



KDK COLLEGE OF PHARMACY & RESEARCH INSTITUTE, NAGPUR

pharma BUZZ
#CONNECTING_THE_DOTS...

COLLEGE MAGAZINE 2026



SAARANG

Celebrating The Color Of Joy And Success



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OUR INSPIRATION



Late. Bhausaheb Mulak
(Ex- Minister Maharashtra State)

MESSAGE FROM FOUNDER



With steady steps, in accordance with the national policy of enhancing access to higher education for the youth of the country, KDKCOP aims at overall development of an individual by providing best education, technical know-how, personality traits and leadership qualities to grow as future of India with values in life.

My heart fills with immense pleasure as I perceive the progress being made at BCYRCS KDK College of Pharmacy and research institute. The basic purpose of Education should not restrict to bookish knowledge, the students should also inculcate values like wisdom, courage, humility and integrity. We, believe overall development of our students, incorporating-academics, co curricular activities sports education, and life skills learning. I extend my warm wishes to the Principal Staff, and students of KDK College of Pharmacy and research institute to continue. Also this journey on the road to excellence. Also My best wishes for the College Annual Gathering SAARANG-2026" & college magazine "Pharma Buzz-Connecting the Dots

- Hon. Smt. Sumanmala B. Mulak
Chairperson,
BCYRC and BMCT

MESSAGE FROM SECRETARY



BCYRC'S Institution, owned and managed by KDK Group of Institute is one of the leading and sought in Nagpur imparting quality education at an affordable cost. Our vision is to "Educate, Enlighten and Empower" has been tested over the 20 last Years of yeomen service, what comes to my mind is that Success comes to those who work hard and stays with those who don't rest on the laurels of the past. we live today in a world that is so very different from the one we grew up in, the one we were educated in.

The world today is changing at such an accelerated rate we as educators need to pause and reflect on this entire system of Education, are our College well equipped to Prepare our children to face the challenges that the future holds? Questions such as these are factors that motivate us to go through a continuous process of reflection and hence we at BCYRC'S Institute work at implementing a well-balanced curriculum to ensure that the children who walk into the portals of our College will not just love their college years but truly be prepared to face life's challenges.

Even as we impart education to match the advancement technology and globalization we march our children ahead with DBA'S ethos of moral values and principles. We endeavour constantly to instill these qualities in our children. We pride ourselves to help them grow and develop into responsible citizens of the future.

Also My best wishes for the College Annual Gathering "SAARANG-2026", And college magazine "Pharma Buzz- Connecting the dots"

**- Hon'ble Shri Rajendra Mulak
Ex-MLA (Maharashtra State)**

MESSAGE FROM TREASURER



Students are the future leaders of the country. Their compassion, dedication, hopes, and dreams will lead our society into a progressive future one day. Nevertheless, student life is not easy!

Write your own story with passion and determination. Success will find its way to you!

Your hard work is bound to result in prosperity and fortune. Good luck for a successful life ahead!

Students are a true learning enthusiast. I am confident that youngsters will accomplish a lot in life. Strive hard to accomplish all of your dreams.

Also My best wishes for the College Annual Gathering SAARANG-2026, And college magazine "Pharma Buzz-Connecting the dots...

**- Hon'ble Shri Yashraj R. Mulak
Treasurer, BCYRC, BMCT**



MESSAGE FROM PRINCIPAL

May the sapling grow into trees and spread branches.” Every student is like a seed that has the potential to grow if it is nourished with love and care under the right guidance. In this era of competition and challenges, it is essential that students should not only excel in academics but should also excel in sports and other extracurricular activities. At KDK College of pharmacy and research Institute, we are dedicated to exhaustive quality learning and are utterly committed to a continuous process of improvement for the benefit of the students.

It is gratifying to note that BCYRC’S KDK College of Pharmacy and research institute, Nagpur is celebrating SAARANG -2026 -celebrating the color of Joy and Success, an Annual Sports and cultural fest along with bringing out an another edition of annual college magazine PHARMA BUZZ- Connecting the dots, to channelize the creative aspect of the students and highlighting the success and achievement of its pursuits. It helps to reveal creations, achievements and skills of our student’s in academics as well as extracurricular activities, thereby sharpening their communication skill, contributing to their overall personality development

We cherish our motto of Overall development of our students. “SAARANG -2026” is exclusively meant for tossing out the hidden potential of the students. I am confident enough that our students will make themselves stronger day by day, adding a new leaf to the grandeur of the college. I wish you all the best and happy reading !!

~ Dr. Kamlesh J. Wadher



MESSAGE FROM H.O.D.

Dear Students College is our first contact with the a period of joy, healthy competition, fearing, world adjustment, sharing and love. It is not the wide open spaces, classrooms, the library, laboratories or the large fields that make the College. It is in the heart of the students and staff that the true institution exists. According to academic analysis, the youth of future generation are going to be more prone to violence and deviant behavior. This deteriorating trend is a matter of great concern to parents as well as lecturer. We are all aware through media reports of incidents of abuse, self-inflicted violence, violent outburst, depression, violence using social media and other on-line for as. Learning in not process limited to schools and colleges only, nor does it end with the conclusion of one college career. It is indeed a lifelong process. This college is oriented to the total formation of a child and to adaptations of various methods suiting the dynamics of changing world in order to achieve common goals and obiectives.

Also My best wishes for the College Annual Gathering " SAARANG-2026",
And college magazine "Pharma Buzz-" Connecting the dots

~ **Mr. Dilip S. Denge**



MESSAGE FROM EDITOR

It is with great pleasure and excitement that I present to you the latest edition of our college magazine. As future pharmacists, we are not only tasked with advancing the science of health but also with contributing to the larger community through knowledge, empathy, and innovation. This magazine stands as a reflection of that very commitment.

In this issue, we bring together the collective creativity, intellect, and hard work of our faculty, students, and alumni. From insightful articles on the latest in pharmaceutical research to thought-provoking discussions on the evolving role of pharmacists in healthcare, each page is a testament to the passion and dedication that drives our college community forward.

