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IS CONTRACT MANUFACTURING SYSTEM AN INTEGRAL PART OF CURRENT MANUFACTURING SYSTEMS?

A Review

INTRODUCTION

Previously, the pharmaceutical industry's model involved vertical integration of businesses, the company themselves carried out all the procedures required for the business. Continued high financial performance is now demanded by investors. Thus, subcontracting has developed into a main way of carrying out businesses. It is a method involving contractual use of a non-related system with another. Contract manufacturing is a system that creates an employed arrangement amid two productions. One industry tradition manufactures components or other products on behalf of its customer as part of the arrangement. The manufacturer performs the ordering and delivery procedures for the customer in most situations. (2) Outsourcing has led to the emergence of a modern model that provides new ways for businesses to boost their bottom lines by shifting immobile costs to adjustable costs. They do this by dropping or removing the capacities of in-house manufacturing and by the replacement of contract manufacturers. Thus, the conduct of today's industry is becoming increasingly essential to contract manufacturers who conduct synthesis and produce intermediates, dosage forms and active pharmaceutical ingredients. Contract Manufacturing Organization (CMO) is a pharmaceutical industry association that provides consumers with integrated services from drug discovery to production. Facilities provided by CMOs are segregated into mainly two types: primary and secondary manufacturing. The synthesis of drug substances requires primary processing, whereas secondary production relates to the transformation of bulk medication substances into finished pharmaceuticals (pills, topical formulations, injectables). Approximately discrete processes and activities include drug processing. Any or all of the contractual processes and procedures may be carried out by one manufacturer, or they may be carried out by an external party or parties. Any or all of the contractual processes and procedures may be carried out by one manufacturer, or they may be carried out by an external party or parties. A number of manufacturing operations and activities are undertaken by contract facilities like chemical synthesis, fill and finish, formulation etc. Each party involved during the production of a drug is accountable for ensuring that the manufacturing activities it conducts comply with CGMP. For both owners and contracting establishments performing manufacturing activities, CGMP 'includes conducting quality assurance supervising and controls of the production of drugs, including risk management and safety determination of raw components, materials used in the production of medicines, as well as completed drug products. Drugs that are not developed in accordance with CGMP are adulterated.

Why is contract manufacturing required?

Pharmaceutical products demand has been increasing globally. Contract manufacturing environment is evolving as an unswerving answer to the increased demand of market trends, in order to satisfy all of the new demands of customers. Pharmaceutical companies gloomed at the turn of the century, with mergers and acquisitions (M&A), layoffs, and outsourcing activities within its vast network of companies becoming commonplace. However, it remains to be seen if this would result in a more sustainable industry. One of the main challenges in the pharmaceutical industry has always been a persistent shortage of innovative medicines, and mergers and acquisitions are one of the best ways to boost growth in the production and creation of new drugs. Subcontracting procedures have become a significant part of pharmaceutical sector, and CROs/CMOs are a crucial part of the business. Over the past 40 years, pharmaceutical technology has been serving the pharmaceutical industry, and it has been growing and changing dramatically in the way drugs are discovered, created, processed, and marketed. Contract production and manufacturing organisations (CDMOs) have long played a role in the industry's growth, but they have only recently become a critical component of pharmaceutical companies' operations.

India's contract manufacturing Opportunity

After the United States, India has the second-highest number of USFDA-approved pharmaceutical plants, with 75. It not only represents the high quality of the Indian pharmaceutical industry, but also the breadth of expertise available throughout the entire industry. A strong segment of the domestic market is contract manufacturing. There are some benefits for Indian companies over their Western rivals. The experience obtained by reverse engineering in producing generics has helped several businesses streamline the process to get production up and running. As a result, Indian companies are aggressively improving their manufacturing efficiency, putting them in a better position to benefit from the expected rise in generic demand over the next five years as patents expire.

Conclusion and Future Scope

Contract manufacturing can be used with skilled management and control to take a product from the stage of the "test tube miracle" through the stage of being a "masterpiece of production." In the pharmaceutical industry, there are many changes taking place. Patent laws are now evolving; so many businesses are now focused on R & D work. The core business of many companies would need skills to meet this evolving terminology that they do not currently have to gain this manufacturing capability. They need enormous funds at their hands, so they prefer outsourcing rather than spending their own limited capital in manufacturing facilities. As a result, in today's economy, outsourcing is preferred.



