SRI PADMAVATHI
SCHOOL OF PHARMACY

Mohan Gardens, Vaishnavi Nagar, Tiruchanoor (PO), Chittoor (Dist.), AP – 517503
(AUTONOMOUS)

SPSP-DARPANAM

(APRIL 2024- June 2024)

QUARTERLY COLLEGE MAGAZINE

NAAC

NBA NATIONAL BOARD OF ACCREDITATION UG PHARMACY

SRI PADMAVATHI SCHOOL OF PHARMACY

Mohan Gardens, Vaishnavi Nagar, Tiruchanoor (PO), Chittoor (Dist.), AP - 517503

(Accredited by NAAC "A" Grade, Accredited by NBA (for UG-Pharmacy up to 2025), Approved by AICTE & PCI, New Delhi, Affiliated to JNTUA, Ananthapuramu, Recognized Under 2(f) &12(B) of UGC Act.)

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From the Chairperson's desk....

Our vision is based on hard work, open communication, a strong emphasis on team work and a high level of responsibility. This visionary culture allows and emphasizes our wards not only to adopt the present-day challenges but also individual responsibilities to the society and our nation at large. Learning should be based on doing things and not merely knowing things. Until and unless learning solutions relate to real life and motivate the learner to acquire and apply the knowledge, the whole process will remain superficial. Our institution has set specific objectives and planned activities for achieving excellence in all spheres of technical education.

I take this opportunity to express that every effort is made to improve the existing best services to bring out the best for the welfare of our institution and the growth of our students. **With best wishes**

Yours Smt. P.Sulochana

From the Director desk...

We cannot always build the future for our youth, but we can build our youth for the future."

I am quite pleased to learn about the forthcoming issue of the college magazine

Dear students, "You are the nation-builders. You are the movers of technology. You are the agents of change." It is our STRONG BELIEF that the years that you spend in SPSP would enable you to equip with leadership and managerial skills.

"You don't have to be great to start, but you have to start to be great." With best wishes

Yours Mr.P.Praneeth

From the Principal desk....

The prestigious, Sri Padmavathi School of Pharmacy, since its inception in 1997 has made remarkable progress by following the mantra of student centric approach, whether it is in academics or in extra co-curricular activities. The institute possesses a state of art infrastructure with equipped laboratories, well stocked library and highly qualified faculty. We at, SPSP introduce our students to the Outcome Based Education and trained with skills in various disciplines.

In addition to developing excellent scientific and clinical based skills, the students are motivated not only to dream big but also encouraged to think unconventionally to face the challenges of the future and provide platform for Entrepreneurship.

Sports and other co-curricular activities are encouraged and the students are given every form of support to develop their talents in all fields. Our brand of education does not have narrow horizons, we believe in exposure. Our students are encouraged to widen their knowledge base and study beyond the confines of the syllabus.

With best wishes *Yours Dr.D.Ranganayakulu*

Editor's message . . . .

A thought that has been enduring in mind when it becomes real; is truly an interesting and exciting experience. This news letter was one such cherished work that had its roots in the persuasion.

"Good leaders create a vision, articulate a vision and passionately owns a vision and turn it into a reality" - Jack Welch.

Coming to the collage magazine, I expect full cooperation from my fellow students and peers. New ideas, new sections in the issue of 2021 are always welcome by the Editorial Board. The editorial board is looking forward to make this magazine a vehicle for students to express their innermost thoughts.

I would like to thank all my editorial team members for helping me pull this through. I These contributions have required a generous amount of time and effort. It is this willingness to share knowledge, concerns and special insights with fellow beings that has made this magazine possible.

Thank you all!! *Dr.A. Srinivasa Charan*

Vision

Promote holistic learning, nurture ethically strong and highly competent pharmacy graduates to serve the global healthcare system.

Mission

M1: To provide innovative and contemporary educational experiences of the highest quality.

M2: To instill ethics, sense of professionalism, communication and leadership skills.

M3: To promote and nurture the research and scholarly activities.

M4: To foster entrepreneurship and life-long learning.

Program Educational Objectives (PEOs)

PEO1: To produce competent pharmacy graduates with adequate knowledge and technical skills in the core and allied areas of pharmaceutical sciences & technology and to serve the needs of the health care system.

PEO2: To promote research and scholarly activities to identify, assess, formulate problem and execute solutions for the betterment or advancement of pharmaceutical sciences.

PEO3: To develop communication skills, leadership qualities, team building skills and instill the sense of professional ethics and social responsibilities in graduates.

PEO4: To prepare the graduates for life-long learning through their effective participation in professional and societal activities, integrate their knowledge and skills with contemporary needs of the society and for their highly productive career.