I would like to take this opportunity to thank everyone who contributed to this edition. Your efforts have brought forth a beautiful and informative compilation that I hope will inspire all who read it. We are proud of how our college continues to shape the future of healthcare, I am confident that we will continue to excel in every aspect.

I encourage you to read, reflect, and share your thoughts with us. As we move forward, let us continue to challenge ourselves, inspire one another, and remain dedicated to the noble profession of pharmacy.

~ BHUPESH SAWARKAR
Editor
KDKCOP Magazine

VISION

- To become a Centre of excellence by Imparting Knowledge, Skill and Innovation in our students to make them multifaceted Pharmacists.

MISSION

- To Impart Quality Education and training to develop globally competent Pharmacists to cater the needs of profession and Health care society.
- To Inculcate Innovation and Research as an Integral part of Learning process



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FACULTY



CLASSES



B. PHARMA 1ST YEAR



B. PHARMA 2ND YEAR

CLASSES



B. PHARMA 3RD YEAR



B. PHARMA 4TH YEAR

CLASSES



D. PHARMA 1ST YEAR



D. PHARMA 2ND YEAR

GLIMPSES OF SAARANG 2025



SPORTS WEEK 2025



GIANTS
(DPHARM 1ST YEAR)



FIGHTERS
(DPHARM 2ND YEAR)



PHANTOMS
(BPHARM 1ST YEAR)



TITANS
(BPHARM 2ND YEAR)



GLADIATORS
(BPHARM 3RD YEAR)



WARRIORS
(BPHARM 4TH YEAR)

