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SUMMER 2026

JANUARY 2026
TO
JUNE 2026

Pharmvidya

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RESEARCH & INNOVATION
Exploring new frontiers in pharmaceutical sciences

ACADEMIC EXCELLENCE
Achievements, publications and scholarly pursuits

STUDENT CORNER
Creativity, talents and future leaders in making

EVENTS & ACTIVITIES
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Message From Hon. Managing Trustee Shri. Manhar Bhai L. Patel



Shri. Manhar Bhai L. Patel

Reflecting on the past year, I am filled with pride as I consider the collective achievements that have defined our institution's progress. We have demonstrated remarkable resilience, adaptability, and innovation in overcoming challenges, emerging stronger and more united than ever before.

Our faculty members have consistently inspired and guided our students, instilling in them a deep passion for learning and a commitment to excellence. Their dedication and expertise have been pivotal in upholding the high educational standards for which Shree Naranjibhai Lalbhai Patel College of Pharmacy (SNLPCP) is renowned.

I wholeheartedly commend our students for their relentless effort, determination, and enthusiasm. Their active engagement in various academic, extracurricular, and community service activities has enriched our campus life, contributing to a vibrant and dynamic learning environment.

At SNLPCP, we are dedicated not only to academic excellence but also to nurturing well- rounded individuals. Our goal is to equip them with the skills and knowledge needed to make meaningful contributions in their chosen fields and beyond.

Our dedication to forging robust partnerships with leading organizations has created new opportunities for both our students and faculty. Through collaborative research projects, internships, and industry placements, we are preparing our graduates to meet the evolving demands of the global workforce.

As we look to the future, we remain committed to our mission of empowering the next generation of leaders and innovators. Together, we will continue to strive for excellence, embrace change, and make a significant impact on the world.

I extend my sincere gratitude to everyone in the SNLPCP family for your unwavering support and dedication. Your contributions are truly invaluable, and I eagerly anticipate the achievements we will accomplish together in the coming years.

Message from the Secretary Shri. Kirit Bhai N. Patel



Shri. Kirit Bhai N. Patel

In our quest for continual enhancement, we are committed to embracing innovation and adapting to the dynamic landscape of higher education. Through strategic initiatives and alliances, we aim to stay at the cutting edge of educational trends and prepare our students for success in a swiftly changing world.

As we reflect on our successes, we also recognize the hurdles that lie ahead. However, with the collective efforts of our academic community, I am confident that we will surmount these challenges and continue to reach new pinnacles of excellence.

I extend my sincere gratitude to each member of our academic family for your dedication, passion, and tireless efforts in advancing our shared mission. Together, we will continue to inspire, innovate, and make a positive impact on the lives of our students and the communities we serve.

Thank you for your unwavering commitment to excellence. I look forward to celebrating many more milestones and achievements together in the future.

Message from the Co-Secretary Shri. Bharat Bhai S. Patel



Shri. Bharat Bhai S. Patel

As we navigate through these pages, we celebrate not only our achievements but also the values that underpin our academic community: integrity, inclusivity, and a relentless pursuit of excellence. It is through these principles that we cultivate leaders, thinkers, and change-makers who are equipped to address the complex challenges of our time.

Our institution is more than just a place of learning; it is a hub of innovation and discovery. From groundbreaking research projects to transformative educational initiatives, we are dedicated to pushing the boundaries of knowledge and empowering our students to become lifelong learners and critical thinkers.

I am immensely proud of the collaborative spirit that permeates every aspect of our institution. Whether through interdisciplinary research collaborations, student-led initiatives, or partnerships with industry and community organizations, we are constantly seeking new ways to make a positive impact on society.

As we reflect on the past year, we acknowledge the resilience and adaptability that have been essential in navigating the unprecedented challenges we have faced. Despite the obstacles, our academic community has remained steadfast in its commitment to academic excellence, student success, and the greater good.

Looking forward, we are filled with optimism and excitement for the future. With the continued dedication and support of our faculty, staff, students, alumni, and partners, I am confident that Shree Narnajibhai Lalbhai Patel College of Pharmacy (SNLPCP) will continue to thrive as a beacon of knowledge, innovation, and social responsibility.

Thank you to everyone who has contributed to our success and who continues to champion our mission. Together, we will continue to inspire, innovate, and make a difference in the lives of individuals and communities around the world.

Message from office Superintendent Mr. Savan B. Patel



Mr. Savan B. Patel

In addition to our administrative responsibilities, we recognize the importance of fostering a culture of inclusivity and support within our academic family. By valuing diversity and embracing different perspectives, we create a welcoming and supportive environment where every member feels respected and empowered to contribute their unique talents and ideas.

I am continuously impressed by the creativity and innovation that our administrative team brings to their roles. From implementing new technologies to streamlining procedures, your proactive approach helps us stay agile and responsive to the evolving needs of our community.

As we strive for continuous improvement, I am committed to providing opportunities for professional development and growth. Whether through training programs, mentorship initiatives, or leadership opportunities, we are invested in helping each member of our team reach their full potential.

I am grateful for the dedication and hard work of our administrative staff, whose behind-the-scenes efforts are instrumental in supporting the academic mission of our institution. Your tireless commitment to excellence ensures that our faculty and students can focus on their work and achieve their goals.

Together, we are shaping the future of our institution and making a positive impact on the lives of those we serve. I am proud to be part of such a dedicated and talented team, and I look forward to the continued success and growth of our academic community.

Thank you for your unwavering dedication and contributions to our shared mission. Your efforts are truly appreciated, and I am confident that together, we will continue to achieve great things.

From Principal's Desk



Dr. Ketan V. Shah

An essential component of society's overall development is education. There is little doubt that education plays a function beyond simply imparting and absorbing theory and knowledge. The real purpose of education goes much beyond merely giving students diplomas and degrees. "By education I mean an all-round drawing out of the best in child and man-body, mind and spirit," as Mahatma Gandhi once stated. The ultimate aim of education is to find the meaning of life and to fulfill oneself, as well as all of humanity. Knowledge, humanity, culture, wisdom, and sharpness are the goals of education; yet, it should be remembered that character is developed rather than given, and knowledge must be earned.

Shree Naranjibhai Lalbhai Patel College assists in the development of a student's personality, extracurricular activities, and overall worldview in addition to its theoretical education. We have all the qualities of a top-notch institution: a well-trained faculty, an extensive library, a placement office, innovative teaching strategies, and freedom to think and express oneself. The goal of higher education in rural areas is linked to employment because it guarantees a good attitude to view the world from a better perspective and to evaluate, identify, and apply a person's ideas in a way that contributes to the positive development of society. I genuinely think that there is more to our college than just education. It offers you an opportunity to develop by providing you with all the tools you need to succeed.

It is a matter of great pride and satisfaction for SNLPCP to bring out the magazine PHARMVIDYA. The college has made tremendous progress in all areas- academic, non-academics, capacity building relevant to staff and students. The College has achieved another milestone in getting NBA (National Board of Accreditation). I am confident that this issue of PHARMVIDYA will send a positive signal to the staff, students and the person who are interested in the technical education and Technology based activities. A magazine is like a mirror which reflects the clear picture of all sorts of activities undertaken by a department and develops writing skills among students in particular and teaching faculty in general. I congratulate the Editorial Board of this magazine who have played wonderful role in accomplishing the task in Record time.

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PHARMACIST OATH

I swear by the Code of Ethics of Pharmacy Council of India in relation to the community and shall act as an integral part of the health care team.

I shall uphold the laws and standards governing the profession.

I strive to perfect and enlarge knowledge to contribute to the advancement of Pharmacy and public health.

I shall follow the best system for pharmaceutical care and counseling of patients.

I shall discover and manufacture quality drugs to alleviate sufferings of humanity.

I hold in confidence including knowledge related to professional practices and only divulge unless compelled to do so by law!

While I continue to keep this oath unviolated, may it be granted to me to enjoy life and the practice of pharmacy respected by all, at all times!

ABOUT THE INSTITUTE



Shree Naranjibhai Lalbhai Patel College of Pharmacy, Umrakh was established in the year 2004 under the ages of Vidyabharti Trust with main objective of visionary in the mission of quality Pharmacy education.

Shree Naranjibhai Lalbhai Patel College of Pharmacy is located on the way of Bardoli-Mota Road 3 kilometer away from Bardoli and 34 kilometers away from Surat in a lush green sprawling campus with sufficient infrastructure facilities.

The college is approved by the Pharmacy Council of India (PCI) - New Delhi, recognized by Government of Gujarat and affiliated to Gujarat Technological University (GTU), Ahmedabad. At this moment Shree Naranjibhai Lalbhai Patel College of Pharmacy offers B. Pharm and M. Pharm course in Pharmaceutics, Quality Assurance & Pharmacology to input knowledge and empower individuals with wisdom to prepare pharmacist of the future. Our B. Pharm Course is re-accredited by NBA up to June 2027.

VISION AND MISSION OF THE INSTITUTE



❖ VISION OF THE INSTITUTE

To emerge as the most preferred pharmacy institute and to develop pharmacists who will lead the nation to a better future.

❖ MISSION OF THE INSTITUTE:

- To provide a stimulating environment where knowledge of basic subjects is integrated with health concerns for the world community.
- To inculcate professional ethics, social responsibility and commitment for lifelong learning.
- To march on a par with current developments to become a professionally competent.

