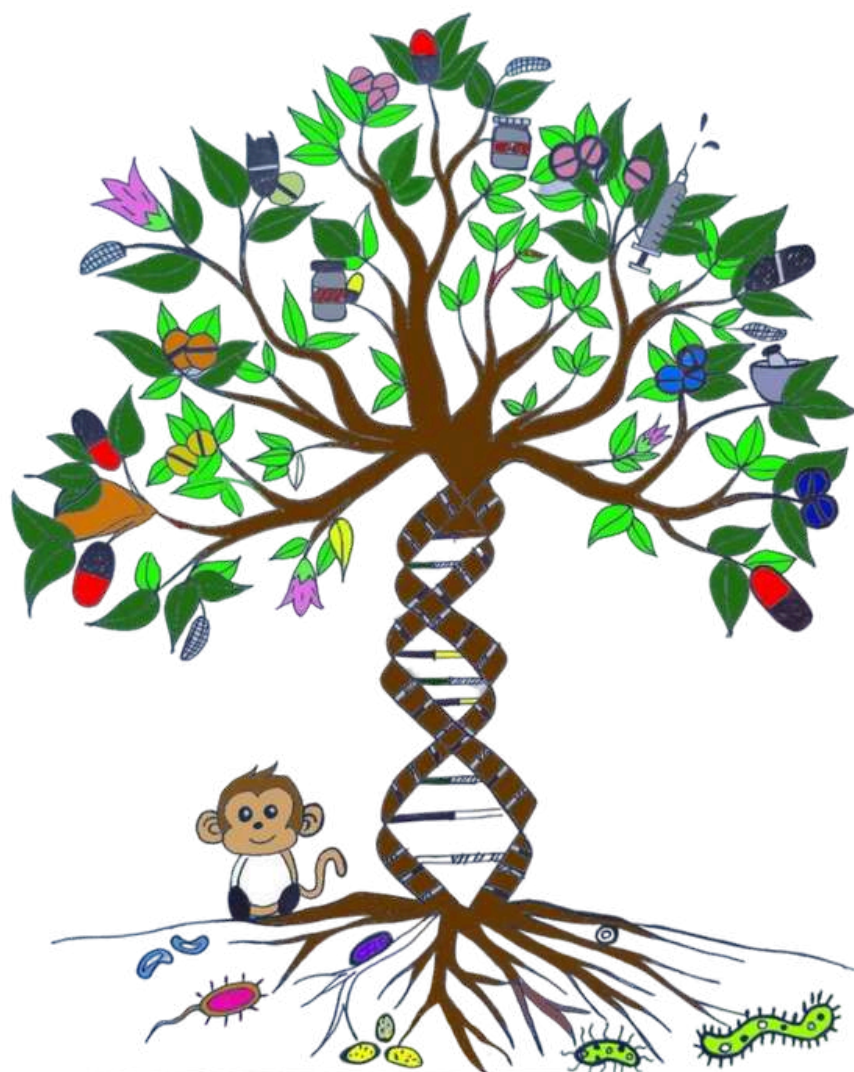


NEXGEN PHARMA

Department monthly e-magazine



PHARMACEUTICAL TECHNOLOGY

PAAVAI ENGINEERING COLLEGE

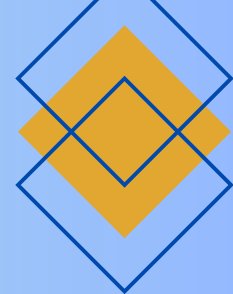
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TAMIL NADU, INDIA.

Jan-Feb 2025

Editorial Message



Welcome to NexGen Pharma Magazine 2025!

It is a proud moment for us to launch the monthly e-magazine of the Department of Pharmaceutical Technology. Our editorial team sincerely thanks the Chairman, Correspondent, Director-Admin, and Principal for granting us the freedom to publish this magazine.

Moving forward, we strive to elevate our department to new heights through the collective efforts of our students and staff. Two years ago, we had a department magazine, and after a brief hiatus, we are now revitalizing it to provide a platform for the Pharmaceutical Technology community to showcase their knowledge and expertise. This includes contributions in the form of artwork, puzzles, poems, essays, one-page research articles, a staff forum, an alumni spotlight, and more.

Additionally, we have featured past department activities as well as upcoming events and celebrations, encouraging everyone to actively participate. Beyond academics, our department boasts more than 15 student clubs, including the Library Club, Higher Studies & GATE Coaching Club, Seminar Club, Medicinal Plants Cultivation Club, Publication Club, Technical Events Organizing Club, and many more.

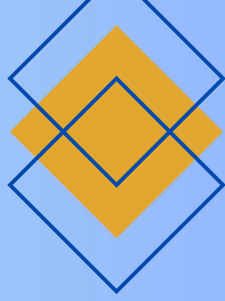
We extend Our sincere appreciation to the students and staff for their valuable contributions. Your efforts are truly commendable, and I encourage you to continue contributing in the months ahead, ensuring that learning and development go hand in hand.

Dr.M.Masilamani Selvam, M.Tech., Ph.D.,

Dr. H. Harikrishnan, M.Tech., Ph.D.,

Mr.M.G.Karthih, M.Tech., (Ph.D.)

Editorial Board Members



Dr M MASILAMANI SELVAM
Professor



Dr H HARIKRISHNAN
Associate Professor



M G KARTHI
Assistant Professor



SWETHA R
IV B.Tech (PT)



JEEVA S
IV B.Tech (PT)



DHANUSH KUMAR R
III B.Tech (PT)

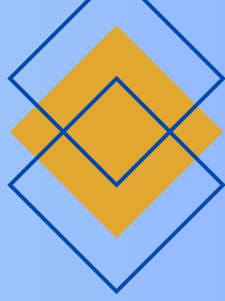


KANAGA R
II B.Tech (PT)



SOBIKA P
II B.Tech (PT)

Message from the Principal



PAAVAI ENGINEERING COLLEGE



Dr M PREMKUMAR
Principal

Warm Greetings!

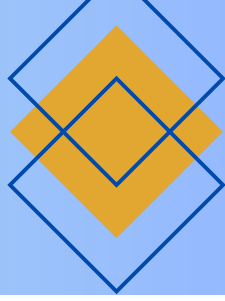
It is with immense pride that I acknowledge the outstanding achievement of the Department of Pharmaceutical Technology in releasing the magazine NexgenPharma. This milestone stands as a shining testament to the department's unwavering commitment to academic excellence, innovation, and student empowerment.

The magazine's content, which highlights the latest trends, research, and advancements in pharmaceutical technology, reflects the department's dedication to fostering a culture of knowledge sharing, critical thinking, and creativity.

I extend my heartfelt appreciation to the faculty and students involved in this remarkable endeavor. Your tireless efforts, teamwork, and passion for pharmaceutical technology have culminated in a publication that truly represents the department's excellence.

Best wishes to the magazine team, and I look forward to the magazine's impactful contributions in shaping the future of pharmaceutical technology.

Message from the HoD



PAAVAI ENGINEERING COLLEGE



Dr R PRAVEEN CUMAR

Department of Pharmaceutical Technology

Warm Greetings !

I am overwhelmed with joy and pride as we release the magazine "NexgenPharma". a brainchild of our department. This milestone is a testament to the dedication, teamwork, and persistence of our students, faculty, and staff.

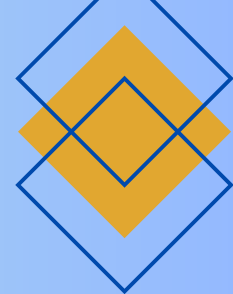
The magazine is a culmination of our department's efforts to foster a culture of innovation, research, and knowledge sharing. It showcases the latest trends, research, and advancements in pharmaceutical technology, highlighting our department's commitment to academic excellence.

I extend my sincere appreciation to each and every one of you who has contributed to this achievement. Your efforts have not only brought laurels to our department but have also created a platform for our students to showcase their talents.

Congratulations to the entire team!

Department Vision and Mission

PEOs/PSOs



Vision

To provide quality technical education and prepare the students to become well qualified Pharmaceutical Technologists competent to face global challenges and to serve the society by acquiring adequate professional knowledge and skills by training.

Mission

M1. Quality Education: To produce innovative, competent and goal-oriented Pharmaceutical Technologists through latest technology and educational experience.

M2. Technology Updation: To enrich the knowledge of students by imparting state of the art technology, so that they will satisfactorily serve the society.

M3. Employability: To improve employability of students through Industry-Institution relationship and make them industry ready.

M4. Research & Development: To widen the knowledge of the faculty members continuously through research and development initiatives.

Programme Educational Objectives (PEOs)

PEO I Global reputation

To provide profound knowledge in various fields of Pharmaceutical Technology for a successful career in their related Industries that makes them globally reputed.

PEO II Fundamental knowledge

To develop the students with a sound foundation in mathematical, scientific and engineering fundamentals necessary to synthesize the technical core concepts focusing on skill development and knowledge up gradation which will lead to technical innovations.

PEO III Continuous learning

To demonstrate professional success via learning in the broadest context of technological changes, continue to learn and advance in their careers by participation in professional organization & attainment of professional certification in the field of pharmaceutical technology.

Programme Specific Outcomes (PSOs)

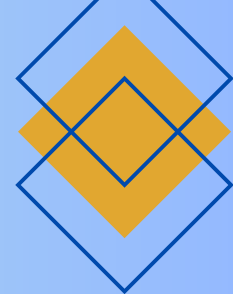
PSO I Design & Development

Design and develop new drug dosage forms which will provide solution to current difficulties faced by the industry of drug delivery and drug safety.

PSO II Core Competencies

Understanding and applying the fundamental concepts of drug synthesis, drug development, drug design and evaluation of the efficacy and safety of specific dosage forms.

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FACULTY FORUM

EVOLUTIONIZING PHARMACEUTICALS WITH ARTIFICIAL INTELLIGENCE

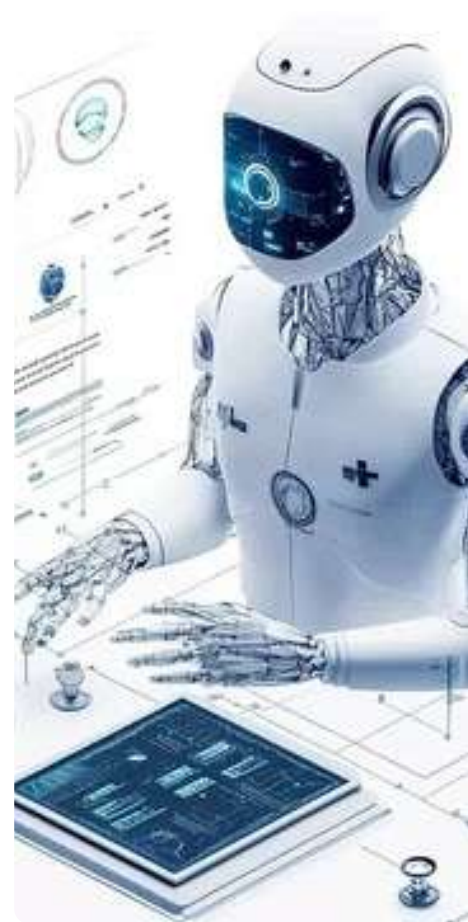
Artificial Intelligence (AI) is transforming the pharmaceutical sector, reshaping drug discovery, clinical trials, and manufacturing. By leveraging vast amounts of data, AI accelerates processes, reduces costs, and ultimately enhances patient care.

Traditionally, developing new drugs is a lengthy and costly endeavor, often requiring over a decade and billions of dollars. AI is revolutionizing this process by rapidly analyzing complex biological data to identify potential drug candidates. Innovations like DeepMind's AlphaFold allow scientists to predict protein structures in mere days rather than years, expediting the development of groundbreaking treatments.

Clinical trials, a crucial phase in drug development, are also benefiting from AI. Machine learning algorithms streamline patient recruitment, assess trial success probabilities, and monitor participants more efficiently. These results in significant time and cost savings while ensuring life-saving medications reach patients sooner.

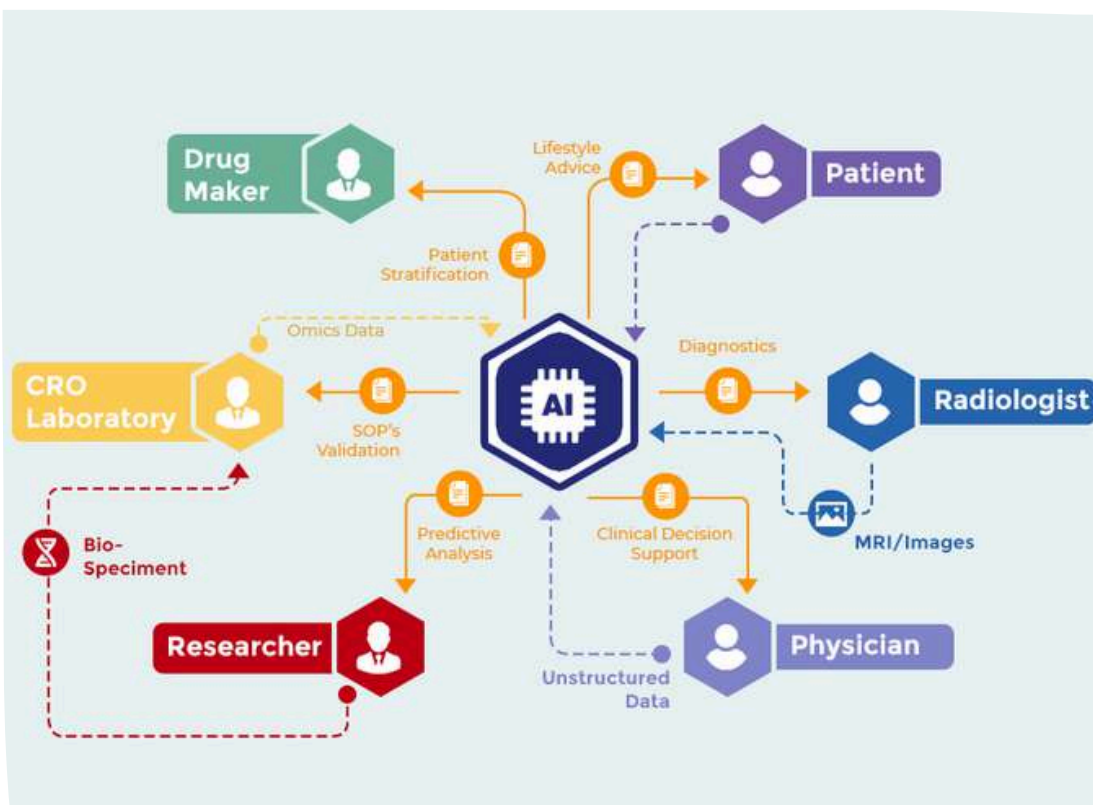
In pharmaceutical manufacturing, AI enhances quality control and operational efficiency. Predictive maintenance minimizes equipment failures, while AI-driven automation optimizes production lines, reducing waste and maintaining stringent safety and efficacy standards.

Another groundbreaking application is personalized medicine. By analyzing genetic data, AI can forecast how individuals will respond to specific treatments, enabling doctors to customize therapies for better outcomes with fewer side effects. This tailored approach is transforming patient care, making treatments more precise and effective.



However, integrating AI into the pharmaceutical industry presents challenges. Data privacy, regulatory compliance, and bias in AI algorithms require careful consideration. Additionally, the initial investment in AI technology can be substantial, demanding strategic planning and resource allocation.

Despite these hurdles, AI's potential in pharmaceuticals is immense. As the technology advances, it promises to revolutionize healthcare, making treatments more efficient, accessible, and personalized. In an industry where time is critical, AI is driving faster, smarter, and more effective medical innovations



ADAIKALA SELVAN G
Assistant Professor (PT)

MEDICINE & MUSE

THE PILL OF HOPE

Dr. Rachel Kim stared at the small, white pill in her hand, her heart racing with excitement. Years of research, countless setbacks, and unwavering dedication had led to this moment.

The pill, code-named "Reviva," was a revolutionary new treatment for a rare and debilitating genetic disorder. Rachel's team had worked tirelessly to develop the medication, pouring over research, conducting clinical trials, and fine-tuning the formula.

As she looked at the pill, Rachel thought of Emma, a young girl who had been diagnosed with the disorder. Emma's parents had been told she wouldn't live past her tenth birthday. But Rachel was determined to change that.

With Reviva, Rachel believed Emma had a chance at a normal life. The pill had shown remarkable promise in clinical trials, halting the progression of the disorder and even reversing some of its effects.

Rachel's eyes welled up with tears as she thought of the countless families who would be impacted by Reviva. She envisioned the pill bringing hope to those who had lost it, and healing to those who had suffered for so long.

With a deep breath, Rachel stood up, the pill still clutched in her hand. She knew the journey ahead wouldn't be easy, but she was ready. For Rachel, Reviva was more than just a pill – it was a beacon of hope.



