VESCOP ENDEAVOUR

A Biannual Newsletter From

VIVEKANAND EDUCATION SOCIETY'S COLLEGE OF PHARMACY, MUMBAI (AUTONOMOUS)

Awarded A+ Grade with a CGPA of 3.46 by NAAC, 2022 (Valid till 2029)



Dr. Supriya Shidhaye, Principal, VESCOP receives the prestigious MS-APTI PHARMA HR SOCIETY OF INDIA'S PRINCIPAL OF THE YEAR AWARD at MAHA-APTICON-2025 held on 15th February 2025 at Chh. Sambhajinagar.



AFFILIATIONS -Affilliated to University of Mumbai. Approved by Pharmacy Council of India (PCI).



Pharma. Chemistry Intake - 06

JANUARY - JUNE 2025



OUR HIGHLIGHTS

- Awarded A+ grade with CGPA of 3.46 by the National Assessment and Accreditation Council (NAAC)
- Awarded 1st and 3rd Rank in the AICTE CII Industry Linked Survey 2018 & 2021 respectively (Pan India)
- Received Max-Innovations Trophy (2022-23) at Ciia 2.0 & (2023-24) at CiiA 3.0) Received Runner-Up Max-Innovations Trophy (2024-25) at CiiA 4.0)(New)
- OVERALL RUNNER UP CHAMPIONSHIP TROPHY at 18th AAVISHKAR (Inter-Collegiate / Institute / Department) Research Convention 2023-24. OVERALL CHAMPIONSHIP TROPHY (First Rank) at 17th AAVISHKAR (Inter-Collegiate/ Institute/ Department) Research Convention 2022-23.
- 3.5 STAR rating Institution Innovation Council (IIC) 2022-23, awarded by MoE's Innovation Cell, Govt. of India
- Registered as VES-Scientific and Industrial Research Organization (VES-SIRO) at DSIR, Govt. of India
- Signatory of PRME, a United Nations initiative for sustainability
- Community Outreach Initiatives NSS, Rotaract Club and Public Health Office.



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FACULTY ACHIEVEMENTS



Dr. Ganga Srinivasan and Deepak Shukla won the IDMA ACG-SCITECH Best Research Paper Awards 2023 & 2024 in the Discipline "REVIEW ARTICLE" for the review article entitled 'Cannabis-Derived Pharmaceutical

We are proud to announce that **Dr. Supriya Shidhaye**, **Principal of VES College of Pharmacy (Autonomous)**, **Mumbai**, has been honored with the "**Principal of the Year Award" by MS-APTI Pharma HR Society of India at MAHA-APTICON 2025**, held on February 15, 2025, in Chhatrapati Sambhajinagar. The award was presented by **Dr. Montukumar MPatel, Prof. Dr. Milind J. Umekar, and Dr. Sohan Chitlange**.



Products: Therapeutic, Pharmacokinetic And Clinical Implications - A Comprehensive Review'. ON Saturday, 8th February 2025 at Hotel Taj Mahal Palace, Opp. Gateway of India, Mumbai



Research Title: "Design and optimization of lipid based topical drug delivery system"

Presenters: Mr. Pratik Barve

Event: Presented at the Controlled Release Society Indian Local Chapter's 23rd International Symposium, held on 27th and 28th February 2025 at The LaLit, Mumbai.



STUDENTS ACHIEVEMENTS



Congratulations to our students for successfully qualifying NIPER 2025



All India Rank - 6

Aman Gupta

All India Rank - 487



Siddhesh Terse

All India Rank - 136

Pranav

Sahasrabuddhe All India Rank - 520



Manigandan Thevar All India Rank - 408



Rohit Nikam All India Rank - 786

Project Name : Aavaran - Your Guardian Against Water Woes | Team Members : Manigandan Thevar, Sneha Krishnan, Myron D'Souza & Manasi Jathar | Guide:Prof. Supriya Shidhaye

Achievement : The project secured the **1st Runner-up** position in the Pharma/Bio/Chemical Technology category at CIIA 4.0, standing out among 700 projects and winning a cash prize of ₹50,000. Additionally, VES College of Pharmacy (VESCOP) was declared the 1st Runner-up at the **CIIA Innovation Awards** held on 7th February 2025.





Research Title: "Poly-Herbal Nanoemulgel: A Novel Approach for Osteoarthritis Treatment"

Presenters: Ms. Jueeli Shiriskar | Guide: Dr. Ganga Srinivasan, Dr. Neha Chhabra

Event: Presented at the Controlled Release Society Indian Local Chapter's 23rd International Symposium, held on 27th and 28th February 2025 at The LaLit, Mumbai.