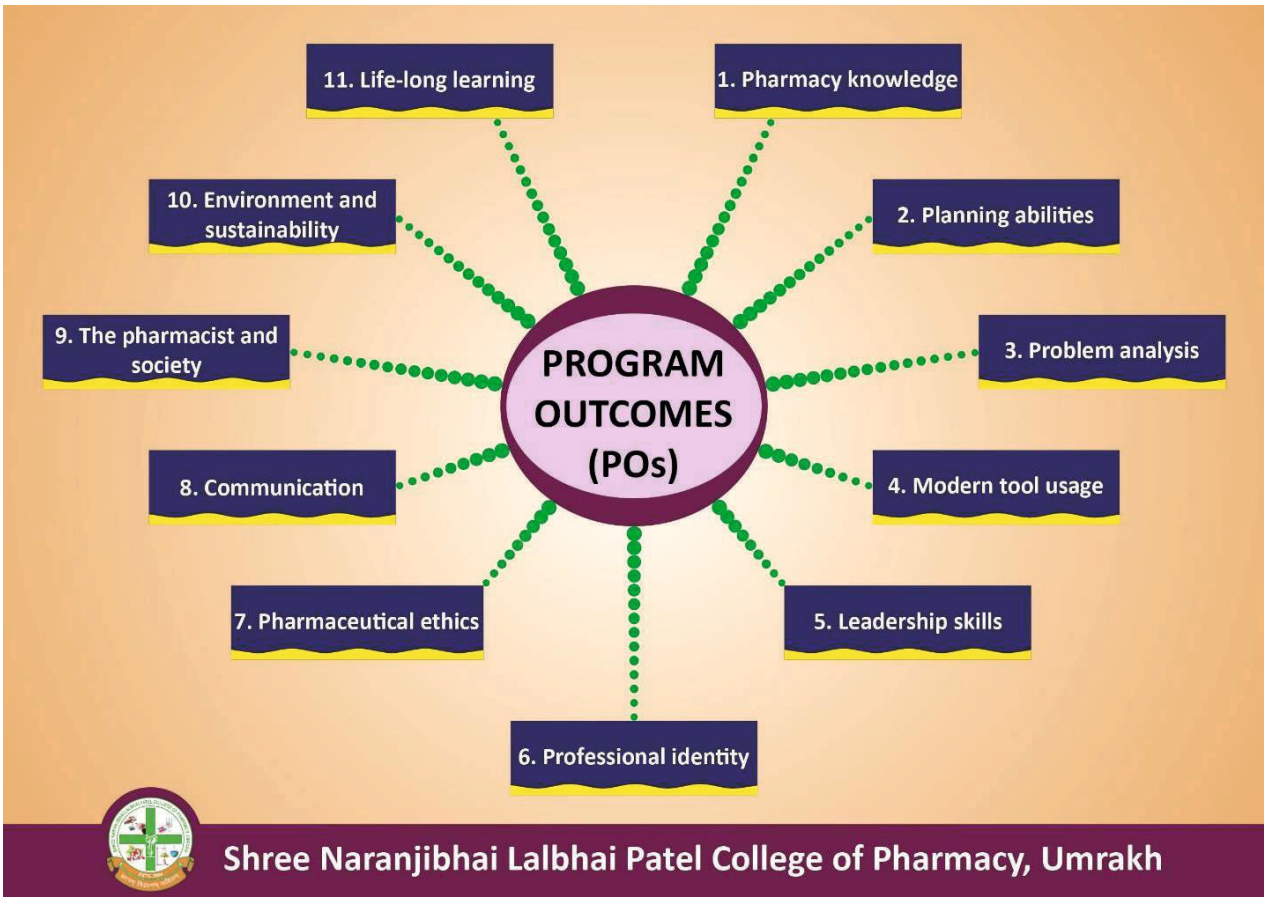
PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1: Knowledge: Graduates of the program will be having strong background along with necessary skill set in pharmaceutical sciences and able to use these tools in pharmaceutical industry, community pharmacy and institutes or wherever in the area of profession they choose necessary for success.

PEO2: Competency: Become a competent pharmacy professional and work at responsible positions in various areas of pharmaceutical industry and allied fields.

PEO3: Professionalism: Inculcate professional and ethical values in students to function productively in professional environment.

PROGRAM OUTCOMES (POS)



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Ms. SHITAL PATEL

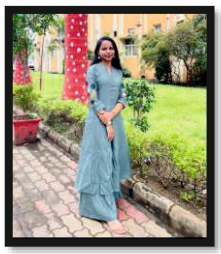
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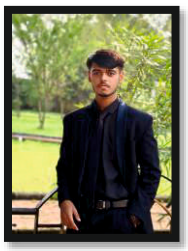
STUDENT EDITORIAL



Desai Kush



Patel Nirali



Patel Harsh



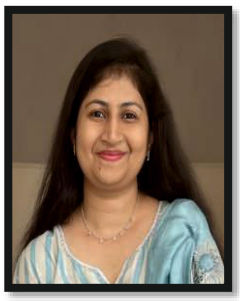
Parekh Saptak



Mistry Heni

The Academic Team

				
Dr. Dipansu Sahu Professor M. Pharm, Ph.D	**Dr. Hemal Bhuva** Professor M. Pharm, Ph.D	**Dr. Ashok Akabari** Professor M. Pharm, Ph.D	**Dr. Vipul Gajera** Professor M. Pharm, Ph.D	**Dr. Devendrakumar Vaishnav** Professor M. Pharm, Ph.D
				
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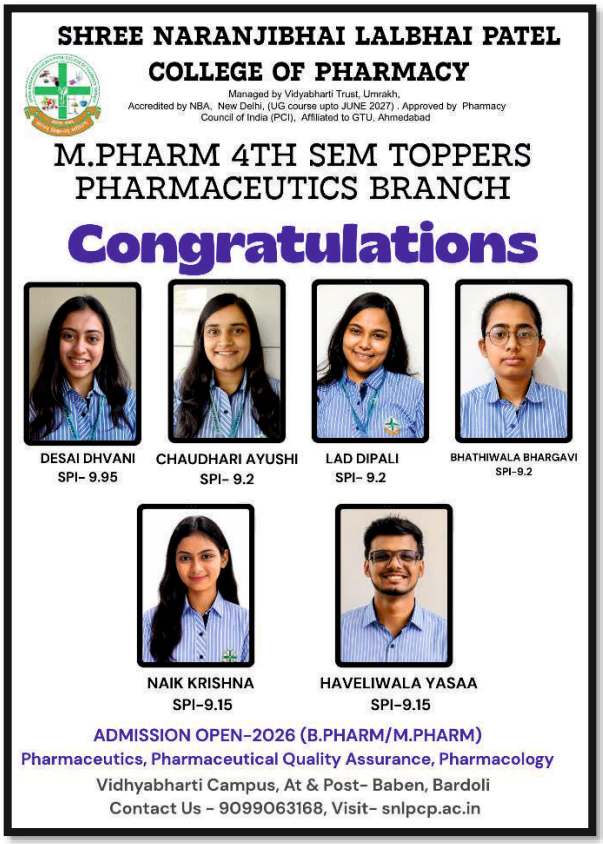
Commemorating Academic Achievements

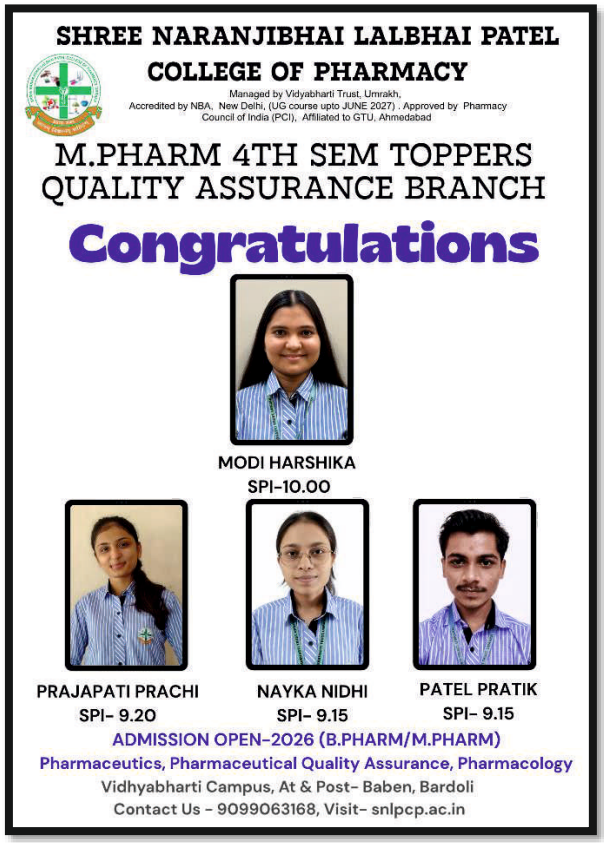
Celebrating the Journey of Knowledge and Growth

