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MALWANCHAL **MIRROR**

QUATERLY BULLETIN



Index

Institute of Pharmacy

*Leadership has never been about position – it's about progress.
About daring to dream, daring to do, and helping others rise with
me*



**Mr. MayankRaj Singh
Bhadoria**

Vice-Chairman,
Index Group of Institutions

**TOP
EVENTS OF
OCTOBER
2025**

From the desk of Principal ...

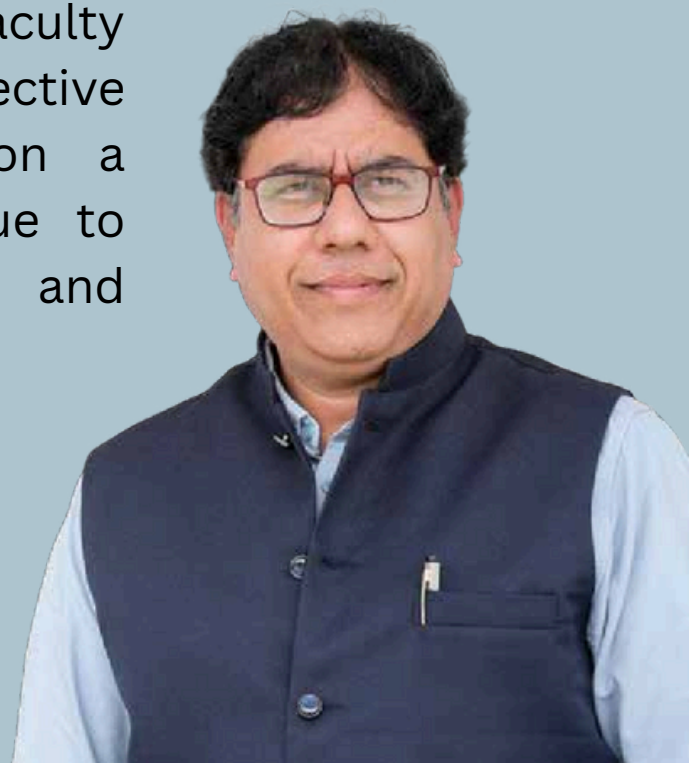
It gives me immense pleasure to present this edition of our Pharmacy Bulletin, which reflects the dedication, creativity, and academic excellence of our students and faculty. The field of pharmacy plays a vital role in improving global health by ensuring the safe and effective use of medicines. As the healthcare landscape continues to evolve, pharmacists are not only medicine experts but also essential contributors to research, innovation, and patient care.

Our institution strives to nurture competent, ethical, and compassionate professionals equipped with scientific knowledge and a strong sense of responsibility toward society. Through this bulletin, we celebrate the achievements, research endeavors, and activities that highlight our commitment to advancing pharmaceutical education and practice.

I congratulate the editorial team, faculty members, and students for their collective efforts in making this publication a success. May this bulletin continue to inspire learning, innovation, and excellence in the field of pharmacy.

Dr. Javed Khan Pathan

(Principal, Index Institute of Pharmacy)



CAMPUS NEWS

Signature Day celebration

The Index Institute of Pharmacy celebrated Signature Day with great enthusiasm and joy on at the college premises. The event was organized as part of the farewell week activities for the final-year pharmacy students. Signature Day is a memorable occasion where students express their affection, friendship, and good wishes by signing on each other's T-shirts, symbolizing the end of their academic journey and the beginning of a new chapter in their professional lives.

The celebration began with an opening address by Principal who congratulated the students on successfully completing their academic journey and wished them success in their future endeavors.

The faculty members and staff also participated by sharing encouraging words and best wishes. The event provided an excellent platform for students to express gratitude toward their teachers and friends. Many students captured the moments through photographs and videos, making the day even more special.

The Signature Day Celebration was a fun-filled and emotional event that brought together students, teachers, and staff in a spirit of friendship and farewell. It marked the conclusion of an important academic phase and celebrated the achievements, memories, and unity of the graduating batch.



Did You Know?

- **Personal messages:**
Students write personal messages, memorable phrases, or inside jokes on the shirts, in addition to signing their names.
- **Creative ideas:**
Some schools get creative with the celebration by incorporating themes, color - coding by department, or using different types of markers, like glow-in-the-dark ones.
- **Memory captures:**
The signed shirts serve as a tangible reminder of their shared experiences and relationships, which students often frame later.
- **Last day celebration:**
It's a way to mark the end of a chapter and create lasting, nostalgic memories for graduating students.