FRESHERS 2025





NAVRATRI



HANUMAN JAYANTI



EDUCATIONAL TOUR



NATIONAL CONFERENCE



GUEST LECTURES



**EXPERT TALK ON TECHNOLOGY
TRANSFER AND PACKAGING**



**MINDFULNESS
GUEST LECTURES**



**GPAT
PREPARATIONS**



**GUEST LECTURER ON
MEDIATION**



GUEST LECTURER ON FINANCE AWARENESS

SEMINARS



INNOVATIVE PEDAGOGY AND TECHNOLOGY IN PHARMA EDUCATION



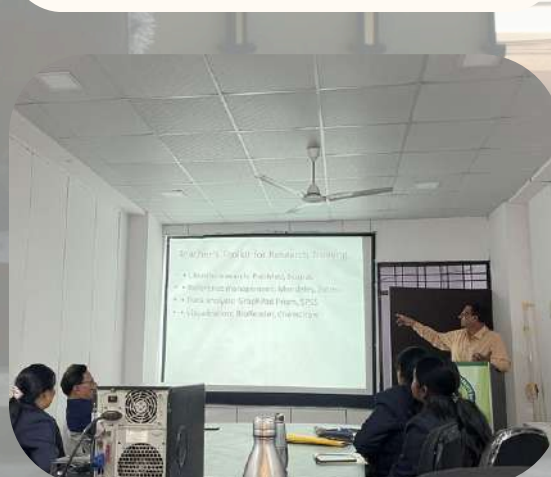
RESEARCH FOR ADVANCE PHARMACY EDUCATION



SEMINAR ON HPTLC



ETHICS IN PHARMACEUTICAL EDUCATION & RESEARCH



INNOVATIVE RESEARCH IN PHARMACEUTICAL EDUCATION

ACTIVITIES



**NATIONAL
YOUTH DAY**



**WORLD CREATIVE
INNOVATION DAY**



**ENVIRONMENT
DAY**



**ANTI
RAGGING**



MSPC PHARMA RALLY

NSS ACTIVITIES



**PATIENT
COUNSELLING**



**INDEPENDENCE
DAY**



**REPUBLIC
DAY**



**BLOOD
TESTING**



**HAR GHAR
TIRANGA**



**VISIT TO MUKH
BADIR SCHOOL**

PHARMACIST DAY



VISITS



**REGIONAL AYURVEDA
RESEARCH INSTITUTE**



BMAM



**SNEHAL PHARMA &
RESEARCH INSTITUTE**

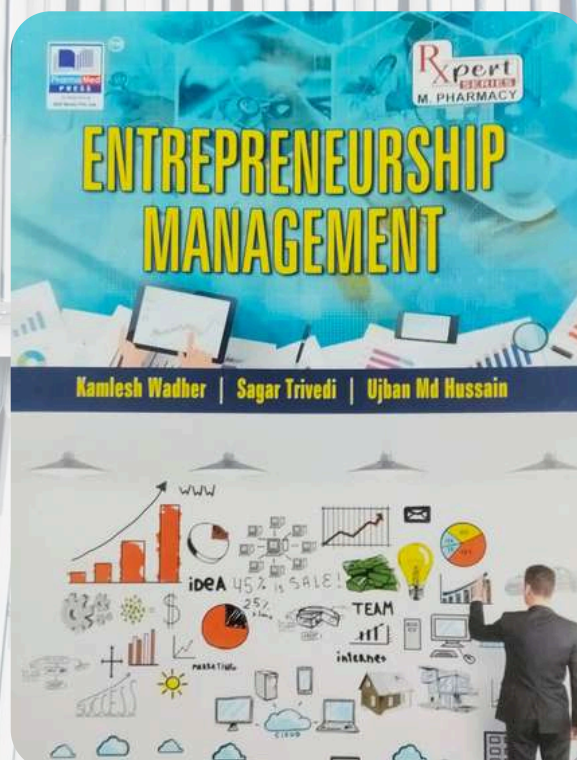
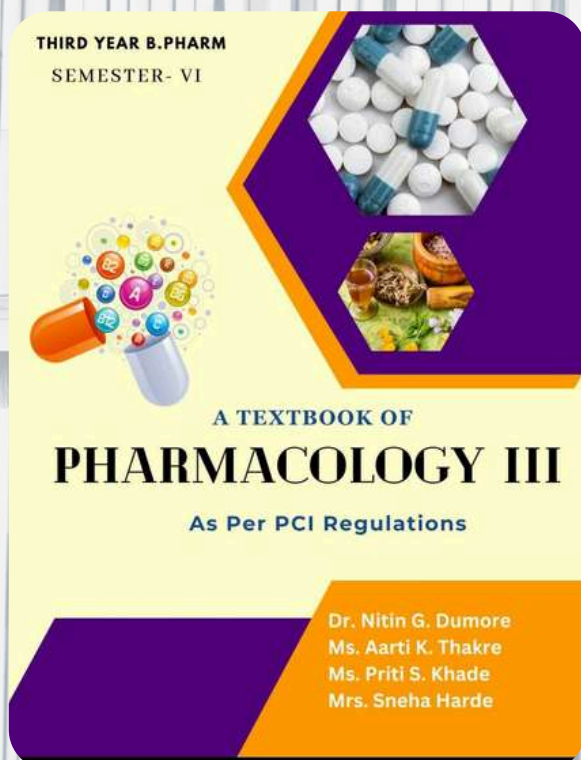
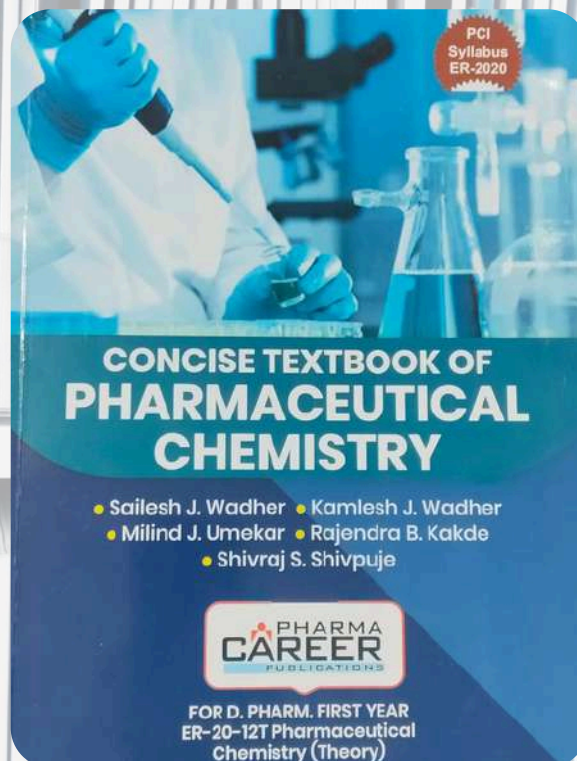
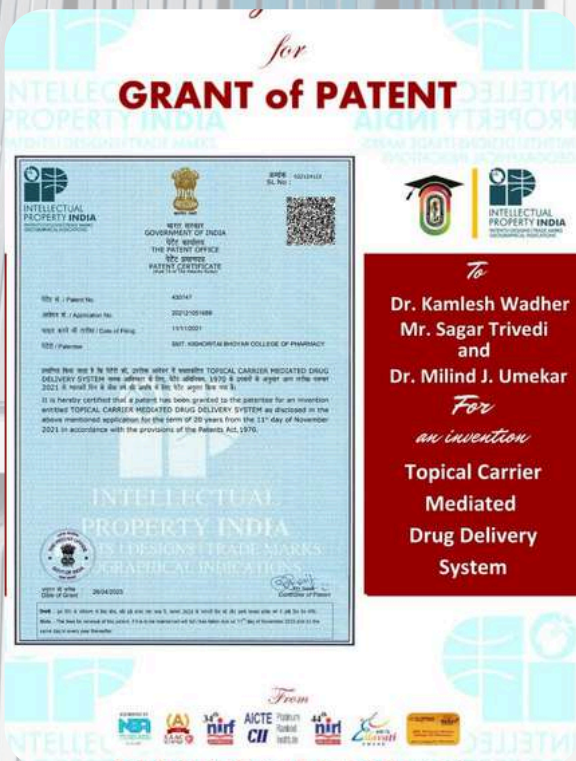


APPROPRIATE



AKUMS

PUBLICATIONS & PATENTS



HANDS ON TRAINING



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FDP



ENGLISH CORNER

A Pharmacy Student's Promise

In rows of bottles, neat and bright,
Where science meets the art of right,
I stand and learn, with open mind.
To serve with care, to heal mankind.

Through pages filled with drugs and names,
Mechanisms, doses, aims,
I trace the path each tablet takes,
And guard against mistakes.

A whispered cough, a worried face,
A mother seeking hope and grace,
Behind the counter, calm and sure,
I offer knowledge as a cure.

Not just to count, not just to pour,
But understand the "why" and "for,"
To check, protect, and educate,
To help, advise, and advocate.

For pharmacy is more than trade;
It's trust in every choice we've made.
And as I grow, I clearly see:
Care is our true degree.

TANVI KURVE

College Friends

From shared notes to late-night talks,
From canteen laughs to campus walks,
We came as strangers, unsure and new,
College gave me friends like you.
Through every test and every bend,
You were my strength, my constant friend.
These days may pass, but this is true—
Best college memories are with you

PRAJAKTA VAIDYA

Regrets and Failure

Life is an inevitable process which never stops for anyone. Every inborn has to become an adult and progress in age till the end with what he has gained in his whole life. In this process, the thing that principally concern us is "Regrets" – regret of losing something, regret of not working hard, regret of limiting ourselves, regret of missed opportunity, personal growth and regrets of lots. These regrets are felt no less than failure which seems to miss the better opportunities we get.

But thinking failure being failure, why one can't think failure to be courageous. The one who faces it dares to challenge itself to work beyond their capability. It alone has guts to accept and strive to become the better version of its own, attempts to work on what it lacks. Acceptance fills the space of regrets.

Don't you think we have did the same thing ever?
We try to convince ourselves that what we would have been, if we did something different than today. Every beautiful illusion of us ends with question "what if". But, no, we would be same even if we were better any where else wishing with regrets for more something best than what we have. Living with regrets on what you have failed is not better than living what you are today accepting what we have earned rather than mocking what we don't

At the end, we should be proud of how hard we fought to become the best version of ourselves. Failure is the journey from nothing to the best of us how we learn from our experiences, how we work at present to make future more alike we yearn for ever.

Unexpected failures needs to be accepted.

Do not fear failure..
Do not fear mistakes..