KANAGA R
II B.Tech (PT)

HEALING FROM THE HEART

The busy lanes of Dharavi, located in bustling Mumbai, were home to a humble clinic run by Dr. Naina Patel. Her unwavering dedication to her patients had earned her the title of 'unsung hero,' as she provided essential medicines and treatments to those in neglected areas at reasonable prices. The clinic had seen countless faces over the years, each with their own stories of hardship and resilience, and Dr. Patel's compassion made a lasting impact on the community. One particularly hot and humid afternoon, a mother rushed toward the clinic's entrance, her face a mask of anxiety as she carried her young child, Rishi, who was doubled over in pain. After examining him with the utmost care, Dr. Patel quickly realized that the poor boy was gravely ill and required a treatment that was quite expensive—far beyond the means of many families in the area. Determined to help, she made it her mission to find a way to provide the care Rishi needed. That midnight, under the warm glow of a reading lamp in her small office, she opened her journal and meticulously noted her thoughts. Inspired by ancient herbal remedies and modern medical knowledge, Dr. Patel began conceptualizing a unique formula that combined herbal extracts with contemporary treatments. With her heart set on helping Rishi, she sought out the rare herbs she needed, determined to find a solution. As word of Rishi's illness spread through the community, residents of Dharavi rallied together in a remarkable show of support. Inspired by Dr. Patel's commitment, mothers, expectant mothers, grocers, and vendors all participated in sourcing the necessary herbs. They embarked on a treasure hunt throughout the bustling markets, asking vendors for leads and searching high and low to find each ingredient. It was a heartwarming sight—an unexpected display of kindness and collective spirit in Dharavi. Weeks passed as the community came together, sharing labour and resources.



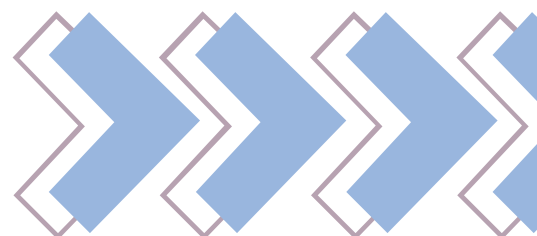
Neighbours exchanged expertise and stories about herbal remedies, turning the effort into a bonding experience. They created a network of support, communicating the progress of Rishi's condition and uplifting each other's spirits. Eventually, everyone contributed their time and skills to prepare the healing concoction, and it became a symbol of their solidarity. Finally, the day arrived when the remedy was ready. Rishi began to show signs of improvement, and his pain gradually subsided. His strength increased with each passing day, and the community watched in awe as he slowly began to walk again. It was a true testament to their collective efforts. Grateful families who had once walked past the Dr. Patel became a pillar of the community, not just a doctor but a guiding light for families navigating their hardships. Her actions inspired a new narrative in Dharavi, one where hope, resilience, and collective strength flourished. The clinic itself evolved into a hub of knowledge, where mothers shared their own experiences, and workshops were held to educate families about healthcare and nutrition. In time, the community began to treasure not only the healing of Rishi but also the bonds they formed throughout the journey. Together, they learned that while illness could bring sorrow, the strength of their unity and support could bring about miraculous change. Dr Patel was not just a healer; she was a catalyst for transformation in her community, a living testament to the fact that when people come together with love and purpose, they can overcome even the greatest of challenges.



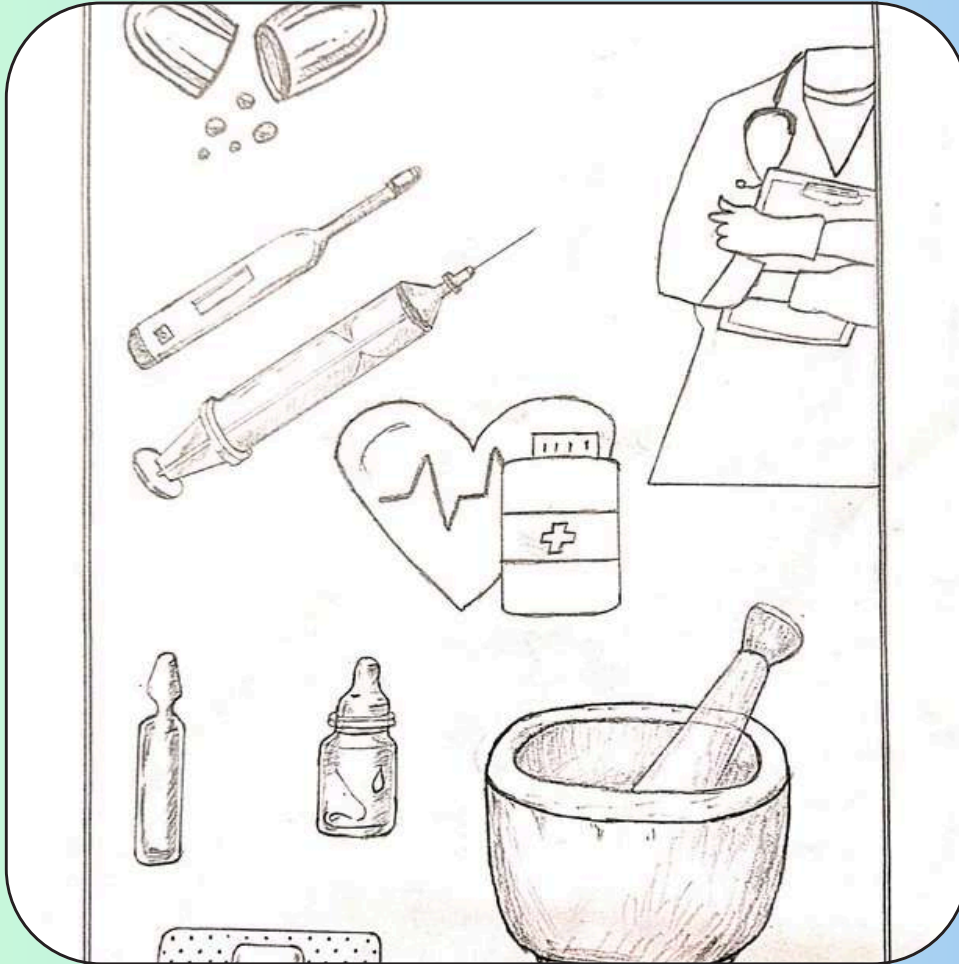
clinic now gathered around, sharing stories of hope and celebrating Rishi's recovery. Dr. Patel's clinic transformed into a beacon of hope and resilience in Dharavi. It was a reminder that sometimes the most powerful medicine doesn't come from laboratories but from the heart. Rishi's healing represented more than just effective medication; it was a testament to the love and moral support of the entire community. As Dr. Patel continued her work, she realized that her mission extended beyond offering medical care; it was also about fostering community ties and uplifting the spirits of those around her. Word of her success spread, and more families began to seek her out—not only for her medical expertise but for the compassion and empathy she embodied.



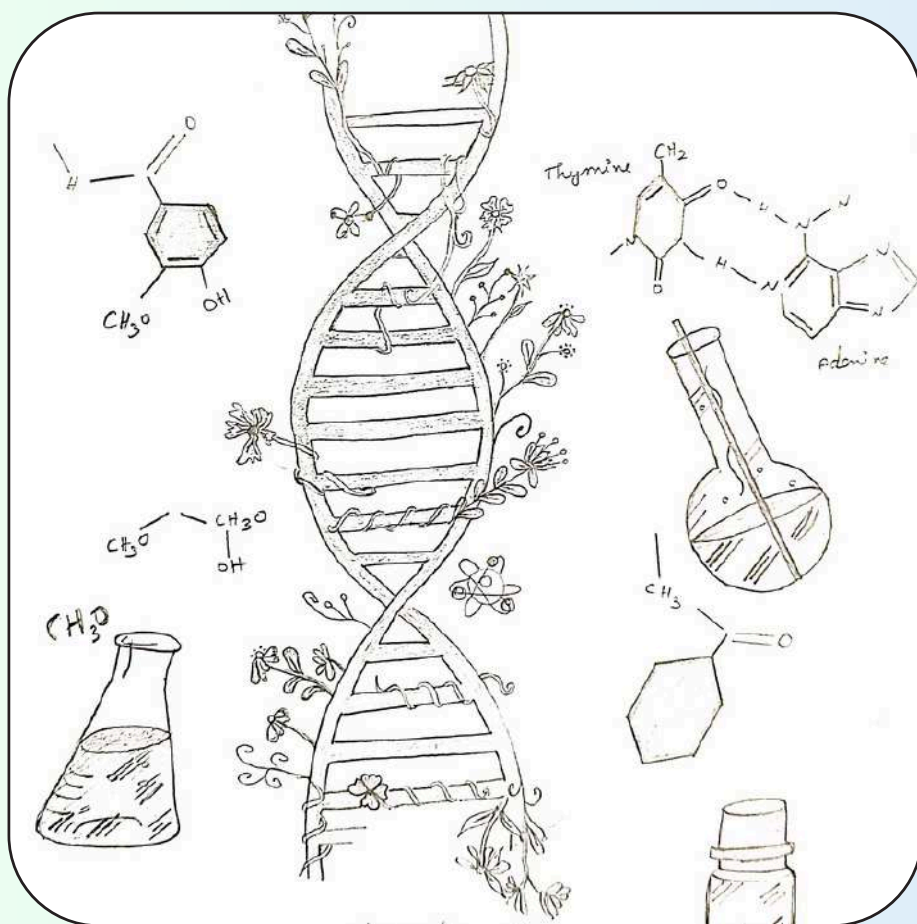
VISHVA V
IV B.Tech (PT)



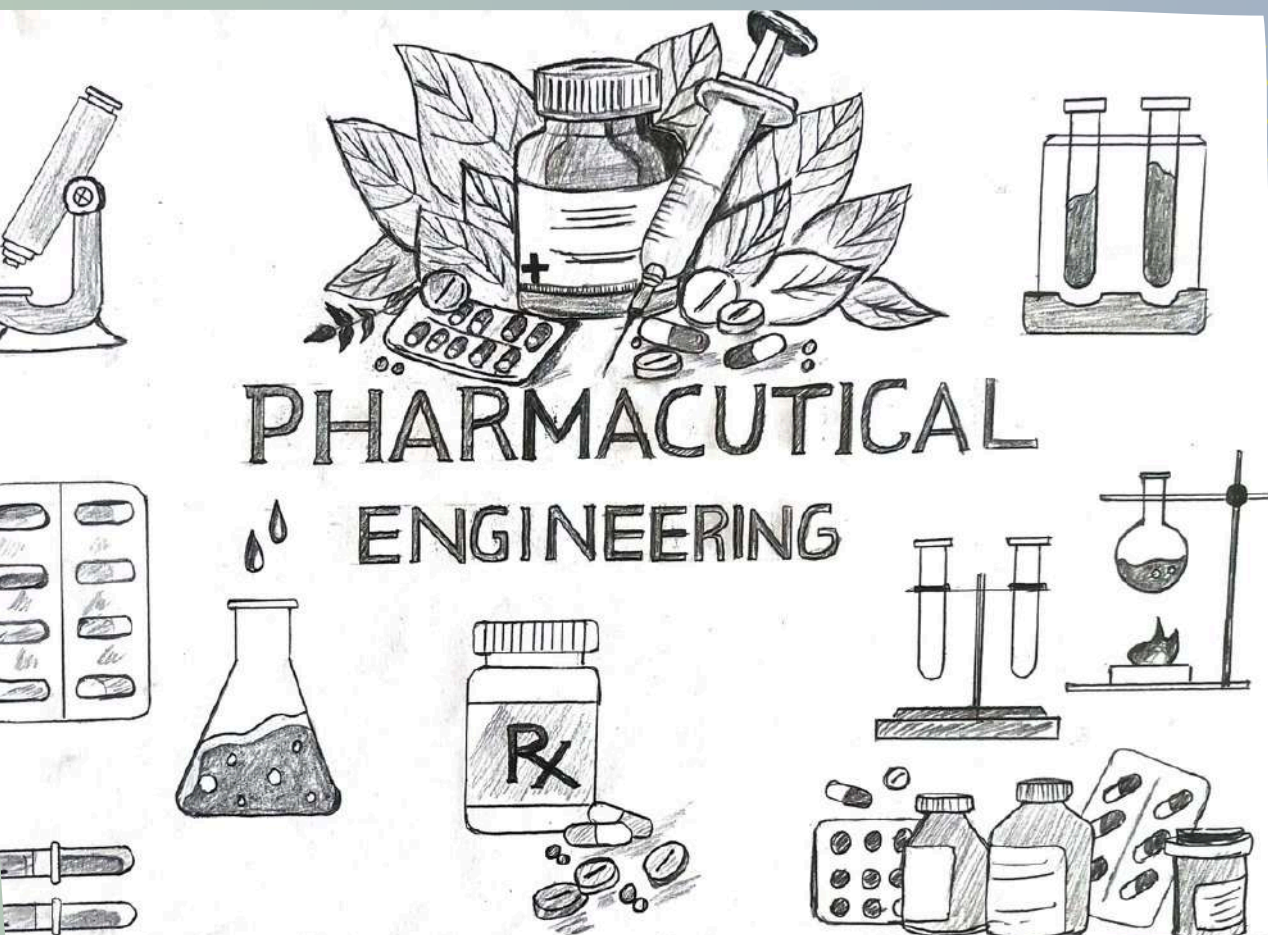
BRUSHSTROKE OF HEALTH



SUGANKUMAR S
II B.Tech (PT)



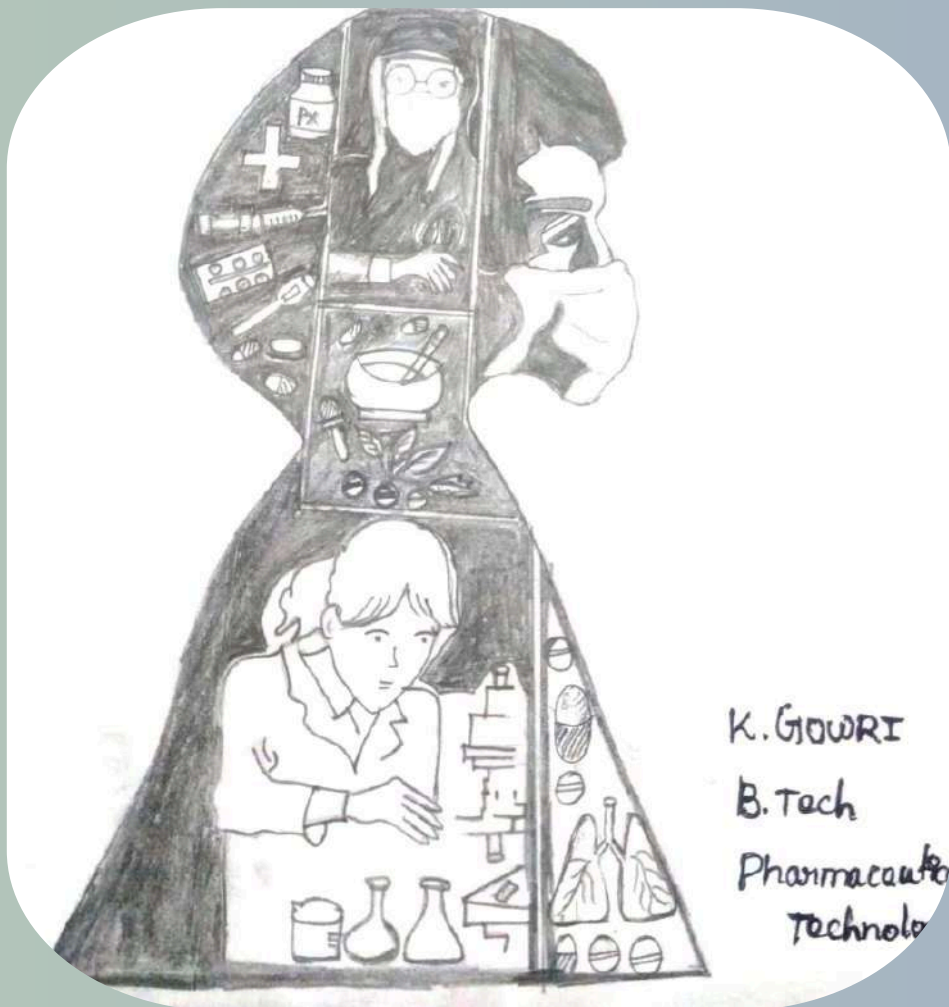
KRISHNA KUMAR R
II B.Tech (PT)



SANDHIYA V
III B.Tech (PT)



NAREN A
III B.Tech (PT)



GOWRI K
II B.Tech (PT)