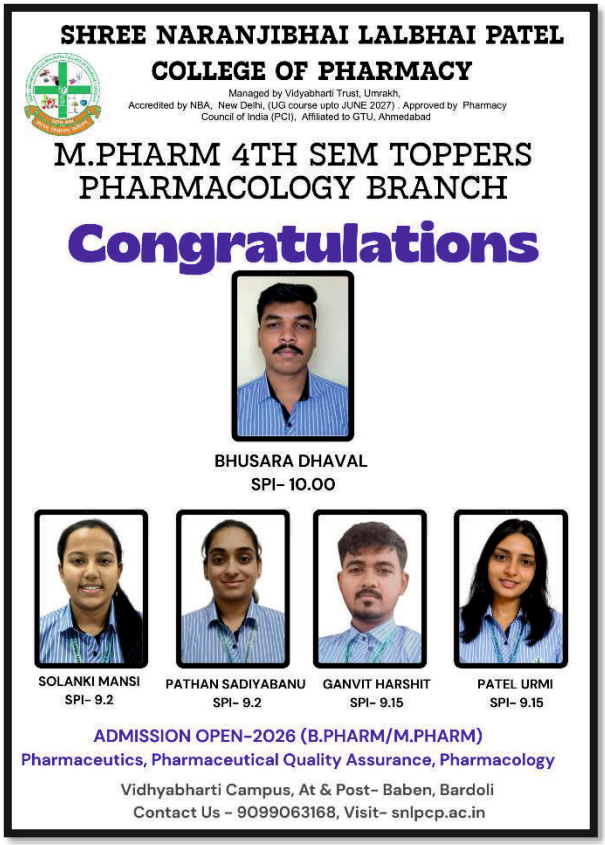
1. EMINENT ACHIEVERS: SUMMER 2026



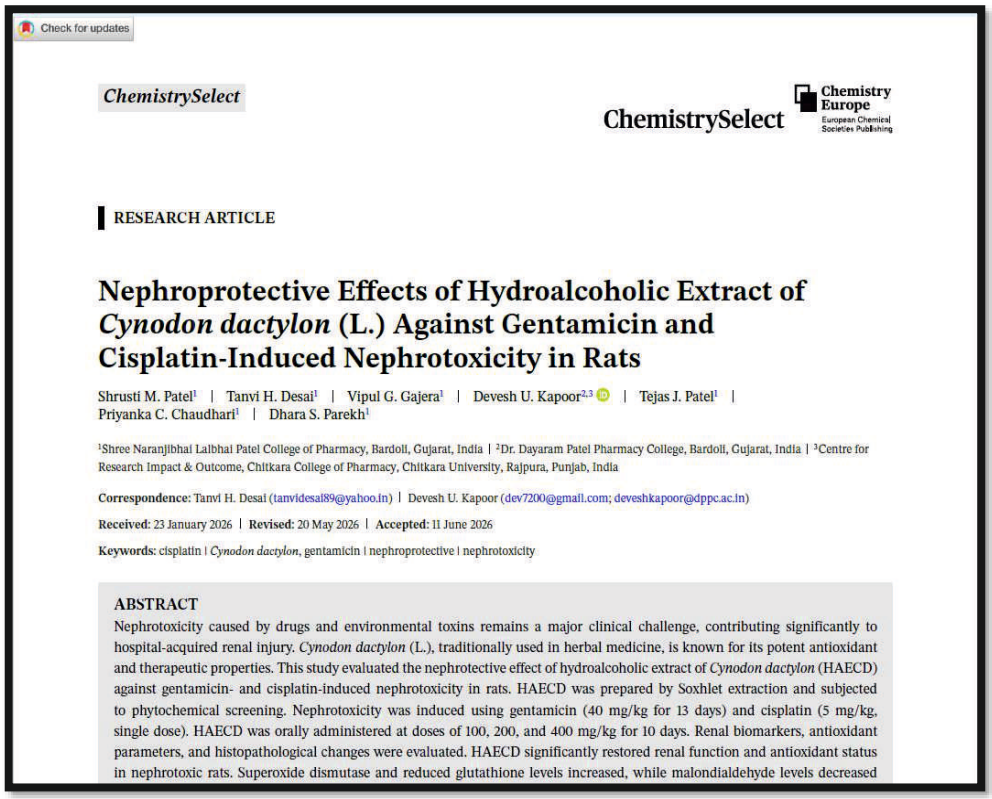



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2. RESEARCH AND RECOGNITION



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RESEARCH ARTICLE

Nephroprotective Effects of Hydroalcoholic Extract of *Cynodon dactylon* (L.) Against Gentamicin and Cisplatin-Induced Nephrotoxicity in Rats

Shrusti M. Patel[1] | Tanvi H. Desai[1] | Vipul G. Gajera[1] | Devesh U. Kapoor[2,3] | Tejas J. Patel[1] | Priyanka C. Chaudhari[1] | Dhara S. Parekh[1]

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Received: 23 January 2026 | **Revised:** 20 May 2026 | **Accepted:** 11 June 2026

Keywords: cisplatin | *Cynodon dactylon*, gentamicin | nephroprotective | nephrotoxicity

ABSTRACT

Nephrotoxicity caused by drugs and environmental toxins remains a major clinical challenge, contributing significantly to hospital-acquired renal injury. *Cynodon dactylon* (L.), traditionally used in herbal medicine, is known for its potent antioxidant and therapeutic properties. This study evaluated the nephrotective effect of hydroalcoholic extract of *Cynodon dactylon* (HAECD) against gentamicin- and cisplatin-induced nephrotoxicity in rats. HAECD was prepared by Soxhlet extraction and subjected to phytochemical screening. Nephrotoxicity was induced using gentamicin (40 mg/kg for 13 days) and cisplatin (5 mg/kg, single dose). HAECD was orally administered at doses of 100, 200, and 400 mg/kg for 10 days. Renal biomarkers, antioxidant parameters, and histopathological changes were evaluated. HAECD significantly restored renal function and antioxidant status in nephrotoxic rats. Superoxide dismutase and reduced glutathione levels increased, while malondialdehyde levels decreased



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Formulation and evaluation of *Thuja occidentalis* herbal gel for anti-wart activity

Shah Maitri, Surti Rinal, Vadhaiya Nidhi, Dhara Parekh, Vipul Gajera, Tanvi Desai, Priyanka Chaudhari and Shital Patel

DOI: https://www.doi.org/10.33545/2664763X.2026.v8.i6a.100

Abstract

Warts are benign skin growths caused by Human Papillomavirus (HPV) infection and are commonly associated with discomfort, cosmetic concerns, and recurrence after treatment. Conventional therapies such as cryotherapy, laser therapy, and chemical cauterization may cause pain, scarring, and other adverse effects. Therefore, the development of safe and effective herbal alternatives has gained significant attention. The present study aimed to formulate and evaluate a *Thuja occidentalis*-based herbal gel for its potential anti-wart activity.

The leaves of *Thuja occidentalis* were collected, authenticated, shade-dried, powdered, and extracted using 70% ethanol by Soxhlet extraction. The extract was subjected to preliminary phytochemical screening and incorporated into a gel formulation using Carbopol 934. The prepared gel was evaluated for physicochemical parameters including colour, odour, consistency, pH, spreadability, viscosity, homogeneity, and extrudability. *In vitro* antioxidant activity was assessed using Hydrogen Peroxide and Nitric Oxide scavenging assays, while anti-inflammatory activity was evaluated by the Protein Denaturation assay. Total phenolic and total flavonoid contents were also determined.

Phytochemical screening revealed the presence of alkaloids, terpenoids, flavonoids, saponins, phenolic compounds, and tannins. The formulated gel exhibited satisfactory physicochemical properties with a pH of 6.8, good homogeneity, viscosity, spreadability, and extrudability, indicating its suitability for topical application. The formulation demonstrated significant antioxidant activity with maximum Hydrogen Peroxide scavenging activity of 58.57% and Nitric Oxide scavenging activity of 60%. Anti-inflammatory evaluation showed 56.10% inhibition of protein denaturation. The total phenolic and flavonoid contents were found to be 80 µg/mL and 82 µg/mL, respectively.

The findings suggest that the formulated *Thuja occidentalis* herbal gel possesses promising antioxidant and anti-inflammatory properties that may contribute to its anti-wart potential. The study supports the use of *Thuja occidentalis* as a promising herbal ingredient for topical wart management.

Keywords: *Thuja occidentalis*, herbal gel, anti-wart activity, antioxidant activity, anti-inflammatory activity, phytochemical screening

Dudhwala *et al. Health Nanotechnology* (2026) 2:7
https://doi.org/10.1186/s44301-026-00029-5

Health Nanotechnology

REVIEW Open Access

Ligand-functionalized nanocarriers for targeted breast cancer therapy: advances in receptor-mediated drug delivery

Yash D. Dudhwala[1*], Riya K. Mehta[1], Devesh U. Kapoor[2,3*], Dhiren P. Shah[4], Ketan V. Shah[1] and Vipin Saini[5]

Abstract
Breast cancer remains one of the most common malignancies found in women worldwide, with treatment outcomes often limited by nonspecific pharmacokinetics, systemic toxicity, and intratumoral heterogeneity. This review synthesizes recent advances in ligand–receptor–mediated nanocarrier systems explored for breast cancer drug delivery. First, it discusses the molecular diversity of breast cancer subtypes and highlights a number of commonly investigated targets, including HER2, CD44, estrogen receptors, folate receptor, and transferrin receptor, with particular emphasis on their relevance to receptor-mediated uptake. Ligand-functionalized nanocarriers have demonstrated improved receptor-specific binding and cellular internalization in preclinical models, potentially enabling enhanced intratumoral drug exposure while limiting off-target interactions. A wide range of ligands, including monoclonal antibodies, peptides, aptamers, and small molecules such as folic acid, is being investigated to facilitate site-specific delivery and to overcome mechanisms associated with multidrug resistance. Furthermore, dual- and multi-ligand designs and stimuli-responsive platforms are being developed to address intratumoral heterogeneity and achieve controlled payload release. Overall, ligand-directed nanocarrier systems represent a promising approach; however, the majority of platforms remain in preclinical development or early-stage clinical testing. Additional effort is needed to establish clinical benefit, enable scaleable manufacturing, and harmonize safety and regulatory considerations. Future directions include refinement of translational study design and integration of theranostic capabilities to support treatment monitoring.

Keywords Nanoparticles, Ligand targeting, Folate receptors, Targeted drug delivery, Breast cancer

Medical Oncology (2026) 43:197
https://doi.org/10.1007/s12032-026-03307-5

REVIEW ARTICLE

Harnessing nanoparticles to unlock the therapeutic potential of triptolide in cancer treatment

Sambhavi Swarn[1] · Tanvi Desai[2] · Sonam M Gandhi[3] · Vipin Saini[4] · Shadma Wahab[5] · Devesh U Kapoor[6,7]

Received: 1 December 2025 / Accepted: 15 June 2026
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Abstract
Cancer is the second leading cause of death globally, responsible for nearly 9.8 million deaths and 19.2 million new cases annually, a figure projected to rise to 13 million deaths and over 21 million new cases by 2030. Despite advances in diagnosis and therapy, limitations such as systemic toxicity, drug resistance, and non-specific targeting hinder effective treatment outcomes. Triptolide (TPL), a diterpenoid triepoxide derived from Tripterygium wilfordii Hook F, exhibits potent anticancer activity by inducing apoptosis, inhibiting angiogenesis, modulating immune responses, and sensitizing resistant cancer cells. However, its clinical utility is restricted by poor solubility, rapid metabolism, and multi-organ toxicity. Recent advancements in nanotechnology have enabled the development of nanocarrier-based delivery systems that improve TPL's bioavailability, pharmacokinetics, and tumor-targeting efficiency. Nanoplatforms such as polymeric nanoparticles, liposomes, micelles, dendrimers, and biomimetic vesicles allow controlled release, enhanced tumor accumulation, and reduced systemic toxicity. These systems also facilitate synergistic co-delivery with chemotherapeutics, overcoming multidrug resistance. This review comprehensively highlights the formulation strategies, mechanistic insights, and preclinical applications of TPL-loaded nanocarriers across various cancers, along with current challenges and translational perspectives. Collectively, nanocarrier-mediated TPL delivery offers a safer and more effective approach, redefining future directions in cancer therapy.