Prima Lewis and Dr. Akhilesh Dubey

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Coca-Cola

A PHARMACIST'S INVENTION



Coca cola is one of the most recognized brands of the world. This carbonated beverage drink is available across continents in all countries except Cuba and North Korea. Coca cola created the genre of colas, thus like most enduring successes, Coca cola is also category creator. As per Statista the brand valuation in 2021 of Coca cola is 87.60 billion USD and in 2006 the brand valuation was 41.41 billion USD. Thus, the brand is growing attractively every year. The key learning regarding Coca cola marketing is that they put emphasis on brand name over product. Coke sells "happiness" in a bottle. Incidentally, Coke is the nickname of Coca cola. The soft drink is officially known as Coca cola.

John Stith Pemberton a pharmacist of Atlanta, USA had a company Atlanta Chemical Company. On 8th, May, 1886 John Pemberton created a syrup of Coca cola. At that time, medicines market was not highly regulated, cocaine was legally available. John Pemberton's syrup formula contained extracts of coca leaf and cola nut (source of caffeine). John Pemberton the pharmacist, positioned this as a temperance drink or non-alcoholic syrup. John Pemberton wanted to represent Coca cola syrup as a patented or proprietary over-the-counter medicine for well-being. Thus, on 8th May 1886, Mr. Pemberton handed over a jug of Coca cola syrup for sampling and testing at the nearby Jacob's Pharmacy. The product was accepted as "excellent" and the retailing of Coca cola at Jacob's pharmacy started in 1886 by adding carbonated water to the syrup and a drink was created for well-being: Coca-Cola, the temperance drink. Thus, Coca cola was positioned from the beginning as the "delicious and refreshing" carbonated water soda – available during launch at five cents a glass. The "delicious and refreshing" product positioning continues to this day. Mr. Pemberton's business associate wrote the stylized "Coca-Cola" and the trademark is for Coca-Cola. The first year sales was nine Coca cola drinks a day. In 2021, approx. 2 billion (200 crore) servings are consumed daily across the world.

Later in 1892 (or 1887, the year is mentioned differently in various sources), Mr. Candler purchased the Coca-Cola business for about 2300 USD (in 2021 equivalent value is 68000 USD) and expanded the business. From then on, the Coca cola business has powered ahead from the pharmacy to non-pharmacy outlets. The Coca cola business rode on the trending things of those times, which was for non-alcoholic temperance drinks. Brand successes are most often latched onto market

trending(s). This way we see the Coca-Cola story is not different. Hence, marketers always try to spot the societal and market trends and create campaigns based on these trends. The secret Coca cola formula does not contain any banned ingredients like cocaine today, though the actual formula is a trade secret. The Atlanta headquartered company sells the coca cola concentrate to various licensed bottlers across the world (franchise distribution system, which has contributed to exponential growth of Coca cola). It is interesting to note that companies focusing on intellectual property and marketing, rely on vendors for actual manufacturing and also dabble in franchise marketing or contract marketing. For instance, the Swedish aseptic packaging material and equipment MNC focuses more on product innovation, IP, patents and does not own many factories, it outsources the activity of manufacturing the aseptic packaging machinery and packaging material, puts its label and markets it. The IP is the actual revenue generator. The IP portfolio mainly includes trademark, trade secrets and patents in the corporate world. Coca cola company has 6893 patents globally.

Coca cola company has been under attack for being a product that promotes global human obesity. There is 10.60 g of sugar in Coca cola classic per 100 ml. Hence, Coca cola company has reinvented itself to offer many other brands beyond the cola category. The company has evolved to be a total beverage company including many 'good-for-you' health brands. Coca cola offers a total of 200 plus brands in various beverage categories: cola, tea, coffee, juices, kombuchas and water. Coke is also a popular trademark brand name of Coca cola company. In 2020, Coca cola was the sixth most valuable brand. In 2021 calendar year, the total global sales of all Coca cola beverage brands was 38.66 billion USD (approx. Rs. 2,89,950 crores @ Rs. 75 per dollar).

The pharmacist who created this iconic multi beverage company Coca cola operating across the world – is John Pemberton. Today, Coca cola company is owned by institutional and individual shareholders. Berkshire Hathaway the investment company of Warren Buffet owns 9.38% of the total shares in Coca cola company. Vanguard Group, Blackrock group and other non-institutional individuals also own shares of the listed Coca cola company.