MIND BENDERS

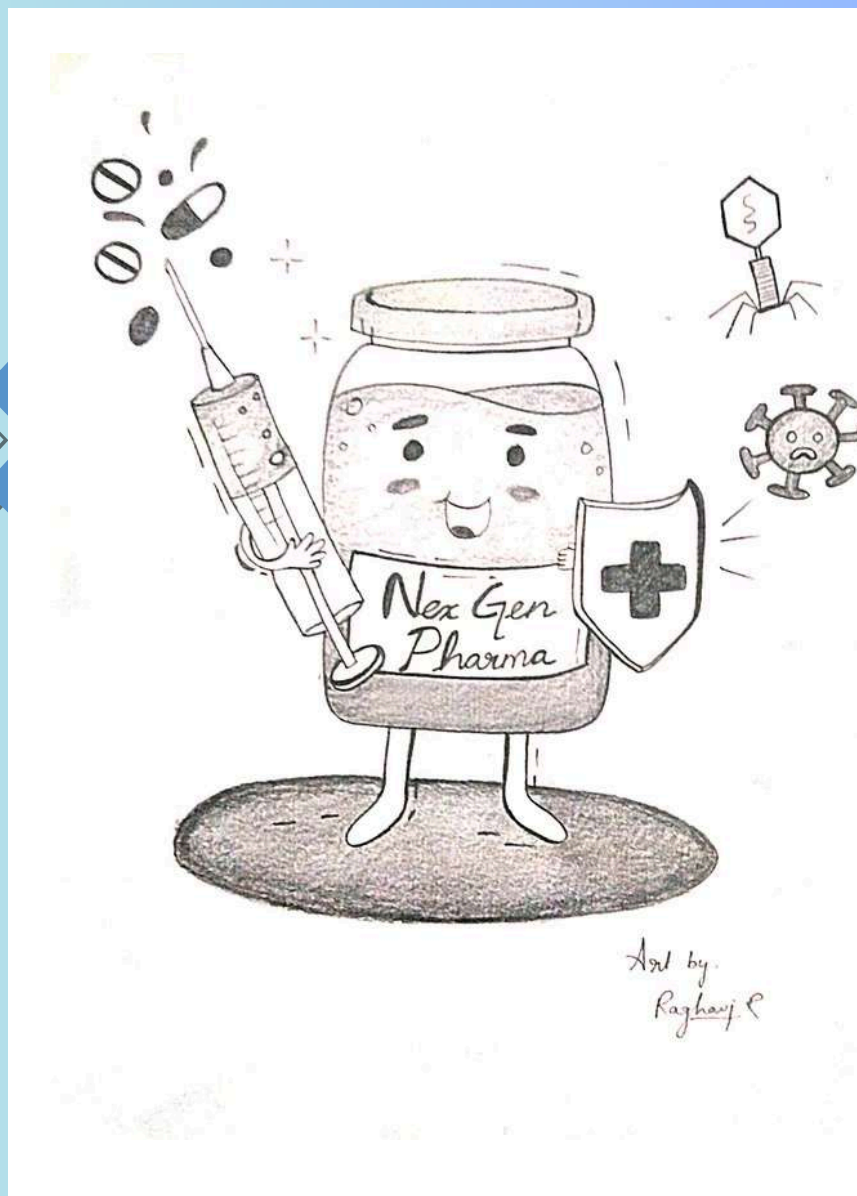
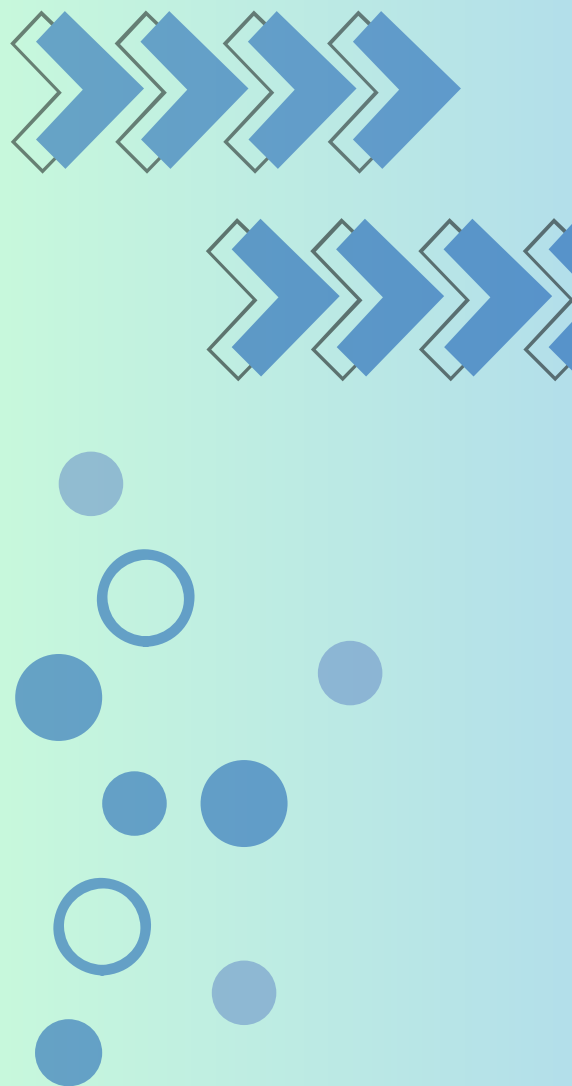
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N	O	I	G	M	L	I	R	T	S	E	Z	C	K	T



ARIVUKARASAN R
III B.Tech (PT)

1. It is used to treat nerve pain ?
2. It is used to treat high blood pressure (Hyper tension)?
3. It is used to prevent (or) Lower excess Uric acid Levels caused by patients with kidney stones?
4. It is used to treat stomach ulcers (Bacterial Infections)?
5. It is used to treat fingernails & feet (fungus Infections)?
6. It is used to treat bipolar (Depressive) disorder?
7. It is used to treat Epilepsy (It's also treat for Nerve Pain)?

DOSE OF HUMOR



RAGHAVIR
IV B.Tech (PT)

HEALTH & HYGIENE

ആരോഗ്യവും ശുചിത്വവും: ആരോഗ്യം ഒരു സമ്പത്ത് ആണ്, അതിനാൽ അതിനെ സംരക്ഷിക്കാൻ ശുചിത്വം അനിവാര്യമാണ്. ശരീര ശുചിത്വം, ഭക്ഷണ ശുചിത്വം, പരിസര ശുചിത്വം എന്നിവ പാലിക്കുമ്പോൾ മാത്രം നല്ല ആരോഗ്യ അവസ്ഥ നിലനിർത്താനാകും. ശുദ്ധജലം കുടിക്കുകയോ, പോഷകാഹാരം കഴിക്കുകയോ, ശരീര ശുചിത്വം പാലിക്കുകയോ ചെയ്യാതെ ആരും ആരോഗ്യകരമായ ജീവിതം നയിക്കാൻ കഴിയില്ല.

ശരീര ശുചിത്വം: നിത്യവും കുളിക്കേണ്ടത്, കൈകളും കാലുകളും ശുചിയായി നിലനിർത്തേണ്ടത് പ്രധാനമാണ്. ഭക്ഷണത്തിന് മുമ്പും ഉപയോഗശേഷം കൈ കഴുകുന്നത് പകർച്ചരോഗങ്ങൾ തടയാൻ സഹായിക്കും. സ്വച്ഛവസ്ത്രങ്ങൾ ധരിക്കുക, നഖങ്ങൾ ചെറുതാക്കി വൃത്തിയായി സൂക്ഷിക്കുക എന്നിവ ആരോഗ്യത്തിനാവശ്യമാണ്. ശരീര ശുചിത്വം പാലിക്കാത്തവർക്ക് അസുഖങ്ങൾ, അണുബാധ, മറ്റ് രോഗങ്ങൾ ഉണ്ടാകാൻ സാധ്യതയുണ്ട്.

ഭക്ഷണ ശുചിത്വം: ശുദ്ധജലം മാത്രമേ കുടിക്കാറു. അശുദ്ധമായ ഭക്ഷണം ഒരുപാട് രോഗങ്ങൾക്കും കാരണമാവാം. പഴകിയ ഭക്ഷണം കഴിക്കാതെ, അലോസരമില്ലാതെ പാചകം ചെയ്ത, ശുദ്ധമായ ഭക്ഷ്യവസ്തുക്കൾ മാത്രം കഴിക്കേണ്ടത് അനിവാര്യമാണ്. പഴങ്ങൾക്കും പച്ചക്കറികൾക്കും ഉപയോഗത്തിന് മുമ്പ് നല്ലതുപോലെ കഴുകേണ്ടതും പ്രധാനമാണ്.

പരിസര ശുചിത്വം: വീടും പരിസരവും വൃത്തിയായി സൂക്ഷിക്കണം. മാലിന്യങ്ങൾ തള്ളേണ്ടിടത്ത് മാത്രമേ കളയാറു. പൊതുസ്ഥലങ്ങളിൽ പുകയില ഉൽപ്പന്നങ്ങൾ ഉപയോഗിക്കാതിരിക്കുക, സാമൂഹിക ശുചിത്വത്തിനാവശ്യമാണ്. ശുചിത്വം പാലിക്കുമ്പോൾ ആരോഗ്യപരമായ ജീവിതശൈലി സ്വീകാര്യമാകുകയും സമൂഹത്തിന്റെ ക്ഷേമത്തിനും സഹായകമാവുകയും ചെയ്യും. ഓരോരുത്തരും ശുചിത്വം ജീവിതത്തിന്റെ ഭാഗമാക്കണം, അപ്പോൾ മാത്രമേ ആരോഗ്യകരമായ ഭാവി സാധ്യമാകൂ.

Health and Hygiene: Health is a valuable asset, and maintaining hygiene is essential to preserving it. Personal hygiene, food hygiene, and environmental cleanliness are crucial for a healthy lifestyle. Without drinking clean water, consuming nutritious food, and maintaining cleanliness, one cannot lead a healthy life.

Personal Hygiene: Taking a bath daily, keeping hands and feet clean, and maintaining personal cleanliness are essential. Washing hands before and after eating helps prevent infectious diseases. Wearing clean clothes, trimming nails, and keeping them tidy are also necessary for good health. Lack of personal hygiene can lead to skin infections, bacterial infections, and other diseases.

Food Hygiene: It is crucial to drink only clean water. Contaminated food can cause many diseases. Avoid consuming stale food and prefer fresh, well-cooked, and hygienic meals. Fruits and vegetables should be thoroughly washed before consumption.

Environmental Hygiene: Keeping homes and surroundings clean is important. Waste should be disposed of properly. Avoid using tobacco products in public places and refrain from spitting or littering to ensure social cleanliness. Maintaining hygiene promotes a healthy lifestyle and benefits society as a whole. Everyone should make hygiene a part of their daily routine, as it is essential for a healthier future.



Dr H HARIKRISHNAN
Associate Professor (PT)

जुड़ी और चिकित्सा

राजीव नामक की एक हर्बल कंपनी थी, जो प्राचीन और प्राकृतिक चिकित्सकों की नयी खोज खोलती थी। वहां कार्य करने वाले वैज्ञानिक बहुत कुशल थे जो यह मानते थे कि हर्बल चिकित्सा सिर्फ की नहीं, बल्कि सबके लिए उपलब्ध हो।

कंपनी में एक नया औषधी टी तैयार किया गया जो बहुत प्रभावी था। लेकिन यह कारगारी नियमित की योग्यता कर देखते ही कुशल को लगा कि कुछ नया करना चाहिए। उसने किसी को बन्द कर दिया और लगातार एक कोषियात्मक तैयार किया।

यह टी बाजार में आई और लोगों को दुख का रिवाज हुआ। लेकिन कुछ समया के कारण उसके को बाजार में बनाने में कमपनी को बहुत परेशानी हुई। अमीरिकी के बड़े टी में शामिल होने वाली यह टी दुनिया की नई मीराक बनगी। बाजार के प्रवासियों ने कंपनी को सही मदद दिया और उसके नियमित की जांच के लिए एक नई योजना लागू कर दिया।

यह कहानी हर्बल के जीवन में एक मिल की तरह दुनिया में आत्मनिर्भर करने की प्रेरणा देता है।

HERBS AND HEALING

Rajiv owned an herbal company that focused on discovering ancient and natural remedies. The scientists working there were highly skilled and believed that herbal treatments should not be limited to a few but should be accessible to all.

The company developed a new herbal tea that was highly effective. However, while assessing its efficiency, one of the experts felt the need for innovation. He discontinued a certain process and continuously worked on a strategic formulation.

When this tea was introduced to the market, it brought relief to many. However, due to some circumstances, the company faced significant challenges in mass production. Eventually, this tea became one of the most renowned herbal products in America, regarded as a new miracle in the world. Market leaders supported the company and implemented a new plan to systematically evaluate its effectiveness.

This story serves as a milestone in the world of herbal medicine, inspiring self-reliance globally.



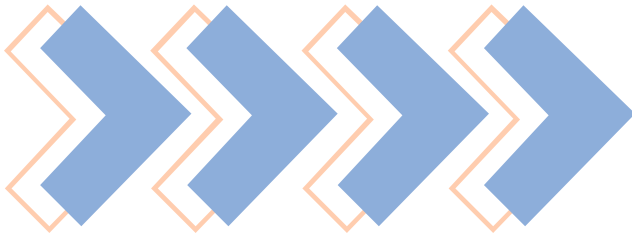
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மருத்துவத்தின் தன்னம்பிக்கை

ஒரு சிலிய கிராமத்தில் கதிர் என்ற ஒரு மருத்துவர் வாழ்ந்தார். அவர் மிகவும் உயர்ந்த மனப்பான்மையுடைய மருந்துகளுக்கு மிகுந்த கவனத்தை கொடுக்கும் ஒருவராக இருந்தார். அவர் சிகிச்சை எவ்வாறில் எப்போதும் புதிய மதுமைகளை இதன் தன்மை கொண்டுனர்.

ஒரு நாள், ஒரு பசிகாய்வினால் கடுமையாக பாதிக்கப்பட்ட ராதா என்ற எண்ணெய் அலுவலர் வந்தார். அவருக்கு பல நாட்களாக காயம் சரியாதவில்லை, அவர் உணவுக்கு கூட ரசம் இடாமல் இருந்தார். அவரின் குடும்பம் துக்கத்தில் மிதக்கி வாய், கதிரிடம் வந்தது.

கதிர், ராதாவின் நிலையை கவனித்து, அவருக்கான சிகிச்சையைத் தொடங்கினார். ராதாவின் பரிசோதனை முடிந்து, அவருக்கு குறிப்பிட்ட மருந்துகள் கொடுக்கப்பட்டன. ஒரு சில நாட்களில் அவருக்கு பலர் சம்பந்தமான



மாற்றங்களைப் பார்த்தனர். அவரின் உடல் வலிமை வந்தது, பரிதாபம் குறைந்தது, காயம் ஆகிவிட்டது.

இந்த சம்பவம் கதிருக்குத் தான் டீருத்துவம் என்பதன் உண்மையான சத்தி என்ன என்பதை நினைவூட்டியது. அது ஒரு குறிப்பிட்ட டீருத்து அல்லது ஒரு கருவி இல்லாமல், டீருத்துவ மனப்பான்மை, அக்கறை, மனிதரின் வாழ்க்கைக்கு அளித்தும் கொடுக்கும் ஒரு நோக்கம் கொண்டது என்பது அவருக்கு தெளிவாக வந்தது.

இந்த நான் முதல், கதிர் தனது டீருத்துவப் பயணத்தை அப்படியே தொடர்ந்தார். அவர் கையாளும் நோய்களை, டீருத்துகளை மீண்டும் சிகிச்சைகளை, அவர் நோயாளிகளின் வாழ்க்கையில் சிறந்த மாற்றத்தை ஏற்படுத்துவதற்கான ஒரு பணியாகப் பார்த்தார்.

"இந்த கணதரின் சுவம் நாம் அறிவது டீருத்துவம் என்பது மூலம் டீருத்துகளை அளிய்ப்பதோ அறிவிக்களை சரிசெய்வதோ அல்ல. அது உண்மையில் மனிதர்களின் வாழ்க்கையை மாற்றுவது, அதிர்வாதத்தை பாதுகாப்பது".



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पतार्मेशी की कहानी

कुनिश के सबसे पुरानी ज्ञात नुस्खे मैथिलीपीठमणिपा में सिद्धी की पत्रिका पर वर्ण किए गए थे, लगभग 2400 ई.पू. इस शुद्धीकरण बयुनिकॉर्ग वृक्षाबीज में कुलिश, मलहम और छीने के तरीके बताए गए हैं। अरमों, अंजलि, लीहबान, चमपाकड़ की बीट, बहुरा के शूल का पाउडर, नदी की जाद, माँप की खाल और "जाय के पैर में बाल" अद्वितीय आसानी से बाबर, बीजर या कूड़ा में धोले दिया जाता था।

जिम्मेदार दवा का सबसे पहला ज्ञात रिकॉर्ड सुश्रुत में पथा जाता है। जो खाली चिकित्सा पर एक शास्त्रीय संस्कृत ग्रंथ और आयुर्वेद, या आर्यजित् पारंपरिक चिकित्सा के तीन मूलग्रंथ ग्रंथों में से एक है - जो 6वीं सताब्दी ईसा पूर्व का है।

"स्वास्थ्य को अशक्त बनाना,
एक समय में एक नुस्खा।"



THE STORY OF PHARMACY

The world's oldest known prescriptions were recorded on a clay tablet in Mesopotamia (modern-day Iraq), ca. 2400 BC. This Sumerian cuneiform document describes methods for making poultices, salves and washes. The ingredients, including mustard, fig, myrrh, bat droppings, turtle shell powder, river silt, snakeskins and "hair from the stomach of a cow," were dissolved into wine, beer or milk.

The earliest known record of a compounded medicine is found in the Sushruta Samhita, a classical Sanskrit text on surgery and one of three foundational texts of Ayurveda or Indian traditional medicine that dates as early as the 6th century BC.