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Therapeutic potential of ailanthus excelsa Roxb. leaf extract in experimental rheumatoid arthritis: Pharmacological and histopathological insights

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ARTICLE INFO

Keywords:
Ailanthus excelsa
Rheumatoid arthritis
CFA
Tree of Heaven

ABSTRACT

Introduction: *Ailanthus excelsa* Roxb. (Simaroubaceae), commonly known as the Tree of Heaven and referred to in Chinese as Chouchun (*Chinese Pinyin*), has been used for conditions characterized by pain, swelling, and restricted joint movement, which correspond to "Bi syndrome" in Traditional Chinese Medicine (TCM). Various parts of the plant have also been employed for treating diarrhea, dysentery, bronchial ailments, fever, and skin disorders, reflecting its presumed anti-inflammatory, antimicrobial, and detoxifying properties. Therefor the present study aimed to evaluate the anti-arthritic potential of a hydro-alcoholic extract of *A. excelsa* leaves (HEAEL) using an experimental model of arthritis.

Methods: HEAEL was prepared by Soxhlet extraction and subjected to preliminary phytochemical Nscreening. Major phytoconstituents were further evaluated in silico using PASS Online for prediction of pharmacological activities. Arthritis was induced in Wistar rats by Complete Freund's Adjuvant (CFA). HEAEL was administered orally at doses of 100, 200, and 400 mg/kg. Anti-arthritic efficacy was assessed through changes in body weight, paw volume, and arthritic index. Hematological, biochemical, oxidative stress parameters, and histopathological evaluations of joint tissues were performed.

Results: HEAEL produced significant and dose-dependent anti-arthritic effects compared with arthritic control rats ($P < 0.05$). Treated groups showed improvement in body weight (250 ± 0.81, 253 ± 0.57, and 256 ± 0.77 g at 100, 200, and 400 mg/kg, respectively) along with significant reductions in paw volume and arthritic index. Hematological and biochemical analyses revealed increased hemoglobin and RBC counts and significant decreases in WBC count, platelet count, ESR, C-reactive protein, and rheumatoid factor levels (4.10 ± 0.36, 3.20 ± 0.39, and 2.96 ± 0.42, respectively; $P < 0.05$). HEAEL markedly attenuated oxidative stress, evidenced by a 45–62 % reduction in malondialdehyde levels. Histopathological examination confirmed substantial protection against synovial hyperplasia, inflammatory cell infiltration, and joint destruction.

Discussion: The observed anti-arthritic effects of HEAEL may be attributed to its phytochemical constituents with predicted anti-inflammatory and antioxidant activities. Overall, the findings demonstrate that HEAEL possesses significant anti-arthritic potential and may serve as a promising therapeutic candidate for the management of rheumatoid arthritis.

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V. 93, N 2 JOURNAL OF APPLIED SPECTROSCOPY MARCH — APRIL 2026

DEVELOPMENT AND VALIDATION OF ECO-FRIENDLY UV SPECTROSCOPIC AND RP-HPLC METHODS FOR SIMULTANEOUS QUANTIFICATION OF EMPAGLIFLOZIN AND LOSARTAN: GREENNESS ASSESSMENT USING BAGI, CACI **

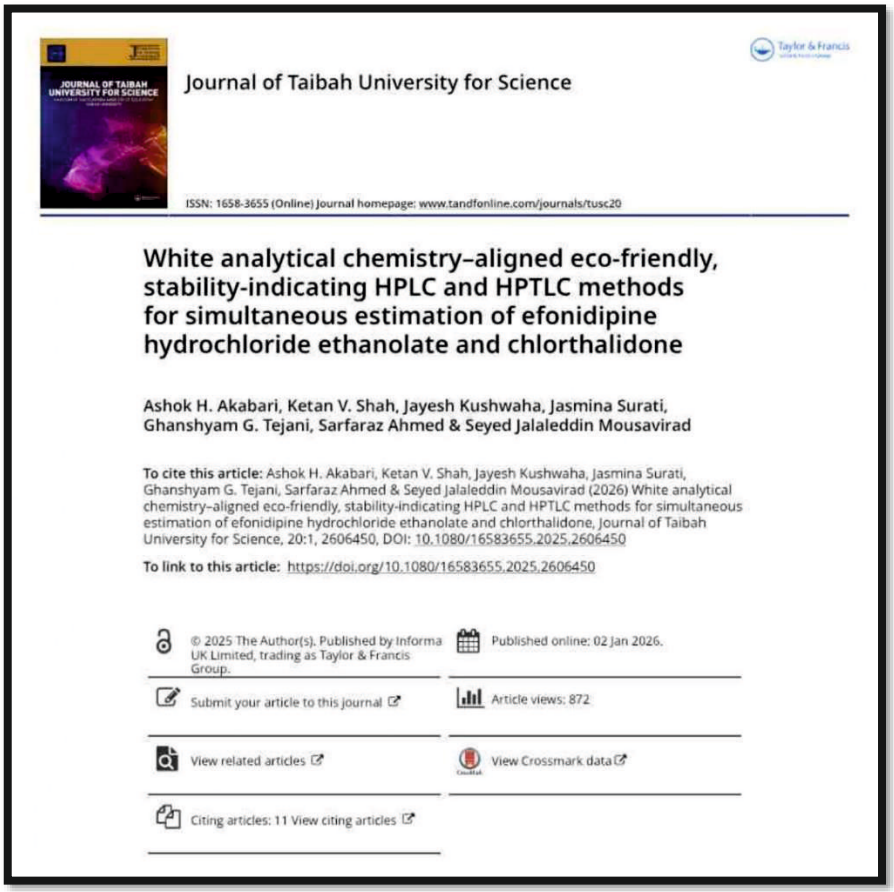
Kunj Patel [1], Krishna Kalsara [1], Mitali Dalwadi [1], Siddhi Upadhyay [1], Priyanka Patil [1], Umesh Upadhyay [1], Ketan Shah [2], Ashok H. Akabari [2*]

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The aim of this study is to develop and validate UV spectrophotometric and RP-HPLC methods for the simultaneous quantification of empagliflozin and losartan in a synthetic fixed-dose combination. In addition to method validation, a sustainability and complexity assessment was performed to support method selection for routine pharmaceutical analysis. The UV method is based on a Q-absorbance ratio approach using 225 and 239.20 nm, while the HPLC method employed a C18 column with a mobile phase of orthophosphoric acid buffer (pH 3.0) and acetonitrile (50:50, v/v), at a flow rate of 1.0 mL/min with detection at 217 nm. Both methods were validated according to ICH Q2(R2) guidelines. Further evaluation was conducted using the blue applicability grade index (BAGI) and click analytical chemistry index (CACI) to assess greenness and procedural efficiency. Both methods demonstrated excellent linearity ($r^2 > 0.996$), precision (%RSD < 2), and recovery within the acceptable range of 98–102%. The UV method achieved good scores in environmental sustainability (BAGI = 82.5) and practical simplicity (CACI = 74) compared to the HPLC method (BAGI = = 72.5, CACI = 77). The assay results confirmed the accuracy of both methods for simultaneous estimation of empagliflozin and losartan without interference from excipients. The developed UV spectrophotometry and RP-HPLC methods are found to be accurate, precise, and suitable for routine estimations of empagliflozin and losartan in bulk and laboratory-prepared mixtures. The greenness assessments of developed methods further support the UV method as a more sustainable and efficient choice, while the HPLC method remains preferable where greater sensitivity or automation is required.

Keywords: *empagliflozin, losartan, RP-HPLC method, UV Spectrophotometry method, Greenness assessment, blue applicability grade index (BAGI), click analytical chemistry index (CACI).*



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White analytical chemistry–aligned eco-friendly, stability-indicating HPLC and HPTLC methods for simultaneous estimation of efonidipine hydrochloride ethanolate and chlorthalidone

Ashok H. Akabari, Ketan V. Shah, Jayesh Kushwaha, Jasmina Surati, Ghanshyam G. Tejani, Sarfaraz Ahmed & Seyed Jalaleddin Mousavirad