STUDENTS ACHIEVEMENTS



VESCOP PHO received award from IPA MSB SF



Student: Neetiraj and his team members

Achievements: Secured 2nd position with trophy and cash prize in the BNCP's Parishodhana 9.0,



Student: Ms. Prachitee Ayare (Ph.D. Scholar) | Guide: Dr. Rajashree Hirlekar

Achievement: Secured First Place and a cash prize of ₹10,000 in the National Level Oral Research Presentation Competition at PHARMA AVINYA 2025, organized by NCRD's Sterling Institute of Pharmacy in association with ASSOCHAM IP Facilitation Centre.

2nd Prize Winners



Our exceptional team at the Department of Lifelong Learning and Extension, University of Mumbai has earned outstanding accolades at UDAAN Festival 25 in Elocution, Poster and Creative Writing, competing against colleges from all over Mumbai!



Research Title: "Development of Micro needle Patches for Enhanced Transdermal Delivery of Vitamins in Paediatric Population" | Student : Ms. Aakansha Soman (SYMPharm – Quality Assurance Department) | Guide: Mrs. Ashwini Wani |Co-Guide:Mrs. Pradnya Shinde Korlekar

Achievement: Secured the Third Prize at the 23rd International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems – CRS Indian Chapter.

PUBLICATIONS & BOOK CHAPTERS



Dr. Ganga Srinivasan - Cannabis-**Derived Pharmaceutical Products:** Therapeutic, Pharmacokinetic and Clinical Implications - A

Comprehensive Review, Indian Drugs, 2024, 61 (1010), 7-20. Indexed in Scopus.





Mrs. Ashwini Wani - Designing effective Film-Forming Systems: Key Considerations and Strategies,

Research J. Pharm. and Tech., 2025, 18 (2), 919-926. Indexed in



Scopus.



Mrs. Aishwarya Katkar - Evaluating the Impact of Pharmacists in Medication Therapy Management for

Neonatal Surgery, 2025, Vol. 14 (7), 527-534. Indexed in Scopus. JCR Impact 🔐 Factor-0.3





Dr. Mushtaque Shaikh - Hyaluronic acid based approaches for wound healing: A comprehensive

review, International Journal 🖳 of Biological Macromolecules,

2025, 306 (4), 141625, Indexed in Scopus. JCR Impact factor: 7.7





Mrs. Ashwini Wani, Mrs. Pradnya Korlekar, Dr. Mangal Nagarsenker - Comparative Evaluation of Cinnamomum Cassia and Cinnamomum Zeylanicum Microemulgels: Exploring the Potential

of Cinnamon Essential Oil Formulations, International Journal of Pharmaceutical Sciences and Nanotechnology, 2024, 176, 7657-7669. Indexed in Scopus.





Mrs. Sonali Munj - Development with greenness evaluation and validation of stability indicating ion-pair reverse phase HPLC method for determination of

related substances and assay of Nirmatrelvir drug substance, Analytical Chemistry Letters, 2025, 15, 65-82, . Indexed in Scopus. JCR Impact Factor-1





Dr. Supriya Shidhaye & Dr. Mangal Nagarsenkar Systemic delivery of sorafenib tosylate loaded LeciPlex®: A comparative assessment of

nano assembly, biocompatibility, and In vivo drug disposition, Journal of Drug Delivery Science and Technology, 108, 106899. Indexed in Scopus, JCR Impact Factor: 4.5





Dr. Harsha Kathpalia - Analytical techniques for Reverse Engineering of Reference products for the development of generic Oral Solid Dosage Forms,

International Journal of Pharmaceutical Sciences and Drug 雅 Research (IJPSDR), 2025, 171, 1-10. Indexed in UGC Care Group I.

Generic Product Development and Reverse Engineering of Reference Listed Drug Product, International Journal of Drug Delivery 🛃 Technology. , 2025, 1501, 351-58. Indexed in Scopus.





Dr. Ojaskumar Agrawal - Terminalia catappa aqueous extract reduces hyperglycaemia and oxidative stress in diabetic-hypercholesterolemic

rats, Journal of Ayurveda and Integrative Medicine, 2025, 16, 101025. Indexed in Scopus. JCR Impact Factor-1.7



Diagnosis and Mitigation of Communicable Diseases in the Era of Artificial Intelligence, International Journal of Research and Analytical Reviews, 2025, 121, 128-142. Indexed in UGC Care Group I.





Dr. Reshma Tendulkar - Engineering Genomic Landscapes: Synthetic Biology Approaches in Genomic Rearrangement. In Advances in Genomics Methods and Applications, Vijai Singh, Eds.