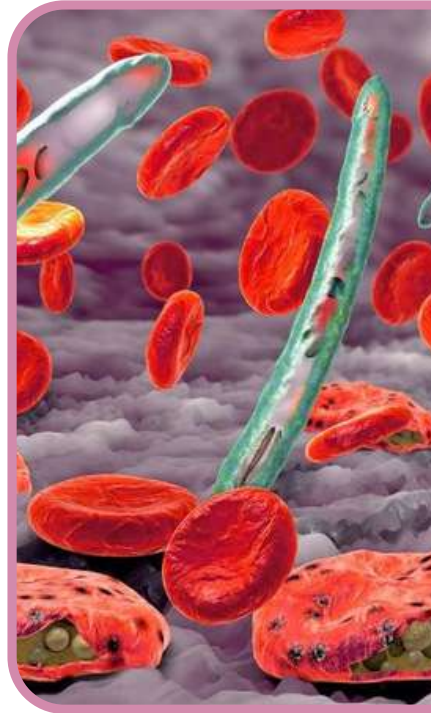
PRAVEENA M
II B.Tech (PT)



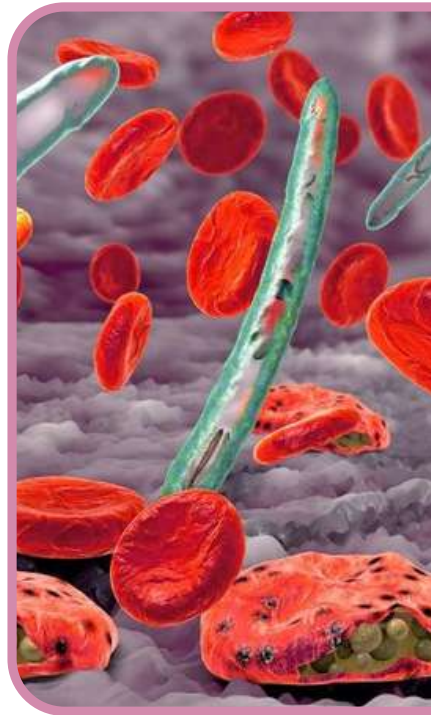
மலேரியா “தொகவாலி பரவும் நோய்”

மலேரியா என்பது நோய் பரப்பி அல்லது

நோய்க்காசி வாயிலாக பரவும் தொற்றுப்பண்புடைய ஒரு தொற்றுநோயாகும். இது இதழ்கலவற ஒட்டிண்ணின் மூலம் ஏற்படுகிறது. அமெரிக்கா, ஆசியா, மற்றும் ஆப்பிரிக்கா அகிய பகுதிகளையும் சமீபத்தில் வலயம் சார்ந்த மற்றும் ஆப்பிரிக்கா அகிய பகுதிகளையும் சமீபத்தில் மிக வலய மண்டல பிரதேசங்களிலும் இது பரவலாக காணப்படுகிறது. ஒவ்வாரு அண்டும் நோயாளமாக 350 முதல் 500 மில்லியன் உரையிலான மக்கள் மலேரியா நோயினால் பாதிக்கப்படுகிறார்கள். அவற்றில் ஒன்றிலிருந்து மூன்று மில்லியன் மக்கள் இத்த நோயினால் அறக்கிறார்கள். இத்த நோயின் காரணமாக இப்புவரங்களின் அதிகமானவர் சப்-சஹாரா ஆப்பிரிக்காவில் அதிகம் இளம் குழந்தைகளாவர். மலேரியா நோய்ப்பாக ஏற்படும் இறப்புகளில் 90 சதவீத இறப்பு சப்-சஹாரா ஆப்பிரிக்காவில் நிகழ்கிறது. மலேரியா மூலமாக வலமையுடன் நோயீ முன்னதாக அறக்கிறது. அனால் இது வலமைக் காரணமாகவும், மொகிளாதார இன்னொருதீர்வுக்கு மிகப்பெரிய தடையாகவும் அறக்கிறது.



வழக்கமாக நோய்க்காணியான பெண் அனாஃபிஸி
 கொசு அல்லது நுளம்பு மக்களைக் கடிப்பதன்
 மூலம் மலேரியா நோய் ஏற்படுகிறது. அனாஃபிஸிஸ்
 கொசுகளினால் மட்டுமே மலேரியா நோய்
 மற்றவர்களுக்குப் பரவுகிறது. நோய்க்கொற்றம்
 ஏற்பட்ட ஒரு நபரிடமிருந்து இரத்த உணவை
 உத்காள்வதும் போது அவை அவர்களிடமிருந்து
 நோய்க்காணியாக பிளாஸ்மோடியம் ஒட்டுண்ணியை
 பெற்று வேறொரு நபரிடம் இரத்த உணவை உண்ணும்
 போது அவருக்கு அந்நோயை கடித்துக் கொடுக்கிறது.
 நோய்க்கொற்றம் கொசு ஒரு நபரைக் கடிக்கும்
 போது சில சமயம் இரத்தத்தை எடுத்துக்
 கொள்கிறது. அந்த இரத்தத்தில் நுண்ணிய மலேரியா
 ஒட்டுண்ணிகள் இருக்கின்றன. சமார் ஒரு
 உரத்திட்டுப் பிறகு அந்தக் கொசு அதனுடைய
 அடுத்த இரத்த உணவை எடுத்துக் கொள்ளும்
 முன்பாக நபரைக் கடிக்கும் போது அந்த
 ஒட்டுண்ணிகள் கொசுவின் உமிழ் நீரில்
 கலந்து அந்த நபருக்கு எழுந்தப்படுகிறது.
 அந்த ஒட்டுண்ணிகள் அந்த சிவப்பணிகளில்
 பெரிக்கப்பட்டு ஏற்படுத்தும் அழிவுகளாக
 இரத்த சோகை (தலை லேசாக இருப்பது)

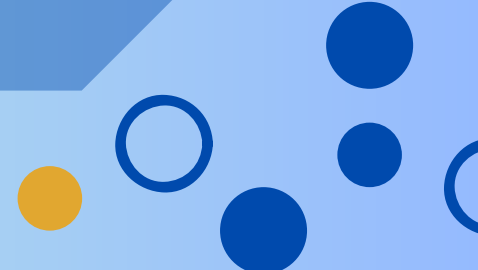


மிகவும் பொதுவான தொற்றுநோய்களில்
 மலேரியாவும், ஒன்றாகும். அது பொதுச்சிசுநாதார்த்தி
 -ந்தி மிக பெரிய பிரச்சனையாக இருக்கிறது.
 பிரிணம் பிளாஸ்மோடியம் (மலேரியா நோய்ச்சாரண
 என்னும்) மிதநிலவடிவு வடிவெண்ணிகளினால் அந்த
 நோய் ஏற்படுகிறது. பிளாஸ்மோடியம் ஒட்டுண்ணி
 ஐந்தே வகை அனாபிசு மனிதர்களுக்கும்
 நோய்த்தொற்றை ஏற்படுத்தலாம். நோயின்
 மிகவும் கடுமையான தன்மை பிளாஸ்மோடியம்.
 ஃபால்ஸிபாரத்தினால் ஏற்படுத்தப்படுகிறது.
 பிளாஸ்மோடியம் விவாக்ஸ், பிளாஸ்மோடியம் ஓவலெ,
 மற்றும் பிளாஸ்மோடியம் மலேரியா அகிலவந்தன்
 காரணத்தினால் ஏற்படும் மலேரியா மனிதர்களுக்கு
 மிகவும் இலகுவான நோய்த் தாக்கத்தைத் தரும்
 ஏற்படுத்துகிறது. அதற்கு பொதுவாக காலியூம்
 தன்மை இல்லை. ஐந்தாவது அனாபிசு
 பிளாஸ்மோடியம் நோயெலசி, குழை வால் கிராவித்
 -களுக்கு மலேரியா நோய் தாக்கத்தைத்
 ஏற்படுத்துகிறது. அது மனிதர்களுக்கும் நோய்த்
 தொற்றை ஏற்படுத்தலாம். மனிதர்களுக்கு
 நோய் விளைவிக்கும் தன்மையாக காலண்ட
 அந்த வகை பிளாஸ்மோடியம் அனாபிசு
 வடிவாக மலேரியா ஒட்டுண்ணிகள் என்ன
 கருதப்படுகின்றன.



கோவிட்- 19

[illegible]



காலவாத மக்களிடமிருமிருந்து தொற்று பரவு வாங்கியிருக்கிறது. மயக்கவாண அறிஞிகளில் காய்ச்சல், திடுக்கிடல், சளிச்சு, மூச்சு திணறல் மற்றும் வாசனை உணர்வு இழப்பு சிக்மனைவ அபவிதி. ஓதல் தீவிரமையுமி போது நினைவாணிமா மீதும் கடுமையான முகிசுதிதானால் சிக்மனைவ ருதிடுமி. அறிஞிகளின் மெரிசபலம் கால திணைவாணிவாணது மருதி ஐதிக நாயகன் உரை திடுக்கிட. சில சந்தர்ப்புகளில் திரணர் ம முதுவ பதினாணித் நாயகன் வரக்கூட திடுக்கிடலாம். திடுதொற்று சந்தர்ப்பித் அறிவியலுட துறையுதி அல்லது திடுதிமலுட தைவாந் துறைய சிகிசீசை சததும் திடுக்கிடல். அறிஞிகி கிணைப்பு சிகிசீசை சததும் திடுக்கிடல். அறிஞிகி சிகிசீசை மீதும் சததரவு சிகிசீசை சிக்மனைவலுடி முதன்மை சிகிசீசைகளாக உள்ளன. பரிநிசுரைசீசபலுட துறைய நடவடிக்கைகளில் தைகதிவுதல், திடுதிபுடி போது சூதும் தம் வாகைமுதிவது, மருவார்களிடமிருதித் துரதிதை பராமரிதிதல், மயக்க திபதிக்களில் முகசீசுவசம் அணிவது, சில துணிமைபபதிதிதல் சிக்மனைவ அபவிதிம். உரைபதிக்கல் மாசபதிதிதிகள் மீதும் பசுமைக்கிசீ வாயுக்கள் சிக்மனைவநீருந் மெரிசபலு திணைதிதது. 177 நாடுகளில் பரிநிசு, பரிக்கைகி கதிசீசை மீதும் கிசீசுபரிசுந் நாடு முதிவகம் அல்லது அளிஞி அிசுபகையிட முதிவலுள்ளன, திசு உலக மாணவரீ தொணகலில் சமாநி 98.6 உதிக்காமடிணைரை பாகிதிக்கள்ளது. பதிசு உலககலிகள் சிக்மனைவநீருந் முலம் தைவாந் பதிநிய துறாண தகவலிகள் பரவபபலுள்ளன. சின மகிசுதிசுதி சதிராகதும் சினர்கள் அல்லது அதிக ஓதாதிதிதாதிதும் விகிதாதிசுந் சின பதிதிமலுதிசு வதிசுவர்க்காகக் கடுதவதவர்க்குதிசு சதிராக திணைவாந் மீதும் பாகிபாந் காலசபலு சிசீசுபலிகள் நடதிக்கள்ளன.



GOWRI K
II B.Tech (PT)



TIMELESS REMEDIES

மருந்தென வேண்டாவாம் யாக்கைக்கு அருந்தியது
அற்றது போற்றி உணின்.(942)

*No need of medicine to heal your body's pain,
If, what you ate before digested well, you eat again.*

Explanation:

No medicine is necessary for him who eats after assuring (himself) that what he has (already) eaten has been digested.

A short story:

THE UNWANTED MEDICINE

Alisha had been bedridden for weeks, suffering from a chronic illness. His family had tried every possible treatment, but nothing seemed to work. One day, a wise old man visited Alisha and offered him a mysterious medicine. "This will cure you," the old man said, "but you must take it willingly." Alisha was skeptical, but desperate for a cure. He drank the medicine, and to his surprise, he began to feel better. However, as he recovered, Alisha realized that the medicine had an unexpected side effect: it made him see the world in a new light. He no longer took things for granted and appreciated the small joys in life. Alisha's family was overjoyed to see him recover, but they were also puzzled by the change in his behavior. Alisha had become more humble and kind, and he credited the medicine for this transformation. As Alisha looked back on his experience, he realized that the medicine had been more than just a cure for his physical ailment. It had also healed his soul, teaching him valuable lessons about gratitude and compassion. The unwanted medicine had become a blessing in disguise, and Alisha was forever grateful for its unexpected gift.

SURENDHAR M
II B.Tech (PT)

PHARMA RELATED THIRUKURAL

மிகினும் குறையினும் நோய்செய்யும் நூலோர்
வளிமுதலா எண்ணிய மூன்று

Meaning

"Marundhen vendedaam" suggests that something unnecessary, like medicine, should not be sought unless required. "Yaakkai arundhiyathu" implies that the body doesn't need something unnatural or excessive

மருந்தென வேண்டாவாம் யாக்கைக்கு அருந்தியது
அற்றது போற்றி உணின்.

Meaning

Together, it conveys that both excess and deficiency in certain aspects (possibly related to food, actions, or thoughts) can lead to harm, while balance is key. The "three things considered as the foundation of growth" likely point to vital principles or elements that should be managed wisely to ensure health and wellbeing.



DEEPAK G
II B.Tech (PT)

PHARMA RELATED THIRUKURAL

அற்றால் அறவறிந்து உண்க அஃதுடம்பு
பெற்றான் நெடிதுய்க்கும் ஆறு.

Meaning

When a person gains knowledge (A), they should act according to it, as that leads to long-term benefits and satisfaction. The phrase implies that the body is a temporary vessel, but knowledge and virtuous living ensure lasting value.

அற்றது அறிந்து கடைப்பிடித்து
மாறல்ல துய்க்க துவரப் பசித்து

Meaning

This line speaks about the importance of adhering to the path of knowledge and virtue. It advises against abandoning the learned way for temporary pleasures or distractions. The line can be interpreted as a caution against being misled by fleeting, indulgent desires that do not contribute to long-lasting happiness or well-being.



LOGESH T
II B.Tech (PT)

மாறுபாடு இல்லாத உண்டி மறுத்துண்ணின்
ஊறுபாடு இல்லை உயிர்க்கு.

Meaning:

No harm to life if what is eaten Does not include disagreeable food

இழிவறிந்து உண்பான்கண் இன்பம்போல் நிற்கும்
கழிபேர் இரையான்கண் நோய்.

Meaning:

As pleasure dwells with a moderate eater, So is disease with a voracious glutton.

தீயள வன்றித் தெரியான் பெரிதுண்ணின்
நோயள வின்றிப் படும்.

Meaning:

Unlimited eating beyond one's measure Leads to unlimited number of ills.

உற்றான் அளவும் பிணியளவும் காலமும்
கற்றான் கருதிச் செயல்.

Meaning:

A doctor should have the measure of the patient, Disease and its stage, and treat.

உற்றவன் தீர்ப்பான் மருந்துழைச் செல்வானென்று
அப்பால் நாற்கூற்றே மருந்து.

Meaning:

Any treatment involves these four orders: The patient, doctor, Medicine and nurse.



ABIKOIL V
IV B.Tech (PT)

ADVANCEMENT IN PHARMA

Advancements in pharmaceutical medicine include new technologies, therapies, and manufacturing methods. These advancements are improving the speed, cost, and efficiency of drug development and administration

Personalized medicine

Doctors use a patient's genetic information, lifestyle, and medical history to create a customized treatment plan.

Additive manufacturing

Three-dimensional printing allows for the creation of drug products with specific characteristics, such as geometry, porosity, and API composition.

Continuous manufacturing

The pharmaceutical industry is adapting to produce smaller batches for precision medicine.

Real-time monitoring and reporting

The use of real-world data and AI technologies is improving drug development, clinical research, and drug safety.

Artificial intelligence

AI is being used to improve medicinal chemistry, drug discovery, and synthesis planning.

Patient involvement

Pharmaceutical companies are creating patient advisory boards to involve patients in the development and distribution of products.

Data integrity

Pharmaceutical companies are taking steps to protect sensitive information related to drug formulations, research, and development.

Regenerative Medicine

Innovations in stem cell therapies and tissue engineering are offering new treatments for previously untreatable conditions.



UDHAYAVANAN K
IV B.Tech (PT)



ADVANCEMENTS IN MEDICINE

The Journey of a Lifetime: Saving Lives through Innovation

In the early 2000s, Sarah's mother was diagnosed with breast cancer. The treatment options available at the time were limited, and the prognosis was grim. Sarah's mother underwent chemotherapy, but the side effects were severe, and the cancer eventually relapsed. This experience sparked a fire within Sarah, driving her to pursue a career in pharmaceutical research. She wanted to contribute to the development of innovative treatments that could save lives and improve patient outcomes.

The Rise of Immunotherapy

Sarah joined a team of researchers at a leading pharmaceutical company, where they were working on a novel immunotherapy approach. This new treatment aimed to harness the power of the immune system to fight cancer. The team faced numerous challenges, but their dedication and perseverance paid off. After years of research and clinical trials, their immunotherapy treatment received FDA approval.

A New Era in Cancer Treatment

The approval of this immunotherapy treatment marked the beginning of a new era in cancer treatment. Patients who had exhausted all other options now had a new beacon of hope. Sarah's mother, who had relapsed multiple times, was among the first patients to receive this treatment. To everyone's surprise, her cancer went into remission, and she was able to spend precious time with her loved ones.

Expanding Frontiers

The success of this immunotherapy treatment paved the way for further innovation. Researchers began exploring its potential in treating other types of cancer, as well as autoimmune diseases. Sarah's team continued to push the boundaries of pharma research, developing new treatments that targeted specific genetic mutations. Their work led to the discovery of novel biomarkers, enabling earlier diagnosis and more effective treatment.

The Future of Medicine

As Sarah looked back on her journey, she realized that the advancements in pharma medicine had transformed the landscape of healthcare. Patients who had once been given little hope now had access to life-saving treatments.

The pharma frontiers continued to expand, driven by the tireless efforts of researchers, scientists, and healthcare professionals. As they pushed the boundaries of innovation, they brought new hope to patients and families around the world. Sarah's story serves as a testament to the power of human ingenuity and the impact of pharma research on people's lives. As we continue to explore the frontiers of medicine, we may uncover even more groundbreaking treatments, improving patient outcomes and saving countless lives.



JOYAL MATHEW J
II B.Tech (PT)

DEPARTMENT DIARY



Adaikala Selvan, Paavai Engineering College, Namakkal, Tamil Nadu. The certificate recognizes his role as a Top Performing Mentor for the NPTEL Online Certification Course titled "Wild Life Ecology" for the period July - December 2024.



Certificate of Appreciation awarded to Karthih M G from Paavai Engineering College, Namakkal, Tamil Nadu. The certificate recognizes his role as a Top Performing Mentor for the NPTEL Online Certification Course titled "Wild Life Ecology" for the period July - December 2024.