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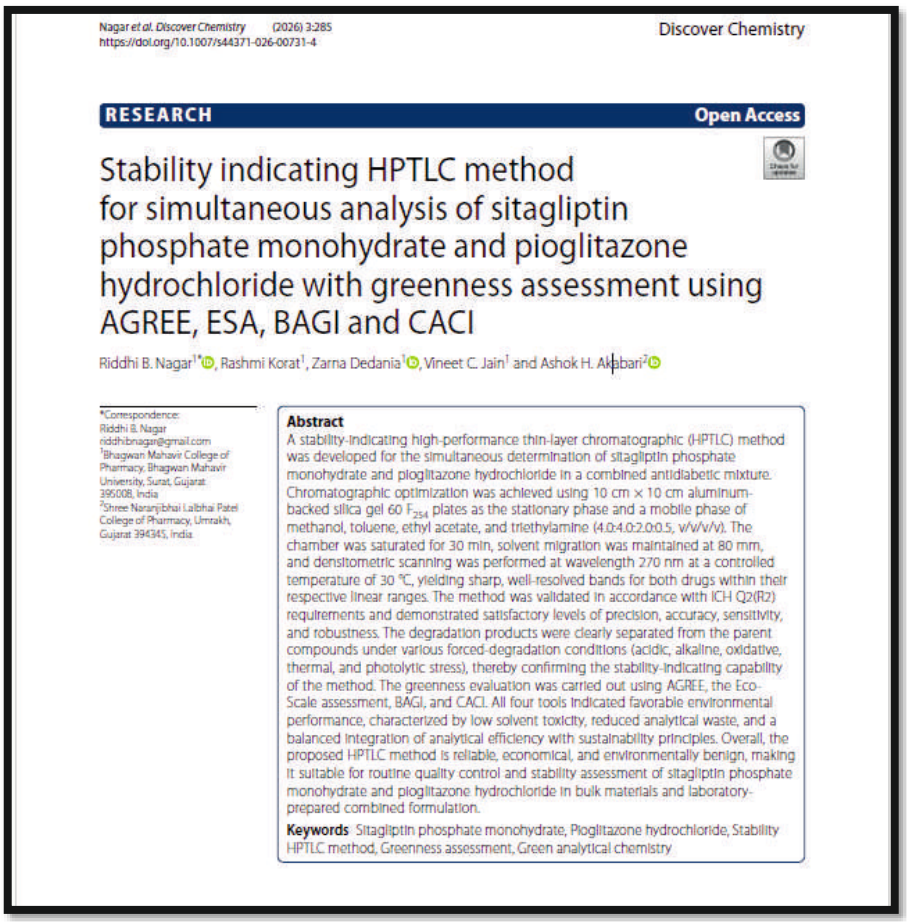
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Discover Chemistry

RESEARCH Open Access

Stability indicating HPTLC method for simultaneous analysis of sitagliptin phosphate monohydrate and pioglitazone hydrochloride with greenness assessment using AGREE, ESA, BAGI and CACI

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Abstract
A stability-indicating high-performance thin-layer chromatographic (HPTLC) method was developed for the simultaneous determination of sitagliptin phosphate monohydrate and pioglitazone hydrochloride in a combined antidiabetic mixture. Chromatographic optimization was achieved using 10 cm × 10 cm aluminum-backed silica gel 60 F_{254} plates as the stationary phase and a mobile phase of methanol, toluene, ethyl acetate, and triethylamine (4.0:4.0:2.0:0.5, v/v/v/v). The chamber was saturated for 30 min, solvent migration was maintained at 80 mm, and densitometric scanning was performed at wavelength 270 nm at a controlled temperature of 30 °C, yielding sharp, well-resolved bands for both drugs within their respective linear ranges. The method was validated in accordance with ICH Q2(R2) requirements and demonstrated satisfactory levels of precision, accuracy, sensitivity, and robustness. The degradation products were clearly separated from the parent compounds under various forced-degradation conditions (acidic, alkaline, oxidative, thermal, and photolytic stress), thereby confirming the stability-indicating capability of the method. The greenness evaluation was carried out using AGREE, the Eco-Scale assessment, BAGI, and CACI. All four tools indicated favorable environmental performance, characterized by low solvent toxicity, reduced analytical waste, and a balanced integration of analytical efficiency with sustainability principles. Overall, the proposed HPTLC method is reliable, economical, and environmentally benign, making it suitable for routine quality control and stability assessment of sitagliptin phosphate monohydrate and pioglitazone hydrochloride in bulk materials and laboratory-prepared combined formulation.

Keywords Sitagliptin phosphate monohydrate, Pioglitazone hydrochloride, Stability HPTLC method, Greenness assessment, Green analytical chemistry

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AI-guided optimization and eco-friendly assessment of in lab stability-indicating HPLC method for empagliflozin and sitagliptin in combined pharmaceutical dosage form

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ARTICLE INFO

Keywords:
HPLC method development
Empagliflozin and Sitagliptin estimation
AI-guided chromatography
Stability-indicating method
Green analytical chemistry

ABSTRACT

An accurate analytical method is necessary for accurate quantification and stability assessment of novel anti-diabetic fixed dose combination of empagliflozin and sitagliptin phosphate monohydrate. Artificial intelligence has shown promise in predicting chromatographic conditions, but experimental validation has significance for pharmaceutical applications. The primary objective of this study was to develop and compare a stability-indicating HPLC method for the simultaneous quantification of empagliflozin and sitagliptin phosphate monohydrate using AI tools (ChatGPT 4.5 (OpenAI), Perplexity.ai Sonar (Perplexity AI)) predicted and laboratory-optimized methods. In the laboratory, C18 column was used and the mobile phase was 0.1% triethylamine in water (pH 3.5 adjusted with 0.01% orthophosphoric acid), methanol and acetonitrile (40,35,25, v/v/v) as optimized chromatographic condition. The retention time of sitagliptin phosphate monohydrate and empagliflozin was found to be 2.95 min and 7.17 min, respectively. The method was validated as per ICH guidelines and was subjected to forced degradation studies like acidic, alkaline, oxidative, thermal and photolytic degradation. The Red Green Blue model was used to estimate greenness. The AI-predicted method exhibited similar chromatographic conditions; however, experimental implementation produced less favourable peak shape and lower resolution than those achieved with the optimized laboratory-developed method. The developed in-lab HPLC method was validated and the greenness assessment showed the greenness of the developed method. The proposed method showed lower LOD/LOQ than the published method. To the best of our knowledge, this is the first study to predict chromatographic conditions through AI tools for the simultaneous determination of empagliflozin and sitagliptin phosphate monohydrate and to directly compare their experimental performance with a laboratory-optimized method. The proposed method is simple, sensitive, robust and suitable for routine quality control analysis.

Journal of Medicinal and Nanomaterials Chemistry 8 (2026) 122-140

Journal of Medicinal and Nanomaterials Chemistry

Journal homepage: https://jmnc.samipubco.com/

Original Research Article

Environmentally friendly stability-indicating RP-HPLC method for sitagliptin monohydrate phosphate and pioglitazone hydrochloride: An all-encompassing green and white analytical assessment

Riddhi B. Nagar [1,*], Rashmi Korat [1], Zarna Dedania [1], Vineet C. Jain [1], Ashok H. Akabari [2]

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KEYWORDS

Stability-indicating RP-HPLC
White analytical chemistry
Sitagliptin phosphate monohydrate
Pioglitazone hydrochloride
Green analytical chemistry

ABSTRACT

The study aimed to develop and validate an ICH-compliant, stability-indicating RP-HPLC method for the simultaneous quantification of sitagliptin phosphate monohydrate and pioglitazone hydrochloride and to evaluate its environmental sustainability by incorporating white analytical chemistry concepts and multiple greenness assessment tools. Chromatographic analysis was conducted on a Shim-pack ODS C18 column using an isocratic elution system composed of acetonitrile, methanol, and phosphate buffer (pH 3.5, adjusted with orthophosphoric acid) in a 35:35:30 (v/v/v) ratio. The mobile phase was delivered at 1.0 mL/min a flow rate, and detection was performed at 268 nm using a PDA detector. The method was validated according to ICH Q2(R2) guidelines, and forced degradation studies further validated the method's ability to separate analytes from their products of degradation. The environmental assessment was performed and showed favourable greenness and sustainability properties with scores of 66 on the Eco-Scale, 0.57 on AGREEprep, 77.5 on BAGI, and 72 on CACI, implying fewer solvent toxicities and the lack of ion-pair reagents. The overall white score surpassed 85% reflecting high alignment with green, effective, and practical analytical principles. The proposed RP-HPLC method offers a robust, eco-friendly, and cost-effective approach for routine quality control of sitagliptin phosphate monohydrate and pioglitazone hydrochloride tablets.

3. INSTITUTE'S CO-CURRICULAR ACTIVITIES

1) Seminar on IELTS and Career Growth Seminar

A seminar on IELTS and Career Growth was conducted on 26 February 2026 at the Seminar Hall, SNLPCP for 6th and 8th Semester B. Pharm students. The session was attended by approximately 100–120 students. The program was coordinated by Ms. Nikita Vaghela under the guidance of Dr. Ketan Shah.

The seminar was delivered by Ms. Namrata, who highlighted the importance of IELTS as a pathway to international education and career opportunities. She discussed communication skills, personality development, confidence building, professional networking, and effective IELTS preparation strategies. A short visualization activity encouraged students to imagine their future goals and motivated them to work towards achieving them.

The session also included guidance on IELTS preparation, study-abroad opportunities, and career prospects. Students actively participated in the interactive discussion and clarified their queries regarding the IELTS examination pattern, required band scores, and overseas education options.

The seminar was informative, motivational, and beneficial, helping students understand the significance of IELTS and inspiring them to pursue global career opportunities. The event concluded with a vote of thanks to the speaker for her valuable guidance and encouragement.





2) Industrial Visit: S Kant Healthcare Ltd., Vapi

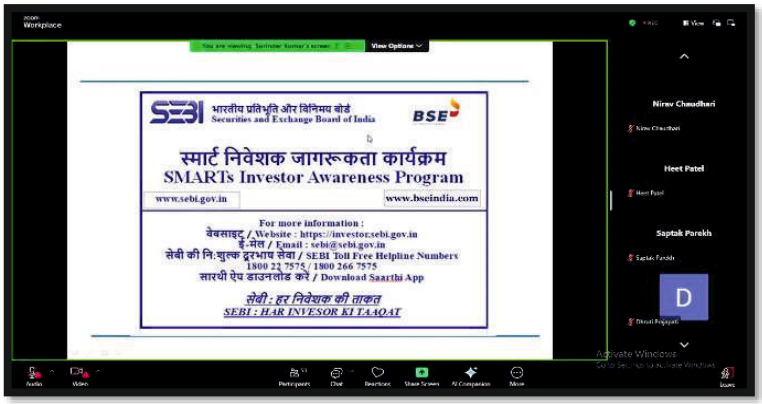
An industrial visit to S Kant Healthcare Ltd., Vapi was organized on 27 February 2026 for 79 Sixth Semester B. Pharm students, accompanied by four faculty members**.** The visit aimed to provide practical exposure to pharmaceutical manufacturing, quality control, and regulatory compliance. The program began with a welcome session and a presentation on the company's profile, global presence, manufacturing facilities, and regulatory approvals. Students gained valuable insights into Good Manufacturing Practices (GMP)**,** quality assurance systems, and documentation procedures. They visited the Quality Control Department, where a live demonstration of HPLC analysis enhanced their understanding of instrumental techniques. Students observed various stages of pharmaceutical production, including tablet, capsule, liquid, and semi-solid dosage form manufacturing, as well as automated packaging operations. The complete production workflow, from raw material handling to finished product dispatch, was explained by company experts. An interactive career guidance session by the HR department highlighted opportunities and expectations within the pharmaceutical industry. The visit greatly enhanced students' practical knowledge of industrial pharmacy, quality systems, and regulatory requirements. Following the industrial tour, students visited Panera Hill, Valsad, for a short recreational session. The college sincerely thanks the management and staff of S Kant Healthcare Ltd. for their valuable guidance, cooperation, and warm hospitality.