YAMINI WANJARI

WHAT IS KDKCOP?

It is one of the most memorable and transformative phases of life.

It is not just a place to gain academic knowledge, but a platform where students discover their passions, develop life skills, and shape their future careers. The college experience plays a vital role in building confidence, independence, and responsibility.

College is more than just an educational institution; it is a foundation for a successful and meaningful life. It shapes a student's personality, broadens perspectives, and prepares them for future challenges. The lessons learned, friendships built, and experiences gained during college remain cherished memories forever.

College truly marks the beginning of adulthood and the journey toward achieving dreams. ✨

RIYAL MULE

"Ek Mulaqat Zindagi Se,"

Uss din chalte chalte yuhi zindagi se meri mulaqat ho gayi

Mene dekha vo raaho me gun-guna rahi thi
Na jaane kyu mujhse kuch chhipa rahi thi
Mene paas jakar puchha ki aakhir kyu
Aakhir kyu dukh diye itne humhe

Usne muskurakar badi saralta se kaha !!
Aree me Zindagi huun !!
Me Zindagi huun ,
Tujhe Jeena Sikha Rahi thii...!!

YASH KAMBLE

ARTICLES

Is Pharmacy Education Ready for the AI Revolution?

The rapid advancement of artificial intelligence (AI) has put pharmacy at the forefront of the change of the healthcare sector. In several aspects of pharmaceutical practice, such as drug development, inventory management, personalized treatment, and patient counseling, artificial intelligence (AI) solutions are becoming indispensable.

However, a question arises,

Is pharmacy education prepared to train the future pharmacists to this change?

Main Gaps in the Current System

1. **Old Curriculum Focus** Traditional pharmacy classes on core competencies like pharmacology, therapeutics, and patient care. Very few schools have added specific lessons about AI itself. Many don't have clear goals like "Students must learn to use and check AI tools." Recent studies (2025–2026) show only a small number of programs teach AI seriously.
2. **Digital Skills Are Missing or Weak** Students need to understand computers, apps, online health

records, data privacy, and how to spot errors in tech. This is called **digital literacy**. A lot of schools teach some basics, but not enough about modern tools like AI. Without these skills, future pharmacists might not use AI safely or question bad results.

3. **Research Skills Need an Upgrade** : AI can search thousands of studies in seconds, predict results, or analyze big data from patients. But most pharmacy students still learn research the old way. They need training to use AI for better, faster science—while knowing its limits (like wrong data leading to wrong answers).
4. **Coding and Data Basics Are Rare** You don't need to be a programmer, but basic understanding helps a lot. For example: reading data charts, using simple tools to look at medicine trends, or telling AI what to check. Very few pharmacy programs teach coding (like Python) or how to handle big sets of data. This is a big gap because real jobs will ask for it.

Enhancing Research Skills in a World Driven by AI

In pharmacy research, data-intensive, AI-supported methodologies are replacing traditional bench science techniques. AI accelerates drug discovery in a number of ways, including bioinformatics and predictive modeling, but these capabilities are usually overlooked in pharmacy school. A data-driven investigation of the AI skills gap in the pharmaceutical business reveals deficiencies in transdisciplinary competencies, and life sciences curriculum need to be broadened in computational biology and data science. Students must learn how to use AI for literature reviews, hypothesis development, and outcome analysis, even though many programs prioritize clinical over research-oriented tech training.

Ethical factors make this problem worse. We need to find a balance between making technology and dealing with issues like bias in algorithms and keeping data private. This is necessary to make sure we do research in a way. We also need to teach people about intelligence.

A study on health technologies shows that artificial intelligence can help people learn in a way that is tailored to them. However it also warns us that many applications do not meet the standards they are supposed to meet. To fix this courses should include artificial intelligence projects, such as using machine learning, for pharmacogenomics research. This will help students contribute to developments that are based on evidence. Artificial intelligence should be a part of pharmacy education to prepare students for the future.

Coding and Data Interpretation: Developing Technical Expertise

When working with artificial intelligence systems, pharmacists must be proficient in coding and data comprehension. In actuality, many pharmacy programs do a poor job of teaching these abilities. For instance, pharmacists must be able to examine data sets to determine whether a medication is effective. Additionally, they must be able to modify AI algorithms, which calls for some coding expertise.

However, students in many pharmacy programs are not given the opportunity to practice these abilities. There are certain gaps in the knowledge that pharmacy programs are imparting, according to the 2026 Future of Pharmacy Careers report. For example, kids are not learning how to program artificial intelligence.

Coding education, which uses artificial intelligence to teach coding, is one area where we can learn. Using a technique known as "vibe coding" is one way they accomplish this.

Here, some code is produced by artificial intelligence. The student then disassembles it to examine its operation.

This might entail teaching pharmacy students how to create graphs and charts of medication patterns using Python or R. According to some pharmacists, their training, which primarily consisted of memorization, is no longer effective. This is because pharmacists must be able to perform more complex analysis because artificial intelligence is becoming increasingly proficient at activities.

Pharmacy programs must include some mandatory courses on data management, statistical programming, and designing AI tools in order to address this issue. They could cooperate with computer science programs to do this.

Pharmacy education stands at a crossroads:

While AI promises enhanced efficiency and innovation, current curricula exhibit significant gaps in preparing students for its integration. By prioritizing digital literacy, research skills, coding, and data understanding, programs can foster a workforce ready for the AI revolution. Institutions should collaborate with industry, update accreditation standards, and invest in faculty development to close these divides. As one expert notes, the challenge is not just teaching AI but ensuring ethical, competent use that prioritizes patient safety. With proactive reforms, pharmacy education can not only catch up but lead in this transformative era.