Mr. G. Adaikala Selvan (Assistant Professor, Department of Pharmaceutical Technology, Paavai Engineering College, Namakkal) Certificate of Appreciation from Arunai Engineering College, Tiruvannamalai, for the 7th International Conference on Bioenergy, Environment, and Sustainable Technologies (BEST 2025), held from 29–31 January 2025. To express gratitude for his valuable support as a Session Chair during the conference.



PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, Paavai Nagar, Pachal, Namakkal-637018

ALUMNI GUEST LECTURE SERIES

Academic Year : 2024 - 25

Lecture : 11



Ms.C.Queen Santhoshini

Medical Coder

Optum Healthcare Private Limited

Chennai

Alumni

Paavai Engineering College
Pharmaceutical Technology

Batch 2018 - 2022

“ Training Requirements for a Career in Medical Coding ”

Date : 27/01/2025 - Monday
Mode : Online
Time : 9:30 AM to 11:30 AM
Link : <https://shorturl.at/XrJzc>

Ms.S.Ilakya
Alumni Coordinator

Mr.S.Sathish
AAC Coordinator

Dr.R.Praveen Kumar
Head - Pharmaceutical

Dr.M.Premkumar
Principal



PAAVAI ENGINEERING COLLEGE

AUTONOMOUS

NH-44, PAAVAI NAGAR, PACHAL, NAMAKKAL - 637 018.



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

ALUMNI GUEST LECTURE SERIES

Academic Year : 2024-25

Lecture : 12



Mr.C. Vetrivel

Sales Officer

Sun Pharma Industry Limited

ALUMNI

Paavai Engineering College

Pharma , Batch 2018 - 2022

“Present and Future of Pharmaceutical Marketing”

Date : 28.01.2025 - Tuesday

Mode : Online

Time : 10.30 a.m. to 01.00 p.m.

Link : <https://rb.gy/penlf1>

Ms.S.IIakya
Alumni Coordinator

Mr.S.Sathish
AAC Coordinator

Dr.R. Praveen Cumar
Head - Pharma

Dr.M.Premkumar
Principal

PHARMA PULSE

Student Contributions

Research Findings: Students could present findings from ongoing research projects, such as innovations in drug formulation, novel drug delivery systems, or early-stage studies in biotechnology.

Technology in Pharma: Students might present research on emerging technologies like artificial intelligence, machine learning in drug discovery, or advancements in pharmaceutical manufacturing, showing how these innovations could reshape the future of the industry.

Faculty Contributions

In-depth Research: Faculty members could present more detailed research on cutting-edge technologies in the pharmaceutical field, such as nanomedicine, gene therapies, or the use of big data in pharmaceutical development.

Educational Perspective: Faculty could discuss the importance of equipping the next generation of pharmaceutical scientists with the necessary knowledge and skills, highlighting evolving trends in pharmaceutical education.

Format for Short Communications

Poster Presentations: Faculty and students could showcase posters summarizing their research and technological innovations, which could be viewed both in person or virtually.

Panel Discussions or Webinars: Faculty could moderate discussions involving students and industry professionals on emerging trends in pharmaceutical technology, allowing for an exchange of ideas and knowledge.

Themes and Topics for Short Communications

Personalized Medicine: Advances in pharmacogenomics and tailored treatments.

Sustainable Pharma: Innovations in reducing environmental impacts in the pharmaceutical industry.

AI & Drug Discovery: How artificial intelligence is transforming the process of drug development.

Benefits of Pharma Pulse for Students and Faculty

Skill Development: Students can hone their presentation and research communication skills, while faculty can refine their mentoring roles.

Inspiration and Collaboration: Sharing new ideas and innovations can inspire future collaborations between academia and industry, driving forward the advancement of pharmaceutical technologies.



JAMUNARANI R
IV B.Tech (PT)

STUDENTS ACHIEVERS





This certificate is from Arunai Engineering College, Tiruvannamalai, awarded for participation in the 7th International Conference on Bioenergy, Environment, and Sustainable Technologies (BEST 2025), held from 29–31 January 2025.





Department of Pharmaceutical Technology students have been actively involved in TQI (Talent Quiz For India) to create socially responsible leaders in local communities. For which they have organised social awareness programs for holistic development. The volunteers from our department are Mr. Rahul (IV year,PT) and the following third year students, Mr. Gokul Raj, Mr Dhanush Kumar, Mr. Ramana, Mr.Aswinth Ajay, Ms.Sathya Sri and Ms. Sivaranjani.

KNOW YOUR ALUMNI



JEGAN S

Junior Officer

Quality Control Malladi Drugs and Pharmaceutical Ltd.
NO.67 SIPCOT Industrial Complex, Ranipet - 632 403

Here's an alumni feedback:

"I'm Jegan, a proud alumnus of Paavai Engineering College. The college's rigorous curriculum and exceptional faculty prepared me well for my profession. Paavai's emphasis on practical learning helped me develop essential skills. I'm grateful for the opportunities I had here. Thank you, Paavai!"



SOWMIYA

Junior Executive, Quality Control
Intermed Laboratories

No. 4, G.K.Industrial Estate, Arcot Road, Poru,
Chennai , Tamil Nadu - 600 116

The college provided me with a fantastic learning experience, and I'm grateful for the knowledge and skills I gained during my time there. The faculty were highly supportive, and the infrastructure was top-notch. Overall, I'm proud to be an alumnus of this esteemed institution, and I'm confident that it will continue to nurture talented individuals who make a positive impact in their chosen field - Sowmiya

DISEASE TO AWARE

ROTAVIRUS

Rotavirus is a highly contagious virus that infects nearly all young children. It is one of the most common causes of severe diarrhea in the US. Before there was a rotavirus vaccine, almost all US children were infected with rotavirus before their 5th birthday. Each year in the US, rotavirus was responsible for:

More than 400,000 visits to healthcare professionals' offices

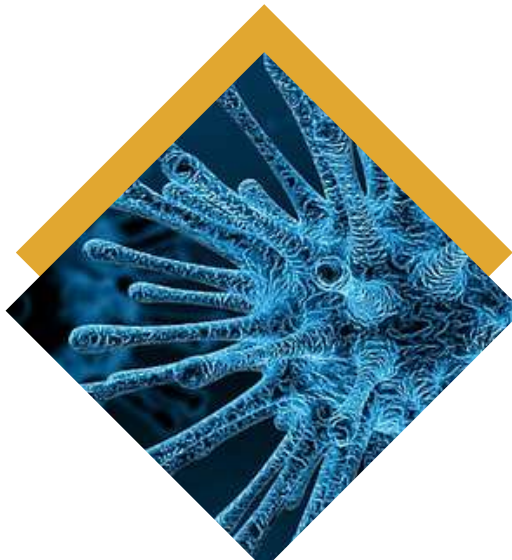
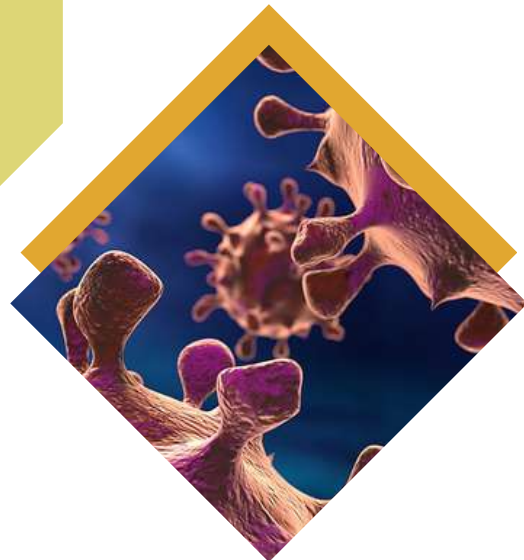
More than 200,000 emergency room visits

Up to 70,000 hospitalizations

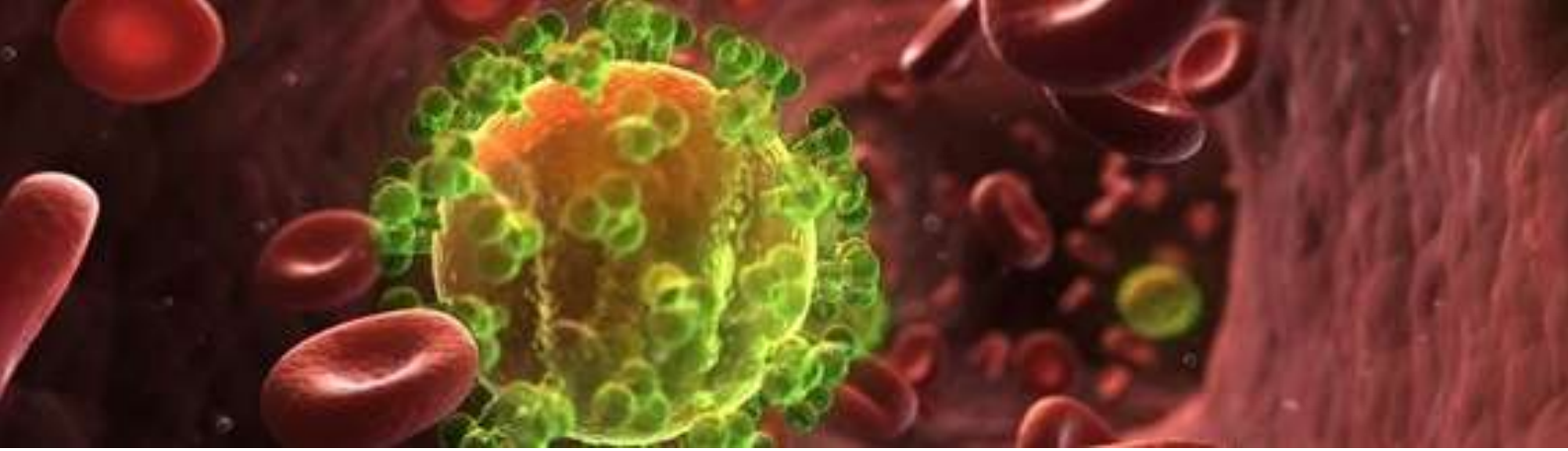
20-60 deaths

Awareness:

Getting your child vaccinated is the best way to help protect against rotavirus disease. There are 2 rotavirus vaccines currently licensed for infants in the US. Children should get their 1st dose of rotavirus vaccine before age 15 weeks and complete all doses before age 8 months. There are no specific drugs to treat rotavirus infection. To relieve symptoms and prevent dehydration, it's important to drink plenty of fluids, such as over-the-counter rehydration solutions that you can find in drug stores. Severely dehydrated patients may need to be hospitalized so they can receive fluids through their veins.



NANDHA KUMAR V
II B.Tech (PT)



Cardiovascular Disease (Heart Disease)

Prevention: Regular exercise, healthy diet, maintaining a healthy weight, and avoiding smoking.

Minimize Progression: Monitoring cholesterol and blood pressure, managing stress, and adhering to prescribed medications if needed.

Chronic Respiratory Diseases (COPD, Asthma)

Prevention: Avoid smoking and exposure to lung irritants.

Minimize Progression: Proper medication use, avoiding triggers, and regular monitoring of lung function can help manage the disease.

Cancer (e.g., Breast, Colon, Skin)

Prevention: Healthy lifestyle choices like not smoking, avoiding excessive sun exposure, eating a nutritious diet, and regular screenings.

Minimize Progression: Early detection through screening, following treatment protocols, and lifestyle changes (like improving diet, exercise, and reducing stress).

Alzheimer's Disease and Dementia

Prevention: Engaging in cognitive exercises, maintaining physical activity, and managing vascular health (blood pressure, cholesterol, etc.).

Minimize Progression: Medication, creating a supportive environment, and social engagement can slow decline.

Hypertension (High Blood Pressure)

Prevention: A healthy diet, regular exercise, and avoiding excessive alcohol and smoking.

Minimize Progression: Regular monitoring, medication, and lifestyle modifications.

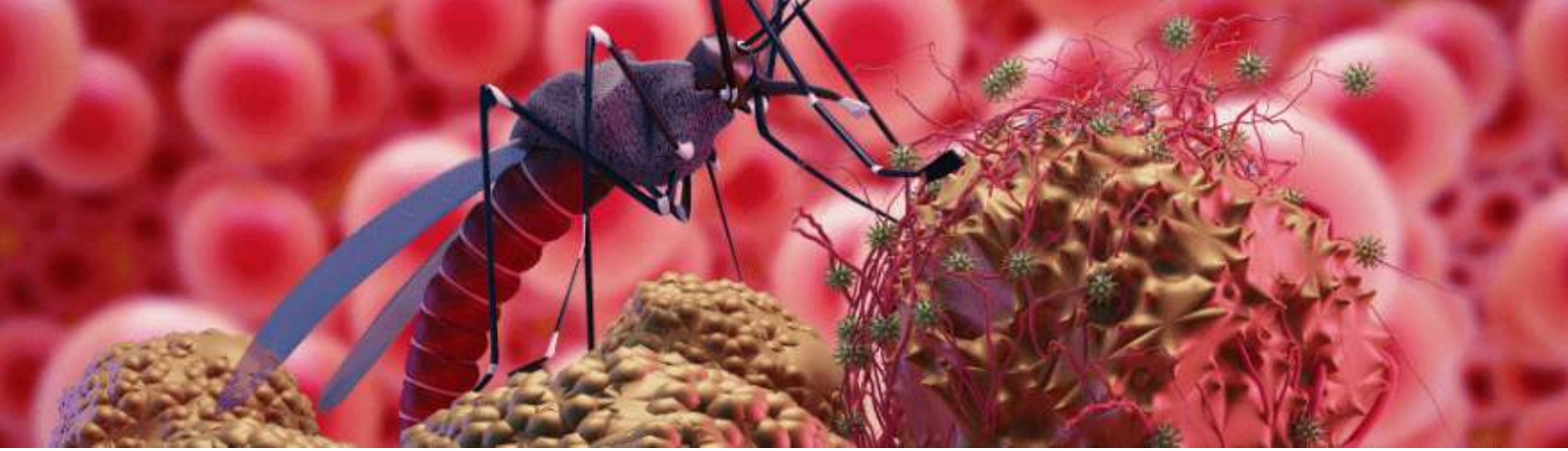
HIV/AIDS

Prevention: Safe practices (e.g., using protection during sexual activity), regular testing, and education.

Minimize Progression: Adherence to antiretroviral therapy (ART) can slow or prevent disease progression.



JAMUNARANI R
IV B.Tech (PT)



ZIKA VIRUS

Zika virus disease is caused by a virus transmitted primarily by Aedes mosquitoes. Zika can be transmitted by pregnant women to developing babies, and infection during pregnancy can cause microcephaly and other serious birth defects. Pregnant women who develop symptoms of Zika virus infection should be closely monitored by a healthcare professional.

Awareness:

1. **Mosquito control:** Eliminate standing water around homes to prevent mosquito breeding.
2. **Wear protective clothing:** Wear long-sleeved shirts, long pants, and socks when outdoors.
3. **Use insect repellent:** Apply insect repellents containing DEET, picaridin, or oil of lemon eucalyptus.
4. **Install window screens:** Ensure windows and doors have proper screens to keep mosquitoes out.
5. **Avoid travel:** Pregnant women should avoid traveling to areas with Zika virus transmission.

Treatment:


1. **Rest and hydration:** Stay hydrated and rest to help the body recover.
2. **Pain management:** Take over-the-counter pain medications like acetaminophen or ibuprofen.
3. **Antipyretics:** Use antipyretics to reduce fever. Supportive care: Receive supportive care, such as hospitalization, in severe cases



JOYAL MATHEW J
II B.Tech (PT)

Automatic Maintenance System Using Wireless Sensor Node for Productive Aquaculture



G. Jegan , M. Masilamani Selvam, I. Rexiline Sheeba, P. Kavipriya, R. Rishav Varma, and Praveen Selvam

Abstract Aquaculture is trending toward intense controlled environment production, which increases productivity but increases the danger of catastrophic loss from equipment or management failures. To optimize potential, intense production facility managers require reliable, real-time system status and performance information. This study designed and implemented low-cost short-range wireless sensor network modules for Productive Aquaculture to monitor and maintain environmental factors such as the toxic or harmful level of water used for aquaculture by using different types of sensors and collecting information through a wireless mess network. The results demonstrate that the proposed method optimizes the aquaculture system's capacity for monitoring, control, and recording. Aquaculture environments with a high risk of fish mortality may be made safer via constant monitoring of the most important parameters. The outcome is a reduction in labor expenses and energy consumption with an increase in consumer safety, consumer trust, and economic benefit from aquaculture.