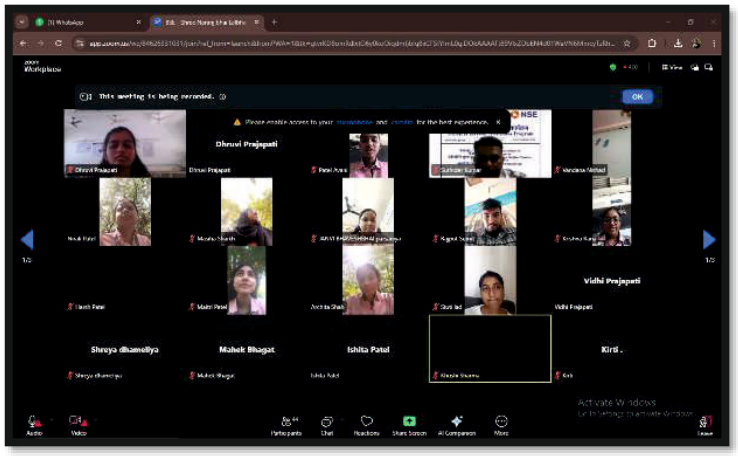




3) Webinar on Career Guidance through Financial Literacy.

A webinar on “Career Guidance through Financial Literacy” was conducted on 06 March 2026 through the Zoom platform for students of Shree Naranjibhai Lalbhai Patel College of Pharmacy. The session was organized in collaboration with Excellence Global Skill Training & Development Organization and attended by 55 participants. The webinar was delivered by Mr. Surinder Kumar, a SEBI SMART Trainer with over 10 years of experience. He emphasized the importance of financial literacy in achieving long-term career success and personal growth. The session covered key topics such as financial planning, goal setting, asset creation, and effective money management strategies. Mr. Kumar also discussed the growing trend of job hopping among young professionals and explained how poor financial management can negatively impact career stability. In addition, he provided valuable guidance on safeguarding against cyber-crimes and making informed financial decisions. The webinar was highly informative and motivational, encouraging participants to develop sound financial habits and plan for a secure future. The session concluded with an interactive discussion and practical insights for achieving professional and financial success.





4. INSTITUTE'S EXTRA-CURRICULAR ACTIVITIES

1) Road Safety Awareness Program

The IIIC and IQAC of Shree Naranjibhai Lalbhai Patel College of Pharmacy, Umrakh, organized a Road Safety Awareness Program in association with the Regional Transport Office (RTO), Bardoli and Surat Jilla Gramya Police on 12th January 2026 from 11:00 a.m. to 12:30 p.m., with 312 participants. The program aimed to educate students about road safety, traffic rules, and responsible road behavior to reduce accidents and promote public safety. The resource persons included Mr. C.C. Chaudhari (Inspector, Motor Vehicle Office), Mr. B.B. Vaghela (Assistant Inspector, Motor Vehicle Office), Mr. P.B. Patel (Motor Vehicle Office), and Mr. I.A. Sisodiya (PSI, Surat Jilla Gramya Traffic Police). They delivered informative sessions highlighting traffic rules, safe driving practices, and the shared responsibility of drivers, passengers, and pedestrians in ensuring road safety. The program was successfully conducted under the guidance of Dr. Ketan Shah, Principal, with the active support of all faculty members. The session concluded with a vote of thanks by Dr. Tejas J. Patel, Associate Professor, expressing gratitude to the RTO officials and Surat Jilla Gramya Police for sharing their valuable knowledge. The program effectively enhanced students' awareness of road safety and encouraged responsible behaviour on the roads.




SHREE NARANJIBHAI LALBHAI PATEL
COLLEGE OF PHARMACY
VIDYABHARTI TRUST INSTITUTIONS
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2) Annual Day Celebrations (VBT UNITY)

The Annual Day Celebration – "VBT Unity 2026" was held on 6th February 2026 with great enthusiasm and active participation from students and faculty members. The event commenced with the ceremonial escort of dignitaries, lamp-lighting ceremony, prayer, and welcome of guests. Shri Savjibhai Dholakia (Diamond King of Surat) and Shri Ganpatbhai Vasava (Cabinet Minister, Government of Gujarat) inspired students with motivational speeches emphasizing discipline, hard work, and success. The Prize Distribution Ceremony honored students for academic, sports, and co-curricular excellence. The celebration also featured vibrant cultural performances, including traditional and western dances, musical performances, orchestra, fashion walk, stand-up comedy, faculty ramp walk, and a DJ session. Students from various institutes enthusiastically participated, making the event a memorable celebration of talent, unity, and togetherness. The program concluded successfully at 6:30 PM.








Gold medal in M. Pharm
Pharmacology



3) College tour

The Recreational Tour for 8th Semester B.Pharm students was organized through Bright Holidays from 8th February to 18th February 2026, with 37 students participating. The tour covered Amritsar, Kasol, Kullu, and Manali, providing students with an opportunity to explore the cultural heritage of Punjab and the scenic beauty of Himachal Pradesh. Various group activities promoted teamwork, leadership, and stronger peer interaction while helping students refresh and relieve academic stress. The tour was accompanied by Dr. Hemal A. Bhuva and Ms. Shital R. Patel, who ensured the safety, discipline, and smooth coordination of the entire journey. The tour was successfully completed without any major issues, strengthening student–faculty bonding and leaving participants with valuable experiences and lifelong memories.









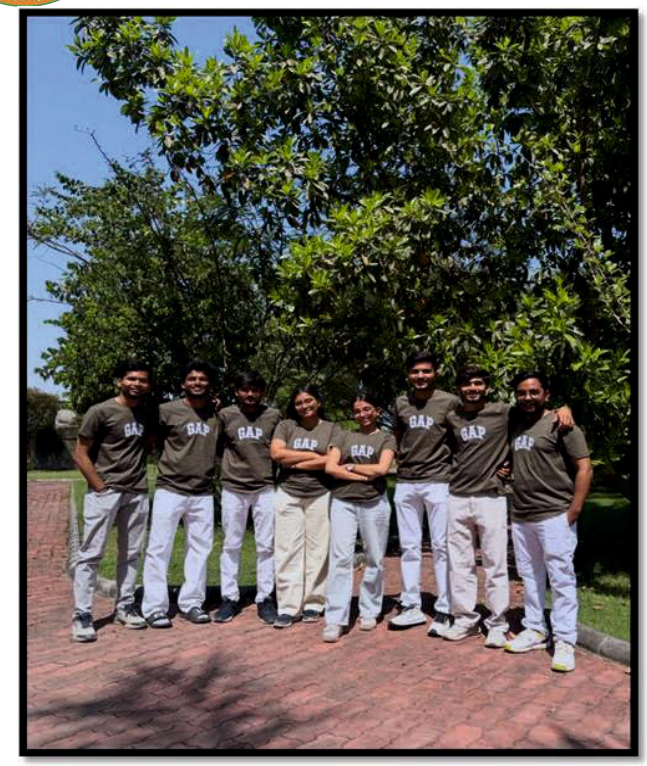




4) Days Celebration

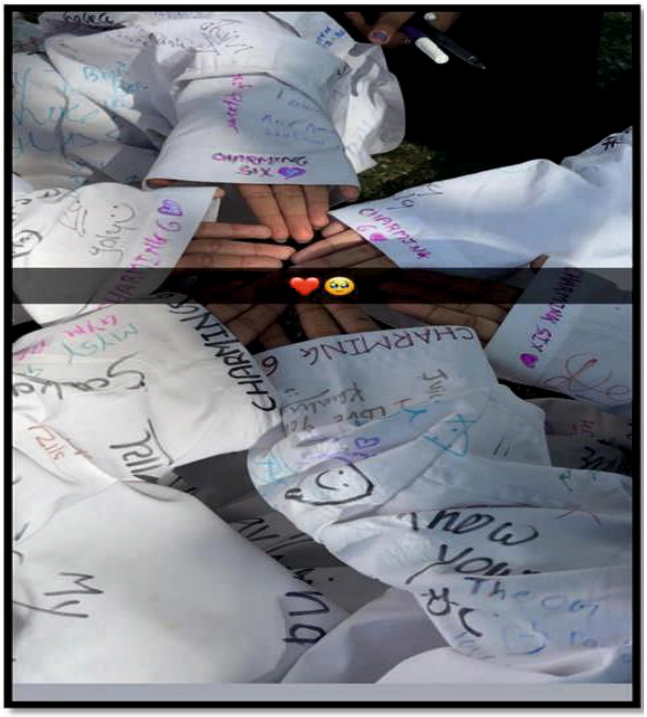
Days Celebration 2026 was organized at Shree Naranjibhai Lalbhai Patel College of Pharmacy, Umrakh from 18th to 23rd March 2026 with enthusiastic participation from students and faculty members. The celebration featured theme-based events including Bollywood/Retro Day, Mismatch Day, Twins Day, and Group Day/Signature Day, encouraging creativity, friendship, and teamwork among students. Organized under the guidance of Dr. Tanvi H. Desai (Cultural Coordinator) and Dr. Ketan V. Shah (Principal), the event provided a refreshing break from academics and concluded successfully, leaving students with joyful memories and contributing to their overall personality development.











