teaching

A computer lab should be setup with CAL programmed and other software for teaching pharmacology. This lab should give the students to access the national essential drugs list, standard treatment protocol (STP), Banned drugs, list of CDSCO, antibiotic guidelines. Hospital formulary and other learners resources material which the student can use for self study.

Post graduate teaching

Post graduates in pharmacology are always important as they play dominant role in patient centered care activity and also in pharmaceutical industry. Developing the skills of post graduate with the use of modern equipments such as quantitative estimation equipment calorimeter , spectrophotometer, HPLC. For all these the research Lab should be well equipped.

Services to the hospital

The department should be involved in critical analysis and prescription auditing and reporting of any issues found to be in contravention to established norms of rational drugs therapy.

- ❖ Estimation of drugs level
- ❖ Pulmonary function test.
- ❖ Therapeutic drugs monitoring.
- ❖ ADR monitoring in hospitals, drug interaction.
- ❖ Publishing drug bulletin
- ❖ Involvement in matters like drug procurement, storage, dispensing policy making and quality control.
- ❖ Quality control lab is an instrument to check, verify and realize whether a drug conforms to certain specifications.

HOD Pharmacology

GMC kathua

List of publications of 2021

1. Suman Lata, Vijay Khajuria, **Vineeta sawhney**. Evaluaton of non-adherence to antitubercular drugs among Tuberculosis patients: A Prospective study. Int. Journal of current pharmaceutical research Vol. 13, issue 2, 2021.
2. Kanika khajuria, Vijay Khajuria, **Vineeta Sawhney**. Secondary Mitochondrial Dysfunction. Int journal of Pharmacy and Pharmaceutical Sciences Vol (13), issue 3,2021
3. Suman Lata, Vijay Khajuria, **Vineeta sawhney**. Treatment pattern of Covid-19 patients in a tertiary care teaching hospital of northern India. Asian journal of pharmaceutical & clinical research vol. 14 issue 11, 2021.
4. Kanika khajuria, Vijay Khajuria, **Vineeta Sawhney**. Mitochondrial disease therapy. Asian journal of pharmaceutical & clinical research . Vol 14 Issue 5, 2021.