Keywords IoT · Aquaculture · Environmental factors · Wireless sensor network · Real time monitoring and control

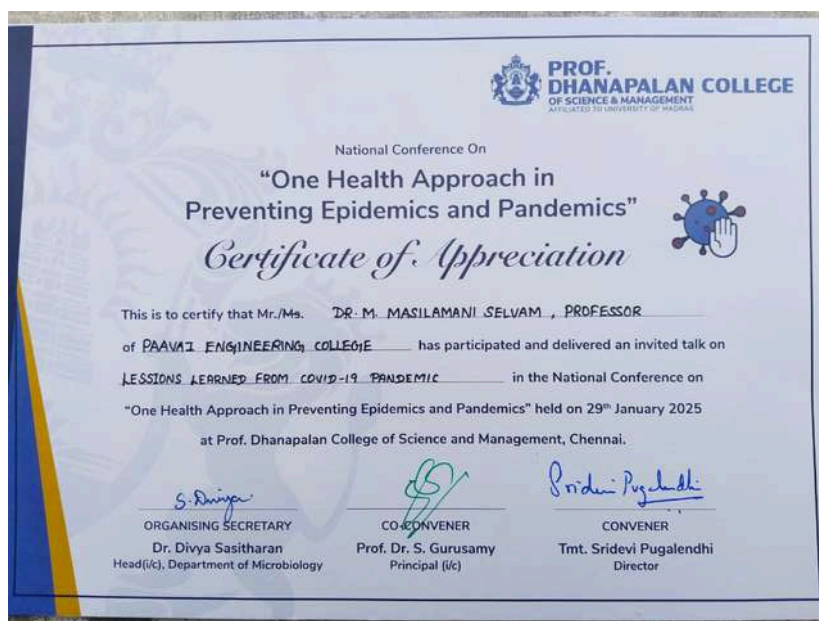


Jegan, G., Masilamani Selvam, M., Rexiline Sheeba, I., Kavipriya, P., Varma, R.R., Selvam, P. (2025). Automatic Maintenance System Using Wireless Sensor Node for Productive Aquaculture. In: Tripathi, A., Soni, A., Tiwari, M., Swarnkar, A., Sahariya, J. (eds) Intelligent Computing Techniques for Smart Energy Systems. ICTSES 2023. Lecture Notes in Electrical Engineering, vol 1276. Springer, Singapore.

DOI: https://doi.org/10.1007/978-981-97-8464-6_19



January 20-22, 2025, Dr. M. Masilamani Selvam Delivered an invited talk on “Sustainable Aquaculture: A Key to Blue Economy” at the "International Conference on Blue Economy-2025" organized by the School of Marine Sciences, Department of Oceanography and Coastal Area Studies, Alagappa University, Satellite campus, Thondi, Tamil Nadu.



On January 29, 2025, Dr.M.Masilamani Selvam, Delivered an invited talk on “Lessons Learned from the COVID-19 pandemic” at the National Conference on "One Health Approach in Preventing Epidemics and Pandemics" organized by the Department of Microbiology at Prof. Dhanapalan College of Science and Management, Chennai, Tamil Nadu.

Integrating Traditional, Contemporary, and Advanced Medicine in Healthcare

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Abstract

Medicine has constantly advanced over periods, considered by cultural practices, scientific discoveries, and technological advancements. From the herbal remedies of traditional medicine to the innovative techniques of modern-day advanced medicine, healthcare approaches have dramatically transformed to address a rising range of diseases. Traditional medicine, with its roots in ancient healing practices, continues to be an essential part of global healthcare, specifically in many developing countries. Meanwhile, contemporary medicine represents the basis of modern healthcare, combining scientific research, pharmaceuticals, and surgical interventions to treat and manage diseases. In recent years, advanced medicine has emerged, driven by cutting-edge technologies such as gene therapy, regenerative medicine, enzyme replacement therapy and personalized treatments. These innovations have the potential to revolutionize healthcare by offering more precise, effective, and targeted therapies. Understanding the distinctions, advancements, and approaches within each system of medicine provides a comprehensive view of how healthcare is evolving in the modern world.

Keywords: Healthcare, contemporary medicine, traditional medicine, regenerative medicine, advanced medicine, pharmaceuticals

"Integrating Traditional, Contemporary, and Advanced Medicine in Healthcare", authored by Dr Hariharan Hari Krishnan from the Department of Pharmaceutical Technology, Paavai Engineering College, Tamil Nadu, India. It was published in PriMera Scientific Medicine and Public Health, Volume 6, Issue 1, January 2025 (ISSN: 2833-5627).

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Certificate of Registration for a UK Design

Design number: 6416267

Grant date: 15 January 2025

Registration date: 09 January 2025

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Aishwarya Venkittaraman, Dr. Panduga Mynar Babu, Dr. Hariharan

Harikrishnan, Dr. Damodar Shankararao Hotkar, Dr. Jaghannath Kodepaka, Dr.

Neethu Asokan, Dr. Hemant Dnyaneshwar Chandore

in respect of the application of such design to:

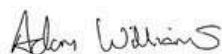
SOIL AND CROP ENHANCING ROBOTIC DEVICE

International Design Classification:

Version: 15-2025

Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED

Subclass: 03 AGRICULTURAL AND FORESTRY MACHINERY



Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.



Intellectual Property Office is an operating name of the Patent Office

www.gov.uk/ipo

Dr. H. Harikrishnan was granted a UK Design patent titled " Soil and Crop Enhancing Robotic Device" on 15th January 2025.



Ms. A.U. Lekha Shree, a third-year Pharmaceutical Technology student, served as the overall coordinator for the Republic Day parade march-past event, held on January 26, 2025, at Paavai Engineering College. Previously, she had participated in the Republic Day parade on January 26, 2024, during the 75th Republic Day celebration at Kartavya Path, New Delhi.



LEKHA SHREE A U
III B.Tech (PT)





In the Graduation day ceremony of batch 2020-2024, out of 44 students 40 students were graduated with 2 gold medalist, Vijayakumar.V (9.50 CGPA) and Suma.R (9.12 CGPA).



VIJAYKUMAR V
GOLD MEDALIST (9.50 CGPA)



SUMA R
GOLD MEDALIST (9.12 CGPA)



PLACEMENT SECURED STUDENTS



ABI A
IV B.Tech (PT)
Orchid Pharma Ltd.



CHANDRU V
IV B.Tech (PT)
Orchid Pharma Ltd.



DHINESH KUMAR R
IV B.Tech (PT)
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GOWRISHANKAR V
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GOWTHAM M
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GUGANRAJ E
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MOHAMED MUJJAMEEL S
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PRAVIN KUMAR S
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Orchid Pharma Ltd.



PRAVEEN KUMAR T
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Orchid Pharma Ltd.



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SANTHOSH KUMAR S
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Orchid Pharma Ltd.

UPCOMING EVENTS



S. No.	Scheduled Date	Name of the Event
1	11-02-2025	Academic guest lecture
2	12-02-2025	Library Club activity
3	12-02-2025	Green House activity
4	13-02-2025	Lecture Series Talk 2
5	20-02-2025	Lecture Series Talk 3
6	21-02-2025	Farm land activity
7	22-02-2025	Technical Quiz associated with National Science Day
8	28-02-2025	National Science Day/ Rare Disease Day



PHARMA DIVERSITY

Ayurveda

Ayurveda, the ancient Indian system of medicine, is rooted in the use of natural substances such as herbs, minerals, and plant-based compounds for healing. Pharmaceutical technology in Ayurveda focuses on the development of effective and safe herbal medicines and formulations. Over time, technological advancements have helped refine the preparation processes of Ayurvedic medicines, ensuring standardization and quality control. Modern pharmaceutical technology has enabled the extraction of active compounds from plants using advanced techniques such as solvent extraction, supercritical fluid extraction, and chromatography. These methods help isolate the therapeutic components from raw plant materials with high precision. One of the key challenges in Ayurvedic medicine is the consistency and potency of herbal formulations. Pharmaceutical technology has helped in the standardization of these formulations, ensuring that they deliver the same therapeutic benefits each time.

Siddha

Similar to Ayurveda, Siddha medicine is deeply rooted in the use of natural substances, including plant, animal, and mineral-based ingredients. However, Siddha's therapeutic approach is more closely tied to spiritual practices and the transmutation of materials. Pharmaceutical technology has found ways to modernize the preparation and administration of Siddha medicines, focusing on the complex formulations and their potency. Siddha medicines include complex combinations of plant extracts and minerals. Pharmaceutical technology is used to purify and refine these substances through advanced purification processes, such as calcination (putting herbs and minerals through specific heating processes) and sublimation.

Allopathy

Allopathy, or conventional Western medicine, relies heavily on pharmaceutical technology for the development, production, and delivery of drugs. This system is based on evidence, scientific research, and clinical trials. Pharmaceutical technology plays an essential role in every aspect of allopathic medicine, from drug discovery to patient treatment. The foundation of pharmaceutical technology in Allopathy is drug discovery, which often begins with identifying active compounds from natural sources or through synthetic chemistry. Techniques like high-throughput screening, molecular modeling, and genetic engineering are employed to discover new drug molecules.



VEDHAVATHI R
IV B.Tech (PT)

AYURVEDA

Natural and Plant-Based Medicines: Ayurveda emphasizes the use of natural ingredients such as herbs, minerals, and plant extracts for therapeutic purposes. In pharmaceutical technology, these ingredients are being explored for their potential to treat various diseases, often through more natural or holistic approaches.

Phytopharmaceuticals: Ayurvedic knowledge of plants is now being used to develop phytopharmaceuticals, which are plant-derived substances used in the formulation of modern medicines. For example, turmeric (with its active compound curcumin) is used in both Ayurvedic treatments and contemporary pharmaceuticals for its anti-inflammatory and antioxidant properties.

Modern Extraction and Formulation Techniques: Advances in extraction methods (such as high-performance liquid chromatography and supercritical fluid extraction) are used to isolate active compounds from Ayurvedic herbs. These compounds can then be standardized and formulated into modern dosage forms (like tablets, capsules, or tinctures) for greater consistency and efficacy.

Personalized Medicine: Ayurveda's principle of personalized medicine tailoring treatments based on an individual's unique constitution (dosha) and imbalances—has inspired approaches in pharmacogenomics and precision medicine in modern pharmaceutical technology.

Siddha in Pharmaceutical Technology

Traditional Medicinal Knowledge: Siddha, like Ayurveda, relies on plant-based and mineral medicines but also incorporates animal-based substances. The holistic approach of Siddha, which emphasizes balance and prevention, has led to the exploration of new therapeutic agents in pharmaceutical research.

Herbal Formulations: Siddha medicine uses a combination of herbs, metals, and minerals (like mercury) in its treatments. Modern pharmaceutical technology is working to better understand the medicinal properties of these substances and ensure their safety through rigorous clinical studies and standardized formulations.

Formulation Innovations: Siddha treatments often involve complex preparations, such as Churanams (powdered herbs) or Kudineer (medicinal water). Advances in pharmaceutical technology can help optimize these traditional methods, improving their bioavailability and effectiveness in treating conditions like digestive disorders, respiratory issues, and more.



Safety and Quality Control: Siddha remedies, which sometimes include heavy metals, require careful quality control. Modern pharmaceutical techniques are used to purify and standardize such compounds, ensuring that they are both safe and effective for patients.

Allopathy (Modern Western Medicine) in Pharmaceutical Technology

Synthetic Drugs and Biopharmaceuticals: Allopathy focuses on the use of synthetic drugs, antibiotics, vaccines, and biologics. Pharmaceutical technology in this domain has achieved major breakthroughs in drug synthesis, genetic engineering (e.g., monoclonal antibodies), and the development of targeted therapies.

Advanced Delivery Systems: Allopathic medicine benefits from technological advancements such as controlled-release formulations, nanotechnology, and targeted drug delivery systems, which improve the efficacy and minimize the side effects of drugs.

Clinical Trials and Evidence-Based Medicine: Allopathy relies heavily on clinical trials and rigorous scientific evidence to validate treatments. This reliance on robust data has shaped the modern pharmaceutical industry and regulatory standards for drug approval and safety.

Integrating Ayurveda, Siddha, and Allopathy in Pharmaceutical Technology.



Herbal and Synthetic Synergies: There is a growing trend of combining traditional medicine with modern pharmaceuticals to create integrative medicines. For instance, combining herbal remedies from Ayurveda or Siddha with allopathic drugs could provide enhanced therapeutic effects while minimizing side effects. Research into these combinations is being conducted to ensure they are both safe and effective.

Holistic Drug Development: The holistic approach of Ayurveda and Siddha can be incorporated into pharmaceutical development, focusing not only on treating symptoms but also on improving overall wellness and preventing disease. Modern pharmaceutical technology is exploring how these traditional healing concepts can inform new, more effective treatment paradigms.

Regulatory Frameworks: For these integrated or hybrid medicines, there is an increasing need for new regulatory frameworks that ensure the safety, efficacy, and quality of these multi-disciplinary therapies. Regulatory bodies in various countries are working on creating standards for integrating traditional and modern medicines in pharmaceutical technology



MOHANAPRIYA A
IV B.Tech (PT)

ARJUNA CAPSULES

Cardiovascular health: Arjuna capsules are believed to help maintain healthy blood pressure, cholesterol levels, and cardiovascular function.

Antioxidant properties: The bark of the Terminalia arjuna tree contains antioxidants that help protect against oxidative stress and cell damage.

Improved heart function: Arjuna capsules are thought to improve heart function by increasing cardiac output and reducing systemic vascular resistance.

Anti-inflammatory effects: The capsules have anti-inflammatory properties, which may help reduce inflammation and improve overall health.

Traditional Ayurvedic medicine: Arjuna capsules have been used in traditional Ayurvedic medicine for centuries to support heart health and overall well-being.

Natural and safe: The capsules are made from natural ingredients and are considered safe for most adults when taken as directed.

May help reduce stress: Arjuna capsules may help reduce stress and anxiety by promoting relaxation and improving mood.

Supports overall health: The capsules are believed to support overall health and well-being by promoting healthy digestion, reducing inflammation, and improving immune function.

Please consult with a healthcare professional before taking Arjuna capsules, especially if you have any underlying medical conditions or are taking medications.



RAJASRI E
II B.Tech (PT)



AYURVEDIC MEDICAL SYSTEM

Ayurveda, the ancient Indian system of medicine, boasts an incredible pharmaceutical diversity that has been harnessed for centuries to create effective remedies for various ailments. With over 6,000 medicinal plants, 1,000 minerals, and 50 animal products, Ayurveda's pharmacopeia is one of the richest and most diverse in the world.

The pharmaceutical diversity of Ayurveda is rooted in its holistic approach to health and wellness. Ayurvedic practitioners believe that every individual has a unique constitution, or prakriti, which is influenced by a combination of genetic, environmental, and lifestyle factors. To address this diversity, Ayurveda employs a wide range of pharmaceutical preparations, including:

- Kashayams (decoctions)
- Arishtams (fermented liquids)
- Avalehas (medicinal jams)
- Churnas (powders)
- Tailas (oils)

These preparations are often tailored to an individual's specific needs and constitution, making Ayurveda a highly personalized system of medicine. The pharmaceutical diversity of Ayurveda is also reflected in its use of various plant parts, including roots, leaves, flowers, fruits, and seeds.

Some of the most commonly used medicinal plants in Ayurveda include Turmeric, Ginger, Ashwagandha, Triphala, and Tulsi. These plants have been extensively studied for their pharmacological properties and have been found to possess a range of bioactive compounds, including alkaloids, glycosides, and terpenes.

The pharmaceutical diversity of Ayurveda has also led to the development of various polyherbal formulations, which combine multiple medicinal plants to create a synergistic effect. These formulations are often more effective than single-plant extracts and have been found to possess a range of therapeutic properties, including anti-inflammatory, antioxidant, and antimicrobial activities.



In conclusion, the pharmaceutical diversity of Ayurveda is a key strength of this ancient system of medicine. With its rich pharmacopeia and personalized approach to health and wellness, Ayurveda offers a unique and effective way to address a range of health conditions and promote overall well-being.



SOBIKA P
II B.Tech (PT)



CHALLENGES 'n' SOLUTIONS

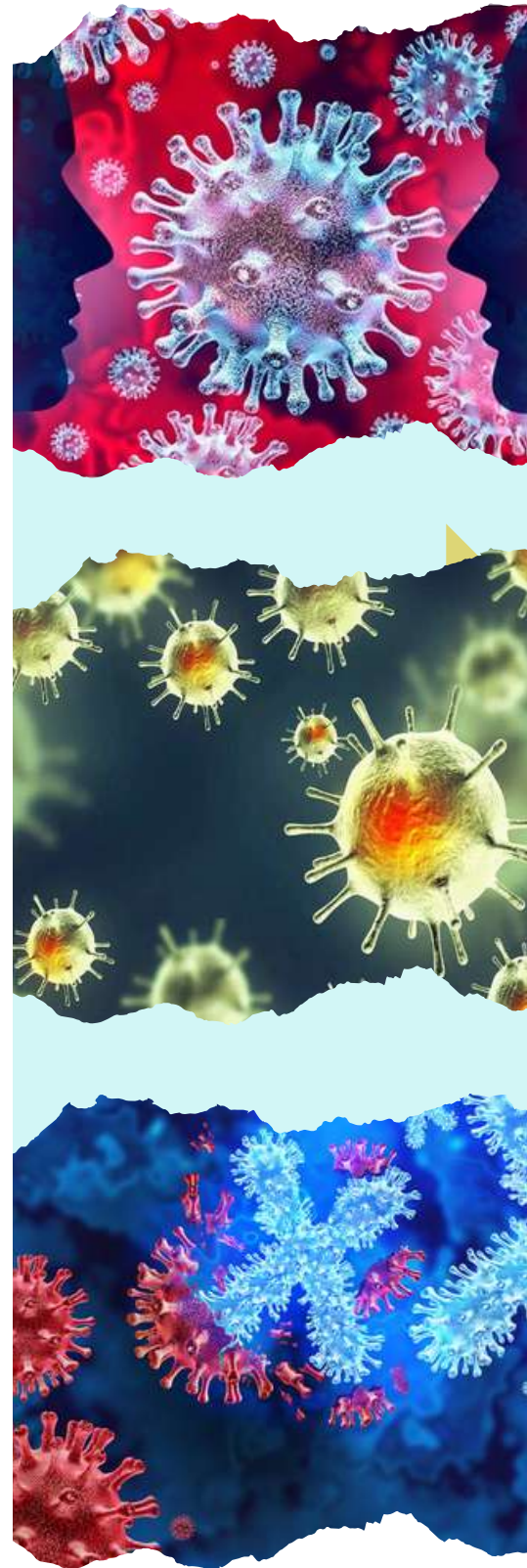
DISEASE X

Do not confuse with Clade X. For the outbreak in the DRC, refer to the 2024 disease outbreak in Kwango province. Colored scanning electron microscope (SEM) image of SARS-CoV-2, thought in 2020 to be the initial virus to cause Disease. Disease X serves as a placeholder designation chosen by the World Health Organization (WHO) in February 2018 for their list of blueprint priority diseases, symbolizing a theoretical, unidentified pathogen. The WHO implemented this placeholder name to maintain planning flexibility for adapting to unknown pathogens (such as broader vaccine development and manufacturing infrastructures). Anthony Fauci, the former Director of the US National Institute of Allergy and Infectious Diseases, remarked that the concept of Disease X would motivate WHO initiatives to concentrate on complete categories of viruses (like flaviviruses), rather than solely on single strains (for instance, zika virus), thereby enhancing the WHO's ability to tackle unexpected strains.