Endpiece: Pepsi cola, the strongest competitor to Coca cola is also a cola brand and this brand was launched by another pharmacist, Caleb D Bradham

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ಕಾಣುತ್ತಿ

ಜಿಂಕೆ ಕಾಣುತ್ತೆ ಕನಸು ಹುಲಿಯನ್ನು ಹಿಂದಟ್ಟಿ ಹೊಡಿಸುವ
ಪಂಜರದ ಗಿಳಿ ಕಾಣುತ್ತೆ ಕನಸು ಆಕಾಶದಲ್ಲಿ ಹಾರುವ
ವಿದ್ಯಾರ್ಥಿ ಕಾಣುತ್ತೆ ಕನಸು ಶಿಕ್ಷಕರ ಪರಿಕ್ಷೆ ತೆಗೆದುಕೊಳ್ಳುವ
ಇಲಿ ಕಾಣುತ್ತೆ ಕನಸು ಇದರ ಆಟ ಮಾಡುತ್ತೆ ಬೆಕ್ಕಿಗೆ ಪ್ರಾಣ ಸಂಕಟ
ಕಾರು ಚಾಲಕ ಕಾಣುತ್ತೆ ಕನಸು ಕಾರಿನ ಹಿಂಬದಿಯ ಸೀಟಿನಲ್ಲಿ ಕೂರುವ
ಕೆಲಸದಾಳು ಕಾಣುತ್ತೆ ಕನಸು ತನ್ನ ಯಜಮಾನ ನನ್ನು ಒಟ್ಟಾರೆ ಬೈಯುವ
ಕವಿ ಕಾಣುತ್ತೆ ಕನಸು ಅವನ ಕವನ ಲೇಖನಿ ತನ್ನಷ್ಟಕ್ಕೆ ಬರೆಯುವ
ಮಧ್ಯಮ ವಯಸ್ಸಿನ ಮಹಿಳೆ ಕಾಣುತ್ತೆ ಕನಸು ಹದಿನಾರು ವರ್ಷದ ಯುವತಿಯ ಲಾವಣ್ಯ
ಮುದುಕ ಕಾಣುತ್ತೆ ಕನಸು ಅವನ ಸುತ್ತ ಸುಂದರಿಯರು ಓಡಾಡುವ
ಮೀನು ಕಾಣುತ್ತೆ ಕನಸು ನೀರು ಕಡಲಲ್ಲಿ ಈಜುವ
ಮರ ಕಾಣುತ್ತೆ ಕನಸು ಮೋಡದ ನೆರಳು ಪಡೆಯುವ
ಭೂಮಿ ಕಾಣುತ್ತೆ ಕನಸು ಸೂರ್ಯನಿಗೆ ಶೀತ ಹೊದಿಕೆ ಹೊಡಿಸುವ
ಜಾತಕ ಪಕ್ಷಿ ಕಾಣುತ್ತೆ ಕನಸು ಚಂದ್ರ ಅವನಿಗಾಗಿ ಕಾಯುವ
ಚಂದ್ರ ಕಾಣುತ್ತೆ ಕನಸು ನಕ್ಷತ್ರ ದಂತೆ ಮಿನುಗುವ
ಕಾಗೆ ಕಾಣುತ್ತೆ ಕನಸು ಕೋಗಿಲೆಯಂತೆ ಹಾಡುವ
ಕೋಳಿ ಕಾಣುತ್ತೆ ಕನಸು ಮಾನವ ಅವನನ್ನು ಎಬ್ಬಿಸುವ (ಮಾನವ -ರುಟ್ಟಿ ತಿನ್ನುವ)
ಭಿಕ್ಷುಕ ಕಾಣುತ್ತೆ ಕನಸು ಶ್ರೀಮಂತರಿಗೆ ದಾನ ಮಾಡುವ
ಜ್ಞಾನಿ ಕಾಣುತ್ತೆ ಕನಸು ದೇಶವನ್ನು ಆಳುವ
ನಾನು ಕಂಡೆ ಕನಸು ಪ್ರಸಿದ್ಧ ಲೇಖಕಿ ಆಗುವ

Dr. Rekha K Shetty MBBS
Mumbai



PROPER DRUG DISPOSAL AND STORAGE



What is Drug?

- Drug is a substance intended for use in the diagnosis, cure, mitigation, treatment, or prevention of disease.
- In medicine, drug refers to any substance with the potential to prevent or cure disease or enhance physical or mental welfare; in pharmacology it means any chemical agent that alters the biochemical or physiological processes of tissues or organisms¹.



Why Proper storage is Important?

- The loss of potency during storage may influence the efficacy and safety of pharmaceuticals. Pharmaceutical products require controlled storage and transit conditions in order to ensure that their quality is not compromised. Storage is an important aspect of the total drug control system. Proper environmental control (i.e., proper temperature, light, and humidity, conditions of sanitation, ventilation, and segregation) must be maintained wherever drugs and supplies are stored in the premises².