5) Sports Week Celebration

Shree Naranjibhai Lalbhai Patel College of Pharmacy, Umrakh, successfully organized Sports Week 2026 from 18th March to 25th March 2026, with the enthusiastic participation of 218 registered students. The event was inaugurated by Dr. Ketan V. Shah (Principal), Dr. Tejas Patel (Sports In-charge), and faculty members. The Sports Week featured six events, including both outdoor games (Cricket, Volleyball, Seven Stone) and indoor games (Badminton, Carrom, Chess). Students actively participated in all competitions, displaying excellent teamwork, discipline, sportsmanship, and competitive spirit. The finals of various events witnessed exciting performances, with winners emerging across different categories in cricket, volleyball, seven stone, badminton, carrom, and chess. The week-long celebration created a vibrant and energetic atmosphere on campus, encouraging physical fitness, leadership, and unity among students. The event concluded successfully with sincere gratitude to the Vidyabharti Trust, Umrakh, Dr. Ketan V. Shah, Dr. Tejas Patel, and all the teaching and non-teaching staff for their valuable support and cooperation in making Sports Week 2026 a grand success.




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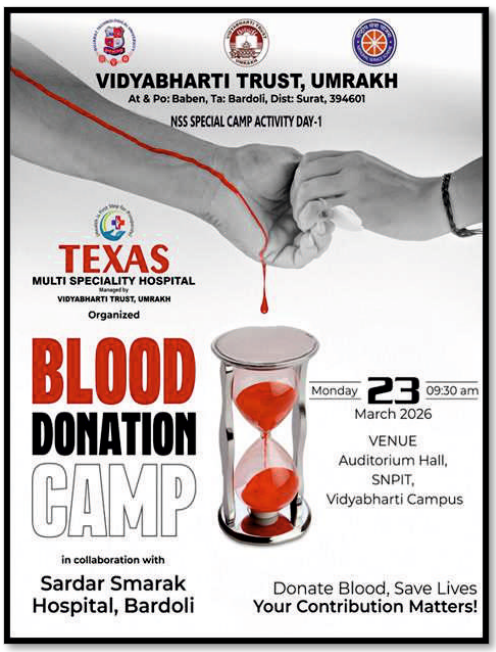




6) Blood Donation Camp

The GTU NSS Unit, in collaboration with Sardar Smarak Hospital, Bardoli, successfully organized a Blood Donation Camp on 23rd March 2026 at the Auditorium Hall, SNPIT, Vidyabharti Campus under the guidance of Dr. Ketan V. Shah (Principal). The camp was coordinated by Mr. Mehul Bagde and Mr. Dhruvin Maisuria. The objective of the camp was to promote awareness about voluntary blood donation and encourage students and staff to contribute towards saving lives. Around 5–6 students voluntarily donated blood, demonstrating a strong sense of social responsibility and humanitarian values. Faculty members, especially Dr. Hemal Bhuva, actively supported and motivated the participants throughout the event. The camp was conducted successfully and effectively fulfilled its objectives of promoting public health awareness, community service, and civic responsibility. It proved to be a meaningful initiative in inspiring students to contribute towards society through voluntary blood donation.



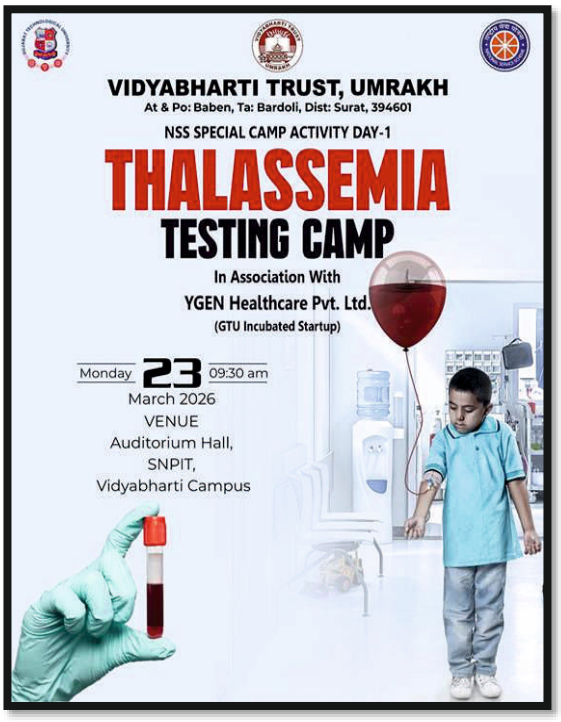






7) THALASSEMIA AWARENESS AND EYE CHECK-UP CAMP

The GTU NSS Unit, in association with Ygen Healthcare Private Limited (a GTU Incubated Startup), successfully organized a Thalassemia Awareness and Eye Check-up Camp on 23rd March 2026 at the Auditorium Hall, SNPIT, Vidyabharti Campus under the guidance of Dr. Ketan V. Shah (Principal). The camp was coordinated by Mr. Mehul Bagde and Mr. Dhruvin Maisuria. The program aimed to create awareness about thalassemia, emphasize the importance of early diagnosis, and promote regular eye health check-ups among students and staff. Around 50 students actively participated in the camp, showing keen interest in learning about preventive healthcare and the significance of timely screening. The event was successfully conducted and effectively achieved its objectives of health awareness, preventive care, and community service. It enhanced students' understanding of public health issues and encouraged a sense of social responsibility, making the camp a valuable and impactful initiative.





8) Farewell party

Shree Naranjibhai Lalbhai Patel College of Pharmacy, Umrakh, organized a memorable Farewell Party 2026 on 28th March 2026 at the W-Wing Auditorium Hall to bid a heartfelt farewell to the outgoing students. The event was graced by Dr. Ketan V. Shah (Principal), faculty members, staff, and students. The program included inspiring addresses by the Principal and faculty members, a nostalgic memory video presentation highlighting students' academic and extracurricular journey, and the distribution of prizes and certificates for achievements in academics, sports, and cultural activities. Junior students presented cultural performances, while the outgoing batch expressed their gratitude to the management, faculty, and juniors for their support and guidance. The celebration concluded with cake cutting, group photographs, lunch, and a vote of thanks, making the farewell a memorable occasion that celebrated achievements, cherished memories, and the strong bond between students and the institution.









9) World Environment Day Celebration

Shree Naranjibhai Lalbhai Patel College of Pharmacy (SNLPCP), Umrakh, celebrated World Environment Day on 5th June 2026 at the Herbal Garden, Vidyabharti Trust Campus, with the aim of promoting environmental awareness and sustainable practices. The event was graced by the esteemed Trustees of Vidyabharti Trust as Chief Guests, along with the Principals of various Vidyabharti Trust institutions. The celebration witnessed enthusiastic participation from teaching and non-teaching staff, as well as B. Pharm and M. Pharm students. A key highlight of the program was a Tree Plantation Drive, during which 125 saplings were planted across the campus, reflecting the institution's commitment to environmental conservation and sustainable development. The program was organized under the guidance of Dr. Ketan V. Shah, Principal, and was successfully coordinated by Dr. Jitesh K. Jariwala, Professor and Head, Department of Pharmacognosy, with the active support of faculty members, staff, and students. The event inspired participants to adopt eco-friendly practices and reinforced the importance of protecting the environment for future generations.



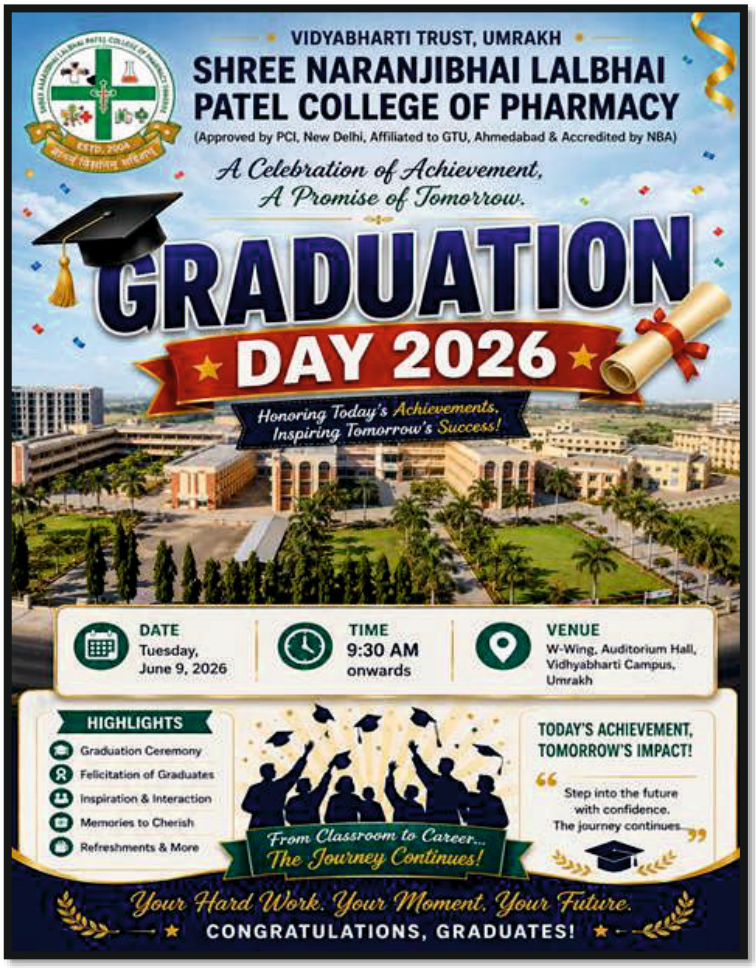






10) Graduation day

The Graduation Day Celebration was held on 09 June 2026 at Shree Naranjibhai Lalbhai Patel College of Pharmacy (SNLPCP) to honor graduating students for successfully completing their academic programs. The event began with the Lamp Lighting Ceremony, followed by inspiring addresses from the Principal and Heads of Departments. Graduates shared their memorable experiences and reflected on their academic journey. Certificates were presented to the students, recognizing their achievements, and the ceremony concluded with the Pharmacist's Oath, reaffirming their commitment to professional ethics and patient care. The event was successfully coordinated by Mrs. Divya Solanki, Mr. Dhruvin Maisuria, and Ms. Pooja Mistry, making it a memorable and inspiring occasion for all.