In 2020, specialists, including certain advisors from the WHO, suggested that COVID-19, attributed to the SARS-CoV-2 virus variant, could qualify as the inaugural Disease X. By December 2024, an unknown illness in the Democratic Republic of the Congo was occasionally called Disease X, infecting more than 400 individuals and resulting in at least 79 deaths, which was later identified as a virulent form of malaria.



SHARMILA S.T
II B.Tech (PT)



PHARMACEUTICAL INDUSTRY

Challenge 1: High Cost and Time for Drug Development

Developing a new drug can take 10–15 years and costs billions of dollars due to rigorous clinical trials and regulatory approvals.

Solution:

Adopt artificial intelligence (AI) to predict drug efficacy, optimize trials, and reduce R&D timelines.

Utilize 3D printing to create drug prototypes and personalized dosage forms quickly.

Encourage public-private partnerships to share resources and reduce the financial burden.

Challenge 2: Counterfeit Drugs

Fake medicines pose a risk to public health and undermine trust in pharmaceutical companies.

Solution:

Implement blockchain technology for secure tracking of drugs across the supply chain.

Use holographic packaging and other advanced anti-counterfeiting measures.

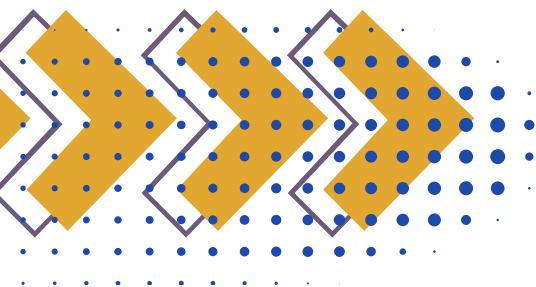
Challenge 3: Regulatory Hurdles

Navigating varying regulations in different countries delays drug availability.

Solution:

Harmonize international regulatory standards through organizations like ICH (International Council for Harmonisation).

Develop a centralized, digital submission system for quicker approvals.



EDUCATION

Challenge 1: Lack of Access to Quality Education in Rural Areas

Many students in remote regions lack access to skilled teachers and modern learning resources.

Solution:

Use e-learning platforms and virtual classrooms to deliver lessons.

Introduce low-cost tablets and internet connectivity initiatives like solar-powered Wi-Fi.

Train local teachers through short-term programs to enhance teaching quality.

Challenge 2: Outdated Curriculum

Curricula often fail to prepare students for modern job markets.

Solution:

Collaborate with industries to design skill-oriented programs and internships.

Incorporate STEM (Science, Technology, Engineering, Math) and emerging topics like AI and coding into the syllabus.

Regularly review and update educational content based on technological advancements.

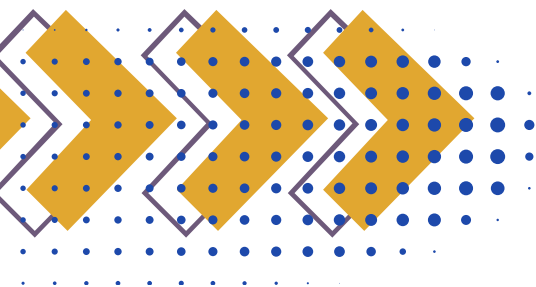
Challenge 3: Lack of Practical Learning

Theoretical knowledge dominates over practical skills, limiting student readiness for real-world challenges.

Solution:

Introduce project-based learning and hands-on labs.

Partner with companies to provide students with on-the-job training and apprenticeship opportunities.



DISEASE AND TREATMENT

Challenge 1: Rising Prevalence of Lifestyle Diseases

Diseases like diabetes, hypertension, and obesity are increasing due to poor diet, sedentary lifestyle, and stress.

Solution:

Focus on preventive healthcare through awareness campaigns about healthy lifestyles. Develop innovative treatments like GLP-1 receptor agonists for diabetes and minimally invasive procedures for hypertension.

Challenge 2: Emerging Infectious Diseases

Outbreaks like COVID-19, Zika virus, and Ebola have global consequences.

Solution:

Strengthen global disease surveillance systems to detect and respond quickly. Invest in mRNA vaccine technology for rapid vaccine development. Enhance public health infrastructure and promote early diagnostic tools.

Challenge 3: Antibiotic Resistance

Overuse and misuse of antibiotics lead to resistant infections that are hard to treat.

Solution:

Promote antibiotic stewardship programs in healthcare facilities. Develop alternative therapies like bacteriophage treatments and immunotherapies. Conduct public education campaigns to discourage unnecessary use of antibiotics.



GOKULKANNAN K
IV B.Tech (PT)



THE HARMONY OF INSULIN

In delicate balance, the body's rhyme,
Insulin's gentle touch, regulates in time.
A sugar symphony, a waltz so fine,
Insulin's melody, keeps the body in line.

With each injection, a new harmony's born,
As insulin's sweetness, soothes the body's form.
The highs and lows, of sugar's ebb and flow,
Insulin's rhythm, keeps the body aglow.

A lifesaving serenade, that echoes through the night,
Insulin's lullaby, keeps the body's light.
A beacon of hope, in the darkest of times,
Insulin's harmony, keeps the heart and soul in rhyme.



KANAGA R
II B.Tech (PT)



MEDICINE'S CANVAS

Colors of care, on a canvas so fine
Pigments of pills, a healing design
Brushstrokes of vaccines, a protective hue
Medicine's canvas, a masterpiece anew.

Strokes of insulin, a gentle, sweet rain
Tones of antibiotics, a fighting refrain
Hues of pain relief, a soothing, calm sea
Medicine's canvas, a work of healing glee.

A tapestry rich, with threads of might
Medicine's canvas, a healing delight
A kaleidoscope, of colors so bright
Medicine's canvas, a wondrous, healing sight.



KIRUTHIKA A
II B.Tech (PT)



DATES TO REMEMBER

INTERNATIONAL HEALTH EVENTS

World Cancer Day: February 4th, raises awareness about cancer and its prevention.

World Health Day: April 7th, marks the anniversary of the founding of the World Health Organization (WHO).

World Pharmacists Day: September 25th, celebrates the role of pharmacists in global health.

World AIDS Day: December 1st, promotes awareness and education about HIV/AIDS.

NATIONAL HEALTH EVENTS IN INDIA

National Youth Day: January 12th, focuses on youth health and development.

National Kidney Day: March 10th (second Thursday of March), raises awareness about kidney health.

National Doctors' Day: July 1st, honors the contributions of doctors in India.

OTHER NOTABLE EVENTS

World Tuberculosis Day: March 24th, promotes awareness and action against TB.

World Heart Day: September 29th, promotes heart health awareness.

World Diabetes Day: November 14th, raises awareness about diabetes prevention and management.



POOJA S
II B.Tech (PT)

HERBAL HUB

GLORIOSA LILY (*Gloriosa superba*)

Gloriosa superba, commonly known as the Glory Lily or Flame Lily, is a perennial herb native to Africa and Asia, with a rich history of traditional use in Ayurvedic and Unani practices. It contains a diverse range of bioactive compounds, including alkaloids such as colchicine, gloriosine, and superbine, which contribute to its medicinal properties. The herb's glycosides possess anti-inflammatory and antioxidant properties, while its flavonoids exhibit antioxidant and anti-inflammatory effects, making it a valuable remedy for various health conditions. *Gloriosa superba* has been used to treat rheumatism and arthritis, thanks to its anti-inflammatory properties, as well as gout, fever, and skin conditions like eczema, acne, and dermatitis.

In some traditional medicine practices, it is also used to treat snake bites. Beyond its medicinal uses, *Gloriosa superba* has been employed for ornamental purposes, with its unique, curved flowers making it a popular choice for gardens. The flowers can also be used as a natural dye, while the herb's alkaloids have been shown to have insecticidal properties. However, caution is advised when using *Gloriosa superba*, or with certain medications like blood thinners and diabetes medications should be avoided, making it essential to use the herb under the guidance of a qualified healthcare practitioner. *Gloriosa superba* is a medicinal herb with a rich history of traditional use. Its bioactive compounds have anti-inflammatory, antioxidant, and insecticidal properties, making it effective in treating various health conditions. However, it's essential to use the herb with caution and under the guidance of a qualified healthcare practitioner.



KINGDOM	:	Plantae
ORDER	:	Liliales
FAMILY	:	Colchicaceae
GENUS	:	<i>Gloriosa</i>
SPECIES	:	<i>Superba</i>

State Flower of Tamilnadu

The scientific term used for the flower is *Gloriosa superba*. The flower has many distinct features and it looks a bit different from other flowers. Reasons behind Flame Lily being the State Flower of Tamil Nadu: The plant is exported to western countries due to its medicinal use.

Medicinal Properties:

Gloriosa superba contains several bioactive compounds, including:

1. Alkaloids: *Gloriosa superba* contains several alkaloids, including colchicine, gloriosine, and superbine.
2. Glycosides: The herb contains glycosides, which have anti-inflammatory and antioxidant properties.
3. Flavonoids: *Gloriosa superba* contains flavonoids, which have antioxidant and anti-inflammatory properties.

Medicinal Uses

Gloriosa superba has been used to treat various health conditions, including:

1. Rheumatism and arthritis: The herb's anti-inflammatory properties make it effective in treating rheumatism and arthritis.
2. Gout: *Gloriosa superba*'s colchicine content makes it effective in treating gout.
3. Fever: The herb has been used to treat fever, particularly in children.
4. Skin conditions: *Gloriosa superba* has been used to treat skin conditions such as eczema, acne, and dermatitis.
5. Snake bites: In some traditional medicine practices, *Gloriosa superba* is used to treat snake bites.



SWETHA R
IV B.Tech (PT)



HISTORY OF PHARMACEUTICAL TECHNOLOGY

Ancient Era (Before 1000 AD)

- 3000 BC: Ancient Egyptians used herbal medicines and developed early pharmaceutical techniques.
- 1500 BC: Ayurveda and Traditional Chinese Medicine (TCM) emerged with documented herbal remedies.
- 460-370 BC: Hippocrates emphasized natural remedies and the ethical practice of medicine.
- 100 AD: Dioscorides wrote *De Materia Medica*, a foundational text on medicinal plants.

Medieval Period (1000-1500 AD)

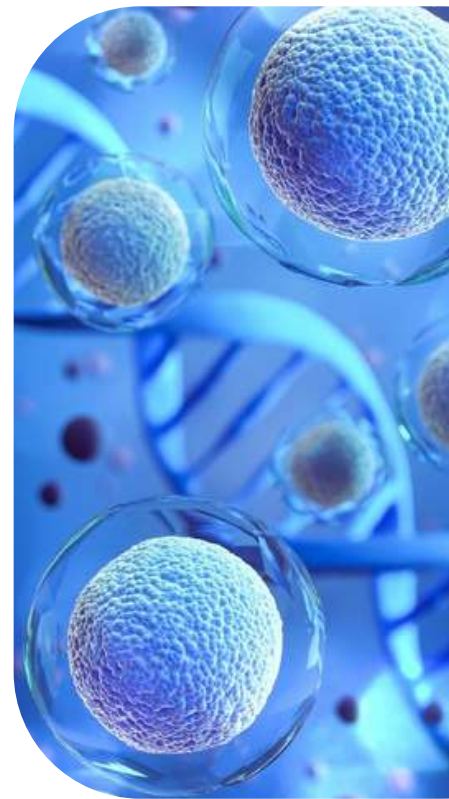
- 1025: Persian scholar Avicenna wrote *The Canon of Medicine*, summarizing pharmaceutical knowledge.
- 1240: The first official pharmacy was established in Baghdad.
- 1400s: Alchemists experimented with minerals and chemicals for medicinal use.

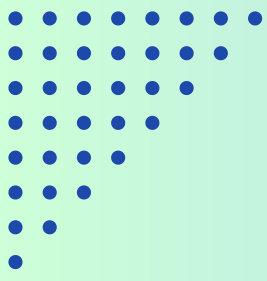
Renaissance & Early Modern Period (1500-1800 AD)

- 1546: The first known pharmacopoeia (*Dispenstarium*) was published in Germany.
- 1600s: William Harvey discovered blood circulation, influencing drug delivery methods.
- 1700s: Smallpox vaccination began with Edward Jenner's experiments.

Industrial Revolution & 19th Century (1800-1900)

- 1804: Morphine was isolated from opium, marking the birth of modern alkaloid-based medicines.



- 
- 1853: Hypodermic syringe was invented, revolutionizing drug administration.
 - 1869: First synthetic drug, chloral hydrate, was introduced.
 - 1897: Aspirin (acetylsalicylic acid) was synthesized by Bayer.

20th Century – The Golden Age of Pharmaceuticals

- 1928: Alexander Fleming discovered penicillin, the first antibiotic.
- 1940s: Mass production of penicillin began, transforming healthcare.
- 1950s: Introduction of vaccines for polio and other infectious diseases.
- 1960s: The first oral contraceptive pills were developed.
- 1970s: Biotechnological advances led to the first recombinant insulin.
- 1980s: Monoclonal antibodies and gene therapy research began.
- 1990s: Human Genome Project started, revolutionizing personalized medicine.

21st Century – Digital & Biopharmaceutical Revolution

- 2000s: Stem cell therapy and targeted cancer therapies advanced.
- 2010s: CRISPR gene-editing technology emerged.
- 2020s: mRNA vaccines (Pfizer-BioNTech, Moderna) were developed for COVID-19.

PHARMACEUTICAL TECHNOLOGY SCIENTISTS

Early Milestones (Before 1800s)

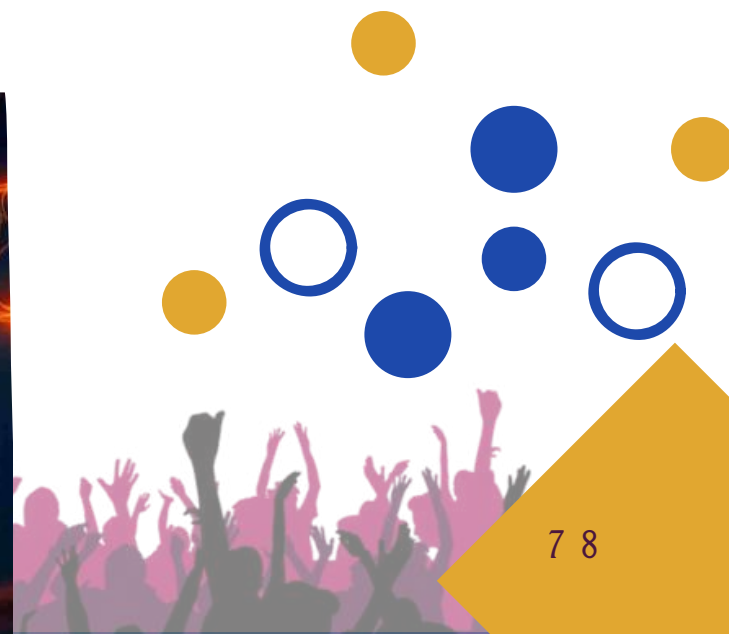
- Hippocrates (460–370 BC) – Established the concept of evidence-based medicine.
- Dioscorides (1st Century AD) – Wrote *De Materia Medica*, a foundational text on medicinal plants.
- Avicenna (980–1037 AD) – Authored *The Canon of Medicine*, which guided pharmaceutical practices for centuries.

19th Century – Birth of Modern Pharmaceuticals

- Friedrich Sertürner (1804) – Isolated morphine from opium, the first alkaloid drug.
- Louis Pasteur (1860s) – Developed germ theory, revolutionizing vaccine development.
- Joseph Lister (1867) – Introduced antiseptics in surgery.
- Paul Ehrlich (1909) – Discovered Salvarsan, the first targeted drug therapy for syphilis.

20th Century – The Golden Age of Pharmaceuticals

- Alexander Fleming (1928) – Discovered penicillin, leading to the antibiotic revolution.
- Selman Waksman (1940s) – Discovered streptomycin, the first antibiotic effective against tuberculosis.
- Jonas Salk (1955) – Developed the polio vaccine.
- Gertrude Elion & George Hitchings (1950s-60s) – Developed chemotherapy drugs, immunosuppressants, and antivirals.
- Katalin Karikó & Drew Weissman (1990s-2020s) – Developed mRNA vaccine technology, leading to COVID-19 vaccines.



INDIAN AYURVEDA

Ancient Period (Before 1000 BCE)

- 3000–1500 BCE: Ayurveda is believed to have originated during the Indus Valley Civilization.
- 1500–500 BCE: The Vedas, especially the Rigveda and Atharvaveda, mention medicinal plants and healing practices.
- 700 BCE: Charaka Samhita and Sushruta Samhita are composed, forming the foundation of Ayurveda.