Springer Nature Link; pp 227-264



BOOK CHAPTERS



Mrs. Prachitee Ayare - Nanoclays in Food Packaging. In Functional Nanomaterials and Nanocomposites for Biodegradable Food Packaging, Madhusudhan Alle, Ruchir Priyadarshi, Shiv Dutt Purohit, Eds. Springer Nature; pp 211-236





Dr. Mangal Nagarsenker - Preformulation Studies for Microemulsion Formulation in 💷 👬 🔔 Pharmaceutical Microemulsions for Parenteral Delivery: From Bench to Bedside, Vivek Chawla and Vandana Patrawale, Eds. Apple Academic Press



PATENTS APPLIED

Sr. No	Topic Of The Patent	Name of the Inventor	Patent Application Number
1	Applicator delivery system for delivering one or more actives	Mrs. Pradnya Korlekar & Mr. Pratik Barve	202521033476
2	Multi protective peel off film forming solution	Dr. Supriya Shidhaye	202521043064

ARTICLE PUBLISHED IN SPECIAL ISSUE

"Importance of pharmacovigilance and medication safety in evolving pharma landscape" in pharmabiz.com by Principal Dr. Supriya shidhaye on Wednesday 04/06/2025

Importance of PV, medication safety in evolving pharma landscape

Dr. Supriya Shidhaye

HE pharmaceutical industry stands at a crossroads - rapid innovation in drug

development is occurring alongside growing concerns about patient safety and regulatory scrutiny. As the global medicine market continues to expand, so does the complexity of monitoring drug safety. At the heart of this evolving dynamic lies pharmacovigilance (PV), the science of detecting, assessing, understanding, and preventing adverse effects or any other drug-related problems.

Pharmacovigilance isn't just a regulatory formality anymore - it is a core pillar of industrial responsibility. Technologies like AI and real-time analytics are reshaping the pharmaceuti-cal landscape. PV is no longer a reactive process; it is proactive, predictive, and deeply integrated into both R&D and post-mar-

keting strategies. The origins of modern pharmacovigilance can be traced to the 1960s, triggered by a disaster that changed global drug regu-lation forever - the thalidomide tragedy. Marketed as a treatment for morning sickness, thalidomide caused severe birth defects in over 10,000 infants worldwide. This public health crisis forced governments to establish systematic drug safety protocols. In 1968, the WHO launched the Program for International Drug Monitoring (PIDM), signaling the start of a coordinated global PV effort. National regulatory agencies soon followed suit. The US FDA developed the Med-Watch system in the 1990s, and the European Medicines Agency introduced EudraVigilance in the early 2000s.

Fast forward to today, the pharmacovigilance is no longer confined to periodic safety reports. It's a sophisticated system powered by global databases, real-time signal detection, and patient-centric feedback loops.

Has pharmacovigilance made difference? a The data says yes. According to a 2023 report from the WHO's Uppsala Monitoring Centre, over 30 million Individual Case Safety Reports (ICSRs) have been collected globally since PV systems were established. Each report represents a real-world insight that can prompt label updates, usage restrictions, or even drug withdrawals.

Some measurable outcomes include:

- Over 200 drug label changes occur annually in the US due to post-marketing surveillance findings.
- The EMA reported that be-tween 2018 and 2022, 67% of drug recalls were triggered by PV data.
- The US FDA estimates that its pharmacovigilance systems help prevent 5,000 to 10,000 serious adverse events (SAEs) annually through early signal detection.
- One notable example: In 2010, PV data flagged a link between rosiglitazone (a diabetes drug) and cardiovascular risk. The resulting scrutiny led to tighter usage guidelines, potentially reducing thousands of heartrelated incidents. These outcomes aren't just regulatory victories - they represent lives saved and trust earned.

In the past, some pharma companies viewed pharmacovigilance as a regulatory checkbox. Not anymore. Today, pharmacovigilance is embedded in the drug lifecycle - from preclinical planning to post-market surveillance. It's also a strategic tool for risk management, brand reputation, and market sustainability.

The importance of robust crossroads systems becomes clear when reflecting on past experiences. For instance, a widely used pain relief medication was voluntarily withdrawn from the market in 2004 after postmarketing safety data revealed an increased risk of cardiovas-cular events. The case resulted in substantial legal settlements and highlighted significant reputational risks. Such instances underscore how crucial it is for pharmaceutical companies to invest in vigilant safety monitoring. Today, organizations that prioritize pharmacovigilance benefit from smoother regulatory interactions, improved patient outcomes, and enhanced trust - factors that contribute to longterm success and sustainability.