BY: RIDDHI . M. SHIRBHATE
B.PHARM 3rd YEAR

RIDHI SHIRBHATE

HINDI-MARATHI CORNER

अभाळात पाहून आई कडली सांगायची
त्या चोरवयसी
तो आला चोरोबा जोरान ओरवयसी
होती ना वेगळीय मला कचपन ची ॥

बाबांनी सायफल घेऊन दिले
म्हणून सब ला सांगायची
ती सायफल घेऊन मी रात्र भर चालवयसी
आल वगता झूप झप म्हणून आई जोरान
ओरवयसी
होती ना वेगळीय मला कचपन ची ॥

पडली म्हणून रडत घरी जायसी
मिती पण म्हणून दाशी को वगता आई कोरवयसी
काय करायसी ?
पण घरी गेल्यावर ती माझ्या
जखम वर Antiseptic लावयसी
होती ना वेगळीय मला कचपन ची ॥

वेळच्यात पाणी आले की
आली आई लाव रंगायसी
आली माझी मला झूप थिव लावयसी
होती ना वेगळीय मला कचपन ची ॥

RACHI PATIL

फार्मा: स्वास्थ्य का सिपाही – विश्वास की ताकत

सफेद कोट में विश्वास की पहचान, सेवा का जज्बा और कर्तव्य महान।
हर धड़कन से जुड़ा उसका अरमान, हर मरीज़ की मुस्कान उसका सम्मान।

दवा ही नहीं, सही समझ और मार्गदर्शन भी देता है,
डर, भ्रम और पीड़ा के बादल पल में समेट लेता है।



डोज़, इंटरैक्शन और सावधानियों का पूरा ज्ञान रखता है,
हर छोटी-सी गलती से भी मरीज़ को सुरक्षित रखता है।

दिन हो या रात, जिम्मेदारी का दीप जलाए खड़ा है,
स्वास्थ्य की रक्षा के लिए हर परिस्थिति में अड़ा है।

हम दवा भी हैं, दुआ भी हैं, भरोसे की मजबूत मिसाल भी हैं,
हम ज्ञान की जलती मशाल भी हैं, हर मरीज़ के बेहतर कल का ख्याल भी हैं।

SANIDHYA NAGDEVE

केडीके कॉलेज ऑफ फार्मसी अँड रिसर्च इन्स्टिट्यूट,
नागपुर.
इथे शिक्षण म्हणजे फक्त सिलेबस पूर्ण करणं नाही,
इथे प्रत्येक लेक्चरमार्गे
मेहनत आहे, समज आहे,
आणि विद्यार्थ्यांसाठी असलेलं खरं प्रेम आहे.

आमचे मार्गदर्शक,
प्रिन्सिपल सर - डॉ. कमलेश वाडेकर,
शिस्त, नेतृत्व आणि दूरदृष्टीचं प्रतीक.
ज्यांच्या मार्गदर्शनामुळे कॉलेजची ओळख
गुणवत्तेच्या शिक्षणाशी जोडली जाते.

आणि आमच्या आदरणीय मॅन्स,
ज्या टोचसंपेक्षा जास्त
आमच्या मोठ्या बहिणीसारख्या आहेत.

सपना मॅडम
अनुभव, आत्मविश्वास आणि ज्ञानाचं संपूर्ण पॅकेज.
कोणताही विषय असो, त्या इतक्या सोप्या पद्धतीने
शिकवतात की जवळच विषयही आमचा आवडता बनतो.

जया मॅडम
ऑरगॅनिक केमिस्ट्रीला भीतीपेवजी समज देणाऱ्या.
रिअॅक्शनमध्येही लालिख शोधायला शिकवणाऱ्या.

कल्याणी मॅडम
कन्सेप्ट प्लेअर करून नुलभूत गोष्टी मजबूत करणाऱ्या,
ज्यांच्या शिकवणीत नेहमी स्पष्टता असते.

चेतना मॅडम
संयम आणि समजूतदारपणाचं उदाहरण,
ज्या प्रत्येक विद्यार्थ्याला समान लक्ष देतात आणि
आत्मविश्वास वाढवतात.

शिवानी मॅडम
एनर्जी आणि पॉझिटिव्हिटीने क्लास जिवंत करणाऱ्या,
शिकणं कधीच कंटाळवाणं होऊ देत नाहीत.

सोहा मॅडम
शांतपणे, पण परिणामकारक शिकवणाऱ्या,
ज्यांच्या मार्गदर्शनामुळे विद्यार्थ्यांना विषयावर पकड येते.

अर्जुन मॅडम
सोप्या शब्दांत अवघड गोष्टी समजावणाऱ्या,
नेहमी मदतीसाठी तयार असणाऱ्या.

कधी कधी सर्व विषयांचे निवारक
१००% लागतात,
आणि तेव्हा आम्हाला कळतं हे फक्त मार्क्स नाहीत,
ही तुमची मेहनत आणि आमच्यावरचं विश्वास आहे.

तुम्ही सगळे आमच्यासाठी
फक्त शिक्षक नाही, तुम्ही आमची प्रेरणा, आमचा आधार
आणि आमचं भविष्य घडवणारे गुरू आहात. 🌟🌸

- वृषभ नामदेव हेते (महाजन)
(Assistant Professor - सहाय्यक प्राध्यापक)

MR.VRUSHABH HETE

Friday
सोम बुध्न ६, शुक्रवार, मार्च २०१९

अपना और पराया - - -

नाम, काम, ताम पुहेगे पराऊ, काम पर
हमारे अपने तो हमारा हाल पुछते है।
चहरे की खुशी देख लेते है पराऊ,
पर अपने जानते है किस मुसिवत से हम मुजते है।

आँखों में आँसू तो पराऊ कहते है,
कहाँ से आ रहे हो,
वहाँ अपने कहते है।
किसकी याद से इतने अरक बढा रहे हो।

दिल टुलने पर वो पराऊ कहते है,
हमारे पास कई और काम है,
पर अपने काम शककर पुछते है,
दिल तोड़ने वालों का क्या नाम है।

वो पराऊ खुँ होते है,
हमारी खुशीयों में लडे खुरा, होते है,
पर अपने तो आखिर अपने है,
जो हमारी खुशीयों में मी खुशी के आँसू
गते है।

HARSHEETA BHUSHAN

REVIEW OF CO-PROCESSED SUPERDISINTEGRANTS IN FASTDISSOLVING TABLET FORMULATIONS

Komal Anturkar*, Samiksha Likhari, Chandrakakha Ambadaye, Sadique Shahid, Tansira Ansari, Kalyanee Nirmal, Vrushabh Hete, Kamlesh Wadher