SRI PADMAVATHI SCHOOL OF PHARMACY

(AUTONOMOUS)

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(Approved by PCI, New Delhi, Affiliated to JNTUA, Ananthapuramu, NBA (UG Pharmacy), NAAC "A"

APPGECET & TGPGECET - 2024 RANK HOLDERS LIST

"Hearty Congratulations"

ESUKAMOTLA ROSHINI Rank - 57 | DUDEKULA RESHMA Rank - 99 | DAKKILI PARMIALA Rank - 245 | PASALA LOHITHA Rank - 245 | YERRAMALA TARUYAREKHA Rank - 450 | KATTETI TEJASWINI Rank - 450 | CHINTHAMAKULA LAHARI Rank - 525 | MALEPATI JYOTHIKA Rank - 608 | CHENNAMSETTY MOUNIKA Rank - 709

KORAMUTLA VARALAKSHMI Rank - 709 | CHINTHALAPALLI SANTHALAHARI Rank - 709 | BOYELAPALLI NEERAJA Rank - 812 | P THANUJA Rank - 1199 | LOMADA DEEPTHI Rank - 1199 | SYED NAZIYA Rank - 1199 | GANTA KUSUMA Rank - 1358 | PASUPULATI MOUNIKA Rank - 1358 | KARANAM SUSHMITHA Rank - 1526

KASI REDDY MAHENDRA REDDY Rank -1526 | ANDE HARSHITHA Rank - 1526 | KOVURU CHETHANA Rank - 1692 | SOMENENI NAGA SOWJANYA Rank - 1862 | M SANGEETHA Rank -2038 | CHENNAM CHETTY HARITHA Rank - 2342 | PENUBADI SAI JYOSHNA Rank - 2495 | BAYYA ANUSHA Rank - 2636 | CHAKALI NAVEEN Rank - 2921

From MANAGEMENT, PRINCIPAL & STAFF

➢ AWARDS RECEIVED BY FACULTY

- Our college respected principal **Dr.D. Ranganayakulu** garu received prestigious **IPA fellowship award 2024** in 73rd Indian pharmaceutical congress conference held in Hyderabad.

- **Mrs. M Hima Saila** awarded with **Doctor of philosophy** from sri padmavathi mahila Visvavidyalayam, institute of pharmaceutical technology, Tirupathi.

❖ Publications

- **Dr. P.Keerthisikha Palur & Dr. A Sreenivasa Charan Archakam** Published article on **"Simultaneous Determination of Amitriptyline Hydrochloride and Propranolol Hydrochloride in Commercial Formulation by Multitudinal UV and Multivariate FT-IR Spectroscopic Methods"** in Indian journal of pharmaceutical education and research. The study is a multivariate FTIR method and two different UV spectrophotometric methods were employed for the simultaneous determination of Amitriptyline Hydrochloride (ATH) and Propranolol Hydrochloride (PPH) in their combined formulation. Materials and Methods: The multivariate FTIR method based on the use of Classical Least Squares (CLS) was developed and executed in the lab solutions software for the simultaneous determination of ATH and PPH. CLS model was performed in the wavenumber range of 2550.04-3600.12 cm-1 and 969.64-1757 cm-1. In addition, two UV spectroscopic methods, namely absorbance correction method and crammer's matrix method were developed and validated in the concentration ranges of 2-10µg/mL and 5-55µg/mL for ATH and PPH respectively. Results: The statistical parameters obtained from the applied multivariate FTIR-CLS model revealed the model accuracy and the assay results of ATH and PPH were found to be 92.32 (%w/w) and 97.35 (%w/w) respectively. The developed UV spectroscopic methods were validated as per ICH guidelines and all the validation parameters were found to be within the acceptance criteria. Conclusion: The methods employed in the current study were found to simple, economical, accurate and do not require any prior separation.
- **Neelofar, KeertiSikha Palur, Sreenivasa Charan Archakam** published article on **"Simultaneous determination of chlorpheniramine maleate and phenylephrine hydrochloride in liquid dosage forms by uv spectroscopic methods"** in African journal of biological sciences. Simple, rapid, accurate, precise and economical UV Spectroscopic methods like simultaneous equation method and first derivative zero crossing method were developed and validated for simultaneous determination of chlorpheniramine maleate (CPM) and phenylephrine hydrochloride (PHCL) in pharmaceutical liquid dosage forms (syrup, oral drops). These drugs are employed in the treatment of Nasal problems in pediatrics. Simultaneous equation method of CPM & PHCL was determined at 261 & 272 nm. First derivative zero crossing method of CPM & PHCL was determined at 245 & 257 nm. Both methods exhibited good linearity (R2

=0.999). and the calibration curve of CPM & PHCL was plotted in the range of 10-60 µg/ml & 10-110 µg/ml by using distilled water as solvent. The values of %RSD for intraday and inter-day precision was found to be within limits (< 2%) thus the values confirm that the methods are precise. The values of % recovery and assay of formulation was within 90-110% w/w, which shows both the methods were accurate and free from the interference of excipients used in formulation and these methods also applicable for analysis of marketed formulation. The method was validated according to the ICH guidelines and the results were simple, accurate, sensitive and precise.

- **G.Sirisha Chowdary, Dr.Sai Koteswar Sarma, Dontha Swamy Charan, A. Ashok Kumar** published article on **"Evaluation of invitro antioxidant activity of a novel herbal tea"** in African journal of biological sciences. Food nutrients having antioxidant potential could help to prevent many human oral disorders. Regular oral hygiene practices by chemical ingredients may lead to oral health damage. By this four plants namely Syzgium aromaticum, Mentha piperita, Ocimum sanctum linn, Azadirachta indica herbal waters showing antioxidant potential individually, many oral disorders could be prevented. The aim of the present study was to study the antioxidant potential of the herbal waters of Syzgium aromaticum, Mentha piperita, Ocimum sanctum linn ,Azadirachta indica above plants by DPPH and phosphomolybdate in-vitro antioxidant screening methods. The results showed that IC50 value of syzgium aromaticum through DPPH assay method is 1.787842 gm/ml, and through phosphomolybdate assay method is 1.744722gm/ml ,Mentha piperita through DPPH assay method is 1.368432gm/ml, and through phosphomolybdate assay method is 1.782466 gm/ml, Ocimum sanctum linn through DPPH assay method is 2.45415gm/ml, and through phosphomolybdate assay method is 2.820216gm/ml, Azadirachta indica through DPPH assay method is 1.282051 gm/ml, and through phosphomolybdate assay method is 0.888889 gm/ml, and the herbal tea which was prepared in combinations of these herbal waters through DPPH assay method is 1.773375 gm/ml and through phosphomolybdate assay method is 1.934271 gm/ml as taking as ascorbic acid as standard. The IC 50 value of DPPH is 3.114504 gm/ml and in phosphomolybdate is 3.170846 gm/ml . As per our study this herbal tea of 6gm/100ml is having approximately half of antioxidant potential with ascorbic acid. Hence the consumption of herbal tea of 6gm/100ml may have the antioxidant potential as ascorbic acid and may help in the prevention of oral disorders.