Hospitals and healthcare sys tems rely heavily on crossroads to catch adverse events early. According to the Institute for Safe Medication Practices, medication errors are responsible for 1 in 131 outpatient deaths and 1 in 854 inpatient deaths in the US alone. Clinicians are now required to report adverse events more systematically. Tools like electronic health record (EHR) integration and automated alerts have improved incident capture. Hospital pharmacovigilance teams also contribute to formulary decisions and patient education especially for high-risk drugs like biologics or anticoagulants.

The digital era has transformed consumers from passive recipients of care to active stakeholders in drug safety. Online platforms like the US FDA's MedWatch and EMA's ADR portal allow patients to report side effects directly. Mobile apps like the UK's Yellow Card Scheme have made adverse event reporting more accessible than ever. And people are using them. A 2022 study published in Drug Safety showed that 20-25% of ICSRs now come directly from patients in some countries. These reports often highlight real-world effects that clinical trials miss - like mood changes, skin reactions, or long-term fatigue. Informed consumers create a feedback loop that strengthens pharmacovigilance and promotes transparency. Pharma companies have taken note, often incorporating patient-reported outcomes into their post-market studies and label updates.

The next frontier of pharmacovigilance lies in technology - and it's already transforming the landscape. Artificial Intelligence (AI) and Natural Language Processing (NLP) are being harnessed to scan vast volumes of data from clinical trials, social media, electronic health records, and call centers to detect early safety signals. AI models can identify patterns in real time, flagging adverse events more rapidly and accurately than traditional methods. For instance, Roche's pharmacovigilance sys-tem leverages machine learning to process over 150,000 safety cases annually, increasing accuracy while reducing review time by 30%. Blockchain technology is also being explored to create secure, tamper-proof safety records. Meanwhile, predictive analytics is helping forecast high-risk populations even before a drug reaches the market. By automating case processing, accelerating literature screening, generating narratives, and enabling real-time monitoring, AI enhances the speed, precision, and compliance of pharmacovigi-lance systems. Ultimately, these innovations empower pharmaceutical companies and healthcare providers to ensure safer medications and better health outcomes for patients worldwide.

As the pharmaceutical landscape continues to innovate, the challenge isn't just to create new drugs - but to ensure they're as safe as they are effective. Pharmacovigilance has historically played a critical role in identifying medication safety concerns at earlier stages, thereby helping prevent adverse effects from impacting larger populations. Numerous drugs have been withdrawn or restricted based on evidence gathered through pharmacovigilance efforts, highlighting its importance in safeguarding public health.

When effectively integrated, these tools significantly strengthen pharmacovigilance systems. Many countries have implemented ro-bust regulatory frameworks for pharmacovigilance, leading to substantial improvements in patient safety and public confidence in healthcare systems.

Pharmacovigilance has evolved from a post-crisis reaction to a cornerstone of modern pharmaceuti-cal practice. It saves lives, protects brands, informs regulators, and empowers patients. In today's globalized and tech-driven health environment, failing to invest in PV isn't just irresponsible - it's selfdefeating.

> (Author is Principal. Vivekanand Education Society's College of Pharmacy (VESCOP)

ACADEMIC EVENTS



VES College of Pharmacy conducted a **Demonstrative session for the students of R A Podar Medical College (Ayu.)**. The undergraduate students were explained and demonstrated the various techniques for the physicochemical and phytochemical analysis of herbal crude drugs

The Pharmaceutics Department, successfully conducted the **8th Annual Lecture Series**. Title of the Seminar: Empowering Pharma Careers: Skill Development for Industry Excellence





Typologies

Research and Development Cell organized **Mimansa 3.0:** Presentation of Innovative Solutions to industry defined problems, 05-03-2025, Presentations by SY M Pharm. Industry expert as Judge: Dr. Hitesh Doshi.

Department of Pharmacology conducted a Two Days Workshop on **Experimental Pharmacology**- 15th & 16th May 2025, in collaboration with **B.V.Patel Education Trust**, **Ahmedabad**.





ACADEMIC EVENTS

Department of Pharmaceutical Chemistry Organized a Two Days Workshop on **'Innovative Computational Approaches in Pharmaceutical Research'** on 22 & 23 May 2025, in collaboration with **B.V. Patel Education Trust, Ahmedabad.**





A **self defence training** was conducted in collaboration with NSS at Bhokarpada, Maharashtra. 25 students attended this session which will help in boosting their confidence, developing practical skills, raising awareness and fostering a supportive environment.