ABSTRACT PDF Certificate DOI: <https://www.doi.org/10.5281/zenodo.17471655>



REVIEW OF CO-PROCESSED SUPERDISINTEGRANTS IN FAST-DISSOLVING TABLET FORMULATIONS

Komal Anturkar*, Samiksha Likhari, Chandrakakha Ambadaye, Sadique Shahid, Tansira Ansari, Kalyanee Nirmal, Vrushabh Hete, Kamlesh Wadher

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ABSTRACT

The multifunctional excipients, which encompass co-processed excipients, enhance the formulation's additional functions. Based on the source various types of super disintegrants are available, these can be classified as synthetic, semisynthetic, natural, and co-processed. Co-processed superdisintegrants are specialized multifunctional excipients combining agents like Mannitol, sodium starch glycolate (SSG), microcrystalline cellulose (MCC), croscarmellose sodium (CCS), and crospovidone (CP), silica, and other polymers have emerged as critical catalysts in formulating disintegrating oral tablets. By combining swelling, wicking, compaction strength, and powder flow in a single particle system, these excipients surpass conventional physical mixtures and individual disintegrants in performance. In the development of pharmaceutical formulations, co-processed superdisintegrants have become a significant additive, providing answers to problems related to poor solubility, bioavailability, and patient compliance. The

principles, mechanisms, and advantages of co-processed excipients, as well as the manufacturing procedure and uses of co-processed superdisintegrants in drug delivery systems, are thoroughly examined in this review article.

KEYWORDS: Co-processed super-disintegrants, fast dissolving tablets, orally disintegrating tablets, Direct compression, pharmaceutical excipients, tablet disintegration.

Yash Kamble, Int. J. of Pharm. Sci., 2025, Vol 3, Issue 12, 654-662 | Review



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Review Article

Advances in Selegiline Therapy: The Role of Orally Disintegrating Tablets in Parkinson's Disease Management

Yash Kamble*, Prajakta Vaidya, Nikhil Khatwani, Atish Kawade, Kalyanee Nirmal, Vrushabh Hete, Kamlesh Wadher

KDK College of Pharmacy and Research Institute, Nagpur.

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DOI: 10.5281/zenodo.17529340

ABSTRACT

Selegiline is an irreversible monoamine oxidase-B (MAO-B) inhibitor primarily used in the management of Parkinson's disease to enhance dopaminergic activity by inhibiting dopamine metabolism. The development of orally disintegrating tablet (ODT) or oral-mucosal formulations has significantly improved patient compliance, especially in individuals with dysphagia, while enhancing bioavailability and minimizing first-pass hepatic metabolism responsible for the formation of amphetamine-like metabolites. Clinical evidence supports selegiline's role as an adjunct therapy to levodopa, improving motor symptoms and reducing "off" time in Parkinson's disease. It may also provide modest symptomatic benefit in early-stage disease by delaying the need for levodopa initiation. However, its long-term neuroprotective or disease-modifying potential remains uncertain. The ODT formulation offers practical and pharmacokinetic advantages, but clinicians must remain vigilant regarding potential drug interactions—particularly with serotonergic or adrenergic agents as well as adverse effects such as insomnia, agitation, or hallucinations related to its amphetamine-derived metabolites.

INTRODUCTION

Parkinson's disease is a progressive neurodegenerative disorder characterized by motor symptoms such as bradykinesia, rigidity, tremor, and postural instability, as well as non-motor symptoms including sleep disturbances, depression, and cognitive decline^[1]. Current

pharmacological therapy focuses on restoring dopaminergic neurotransmission^[2]. Among the therapeutic options, selegiline plays an important role due to its selective inhibition of MAO-B, thereby reducing dopamine breakdown in the brain^[3]. However, conventional selegiline tablets undergo extensive hepatic first-pass metabolism, leading to low bioavailability and the formation of

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Review Article

The Pharmacovigilance of Digital Therapeutics (DTX): Developing A New Safety Framework

Shantanu C. Parate*, Srushti S. Padole, Prajwal N. Bambole, Sakshi N. Bawankule, Pandurang D. Biradar, Siya V. Khadatkar, Chetna P. Hiwase, Kamlesh J. Wadher

KDK College of Pharmacy and Research Institute, Nandurwan, Nagpur, Maharashtra.

ARTICLE INFO

Published: 14 Oct 2025

Keywords: Digital Therapeutics (DTX), Pharmacovigilance, Patient Safety, Software-based Interventions, Adverse Event Monitoring, Chronic Disease Management, Data Privacy
DOI: 10.5281/zenodo.17346541

ABSTRACT

Digital therapeutics (DTX) are one of the novel and outstanding advancements in the health care, changed the way we treat and manage health conditions by using software as a form of medicine. From managing chronic diseases to supporting mental health, these tools offer new possibilities for personalized and accessible care. But just like traditional medicines, digital therapeutics must be safe, effective, and reliable. That's where pharmacovigilance comes in the process of monitoring and managing potential risks or adverse effects. However, tracking the safety of digital tools is different from monitoring drugs. It involves keeping an eye on software errors, data privacy concerns, unexpected user experiences, and clinical outcomes that may not be immediately obvious. As DTX continue to evolve, so must the systems that ensure their safety. In this review article we have discussed how pharmacovigilance is adapting to the digital age, highlighting the need for smarter monitoring, updated regulations, and stronger collaboration between developers, clinicians, and regulators to protect patients and build trust in this growing field.