Store medicines properly: -

- Know that heat, air, light, and moisture may damage your medicine.
- Store your medicines in a cool, dry place. For example, store it in your dresser drawer or a kitchen cabinet away from the stove, sink, and any hot appliances. You can also store medicine in a storage box, on a shelf, in a closet.
- If you are like most people, you probably store your medicine in a bathroom cabinet. But the heat and moisture from your shower, bath, and sink may damage your medicine. Your medicines can become less potent, or they may go bad before the expiration date.
- Pills and capsules are easily damaged by heat and moisture. Aspirin pills break down into vinegar and salicylic acid. This irritates the stomach.
- Always keep medicine in its original container.
- Take the cotton ball out of the medicine bottle. The cotton ball pulls moisture into the bottle.
- Ask your pharmacist about any specific storage instructions.
- Always store your medicine out of reach and out of sight of children.
- Store your medicine in a cabinet with a child latch or lock^{3,4,5}



What are the Proper Disposal Methods and Remedial Measure?

Methods of disposal of various pharmaceutical dosage form are summarised as;

- Take unused, unneeded, or expired prescription drugs out of their original containers and throw them in the trash.
- Mix the prescription drugs with an undesirable substance, like used coffee grounds or kitty litter. Putting them in impermeable, non-descript containers, such as empty cans or sealable bags, will further ensure the drugs are not diverted.
- Throw these containers in the trash.
- Flush prescription drugs down the toilet only if the accompanying patient information specifically instructs doing so.
- Community drug take-back programs that allow the public to bring unused drugs to a central location for proper disposal. Several countries like United States, Australia, British Columbia, and Sweden, “drug take back programme” achieving the goals and need to implement these programs in developing countries like India and China which are the major centres for manufacture of pharmaceuticals⁶.



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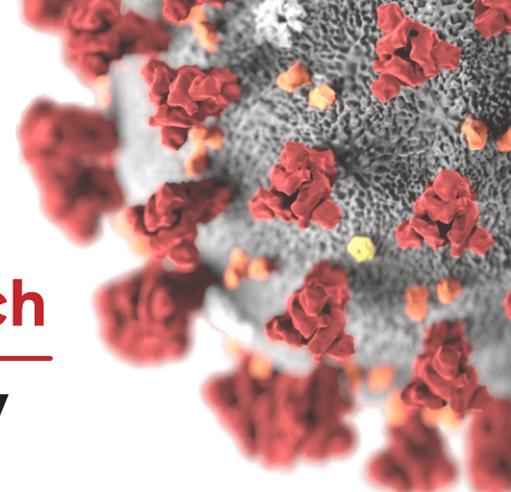
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EVENTS AND ACTIVITIES

KRPA and Sarada vilas college of pharmacy, Mysuru had jointly organized a seminar on Role of Technology in Pharmacy. We thank Madhushankar, Marg Master Partner - Karnataka who was the resource person, who demonstrated the Marg Retail Pharmacy Software to D.Pharma Students . we thank our beloved Principal Dr. Hanumanthar Joshi, Mr. Gokul Nanda, staff and students for the cooperation. Jai Pharmacy, Jai KRPA



PHARMACY & TRADE

CHRONICLE PHARMACY
March 21, 2022

KRPA wants retail outlets to implement tech to propel transparency

Nandita Vijay, Bengaluru

The Karnataka Registered Pharmacists Association (KRPA) is now increasingly looking to ensure that pharmacy retail outlets implement technology to propel transparency and efficiency. Going by the need to ensure speed with convenience along with the mandatory filings like goods and services tax (GST) and income tax, technology helps streamline many of these mundane and complicated tasks that need a system in place to keep track of sales and revenues. Pharmacy retail automation enables overview of inventory,

fast billing, damaged stock tracking & return. The ERP solution for pharma distribution improves productivity and reduces inefficiencies. Other advantages of pharmacy retail automation are that it ensures every transaction is accurate and processed quickly. There is easy accessibility, and better control over pharmacy operations. Besides it reduces paperwork, eliminates paper storage, simplifies data storage and retrieval.

Of the 28,000 pharmacy outlets in Karnataka, 2,000 of them are in Mysuru. All these are automated. The software implemented here are either Point of Sale (POS) or ERP (Enterprise Resource Planning) under brands like Pharma Soft, Marg Master and Wonder Soft.

We feel that D Pharm students need to be readily armed with the nuances of digital technology in pharmacy retail. This is because most of them take up entrepreneurship in pharmacy. In an age of automation and the ongoing pandemic, importance of technology has come to the fore. Every student needs to be tech savvy. Covid pandemic too brought the indispensability of technology, said Dr Kaushik Devaraju, president, Karnataka Registered Pharmacists Association.