PRERNA: A Journey of Inspiration, Public Health Service Drive - Location: Asha Nivas Hostel, ACTREC, Kharghar/Navi Mumbai Cancer awareness

program by V Care foundation, Conducted by Mrs. Jyoti Shah, CEO of V care foundation



MOU SIGNED



VESCOP has signed a MoU with BVPET, Ahmedabad on 23rd May 2025. The MoU was signed by Dr. Supriya Shidhaye, Principal VESCOP and Dr. Manish Nivsarkar, Director **B.V. Patel Education Trust, Ahmedabad.**

VESCOP faculty members, Dr. Manasi Gholkar and Dr. Vaishali Jadhav visited **Podar Ayurvedic Medical College** on 30 th November 2024. The MOU was signed by the Dean of the institute Dr. Sampada Sant and Associate Professor Dr. Kailas Sonmankar from Podar College.



VES College of Pharmacy partners with **Arihant Innochem** for industry-driven **online certificate course** on excipients in pharmaceutical formulations.

AAVISHKAR 2024 - 2025



INDUSTRIAL VISITS



Department Pharmaceutics and Qualiy assurance visited to an Exhibition 'Analytica Lab India 2025 - Mumbai Edition' with FY M Pharm students at Jio Centre, BKC.

Department of Pharm. Chem. organized a field visit for F.Y.MPharm. (Pharm Chem) to the School of Biological Sciences at the Centre for Excellence in Basic Sciences (CEBS), Mumbai University campus, Kalina. Santacruz (E) Mumbai Faculty Member Mr. Archit Kadu and Mrs Palak Guided the tour.



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Department of Quality Assurance organized a Field Exposure visit of F. Y. M. Pharm students to the Common Effluent Treatment Plant (CETP), Navi Mumbai, Navi Mumbai, on 4th June, 2025



GRANTS RECEIVED

Mrs Pradnya Korlekar, Mr Avinash Suryawanshi, Mrs Mamta Venna. Sponsored project: Preclinical Evaluation of a Novel Dosage Form. **School of Pharmacy, Queen's University, Belfast. Grant sanctioned: Rs. 6, 02, 980**/, Received: Rs. 3, 11, 798.37.

School Connect 2.0

Vivekanand Education Society's College of Pharmacy successfully conducted three impactful sessions under the **School Connect** 2.0 initiative from 13th to 15th January 2025, aimed at sensitizing junior college students to the National Education Policy 2020. A total of 384 students from Swami Vivekanand Junior **College and Amar Shaheed Hemu Kalani** Junior College enthusiastically participated. Expert sessions by Dr. Sonali Pednekar, Dr. Supriya Shidhaye, and Dr. Preeta Nilesh covered the transformative vision of NEP 2020, government initiatives like SWAYAM and PM Vidyalaxmi, and resources for academic advancement. The sessions not only raised awareness but also motivated students to pursue higher education confidently, marking a successful outreach under NEP sensitization.





NEW FACULTY



Mrs. Aishwarya Katkar, Assistant Professor at VESCOP, is pursuing her PhD and holds a B.Pharm from OES Oriental College of Pharmacy and an M.Pharm (Pharmaceutics) from SVKM's BNCP, University of Mumbai. With over 10 years of UG and PG teaching experience, she is actively involved in teaching, research, and academic administration, with 7 publications and a book to her credit, focusing on novel drug delivery systems.



Dr. Haritha Mukund, She has completed Pharm D (Doctor of Pharmacy) from Dr. MGR Medical University, Chennai. She also has a brief clinical experience as a clinical pharmacist in Lilavati Hospital, Mumbai. She recently joined VESCOP as an Assistant Professor in the Department of Pharmacology

SERVICES ON OFFER



Fourier Transform Infrared Spectrophotometer (FTIR) (Make- Shimadzu)



Ultra Centrifuge (Make: Beckman Coulter)



Particle Size Analyser (Make: Malvern)



Probe Sonicator (Make: Oscar Ultrasonic)



Rotary Evaporator (Make: Super Fit)



Freeze Dryer (Make: Christ Alpha 1-2 D Plus)



High Pressure Homogenizer (Make: Avestin)



Diffusion Cell Assembly with Autosampler (Make: Teledyne Hanson)



Rotary Tablet Compression Machine (Make: Karnavati)



High Performance Liquid Chromatography (Make- Shimadzu)



High Performance Liquid Chromatography with PDA (Make- Jasco)



Ultra Performance Liquid Chromatography (Make: Waters Acquity Model: UPLCHCLASSI-A237

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High performance Thin Layer Chromatography (Make - CAMAG Linomat 5)

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