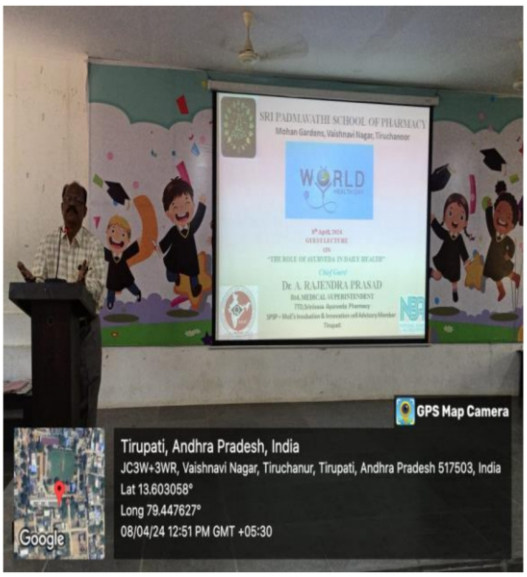
❖ Patents & book chapters

- Mr.P.Prakash, Associate professor, department of pharmaceutics published book chapter in Futuristic Trends in Pharmacy & Nursing, IIP Series, Volume 3, Book 4, Part 6, Chapter 3, Nanocarriers in drug delivery.
- Dr.K.Ramesh Reddy Professor, department of pharmaceutics published book chapter on Bioinformatics and Personalized Medicine: Utilizing Genomic Data and Computational Approaches to Tailor Medical Treatment in the symphony of knowledge.
- Dr.M.Himasaila registered patent on **(**04 May 2024) **"**Apparatus for Instant Isolation of Active Constituents From Natural Compound".

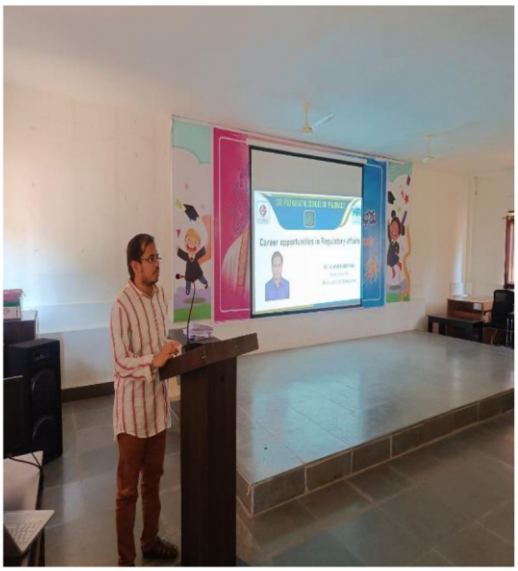
INDUSTRIAL VISIT TO SRI SRINIVASA AYURVEDHA PHARMACY NARASINGAPURAM, TIRUPATHI (20/06/2024

➢ Guest lectures and workshops

On the view of World Health Day (08-04-2024), with the theme: “My Health My Rights”. A Guest Lecture has been conducted on “The Role of Ayurveda in Daily Health” by Dr. A. Rajendra Prasad, Rtd, Medical superintendent TTD, Srinivasa Ayurveda Pharmacy, Tirupati, Served as a speaker for this session. The session was focused on the different methods of Ayurvedic Formulations and importance of herbs used in ayurveda for the treatment of different diseases. The session was further focused on benefits of taking Natural remedies in keeping good health.73 B. Pharm, Pharm D students and faculty are attended for this session.



- A guest lecture has been conducted with the theme (26-04-2024) "**Career Oppourtunities in Regulatory Affairs**” by the resource person Mr. G. Hari Hara Rao, Executive, Regulatory Affairs, Executive, Regulatory Affairs, Affairs, Microlabs Ltd, Bangalore**.** The speaker delivered a talk related to the kind of opportunities in regulatory affairs department and nature of work. Also discussed regarding the role and responsibilities in regulatory affairs department. Explained regulatory bodies of different countries and applying procedures for marketing of pharmaceutical products. 63 B. Pharm students and faculty are attended for this session.



- A guest lecture (26-04-2024) has been conducted with the theme " **IP & SDGS: Building our common features with Innovation & Creativity**" by the resource person - Dr. A. Narayanacharyulu, Vice Principal, NGSN Institute of Pharmaceutical Sciences, Mangaluru**.** The speaker delivered a talk on Intellectual property and sustainable development goals which serves as a catalyst for innovation and creativity by providing a framework in which creators can receive recognition and rewards for their efforts. 81 B. Pharm students and faculty are attended for this session.