INTRODUCTION

A new class of treatment known as digital therapeutics (DTX) has emerged because of the rapid advancement of drug technology in the digital age^[1]. It is an evidence based remedial intervention supported by high-quality software programs to help, manage, or treat a medical disease or disorders^[2]. DTX utilizes technology

like Artificial Intelligence (AI) and behavioural science to promote patient engagement, improve adherence to treatments, and provide real-time data for more accurate and personalized treatments^[3]. DTX does not require preclinical testing, which is necessary for pharmaceuticals, because it is software^[4]. Clinical evidence supports the development of the DTX operations to target particular medical conditions, especially

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THE PITUITARY POWERHOUSE: PHARMACOLOGY AND THERAPEUTIC APPLICATIONS OF ITS HORMONES

Nikhil M. Khatwani*, Yash P. Kamble, Atish B. Kawade, Prajwal N. Bambole, Chetna P. Hiwase, Vrushabh N. Hete, Dr. Kamlesh J. Wadher

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ABSTRACT

The pituitary gland – often called the "master gland" – secretes hormones that regulate growth, metabolism, stress responses, reproduction and water balance. These hormones include growth hormone (GH), prolactin (PRL), adrenocorticotropic hormone (ACTH), thyroid-stimulating hormone (TSH), luteinizing hormone (LH), follicle-stimulating hormone (FSH), vasopressin (AVP), and oxytocin. The pituitary gland plays an important role in the regulation of growth, differentiation and function of cells, including immunocytes. We highlight major therapies that mimic or modulate pituitary hormones – for example, recombinant GH (somatropin) for GH deficiency, desmopressin for diabetes insipidus, dopamine agonists (bromocriptine, cabergoline) for hyperprolactinemia, and GnRH analogs (leuprolide) for sex hormone disorders. Emerging advances, long-acting formulations, and challenges in hormone drug design are discussed, providing a detailed

overview for pharmacy students and healthcare professionals.

KEYWORDS: Pituitary gland, Growth hormone, Adrenocorticotropic hormone, Thyroid-stimulating hormone, Luteinizing hormone, Follicle-stimulating hormone.

INTRODUCTION

The endocrine system relies on creating and releasing hormones to coordinate bodily functions. The pituitary gland, located at the brain's base, integrates hypothalamic signals and secretes hormones that act on peripheral glands and tissues^[1]. Because it controls other

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Nikhil et al.

World Journal of Pharmaceutical Research

ART GALLERY



SAKSHI GOUR



PRAJAKTA KOTHE



SAMRUDDHI NAPTE



DHANSHRI ZADE



TUSHAR KADAM



KHUSHI MATALE



KADAMBARI INGLE



PAWAN GHUGUL

B PHARMA TOPPERS

3RD YEAR



Yogini Raut
I Topper
(8.80 CGPA)



Suhani Sheikh
II Topper
(8.73 CGPA)



Prachi Gadekar
III Topper
(8.40 CGPA)



Tansira Kausar
III Topper
(8.40 CGPA)



Dipika Meshram
III Topper
(8.40 CGPA)



Divya Karare
I Topper
(8.89 CGPA)



Shruti Shende
II Topper
(8.71 CGPA)

2ND YEAR



Nupur Jaiswal
III Topper
(8.57 CGPA)



Mansi Satpute
III Topper
(8.57 CGPA)



Kajal Ginnare
IV Topper
(8.46 CGPA)

1ST YEAR



Harsha Patle
CGPA-9.03



Kanak Bhadre
CGPA-8.93



Sakshi Gour
CGPA-8.90



Pratik Kawathakar
CGPA-8.83



Riyal Mule
CGPA-8.78

D PHARMA TOPPERS

1ST YEAR



YUVRAJ DAMAYE-82.5%



CHHAKULI NIMJE-78.6%



SAYYED UZHEFA MEHEK-
76.6%



TANU DAYARE-76.3%



AKANSHA GHOSEKAR-74.9%

2ND YEAR



SAMIKSHA SOMKUWAR-
79.73%



MADHURI JAISWAL -79.27%



DEVANGANI KALAMBE-
79.09%



SHRUTI WANKHEDE-79.09%



POOJA FALNIKAR-78.36%

ACHIEVEMENTS



POSTER COMPETITION



**HANDS ON TRAINING AT RAISONI
SCHOOL OF PHARMACY SAIKHEDA**

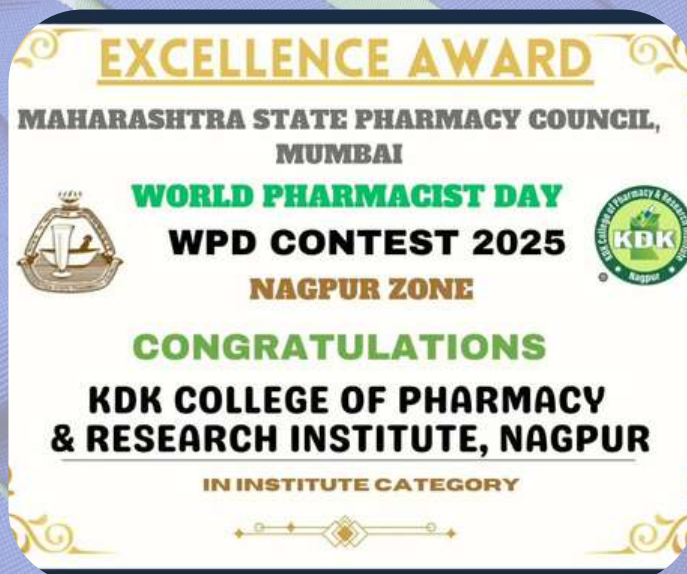


DBATU AVISHKAR 2026



**WEIGHT LIFTING
ORGANISED BY IEDSSA 2026**

COLLEGE AWARDS



MOU



GUDFRID CONSULTANCY NAGPUR



RAISONI SCHOOL OF PHARMACY



ARCO LABORATORIES LTD

HEADLINES

KDK कॉलेज ऑफ फार्मेसी को पुरस्कार

■ नागपुर, बिजनेस कनेक्ट. केडीके कॉलेज ऑफ फार्मेसी एंड रिसर्च इंस्टीट्यूट को महाराष्ट्र स्टेट फार्मेसी काउंसिल (एमएफपीसी), मुंबई द्वारा आयोजित वर्ल्ड फार्मासिस्ट डे कॉन्फ्रेंस 2025 में इंस्टीट्यूट कैटेगरी में विजेता घोषित किया गया. यह इण्डियन कॉलेज ऑफ फार्मेसी शिक्षा के क्षेत्र में निरंतर प्रयासों, व्यावसायिक उत्कृष्टता तथा सामाजिक योगदान के प्रमाण है. यह सम्मान संस्थान के विद्यार्थियों, प्राध्यापकों और कर्मचारियों के सामूहिक परिश्रम,