It is here the Association roped in Sarada Vilas College of Pharmacy, Mysuru to organize a seminar on Role of Technology in Pharmacy. Madhusankar representing Marg Master Partner in Karnataka was the resource person, who demonstrated the Marg Retail Pharmacy Software to D.Pharma Students, he added.

According to Prof. Hanumanthachar Joshi, Principal, Sarada Vilas College of Pharmacy, the tech adoption in pharmacy stores is much needed. We need to provide D Pharma students with this exposure which gives an overview to students about the importance of automation in a retail pharmacy. The widespread digitalization, requirement of GST filings, maintaining customer data and keeping close watch on near expiry stock details are the need of the hour.

After D Pharm many candidates work as community pharmacists and knowledge of software used in pharmacy + accountancy skills are very much required. Hence this program was organized to give the students a first-hand exposure to automating tasks to expedite adoption of digitization which will bring in customer satisfaction and supply chain management, noted Prof. Joshi.

TPS demands streamlining of pharmacy council to impose Pharmacy Act

A Raju, Hyderabad

The Telangana Pharmacy Society (TPS) has demanded that it is high time to streamline the Pharmacy Council (SPC) to strictly impose the Pharmacy Act and protect the interests of pharmacists in the state.

Speaking at a meeting addressing pharmacy professionals from different sectors recently at Nizam College in Hyderabad, TPS member and president of TPS Akula Sanjay Reddy said that the time has come for the complete reorganization of Telangana Pharmacy Council as it is main source of power to resolve various problems faced by the pharmacy professionals in the state.

"It is high time to reorganize and streamline the Telangana

Pharmacy Council. We are also urging the government to establish a drug information centre at appointing pharmacy inspectors instead of entrusting duties of pharmacy inspectors to drug inspectors which is against the pharmacy regulations act and unsupported by the government," observed Reddy.

Adding further, the TPS president also demanded the state government to immediately appoint more drug inspectors, as the present DCA is facing tough time with little staff to meet the requirements of inspectors of pharma industry and at the same time supervising the 30,000 pharmacies located in the state.

At present, Telangana state is having only 70-75 drug inspectors as against the actual requirement over 380 drug in-

spectors. Akula Sanjay Reddy demanded that to safe guard the public health it is high time the government take up more appointment of drug inspectors in the pharmacy profession. He also demanded that there should be a strict implementation of Section 12 of 1948 of pharmacy act to safe guard the public health by providing proper healthcare to be public by the qualified pharmacy professionals.

"If the Pharmacy Act is strictly implemented, it will create employment to more than 50,000 pharmacists in the state. Instead of giving duties to Adha workers who are unqualified to record the health profiles of people in rural areas, the government should use the services of pharmacists, who will record the health profiles of public," opined Reddy.

Pharmacists in Odisha to complain against OSPC registrar

Peethambaran, Chennai

The pharmacists and professionals of pharmacy in Odisha state are in a dilemma as there is not an elected council in the state to direct and guide the professionals for the one-year celebration programme, mooted by the Pharmacy Council of India. The professionals allege that the registrar of the council is inactive and he does not take proper action in conducting the election process by requesting the government as per norms of the Pharmacy Act. According to them, they will complain to the government against the registrar for his apathy in initiating the election process in due course.

"Odisha State Pharmacy Council (OSPC), the watchdog of the pharmacy profession, is dormant in the state in the absence of an elected body for the last 40 years. The last election was held way back in 1982. Since then the council has been functioning without elected members," said a national association leader and influential pharmacy activist in Bhubaneswar.

A senior pharmacy academician and president of the Odisha branch of the Association of Pharmacy Teachers of India (APTI), Dr. Mihir Kumar Kar, said his association demanded several times to the Odisha State Pharmacy Council, Pharmacy Council of India and the state government to conduct election to the council, and highlighting the demand, Association of Pharmacy Teachers of India submitted numerous representations to the authorities.

Despite all these efforts from the side of Association of Pharmacy Teachers of India, neither the Odisha State Pharmacy Council nor the Pharmacy Council of India has taken any effort to conduct the election in due course. He said it is illegal and against all the constitutional norms to allow a state pharmacy council to function without elected members as per provisions of the Pharmacy Act. Odisha Association of Pharmacy Teachers of India will further submit one memorandum to the chief minister, marking a copy to the Pharmacy Council of India, demanding a direction to the SPC to elect six members from among the registered pharmacists.

Mihir said the council is now working as per the whims and fancies of the registrar. However, the government nominates five members to the council every five years and sends one member to the central council. He wanted the government to constitute the council with elected members from among the registered pharmacists.