- A guest lecture has been conducted with the theme " **Sterile Drug Product Manufacturing**" by the resource person - Mr. A. Venkataramana, Associate Director, Mylan laboratories**.** The speaker delivered a talk on procedures involved in manufacturing of sterile products, maintaining of room conditions in different steps, treatment procedures to prepare the water for injection from purified water and discussed regarding different sterilization techniques for thermolabile and thermo resistant products. 64 B. Pharm students and faculty are attended for this session.

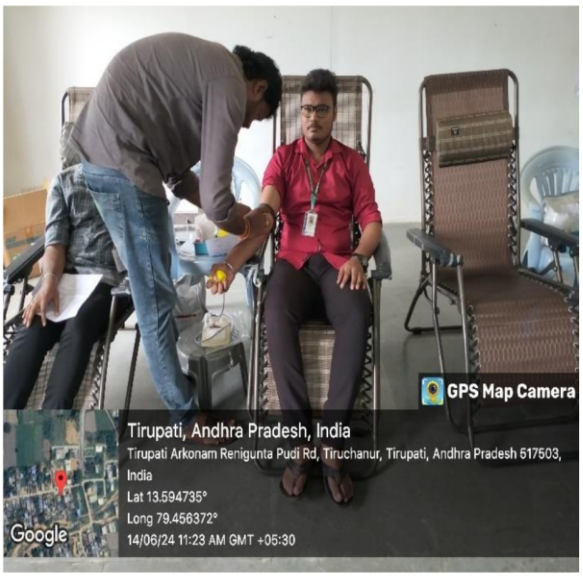
- A guest lecture (08-06-2024) has been conducted with the theme " **How to explore career paths in the CRO Field**" by the resource person - Mr. Karisetty Basappa, CEO & MD, Mainsprings, Hyderabad**.** The session was focused on the importance of Scientific writing, Medical writing, Data science, Business analytics and expectations of Multinational companies from the pharma students. 150 Pharm students and faculty are attended for this session.

❖ NSS activities

➢ In the view of World Malaria Day(25-04-2024), with the theme: "Accelerating the fight against malaria for a more equitable world "Our students have made awareness Rally in and around Tiruchanoor by displaying Placards and also sprinkle the bleaching powder in drains and water stagnated areas.

- In view of international yoga day (**21.06.2024)** In association with IPA, Tirupati and AP Tourism Authority, Tirupati Hub, "International Yoga Day" was celebrated at our campus by Yoga Guru, Sri.C.B.Vasudeva Reddy, Ayush, Tirupati and practiced various yoga postures with the students. 75 members participated in this session. Dr.R.Ramana Prasad, Regional Director, AP Tourism Authority, Tirupati Hub was the Chief Guest for this session.

- In view of world blood donar day on 14-06-2024, the NSS Unit and Dept. of Pharmacy Practice of Sri Padmavathi School of Pharmacy in association with NTR Trust organized a Blood Donation Camp at our campus. NTR trust PRO, Sri. C. Ravi Kumar and Supervisor, Sri N. Bhadra and team led this camp. Our students along with teaching and non-teaching staff participated the programme and donated 50 units of blood. Prof. Dr.D.Ranganayakulu, Principal appreciated all donors with Certificates



❖ Extra-curricular activities

- On the view of World Health Day (08-04-2024), with the theme: My Health My Rights. Our students have made awareness day on How to keep good health with a workshop on Nutrition & Diet, also participate in Essay competition. The students also exhibit various healthy food items prepared with millets, pulses and fruits. The College has organized Guest lecturer on Role of Ayurveda in daily Health by Dr. Rajendra Prasad, Rtd. Production supervisor, Sri Srinivasa Ayurveda TTD, Tirupati and given awareness on Benefits of taking Natural remedies in keeping good health. Our College Management and Principal sir appreciate all the Prize winners and Participates to make such awareness program.

- Our SPSP Students participated in various events like Singing, Dance, Rangoli, Fashion parade & Food carnival in National level Intercollegiate youth fest - 2024 (27-04-2024) @ Seven hills college of Pharmacy; TPT. Among them, our students achieved 2nd prize in both Rangoli and food carnival. Appreciation to all the winners and participants.

- Farewell day for Pharm D 2023-2024 batch was organized in Sri padmavathi school of pharmacy on 08-06-2024. Our chairperson, Smt.P.Sulochana garu and principal Prof.D.Ranganayakulu garu presented course completion certificates to the outgoing students. The juniors of present outgoing students presented momentos to their seniors and expressed best wishes for their future endeavors.

❖ Soft skills program organized on awareness of trends in technology

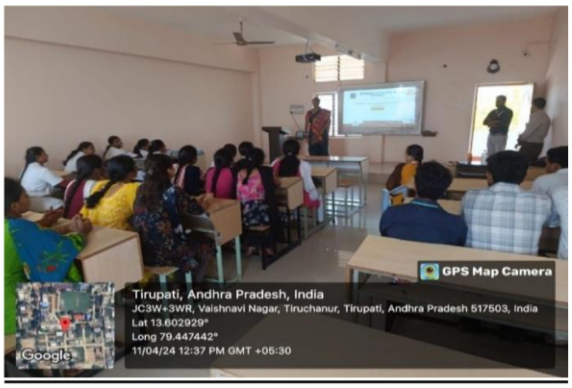
➢ **Sri Padmavathi School of Pharmacy**, organized an event namely **"Health Tech Horizons: Emerging Trends in Healthcare". Mrs. G.Padmavathi** explained about the importance of data analytical techniques in the pharmaceutical research and industry. The workshop took place 02-06-2024, 10 a.m. onwards in the Classroom. There were around 66 students who took part in the event.