CAMPUS NEWS

World Pharmacist Day

World Pharmacist Day 2025 was celebrated with great enthusiasm

at Index Institute of Pharmacy to honor the vital role of pharmacists in healthcare and to promote awareness about the profession's contributions to society.

The event was organized under the guidance of our Principal Dr. Javed Khan Pathan, with the active participation of faculty members, non-teaching staff and students from all years. The program began with

a welcome speech by Dr. Abhilasha Bakshi Asst.Prof. IIP, highlighting the theme of World Pharmacist Day 2025 – "Pharmacists: Building Healthier Communities". The celebration started with the lighting of the lamp and Saraswati Pujan, followed by an inspiring address by the Principal, who emphasized the importance of pharmacists as the bridge between medicine and patient care.



Did You Know?

- 2025 theme: "Think Health, Think Pharmacist" emphasizes their essential role in sustainable healthcare systems.
- Pharmacists' roles: They are more than just dispensers of medicine; they are trusted partners who ensure safe treatments, prevent harmful drug interactions, and guide patients to healthier lives.
- Impact: Pharmacists significantly impact medication safety and patient care across many specialties, including oncology, infectious diseases, and respiratory care.
- Historical connection: Some famous drinks, like Coca-Cola and Dr. Pepper, were originally created by pharmacists.
- How to participate: You can celebrate by speaking with your pharmacist, asking questions about your medication, and following their advice on health and safety.



CAMPUS NEWS

Dissertation work Presentation

The Department of Pharmacy organized a Dissertation Viva Presentation for the final year B.Pharm students in the month of July 2025 at Index Institute of Pharmacy. The viva was conducted to evaluate the students' understanding of their dissertation work, research methodology, analytical skills, and subject knowledge. The event provided an excellent opportunity for students to present their research findings and defend their work before a panel of experts.

The Principal, Dr. Javed Khan Pathan, addressed the students, highlighting the importance of research in advancing pharmaceutical education and patient care. Each student delivered a detailed presentation of their dissertation work, including objectives, methodology, results, and conclusions. Following the presentation, an interactive question



answer session was held where students were assessed on their depth of knowledge, clarity of concepts, and practical understanding of the subject.

The examiners appreciated the students for their enthusiasm, quality of work, and innovative research ideas. Constructive suggestions were also provided to help them improve future research endeavors.

The Dissertation Viva Presentation served as an enriching academic exercise that reflected the dedication and hard work of the students and faculty. The event successfully bridged theoretical knowledge with practical application, preparing the students for future professional and research challenges in the pharmaceutical field.

Faculty Corner

Role of QSAR in Drug Design

Quantitative structure activity relationship (QSAR) is a computational modeling method describes relationship between the structural properties of chemical compound and biological activities in quantitative manner for a series of compound. QSAR modeling is essential for drug discovery. In QSAR is assumed that the biological activities showed by a related compound are a function of various physical-chemical activities. A major goal of the quantitative structure activity relationship studies to find out mathematical and structural relationship between the physical-chemical property and biological activity

These are important software for drawing chemical structure, interconverting chemical file formats, generating 3D structures, developing QSAR models general purpose of software which have all important features for the QSAR development, For insure the quality, safety, of marketed drug by subjecting drug to various kind of test.

Ms. Chanchala Mukati

Assistant Professor
Index Institute of Pharmacy



Due to high risk of drug development failure QSAR required high and time. Healthcare and medicinal system rapidly change over the past years. Rational drug design method reduced the expenses and duration needed in drug designing process in comparison to conventional drug discovery method. QSAR/QSPR studies can be used design and find out to optimize absorption, distribution, metabolism excretion and toxicity profile of identified molecule in various sources. Thus, it can useful to predict the drug discovery failure prior to clinical state in order to reduced drug development cost

Faculty Corner

The introduction of pharmacology

Pharmacology is the branch of science that deals with the study of drugs and their interactions with living organisms. It involves understanding how drugs work, how they are absorbed, distributed, metabolized, and excreted from the body, and how they produce therapeutic and toxic effects. The term pharmacology is derived from the Greek words "pharmakon" meaning drug, and "logos" meaning study or science.

Pharmacology serves as a bridge between basic sciences and clinical medicine. It provides essential knowledge for the development of new drugs, their rational use in the treatment of diseases, and the prevention of adverse effects. The field is broadly divided into two main branches: pharmacodynamics, which studies what the drug does to the body (mechanism of action and effects), and pharmacokinetics, which studies what the body does to the drug (absorption, distribution, metabolism, and excretion).