सृजनशीलता और समर्पण का परिणाम है. कॉलेज के प्राचार्य ने इस उपलब्धि पर हर्ष व्यक्त करते हुए कहा कि यह सम्मान केडीके कॉलेज की उस प्रतिबद्धता को दर्शाता है जिसके तहत संस्थान भविष्य के कुशल फार्मासिस्ट तैयार कर स्वास्थ्य सेवा क्षेत्र में निरंतर योगदान दे रहा है. कॉलेज प्रबंधन ने इस उपलब्धीय सफलता पर पूरे केडीके परिवार को बधाई देते हुए भविष्य में भी शैक्षणिक एवं व्यावसायिक उत्कृष्टता को नई ऊँचाइयों छूने की शुभकामनाएं दीं.

KDK में साप्ताहिक FDP



नागपुर, बिजनेस कनेक्ट. केडीके कॉलेज ऑफ फार्मेसी एंड रिसर्च इंस्टीट्यूट में साप्ताहिक फैकल्टी प्रत्येक दिन विभिन्न विशेषज्ञ संसाधन व्यक्तियों ने प्रभावी शिक्षण एवं अनुसंधान पद्धतियों पर अपने अनुभव

KDK College holds faculty devpt prog

■ CYRC's KDK College of Pharmacy & Research Institute, Nandanyan, in association with the Indian Pharmaceutical Association (IPA), Nagpur Branch, has organised a faculty development programme (FDP) on "Effective Teaching, Learning Process and Exploration of Pedagogical Tools and Techniques" from November 8 to 15. The FDP aims to enhance teaching methodologies, learning strategies, and the use of innovative pedagogical tools among pharmacy educators. Dr Vinod Thakare, principal of Nagpur College of Pharmacy, delivered a talk on "Ethics in Pharmaceutical Education and Research," emphasizing the role of integrity and responsibility in academics and research. Dr Kamlesh Wadher proposed the vote of thanks. Prof Dilip Denge and Anand Purohit were present.

विभारत | व्यापार

केडीके फार्मेसी में पूल प्लेसमेंट ड्राइव

■ नागपुर, बिजनेस कनेक्ट. केडीके कॉलेज ऑफ फार्मेसी एंड रिसर्च इंस्टीट्यूट ने कछेला मेडेक्स प्राइवेट लिमिटेड के सहयोग से सफलतापूर्वक पूल प्लेसमेंट ड्राइव का आयोजन किया. कछेला मेडेक्स प्रा.लि. के डायरेक्टर और सीईओ अनिल कुमार गंगवानी तथा समता गंगवानी स्वयं संस्थान में उपस्थित रहे और पूरे इंटरव्यू प्रक्रिया का संचालन किया. विदर्भ क्षेत्र के 40 से अधिक प्रतिभाशाली विद्यार्थियों ने इस ड्राइव में हिस्सा लिया जिनमें की गुणवत्ता और

KDK College of Pharmacy and Research Institute

KDK College of Pharmacy and Research Institute, Nandanyan, Nagpur, celebrated World Pharmacists Day with great enthusiasm and fervour. The college organised a plethora of events, including Pharma Quiz, National Level Pharma Reel, Pharma Rally, Rangoli, Slogan, Poster Making Competition.

The highlight of the event was the Pharma Quiz Competition in association with APTI, which witnessed participation from over 30 colleges across the state. Manish Chaudhary, Assistant Commissioner, Food Drug and Administration, Nagpur was the chief guest and Harish Dandekar, Director, Coptis Healthcare was the guest of honour.

Manish Chaudhary emphasised on the pharma skill development of student for overall growth. The events were a huge success, with students showcasing their creativity, knowledge, and skills.

The college management, teaching staff, and non-teaching staff were congratulated for their tireless efforts



in making the event a grand success.

Dr Kamlesh J Wadher, Principal, KDK College of Pharmacy, delivered a vote of thanks, expressing gratitude to the guests, participants, and organisers. Pharma Rally and Pharma Awareness Programme was organised in association with Nagpur District Chemist and Druggist Association. Rajendra Mulak, Secretary BCYRCs, Former Minister, Government of Maharashtra emphasised the importance of regular health check-up and praised the enthusiasm shown by student and staff.

FROM QUIZ TO RALLY: KDK COLLEGE OF PHARMACY SPREADS AWARENESS ON PHARMACISTS DAY

PHARMA QUIZ, NATIONAL-LEVEL REEL CONTEST, AND AWARENESS RALLY HIGHLIGHT THE OCCASION

India (APTI), which drew participation from over 30 colleges across Maharashtra. The event was graced by Manish Chaudhary, Assistant Commissioner, Food & Drug Administration, Nagpur, as the Chief Guest, and Harish Dandekar, Director, Coptis Healthcare, as the Guest of Honour. Addressing the gathering, Chaudhary emphasized the importance of skill development in pharmacy students to ensure holistic growth and career advancement. Adding further impetus to the celebration, a Pharma Rally and Public Awareness Program were organized in collaboration with the Nagpur District Chemist and Druggist Association. As part of the initiative, free health check-ups, including CBC (Hemoglobin, RBCs, WBCs, Platelets), Stickle Cell Anaemia, and Thalassemia screening, were conducted for students and staff. Rajendra Mulak, Secretary of BCYRC and Former Minister, Government of Maharashtra, lauded the enthusiasm of the participants



Nagpur, KDK College of Pharmacy & Research Institute, Nandanyan, Nagpur, celebrated World Pharmacists Day with great zeal and enthusiasm by organizing a series of academic and cultural events. The celebration featured activities such as National Level Pharma Reel Contest, Pharma Rally, Rangoli, Slogan Writing, and Poster Making Competitions. The highlight of the program was the Pharma Quiz Competition, conducted in association with the Association of Pharmaceutical Teachers of

COURSES



PERSONALITY DEVELOPMENT



SKILL INDIA



GPAT 6 MONTHS COURSE



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2026





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