➢ **Soft skills programme organised on language skills**

Sri Padmavathi School of Pharmacy came up with an idea to organize an event namely "**Mastering Nonverbal Communication"** by prof**.** K. Madhavi Latha to give the students' knowledge how Mastering non-verbal communication will enhance your personal body language cues to project a calm and collected persona. The workshop took place 5th April, 2024, 3 pm. onwards in the College. There were around 60 students who took part in the workshop.

❖ Soft skills programme organised on life skills

Sri Padmavathi School of Pharmacy came up with an idea to organize an event namely "**Thriving in Life: A Comprehensive Life skills workshop**" by speaker **MRS. NEELIMA,** Assoc professor, S. V. College of pharmacy was conducted to gain knowledge and develop relevant values, attitudes and skills that will enable them to participate fully in their society and to continue learning. Developing life skills amongst them is critical to addressing the Sustainable Development Goals. The workshop took place in our classroom at 10 am on 11-4-2024. There were around 68 students who took part in the workshop.



❖ Soft skills programme

Sri Padmavathi School of Pharmacy has organized an event namely "**ADAPTIVE COMMUNICATION: THE ART OF SOFT SKILLS" by speaker DR. A. Sharadha, Lecturer, SDHR degree college** to give the knowledge on how adaptive communication skills help you build positive personal connections with anyone. The workshop took place on 20-4-2024,10:30 a.m. onwards in the College. There were around 75 students who took part in the workshop.

❖ New pharma innovations in 2024 (April--June)

❖ AI in Pharma

The use of artificial intelligence (AI) is accelerating drug discovery and development processes. Innovative startups are leveraging AI to tackle industry challenges, streamlining manufacturing processes, and devising efficient marketing strategies for post-launch success. In the critical realm of patient selection for clinical trials, AI enhances the precision of eligibility criteria, streamlines patient inclusion, and accelerates cohort identification. This not only expedites the entire clinical trial process but also reduces associated costs significantly. Furthermore, AI's predictive analytics are instrumental in identifying potential participants, ensuring a more targeted and effective trial phase, and consequently, a swifter route to market for new drugs. The global AI in drug discovery market is expected to grow at a CAGR of 28.2% from 2024 to 2030, highlighting its increasing impact on the pharmaceutical industry.

❖ Big Data & Analytics

The pharma industry requires high-performance systems to analyze the large volumes of data generated during the drug discovery and development process. Pharmaceutical companies use third parties to share data with collaborators, making data management a crucial area of focus. The advancement in analytical techniques is also turning historical and real-time data available with pharmaceutical companies into valuable assets for predictive, diagnostic, prescriptive, and descriptive analytics. Moreover, these pharmaceutical analytics techniques are used on almost all types of medical data from patient records, medical imaging, and hospital data, to name a few. The pharmaceutical analytical testing market is expected to reach USD 8.98 billion in 2024 and grow at a CAGR of 8.41% to reach USD 13.43 billion by 2029, highlighting the growing importance of analytics in the industry.

❖ Flexible Production

The pharma industry is adapting its manufacturing to meet new market needs, like producing smaller batches for precision medicine. Single-use bioreactors are becoming popular for their efficiency, cutting downtime by simplifying cleaning and validation. Additionally, new bioreactor technologies and continuous manufacturing are key in biopharmaceutical production. They minimize downtime, use less energy, boost productivity, and reduce waste. These advancements also ensure consistent product quality, comply with strict regulations, and allow quicker market response.

❖ Precision Medicine

Precision medicine stems from the concept of tailoring treatment to the distinct characteristics of each patient. Progress in omics and data analytics is shedding light on the human body's drug response mechanisms. This understanding, combined with innovative production techniques like additive manufacturing, is bringing personalized medicine closer to fruition. Drug exposure models play a crucial role in precision medicine by assessing the pharmacokinetic and pharmacodynamic attributes of drugs. These models aid in determining the optimal drug dosage by considering factors such as age, gender, comorbidities, and other clinical variables. The global precision medicine market size is expected to reach USD 168.3 billion by 2032, growing at a CAGR of 9.1% during 2024-2032.

❖ Additive Manufacturing

The demand for precision medicine is driving pharmaceutical companies to revolutionize their production techniques. Significant research is dedicated to evolving advanced 3D printers that print tissues or cells. Within the pharmaceutical sector, 3D printing finds utility in the realms of drug formulation, organ fabrication, and regenerative therapy. Consequently, additive manufacturing enables the crafting of medical formulations tailored to individual age or physiological profiles, as well as the creation of precision dosage pills. Additionally, bioprinters are pivotal in advancing the fields of bioinks, tissue scaffolding, and microfluidics.

❖ Digital Therapeutics

Digital therapeutics deliver evidence-based therapeutic interventions using software, providing non-drug, technology-centric solutions to prevent, manage, or treat a wide array of physical, mental, and behavioral conditions. These interventions function independently or in conjunction with medications, devices, or other therapies. Digital therapeutics empower individuals by granting them enhanced control over their health and treatment outcomes. German startup Dopavision for eye treatment is making a smartphone-based digital therapeutic for myopia. The startup's solution aims to slow down the progression of myopia in the young population, especially children. The solution achieves the activation of dopamine, a neurotransmitter that plays an important role in eye growth regulation. Dopavision is currently undertaking pre-clinical trials of the digital therapeutic.