Mr. Kuldeep Dhangar

Assistant Professor
Index Institute of Pharmacy

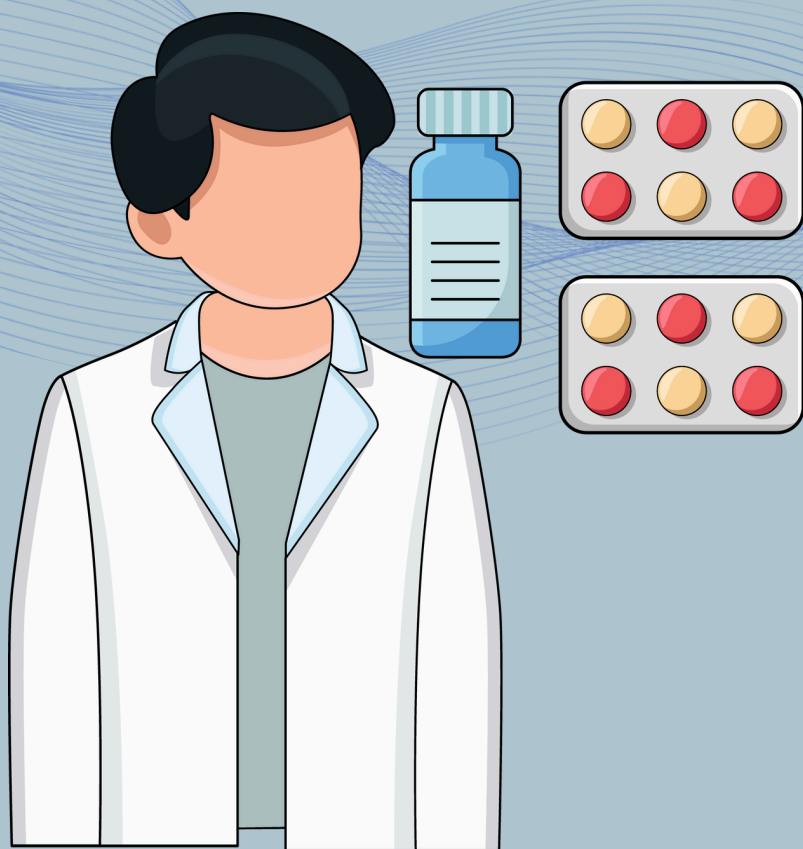


Modern pharmacology also includes areas like toxicology, clinical pharmacology, pharmacogenomics, and pharmacovigilance, which help ensure safe and effective use of medicines. Overall, pharmacology plays a crucial role in improving healthcare, guiding therapy, and advancing medical research

Faculty Corner

The Vital Role of Pharmaceuticals in Pharmacy

Pharmaceutics is one of the core pillars of pharmaceutical sciences, bridging the gap between drug discovery and patient care. It focuses on the design, formulation, development, and evaluation of safe and effective dosage forms that deliver drugs at the right site, in the right concentration, and at the right time. As a discipline, pharmaceutics ensures that an active pharmaceutical ingredient (API) is transformed into a usable medicine for patients.



One of the most important roles of pharmaceutics is in the development of dosage forms such as tablets, capsules, injections, topical preparations, transdermal patches, inhalers, and advanced drug delivery systems. By applying knowledge of chemistry, biology, physics, and engineering, pharmaceutics professionals create formulations that maximize

therapeutic benefits while minimizing side effects. It also involves biopharmaceutics and pharmacokinetics, which are essential for ensuring safety, stability, and efficacy

Faculty Corner

Pharmaceutical students specializing in pharmaceuticals have a broad range of career opportunities in the industry. They can work in formulation and development, where innovative dosage forms such as tablets, capsules, injections, and novel drug delivery systems are created. In production and manufacturing, they play a vital role in scaling up laboratory formulations to large-scale industrial production while maintaining efficiency and safety.

Ms. Akansha Bhadauria

Assistant Professor
Index Institute of Pharmacy



Students also find important roles in quality assurance and quality control, ensuring that every medicine produced meets the required standards of purity, stability, and compliance. Opportunities in regulatory affairs involve preparing and managing documentation for national and international drug approvals. In addition, the field of research and development (R&D) allows pharmaceuticals professionals to contribute to cutting-edge innovations like nanoparticles, liposomes, and sustained-release systems. Beyond this, students can also engage in clinical and pharmacokinetic studies, industrial management, and even pharmaceutical sales and marketing, making pharmaceuticals graduates highly valuable across all sectors of the pharmaceutical industry.