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COLLEGE OF PHARMACY
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SHREE NARANJIBHAI LALBHAI PATEL
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11) Yoga day celebration

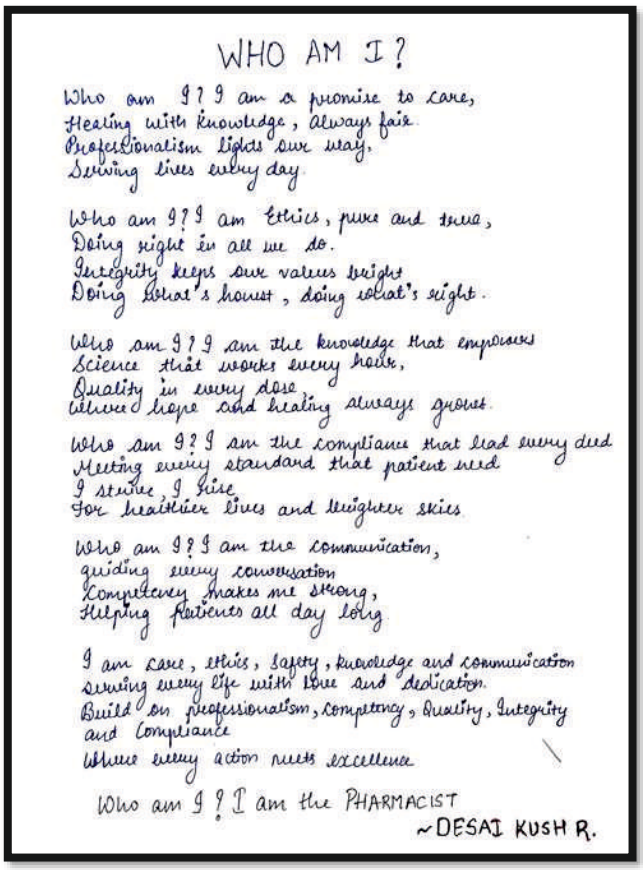
Shree Naranjibhai Lalbhai Patel College of Pharmacy, Vidyabharti Trust, Umrakh, celebrated International Yoga Day on 20th and 21st June 2026 at the W-Wing, Vidyabharti Trust, Umrakh, with the objective of promoting physical, mental, and spiritual well-being through yoga. The event witnessed enthusiastic participation from faculty members of various departments and institutions under Vidyabharti Trust. The celebration was honored by the presence of Shri Ishwar Parmar, MLA, who appreciated the institution's efforts in promoting health and wellness and encouraged participants to adopt yoga as a regular part of their lives. Guided by trained instructors, participants performed various yoga asanas, pranayama, and meditation techniques aimed at enhancing physical fitness, reducing stress, and improving mental well-being. The program successfully created awareness about the importance of yoga, encouraged healthy living, and strengthened unity among faculty members. It concluded with a vote of thanks, leaving participants inspired to incorporate yoga into their daily routine for a healthier and more balanced lifestyle.






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43wq+mx2, Ta:, Baben, Umrakh, Bardoli, Gujarat 394601, India
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5. STUDENT'S ART & CREATIVITY



WHO AM I ?

Who am I ? I am a promise to care,
Healing with knowledge, always fair.
Professionalism lights our way,
Saving lives every day.

Who am I ? I am Ethics, pure and true,
Doing right in all we do.
Integrity keeps our values bright
Doing what's honest, doing what's right.

Who am I ? I am the knowledge that empowers
Science that works every hour,
Quality in every dose
Offering hope and healing always grows.

Who am I ? I am the compliance that lead every deed
Meeting every standard that patient need
I strive, I live
For healthier lives and brighter skies

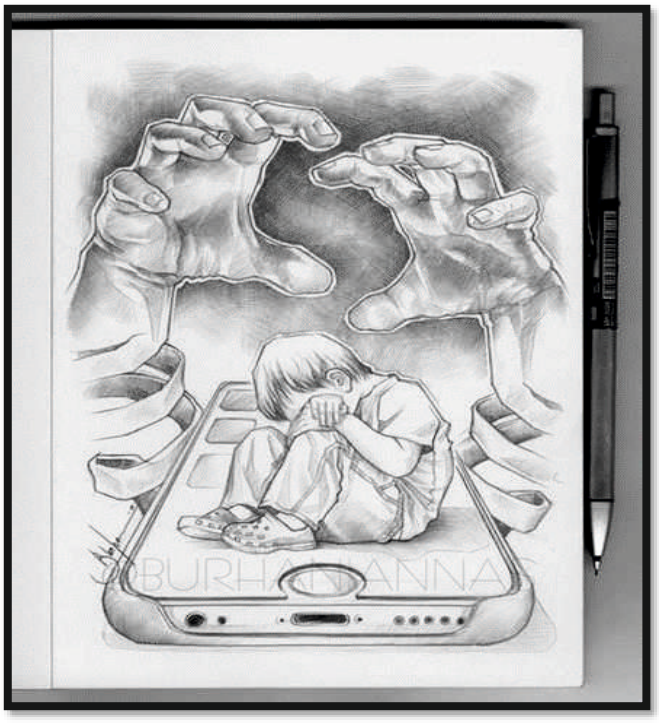
Who am I ? I am the communication,
guiding every conversation
Competency makes me strong,
Helping patients all day long

I am care, ethics, safety, knowledge and communication
serving every life with love and dedication.
Build on professionalism, competency, Quality, Integrity
and Compliance
Where every action meets excellence

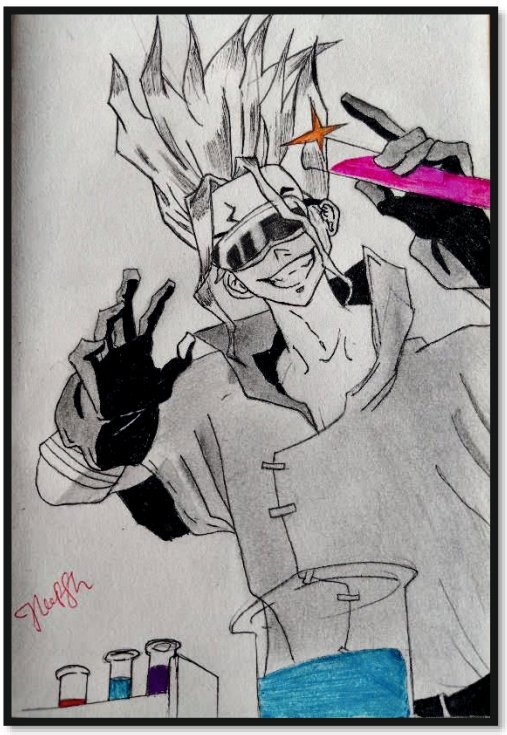
Who am I ? I am the PHARMACIST

~DESAI KUSH R.

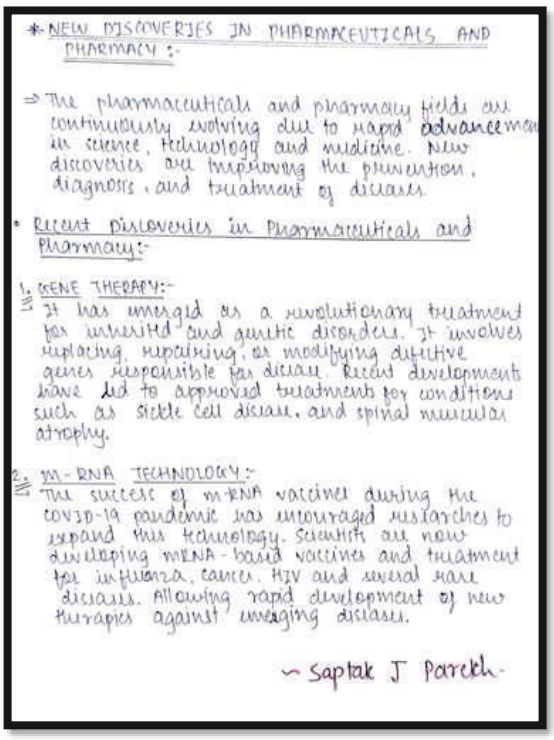
Kush Desai 8th Sem (B.Pharm)



Nirali Patel 6th Sem (B.Pharm)



Harsh Patel 4th Sem (B.Pharm)



* NEW DISCOVERIES IN PHARMACEUTICALS AND PHARMACY :-

⇒ The pharmaceuticals and pharmacy fields are continuously evolving due to rapid advancement in science, technology and medicine. New discoveries are improving the prevention, diagnosis, and treatment of diseases.

* Recent discoveries in Pharmaceuticals and Pharmacy:-

1. GENE THERAPY:-
It has emerged as a revolutionary treatment for inherited and genetic disorders. It involves replacing, repairing, or modifying defective genes responsible for disease. Recent developments have led to approved treatments for conditions such as sickle cell disease, and spinal muscular atrophy.

2. m-RNA TECHNOLOGY:-
The success of m-RNA vaccines during the COVID-19 pandemic has encouraged researches to expand this technology. Scientists are now developing mRNA-based vaccines and treatment for influenza, cancer, HIV and several rare diseases. Allowing rapid development of new therapies against emerging diseases.

~ Saptak J Parekh.

Saptak Parekh 4th Sem (B.Pharm)



Heni Mistry 2nd Sem (B.Pharm)

VIDYABHARTI TRUST
UMRAKH

SHREE NARANJIBHAI LALBHAI PATEL COLLEGE OF PHARMACY, UMRAKH
ESTD. 2004
ज्ञानम् विज्ञानम् सहितम्

SHREE NARANJIBHAI LALBHAI PATEL COLLEGE OF PHARMACY

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