❖ Curative Therapies

A fundamental shift is occurring in the approach to treating illnesses, moving from disease management to achieving complete cures. Curative treatments, including cell and gene therapies, are transforming the treatment landscape for chronic and complex conditions by negating the necessity for prolonged therapy. Gene therapy involves the introduction of genetic material into cells to counteract defective genes or to produce a beneficial protein. Viruses that have been genetically modified typically serve as the primary vectors in gene therapy applications. Mogrify is a British startup that develops a proprietary direct cellular conversion platform to transmogrify any mature human cells. Mogrify develops novel cell therapies for musculoskeletal, auto-immune, and cancer immunotherapy, as well as ocular and respiratory diseases.

FDA NEWLY APPROVED DRUGS 2024(April -June)

S.No	Drug name	Active Ingredient	Approved date	FDA approved indication
1	Zevtera	ceftobiprole medocaril sodium	3/4/2024	To treat certain bloodstream infections, bacterial skin and associated tissue infections, and community-acquired bacterial pneumonia
2	Lumisight	pegulicianine	17/4/2024	To use as an optical imaging agent for the detection of cancerous tissue
3	Anktiva	nogapendekin alfainbakicept-pmln	22/4/2024	To treat bladder cancer
4	Ojemda	tovorafenib	23/4/2024	To treat relapsed or refractory pediatric low-grade glioma
5	Xolremdi	mavorixafor	26/4/2024	To treat WHIM syndrome (warts,hypogammaglobulinemia, infections and myelokathexis)
6	Imdelltra	tarlatamab-dlle	16/5/2024	To treat extensive stage small cell lung cancer
7	Rytelo	imetelstat	6/6/2024	To treat low- to intermediate-1 risk myelodysplastic syndromes
8	Iqirvo	elafibranor	10/6/2024	To treat primary biliary cholangitis in combination with ursodeoxycholic acid
9	Sofdra	sofpironium	18/6/2024	To treat primary axillary hyperhidrosis
10	Piasky	crovalimab-akkz	20/6/2024	To treat paroxysmal nocturnal hemoglobinuria

REPORTED ADRS TO AMC UNDER PVPI(April-June)

S.NO	Report ID	AMC Report No.	World wide unique No.	Patient initials
1	Irritant contact dermatitis: Clobetasol	SVMC/Apr-2024/194	IN-IPC-300926646	V
2	Hypokalemia: Lasix	SVMC/Apr-2024/195	IN-IPC-300926679	KS
3	Blisters: Metrogyl	SVMC/Apr-2024/196	IN-IPC-300926697	KM
4	Abdomen pain: Sodium chloride	SVMC/Apr-2024/197	IN-IPC-300926706	BS
5	Loose stools: Amoxiclav	SVMC/Apr-2024/198	IN-IPC-300926757	P
6	Swelling at injection site: Cefotaxime	SVMC/Apr-2024/199	IN-IPC-300926772	PS
7	Cough: Metronidazole	SVMC/Apr-2024/200	IN-IPC-300926795	D
8	Rash: Phenytoin	SVMC/Apr-2024/201	IN-IPC-300926816	M
9	ConstipationL: Emeset	SVMC/Apr-2024/202	IN-IPC-300927359	K

S.NO	Report ID	AMC Report No.	World wide unique No.	Patient initials
1	Psychosis: Atropine	SVMC/May-2024/239	IN-IPC-300940762	MB
2	Orthostatic hypotension: Lasix	SVMC/May-2024/240	IN-IPC-300940776	TM
3	Hyperkalemia: Enalapril	SVMC/May-2024/241	IN-IPC-300941272	KN
4	Loose stools: Ciprofloxacin	SVMC/May-2024/242	IN-IPC-300941294	AM
5	Loose stools: Amoxyclav	SVMC/May-2024/243	IN-IPC-300941360	JS
6	Vomiting: Cefoprazone+Sulbactum	SVMC/May-2024/244	IN-IPC-300941449	TV
7	Muscle cramps: Lasix	SVMC/May-2024/245	IN-IPC-300942383	BY
8	Rash: Paracetamol	SVMC/May-2024/246	IN-IPC-300942393	H
9	Psychosis: Atropine	SVMC/May-2024/247	IN-IPC-300942418	BA
10	Hypoglycemia: Plain insulin	SVMC/May-2024/248	IN-IPC-300942440	D
11	Constipation: Aspirin	SVMC/May-2024/249	IN-IPC-300942482	MR
12	Loose stools: Ceftriaxone	SVMC/May-2024/250	IN-IPC-300942570	SK
13	Hyperglycemia: Polybion	SVMC/May-2024/251	IN-IPC-300942654	KL

S.NO	Report ID	AMC Report No.	World wide unique No.	Patient initials
1	Constipation: Telmisartan	SVMC/Jun-2024/290	IN-IPC-300954948	SR
2	Rash: Paracetamol	SVMC/Jun-2024/291	IN-IPC-300954998	KS
3	Constipation:Pantop	SVMC/Jun-2024/292	IN-IPC-300955023	RR
4	Sweating: Lasix	SVMC/Jun-2024/293	IN-IPC-300955032	SS
5	Respiratory depression: Tramadol	SVMC/Jun-2024/294	IN-IPC-300955544	SS
6	Gastritis: Albendazole	SVMC/Jun-2024/295	IN-IPC-300955640	U
7	Dry mouth : Cetrizine	SVMC/Jun-2024/296	IN-IPC-300955686	V
8	Joint pain: ATT	SVMC/Jun-2024/297	IN-IPC-300955715	S
9	Loose stools: Prednisolone	SVMC/Jun-2024/298	IN-IPC-300955790	KS
10	Epigastric pain:Aspirin	SVMC/Jun-2024/299	IN-IPC-300955812	OM