Student's Corner

The Life of a Medicine: From Lab to Patient

Introduction:

Every medicine we hold in our hands carries a long journey behind it. From a tiny idea in a laboratory to reaching the shelves of a pharmacy, the life of a medicine is filled with science, dedication, and years of effort.

Step 1:

Discovery and Research The journey begins when scientists identify a disease and search for new molecules to treat it. Countless compounds are studied, but only a few show potential to become medicines.

Step 2:

Preclinical Studies Promising molecules undergo tests in laboratories and on models to check their safety and effectiveness. This stage ensures that only the safest candidates move ahead.

Step 3:

Clinical Trials In this stage, the medicine is tested on human volunteers in phases. These trials confirm the correct dosage, safety, and how well the medicine works in real patients.

Step 4:

Approval and Manufacturing If trials are successful, the medicine is reviewed by regulatory authorities. After approval, large-scale manufacturing begins under strict quality standards.

Step 5:

Reaching the Patient Finally, the medicine reaches hospitals and pharmacies, where pharmacists play a crucial role in dispensing it safely and guiding patients on proper use.

Conclusion The life of a medicine is a story of science, teamwork, and responsibility. As pharmacy students understanding This journey reminds us of the vital role we play in ensuring that every tablet, capsule, or injection improves lives.

Suhani Yadav

B. Pharma 3rd Year

Index Institute of Pharmacy



Student's Corner

Dilip Shanghvi : A Journey of Vision, Courage, and Perseverance

Introduction:

Dilip Shanghvi, founder of Sun Pharma, proves that small beginnings can lead to extraordinary success. His journey is a story of vision, courage, and determination.

The Beginning of a Dream:

In 1983, with a small loan from his father, Shanghvi started Sun Pharma in a one-room office with five products and five employees. By focusing on psychiatric medicines, he gave the company a clear identity.

Commitment to Quality:

Shanghvi believed that trust comes from quality. With limited resources, he invested in research and development, making Sun Pharma's medicines reliable and respected.

Facing Challenges:

Financial struggles, tough competition, and global expansion tested his resolve. But patience, resilience, and focus helped him overcome every hurdle.

The Big Leap – Ranbaxy Acquisition:

In 2014, Sun Pharma acquired Ranbaxy, a bold move that made it one of the largest pharmaceutical companies worldwide, with operations in over 100 countries.

Lessons from His Journey:

- Success is about determination, not where you start.
- Honesty and quality build lasting trust.
- Challenges can become opportunities.
- Big dreams are achieved step by step

Conclusion:

Dilip Shanghvi's story shows that vision, courage, and persistence can turn a small idea into a global success. His journey inspires students and dreamers to believe in themselves and never give up.



Satyam Raj Ojha

B. Pharma 4th Year

Index Institute of Pharmacy

Student's Corner

PHARMACEUTICAL JURISPRUDENCE

Pharmaceutical jurisprudence is the branch of law concerned with all regulations governing the pharmacy profession, ensuring the safety and efficacy of medicines, and protecting public health. It encompasses national and international laws, rules, and ethical codes related to the manufacture, distribution, sale, and use of pharmaceutical products, along with the education and professional conduct of pharmacists. Key examples of such legislation include the Drugs and Cosmetics Act, Pharmacy Act, and Narcotic Drugs and Psychotropic Substances Act.

Key Aspects of Pharmaceutical Jurisprudence

Regulation of Medicines

It covers all aspects of drug regulation, including their quality, safety, and efficacy, from manufacturing and importation to sale and distribution.

Professional Standards: It defines the standards for pharmacy education and the professional conduct of pharmacists, ensuring they are qualified and responsible.

Ethical Practice: Pharmaceutical jurisprudence includes codes of ethics that govern the practice of pharmacy, promoting the right medication for the right patient at the right time by the right person.

Legal Framework: It is based on various laws and acts, such as the Drugs and Cosmetics Act, which regulates the industry and protects the public from substandard or spurious drugs.

Examples of Key Indian Legislation

The Drugs and Cosmetics Act, 1940: Regulates the import, manufacture, distribution, and sale of drugs and cosmetics in India to ensure safety and efficacy.

The Pharmacy Act, 1948: Addresses the education, registration, and regulation of pharmacists.

The Narcotic Drugs and Psychotropic Substances Act, 1985: Controls the cultivation, production, manufacture, sale, and import/export of narcotic drugs and psychotropic substances.

The Medicinal and Toilet Preparations (Excise Duties) Act, 1955: Regulates the manufacture and sale of alcoholic preparations and Ayurvedic, Homeopathic, and patent medicines.



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MALWANCHAL MIRROR



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