Classical Period (1000 BCE – 500 CE)

- 500 BCE: Sushruta, the "Father of Surgery," documents surgical techniques in Sushruta Samhita.
- 200 CE: Charaka refines Ayurveda, emphasizing internal medicine (Kaya Chikitsa).
- 400 CE: Vagbhata compiles Ashtanga Hridayam, integrating Charaka and Sushruta's teachings.

Medieval Period (500–1600 CE)

- 700 CE: Ayurveda spreads to China, Tibet, and the Middle East.
- 1000 CE: Unani medicine influences Ayurveda, leading to new treatment methods.
- 1500 CE: Portuguese and Mughal rulers document Ayurveda's effectiveness in treating diseases.

Colonial Period (1600–1947 CE)

- 1800s: British rule suppresses Ayurveda in favor of Western medicine.
- 1893: Swami Vivekananda introduces Ayurveda to the West.
- 1916: Pandit Ram Narayan Sharma establishes the first Ayurvedic college in India.

Modern Period (1947–Present)

- 1947: Ayurveda is officially recognized in India after independence.
- 1970s: Indian government establishes the Central Council for Research in Ayurveda and Siddha (CCRAS).
- 2003: Ministry of AYUSH is formed to promote Ayurveda globally.
- 2020s: Ayurveda gains international recognition, with WHO setting up a Global Centre for Traditional Medicine in India.



M G KARTHIK
Assistant Professor (PT)

KNOW YOUR INDUSTRY

CIPLA

Cipla is an Indian multinational pharmaceutical company that develops, manufactures, and markets a wide range of pharmaceutical products.

History

Founded in 1935 by Khwaja Abdul Hamied, Cipla has grown to become one of the largest pharmaceutical companies in India.

Products:

Cipla's product portfolio includes:

Pharmaceuticals: formulations, APIs, and intermediates

Respiratory: asthma, COPD, and allergy medications

Cardiovascular: hypertension, diabetes, and lipid management medications

Anti-Infectives: antibiotics, antivirals, and antifungals

Oncology: cancer medications

Branches:

Cipla Ltd., Mumbai, India (Head Office)

Cipla USA Inc., USA

Cipla UK Ltd., UK

Cipla Medpro South Africa (Pty) Ltd., South Africa

Cipla Pharmaceuticals Europe NV, Belgium

Cipla Gulf FZ LLC, UAE

Cipla India, various locations (Goa, Bangalore, Baddi, Indore, Kurkumbh)

Turnover

Cipla's total revenue for 2020-21 was ₹18,815 crores (approximately \$2.5 billion USD).

Head office

Cipla Ltd., Cipla House, Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, Mumbai - 400 013, Maharashtra, India



SHALINI M
II B.Tech (PT)



DR. REDDY'S LABORATORIES

Dr. Reddy's Laboratories is an Indian multinational pharmaceutical company based in Hyderabad. The company was founded by Kallam Anji Reddy, who previously worked in the mentor institute Indian Drugs and Pharmaceuticals Limited. Dr. Reddy manufactures and markets a wide range of pharmaceuticals in India and overseas. The company produces over 190 medications, 60 active pharmaceutical ingredients (APIs) for drug manufacture, diagnostic kits, critical care, and biotechnology.

History

Dr. Reddy's originally launched in 1984 producing active pharmaceutical ingredients. In 1986, Reddy's started operations on branded formulations. Within a year Reddy's had launched Norilet, the company's first recognised brand in India. Soon, Dr. Reddy's obtained another success with Omez, its branded omeprazole gastrointestinal ulcer and reflux oesophagitis medication launched at half the price of other brands on the Indian market at that time.

Top active pharmaceutical ingredients

- | | |
|-------------------------------|-----------------|
| • Abiraterone Acetate | Terbinafine HCl |
| • Ciprofloxacin Hydrochloride | Ramipril |
| • Sertraline Hydrochloride | Canagliflozin |
| • Ranitidine HCl Form 2 | Naproxen Sodium |

Product of Dr.Reddy's pharmaceutical industry

Dr. Reddy's Laboratories is a pharmaceutical company in India that manufactures a wide range of products, including prescription drugs, over-the-counter medications, and vaccines.

Prescription drugs

Omez: A proton pump inhibitor (PPI), Nise: A non-steroidal anti-inflammatory drug (NSAID), Stamlo: A calcium channel blocker, Clamp: A combination of amoxicillin and potassium clavulanate, Razo: A PPI, Ketorol DT: An analgesic, Atacor: A statin, Glimy: A sulfonylurea (SU), Telsartan: An angiotensin receptor blocker.



Over-the-counter medication

Aquaderm: A face and body wash, lotion, and body wash, **Cheerio:** An oral gel, **Clohex:** An interdental toothbrush.

Vaccines and therapeutics

Vaccines and therapeutics for mild, moderate, and severe COVID-19, Dr. Reddy's also manufactures active pharmaceutical ingredients (APIs).

Branches

- 4.4. Baddi, Himachal Pradesh, 4.7. Cuttack, Orissa, 4.0. Hubli, Karnataka,
- 4.0. Jalna, Maharashtra, 5.0. Kurnool, Andhra Pradesh, 4.0. Mirialguda, Andhra Pradesh.
- 4.0. Mirialguda, Andhra Pradesh, 5.0. Miryalaguda, Telangana, 4.5. Ongole, Andhra Pradesh.

Turnover

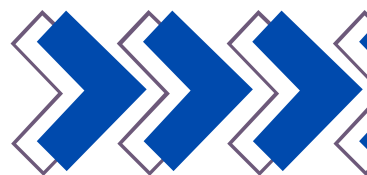
Dr. Reddy's Laboratories (DRL) earned over 279 billion Indian rupees in revenue in the financial year 2024. The company's global generic product segment generated the most revenue, followed by the Pharmaceuticals Services and Active Ingredients (PSAI) segment.

Head office

Dr. Reddys Laboratories Ltd (Corporate Office) in Banjara Hills, Hyderabad is known to satisfactorily cater to the demands of its customer base. The business came into existence in 1984 and has, since then, been a known name in its field. It stands located at Door No 8-2-337, Road No 3, Banjara Hills-500034.



RAJESHWARI D
IV B.Tech (PT)





JOHNSON & JOHNSON INDUSTRY

Headquarters: New Brunswick, New Jersey, USA

Industry: Pharmaceutical, Medical Devices, Consumer Health Products

Founded: 1886

CEO (as of 2024): Joaquin Duato

Products:

Johnson's baby cream, Johnson baby wipes, baby soaps and shampoo, baby cotton touch, Acuvue, Aveeno, Actelion, Benadryl, Benylin, clean and clear, Ethicon.

Instruments used:

Dynatape Suture: A suture made by JNJ

Ethicon sutures: Sutures made of polydioxanone designed to close fascia, the connective tissue under the skin

Actis Hip Stem: A hip stem made by JNJ

Inhance Shoulder System: A shoulder system made by JNJ

Trumatch Graft Cage: A graft cage made by JNJ

Symphony OCT System: An OCT system made by JNJ

Velys Digital Surgery platform: A digital surgery platform made by JNJ

Attune Cementless Fixed Bearing Knee: A knee made by JNJ.

Profit:

Johnson & Johnson's (JNJ) revenue for 2023 was \$85.16 billion, which was a 10.57% increase from the previous year. In 2024, JNJ's revenue was \$88.8 billion, which was a 4.3% increase from 2023.

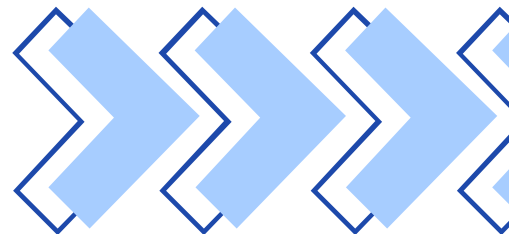


KOGINA D
II B.Tech (PT)



GLAXOSMITHKLINE

GlaxoSmithKline (GSK) is a British multinational pharmaceutical company that has been at the forefront of healthcare innovation for over 300 years. Headquartered in Brentford, London, GSK is one of the world's largest pharmaceutical companies, with a presence in over 115 countries. The company's portfolio includes a wide range of prescription medicines and vaccines for major diseases such as asthma, cancer, and HIV. GSK is also a leader in the development of vaccines, with a range of products that protect against infectious diseases such as influenza, pertussis, and HPV. The company's commitment to research and development has led to the discovery of numerous life-saving medicines, including the first malaria vaccine, RTS,S. With a strong focus on patient safety, quality, and access to healthcare, GSK continues to be a trusted partner in the global healthcare community. Through its partnerships with governments, healthcare providers, and non-profit organizations, GSK is working to improve access to healthcare for people around the world, particularly in developing countries.



SOBIKA P
II B.Tech (PT)





ZYDUS CADILA PHARMACEUTICAL INDUSTRIES

Overview

Zydus Cadila is an Indian multinational pharmaceutical company that develops, manufactures, and markets a wide range of pharmaceutical products.

History

Founded in 1952 by Ramanbhai Patel, Zydus Cadila has grown to become one of the largest pharmaceutical companies in India.

Products

Zydus Cadila's product portfolio includes:

Pharmaceuticals: formulations, APIs, and intermediates

Vaccines: pediatric, adolescent, and adult vaccines

Biosimilars: oncology, auto-immune, and other therapeutic areas

Animal Health: veterinary pharmaceuticals and feed supplements

Branches

Zydus Cadila, Ahmedabad, India (Head Office)

Zydus Pharmaceuticals USA Inc., USA

Zydus Cadila UK Ltd., UK

Zydus Cadila Brazil Ltda., Brazil

Zydus Cadila (South Africa) (Pty) Ltd., South Africa

Zydus Cadila, Sanaul (Sikkim), India

Zydus Cadila, Goa, India

Zydus Cadila, Himachal Pradesh, India

Zydus Cadila, Chennai, India



Turnover

Zydus Cadila's total revenue for 2020-21 was ₹14,662 crores (approximately \$2 billion USD).

Head Office

Zydus Cadila, Zydus Tower, Satellite Crossroads, Ahmedabad - 380 015, Gujarat, India.



SURENDHAR M
II B.Tech (PT)



PFIZER PHARMACEUTICAL INDUSTRY

History

Founded in 1849 by Charles Pfizer and Charles Erhart in New York City
Initially produced fine chemicals and pharmaceuticals

Milestones

1950s: Developed Terramycin, the first antibiotic produced through fermentation
1980s: Introduced Zithromax, a widely used antibiotic
1990s: Developed Viagra, a treatment for erectile dysfunction
2000s: Acquired Warner-Lambert and Pharmacia, expanding product portfolio

Products

Prescription medications: Lyrica, Pristiq, Chantix, and Eliquis
Vaccines: Prevnar 13 and Nuvaxovid (COVID-19 vaccine)
Consumer healthcare: Advil, Centrum, and Caltrate

Research and Development

Invests approximately \$8 billion annually in R&D
Focuses on oncology, inflammation and immunology, and vaccines
Collaborates with academia, biotech companies, and governments

Global Presence

Operates in over 180 countries
Employs approximately 79,000 people worldwide
Has a diverse portfolio of medicines and vaccines

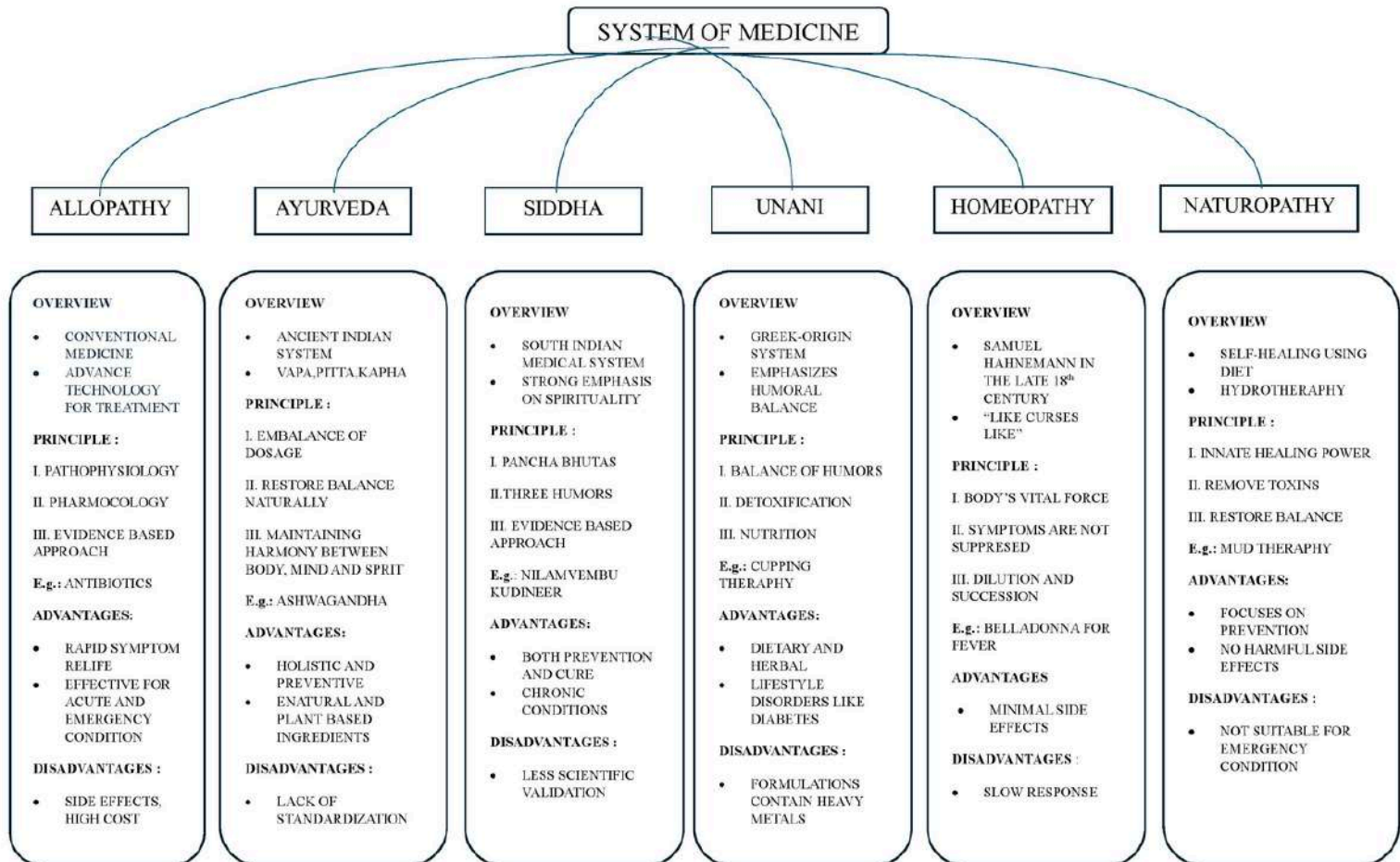
Sustainability

Aims to reduce greenhouse gas emissions by 50% by 2025
Commits to responsible sourcing and supply chain management
Supports global health initiatives and access to medicines programs.



KANAGA R
II B.Tech (PT)

PHARMA FLYER



SRIDHAR G
IV B.Tech (PT)

EVERYONE SHOULD KNOW THIS

1. BP: 120/80
2. Pulse: 70-100
3. Temperature: 36.8-37
4. Breath: 12-16
5. Hemoglobin:

Male -13.50-18

Female-11.50-16
6. Cholesterol: 130-200
7. Potassium: 3.50-5
8. Sodium: 135-145
9. Triglycerides: 220
10. Blood volume in the body: PCV 30-40%
11. Sugar Level

Children (70-130)

Adults: 70-115
12. Iron: 8-15 mg
13. White blood cells WBC: 4000-11000
14. Platelets: 1,50,000 - 4,00,000
15. Red blood cells RBC: 4.50-6 million.

ILAYANILA B
II B.Tech (PT)



ANTIBIOTIC DRUGS-OVERVIEW

Aminoglycosides

- Used to treat serious illnesses like sepsis, but can cause serious side effects.
- Examples include gentamicin and tobramycin.

Macrolides

- Used to treat lung and chest infections, and as an alternative to penicillin. Examples include azithromycin, erythromycin, and clarithromycin.

Tetracyclines

- Used to treat a variety of infections, but are commonly used to treat acne and rosacea.
- Examples include tetracycline, doxycycline, and lymecycline.

Quinolones

- Used to treat a wide range of infections.
- Examples include ciprofloxacin, levofloxacin, and norfloxacin

Ampicillin

- Ampicillin is an antibiotic belonging to the aminopenicillin class of the penicillin family.
- This drug is used to prevent and treat several bacterial infection, such as respiratory tract infections, urinary tract infections etc.,

Penicillin

- A penicillin antibiotic used to treat a wide variety of infections in the body.
- Benzylpenicillin (penicillin G) is narrow spectrum antibiotic used to treat infections caused by susceptible bacteria.
- It is a natural penicillin antibiotic that is administered intravenously or intramuscularly due to poor oral absorption
- penicillin G may also be used in some cases as prophylaxis against susceptible organisms.

Cephalosporins

- Used to treat a variety of infections, including sepsis and meningitis.
- Examples include cefalexin, cefaclor, and cefadroxil



VIVEKA V
IV B.Tech (PT)

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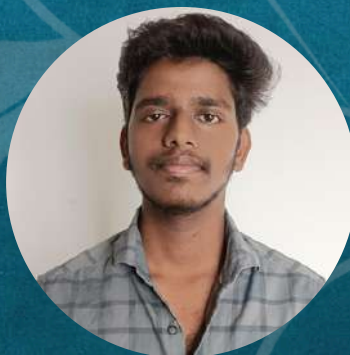


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