❖ Some of best Student projects

- **Evaluation Of Anti- Thrombotic Activity Of Chrysanthemum Indicum Flowers -An In Vitro Study**

  Abstract: Cardiovascular diseases involving deep vein thrombosis, stroke, hypertension and heart attacks are the main causes of morbidity and mortality in the world. Synthetic drugs used in such disorders lead to serious adverse effects. The discovery of natural products in the treatment of these diseases reduces the side effects. Inhibiting the aggregation of platelets prevents the formation of thrombus. This is the most widely used mechanism to determine the potential efficacy of anti-thrombotic agents. So, the present study aimed to evaluate the in-vitro anti-thrombotic activity of hydroalcoholic extract of Chrysanthemum indicum flowers. In this study was evaluated the anti-thrombotic activity of hydroalcoholic flower extract of Chrysanthemum indicum by using clotting time assay and Cacl 2 induced clotting time assay. The inhibitory activity of Chrysanthemum indicum flower extract was comparable with the standard drug. The percentage inhibition of Chrysanthemum indicum flower extract was attributed due to the presence of flavonoids, phenols, carotenoids. IC 50 values of Chrysanthemum indicum flower extract by using clotting time assay and Cacl 2 induced assay were found to be 41.96 and 49.75 µg/ml respectively. Whereas the IC 50 standard value was found to be 24.36 µg/ml.

- **Development and validation of chemometric assisted UV Spectroscopic methods for simultaneous estimation of Lamivudine, Tenofovir Disoproxil Fumarate, Dolutegravir Sodium in marketed formulation.**

Abstract: The combination of Lamivudine (LAM), Tenofovir Disoproxil Fumarate (TDF), Dolutegravir Sodium(DTS) was used in the treatment of HIV/ AIDS . In the current study, chemometric assisted UV spectrophotometric methods like partial least squares (PLS) and principal component regression (PCR) were developed & validated. The absorption maxima of LAM, TDF & DTS was found to be 272 nm & 260nm, 263nm, respectively. The drugs showed good linearity in the range of 5-25µg/mL for LAM and 5-30µg/mL for TDF ,3-18µg/mL for DTS with regression coefficient values of 0.9995, 0.9996 & 0.9995 respectively. The chemometric models were developed by the construction of calibration set with 12 mixtures of LAM, TDF & DTS in the wavelength range of 220 nm to 370 nm with 2 nm data interval. External validation was performed by using a validation or test set with 7 mixtures of the drugs and the results obtained from the validation set depicted the accuracy and precision of the developed models. The developed models were optimized and then applied to analyse the drugs in the selected formulation. The assay values were found to be 97.859 for LAM , 104.055 for TDF & 95.613 for DTS in PCR and 99.124 for LAM ,107.300 for TDF & 93.940 for DTS in PLS for respectively.

- **SYNTHESIS & CHARACTERIZATION OF NOVEL ISOXAZOLE AND IT'S DERIVATIVES FOR THE POTENT ANTI-TUBERCULAR ACTIVITY"**

Abstract: The new Six series of 4-[(5-phenyl-1,2-oxazol-3-yl) amino]phenol and its derivatives were synthesized by reacting 4-hydroxy phenyl acetamide with substituted aryl aldehydes in the presence of PEG 400 and 20% NaOH in refluxing ethanol to produce chalcones. Further all these compounds are cyclized by reacting with Hydroxyl amine HCl in catalytic GAA to give desired Isoxazole containing N-hydroxyl benzene. The aim of the synthesizing the above novel isoxazole derivatives containing N-hydroxyl benzene for its wide range of pharmacological activity and by using different substituent were it supposed to show potent activity. All the above synthesized Isoxazole and its derivatives were identified and characterized by the physical data (i.e. Melting point, solubility and TLC) and spectroscopically data (i.e.IR by KBr method and few selected compounds for H1-NMR spectroscopy) and all the synthesized compounds are predicted for In-silico model & In-vitro studies like Anti-Tubercular activity by standard procedure method. Key words: 4-hydroxyphenyl-N-acetamide, Isoxazole, Molecular docking, Anti-Tubercular activity

- **A PROSPECTIVE STUDY ON UTILIZATION OF ANTIBIOTICS FOR PROPHYLAXIS IN POST OPERATIVE SURGICAL WARDS IN A TERTIARY CARE HOSPITAL**