As per the Pharmacy Act, a state pharmacy council has to have six elected members, five nominated members, three ex-officio members such as state drug controller, director of health services, chief government analyst and a registered medical practitioner representing the medical council. According to sources, in Odisha the SPC lacks the elected six members and functions without the representation of registered pharmacists.

When Pharmabiz contacted the registrar of Odisha State Pharmacy Council, he said he will share details later as he is busy with the registration of 200 pharmacists at present.

KSPC asked to hike funds for families of deceased pharmacists

Nandita Vijay, Bengaluru

The Karnataka Pharma Retailers & Distributors Organization (KPRDO) has proposed to the Karnataka State Pharmacy Council (KSPC)'s Registered Pharmacists Welfare Trust to increase its funding from the current Rs. 2 lakh to Rs. 5 lakh for the families of deceased pharmacists. The initiative is part of the Trust's community programme extending a small financial support to the deceased pharmacists family.

"We appreciate the Karnataka Pharmacy Council Registered Pharmacists Welfare Trust to help the deceased pharmacists family members in the much needed hour of grief by giving a small financial support," said C Jayaram, president, KPRDO.

While this funding would be adequate for a start, it needs to be enhanced going forward to Rs. 5 lakh for the benefit of pharmacists' families, he added.

Hence KPRDO urges the management of the Karnataka Pharmacy Council Registered Pharmacists Welfare Trust to take up this matter as priority to help pharmacists by doing the needful to increase the amount to Rs. 5 lakh.

Further KPRDO also sees the need to recognize the selfless service of the pharmacists in dispensing drugs via prescription, advising on adverse drug reactions, engaging in door step delivery of medicines among others. It calls to facilitate them by giving Oshadha Rathna or Community Pharmacists where details were shared to the concerned officials.

KSPC observed annually on September 25. It would give an identity to the pharmacy profession. The Central and state governments are recognizing other fields and facilitating professionals but are yet to recognize pharmacists in spite of their services in drug dispensing any time. Karnataka accounts for 20,000 pharmacists and around 68,700 registered pharmacists, stated Jayaram.

During the Covid-19 pandemic first and second wave 50 pharmacists who worked tirelessly to dispense medicines and undertake door step deliveries contracted the corona virus disease and succumbed. Hence KPRDO requested the government to allocate separate funds for the families of the deceased pharmacists where details were shared to the concerned officials.



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Nandita Vijay, Bengaluru
Monday, March 21, 2022, 08:00 Hrs [IST]

The Karnataka Registered Pharmacists Association (KRPA) is now increasingly looking to ensure that pharmacy retail outlets implement technology to propel transparency and efficiency. Going by the need to ensure speed with convenience along with the mandatory filings like goods and services tax (GST) and income tax, technology helps streamline many of these mundane and complicated tasks that need a system in place to keep track of sales and revenues.

Pharmacy retail automation enables overview of inventory, fast billing, damaged stock tracking & return. The ERP solution for pharma distribution improves productivity and reduces inefficiencies. Other advantages of pharmacy retail automation are that it ensures every transaction is accurate and processed quickly. There is easy accessibility, and better control over pharmacy operations. Besides it reduces paperwork, eliminates paper storage, simplifies data storage and retrieval.

Of the 28,000 pharmacy outlets in Karnataka, 2,000 of them are in Mysuru. All these are automated. The software implemented here are either Point of Sale (POS) or ERP (Enterprise Resource Planning) under brands like Pharma Soft, Marg Master and Wonder Soft.

We feel that D Pharm students need to be readily armed with the nuances of digital technology in pharmacy retail. This is because most of them take up entrepreneurship in pharmacy. In an age of automation and the ongoing pandemic, importance of technology has come to the fore. Every student needs to be tech savvy. Covid pandemic too brought the indispensability of technology, said Dr Kaushik Devaraju, president, KRPA.

It is here the Association roped in Sarada Vilas College of Pharmacy, Mysuru to organize a seminar on Role of Technology in Pharmacy. Madhusankar representing Marg Master Partner in Karnataka was the resource person, who demonstrated the Marg Retail Pharmacy Software to D. Pharma Students, he added.

According to Prof. Hanumanthachar Joshi, Principal, Sarada Vilas College of Pharmacy, the tech adoption in pharmacy stores is much needed. We need to provide D Pharma students with this exposure which gives an overview to students about the importance of automation in a retail pharmacy. The widespread digitalization, requirement of GST filings, maintaining customer data and keeping close watch on near expiry stock details are the need of the hour.