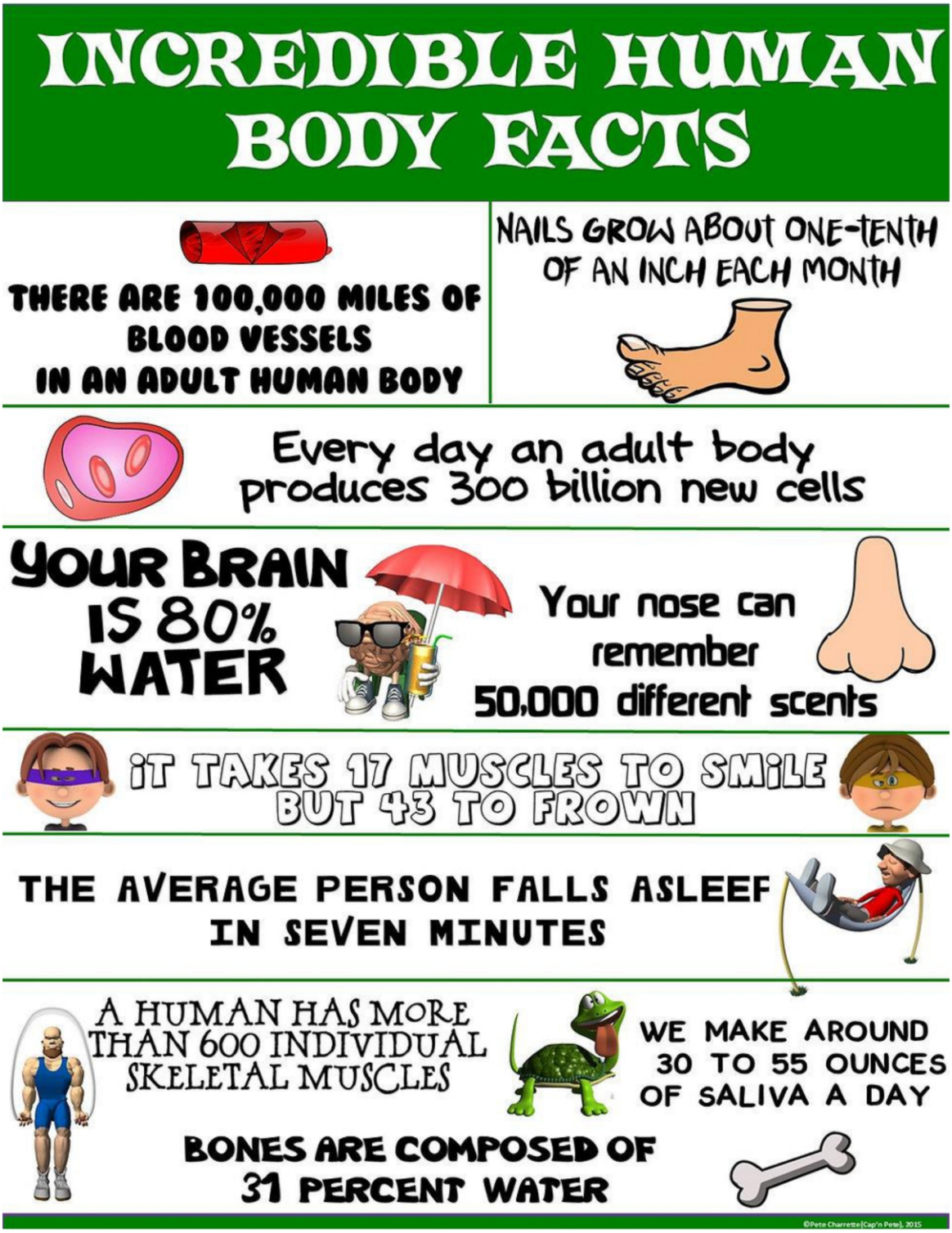
Antibiotics are powerful and effective drugs in fighting against infectious diseases caused by bacteria and have been frequently used for decades

worldwide for effective treatment of a variety of bacterial infections. Surgical Site Infections (SSIs) are defined as the infection that occurs within 30 days after operation. SSIs are the third most common type of hospital-acquired infections. Surgical antibiotic prophylaxis is a very brief course of antibiotics initiated closely before the start of operative procedures to reduce postoperative SSI's. Antibiotic prophylaxis has been shown to be an effective measure for preventing SSIs. Despite the availability of these guidelines, different studies have demonstrated inappropriate timing, selection, and excess duration of administration of antimicrobial prophylaxis. Irrational use of medicines, especially antibiotics is one of the leading causes of AMR & ADRs and was commonly seen in many developing countries with low level of healthcare systems.

- **Pattern, risk factors and clinical presentation of anemia at a tertiary care hospital-a prospective observational study**.

  Anemia is a global health problem in the population which is defined as a decreased level of haemoglobin < 18 g/dL in men, <12 g/dL in women. Identifying the anemia earlier may decrease the mortality and morbidity of the population it occurs with the detection of anemia through morphological patterns, clinical presentation and risk factors which provides accurate treatment to patient. To determine the patterns and identify the risk factors and clinical presentations of anemia to provide the good quality of life to the patient with better treatment. A prospective observational study was performed with admitted cases of anemia over 6 months period (September 2023 to February 2024). Total 150 Patients were selected for the study. A detailed demographic details, clinical presentations, lab examination, risk factors and treatment were included in proforma which is used for our study. The study showed that female patients 76% predominates male 74%, Microcytic hypochromic anemia was the most common pattern of anemia seen in 73% of patients, Majority of the patients with anemia 46% had nutritional deficiency as a risk factors, Frequently seen clinical presentation in the anemic patients was shortness of breath 45% and also multiple symptoms seen in patients were fatigue, dizziness, shortness of breath 26%. Assessing anemia is essential for prompt patient diagnosis and therapy. Morphological patterns provide light on the underlying pathophysiology and aid in the evaluation of anemia. Thus, early treatment of anemia lowers the rate of morbidity and mortality also enhancing the quality of life.

DO U KNOW??????? FACTS….



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