After D Pharm many candidates work as community pharmacists and knowledge of software used in pharmacy + accountancy skills are very much required. Hence this program was organized to give the students a first-hand exposure to automating tasks to expedite adoption of digitization which will bring in customer satisfaction and supply chain management, noted Prof. Joshi.

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Sri Adichunchangiri College of Pharmacy

"WORLD CANCER DAY 2022"
Theme:
"CLOSE THE CARE GAP"
Everyone Deserves An Access To Cancer Care

Date: 4 -Feb -2022 @ 12:00 Noon
Platform: Microsoft Teams

SPEAKER
Dr. Priyank Tripathi
Clinical Pharmacologist and Manager
Department of Clinical Pharmacology,
HCG Speciality Centre, Bengaluru
(Alumni-SACCP)

Organised by
DEPARTMENT OF PHARMACY PRACTICE
SACCP, ACU

All Are Cordially Invited To Join The Webinar

WORLD CANCER DAY 2022

Department of Pharmacy Practice, Sri Adichunchangiri College of Pharmacy, Adichunchangiri University, BG Nagar, had organized a webinar on WORLD CANCER DAY 2022 on 4th February 2022 at college auditorium 'Yuvalaya'. The Resource Person was Dr. Priyank Tripathi, Clinical pharmacologist and manager, Department of clinical pharmacology, HCG Speciality Centre, Bengaluru. Apart from the students been joined the meeting via online link, the session was lively broadcasted at Yuvalaya for students as well. The session highlighted on the theme "CLOSE THE CARE GAP" focussing on accessibility of cancer care for everyone. The session was attended by nearly 170 students.



|| ज्ञानं शान्तिदत्तम् ||

Sri Adichunchangiri College of Pharmacy

Adichunchangiri Center for Entrepreneurs (ACE)

Presents

STARTUP IDEA VALIDATION

on
18th February 2022 @ 3:00 pm to 4:00 pm

by
ARHTANAYA SOLUTIONS
an ACE INCUBATEE

In association with
CORMIL, CMPAT, ACE, IIC, OPEX

Venue: Yuvalaya, SACCP
B.G. Nagara

Join & Add value

Adichunchangiri University Incubation cell, "Adichunchangiri Centre for Entrepreneurs (ACE)" is launched its debut Startup Idea Validation Program by Sri Adichunchangiri College of Pharmacy budding Entrepreneurs on 18th February 2022. The B Pharm students and Pharm D students were participated in this event

field Visit

First year students of Diploma in Pharmacy from Sri Adichunchanagiri College of Pharmacy, Adichunchanagiri University conducted one day field visit at ACU- Garbage Treatment Plant, Sewage Treatment, Bio- medical Waste Treatment Plant. B G Nagara, along with Class teacher Noor Ul Ain & subject teachers Mr Renukaradhya Chitti & Dr. Shiv kumar Yadav on 15th February 2022 to explore and familiarize a field visit facility to carry out their research work effectively.

Sewage Treatment Plant: Sewage treatment is a type of waste water treatment which aims to remove contaminants from sewage to produce an effluent that is suitable for discharge to the surrounding environment or an intended reuse application, thereby preventing water pollution from raw sewage discharges. Environmental concerns: Water pollution, Environmental health, public health, sewage sludge disposal issues.

Bio- medical Waste Treatment Plant: A Common Bio-medical Waste Treatment Facility (CBWTF) is a set up where biomedical waste, generated from a number of healthcare units, is imparted necessary treatment to reduce adverse effects that this waste may pose. The treated waste may finally be sent for disposal in a landfill or for recycling purposes.

Nearly 57 students attended the field visits program and it helped the students to clear the apprehensions about their career to an extent. Under the guidelines of Mr. Arunkumar and Mr. Kirankumar, his team Explained in detailed and demonstrated equipment's- Garbage Treatment Plant, Sewage Treatment, Bio- medical Waste Treatment Plant etc.



ESPERANZA



ADICHUNCHANAGIRI
UNIVERSITY

Fiesta

2022

Fresher's Party is to welcome new students in a friendly atmosphere and to encourage their creative impulses to boost their confidence. It is the day where seniors and juniors finally bond and unite to celebrate being part of the college. Students of First Year -D Pharm/B. Pharm/Pharm D and M. Pharm were welcomed by 5th Pharm. D students and complemented by students of other courses at Sri Adichunchanagiri college of Pharmacy, Adichunchanagiri University, BG Nagar on 25th February 2022. The fresher's program **"ESPERANZA FIESTA 2022"** began with lamp lightening and inaugural speech by beloved Principal, HOD's and Principal of BGS model public school, Mrs. Kusuma. Freshers along with their seniors got a chance to showcase their talent by a stunning Ramp walk, various Dance performances like solo, Duo, Group dances followed by small games to make the function trickier and fun! Based on the results of ramp walk and questionnaire to short listed participants, Mr and Ms SACC were announced. Nearly 500 students, teaching and non-teaching staff attended the event.





Sree Siddaganga College of Pharmacy (SSCP), Tumakuru



In association with Primary Health Care Centre (PHC), Kyathsandra, Tumakuru Sree Siddaganga College of Pharmacy (SSCP), Tumakuru actively participated in the Nationwide Pulse Polio Programme for children below the age of 5 from 27th February 2022 to 02nd March 2022. Around 25 Pharm D students of Sree Siddaganga College of Pharmacy had volunteered and worked efficiently to complete the vaccination drive in the localities of Kyathsandra. On day 1, the vaccination drive was carried out in various booths in Kyathsandra area. Day 2 to 4, our students visited house to house for vaccinating children who had missed the dose on first day. Nearly 5000 houses were covered in this programme and approximately 1500 children were vaccinated. Dr. Suresh V Kulkarni Principal, and faculties from Department of Pharmacy Practice Mr. Ravinandan A P, Dr. Mohammed Mustafa G, Dr. Srirangam Anusha and Dr. Prizvan Lawrence D Souza also guided and supported the students for successful completion of the programme. All the volunteers were enthusiastically involved with lot of zest and explained the significance of vaccination to parents and public. The entire programme was supervised by Mr. Ravinandan A P, Assistant Professor.





Farooqia College of Pharmacy Mysuru

Freshers' DAY

Celebration



Fresher's Day Celebration for Newly Joined students of DPharm, BPharm, PharmD & PharmD (PB) of FCP was conducted on 22nd Mar -2022. The Chief Guests Dr.M.D Karvekar, Professor Emeritus, RGUHS & Former EC-Member, Pharmacy Council of India.

The Chief Guest addressed the Fresher's about the Important Role of Pharmacists and their Responsibilities toward the society. During this function Text books written by our Principal Dr. M.P Bhagat and Professor Dr. Zeeshan Afsar & Rajendra Prasad was released.

Meritorious achievers & class toppers were felicitated by presenting them the Memento's and certificates. The Journey has begun to our young Pharmacists as a member of Farooqia celebrating the day with cultural programmes. We wish them all with Good Luck and Happy academic Journey @Farooqia College of Pharmacy, Mysore

There were around 500 students were present





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Quiz

RIDDLES

RULES

1. Correct answers will be rewarded 2 point each (12 marks)
2. Answer of the quiz will be evaluated by panel of judges and their decision is final. (Max mark:12)
3. Those who get the highest marks, their photo will be published in our next bulletin and also a cash prize of Rs.500/- will be rewarded to them
4. The answer must be sent within 25th April 2022 to this E Mail ID- krpaindia@gmail.com
5. A confirmation mail will be sent to you on receiving your e-mail.

1. My US and UK names differ
Those bothered by sulfa may suffer
I'm sequestered at the site of action
Weight gain is my adverse reaction

2. I'm polypeptide in nature
Sourced from a poisonous creature
I mimic the gut hormone in action
Pancreatitis my serious reaction

3. I got into the limelight by
Modulating gene expression
But peripheral edema
Created a bad first impression
Raised liver enzymes just
Added fuel to the flame
Cardiovascular events
On the increase made me lame

4. I am extracted from a goat's rue
After just one months' therapy,
My benefit is due
Anorexia is my beneficial side-effect
Dose division will lesse
My main adverse effect

5. Named after my structural modification
A common metabolic
Disorder my indication
I'm very rapid in action
And least variable in absorption

6. Born in 19th century for gout
But later served a different bout
Tiny in structure; tardy in action
Hypothyroidism and
Tremor my adverse reactions

Congratulations

to the winner of *Twenty Fourth Edition*
KRPA Quiz Competition



Mr. Prashanth L. Naik
6th Pharm D
Sarada Vilas College of Pharmacy



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INSPIRATIONAL PHARMACIST

Joseph T. DiPiro

Pioneer of Pharmacy Practice



"For me the role of a leader is as a servant leader".

We're all well versed with the most popular and well known book on the shelves of academia in the Pharmacy department, "Pharmacotherapy: A Pathophysiologic Approach and Encyclopedia of Clinical Pharmacy" popular among the students as "DiPiro".

Joseph T. DiPiro, is a contemporary visionary on modern clinical practice. Implementation of clinical pharmacy norms in hospitals

DiPiro received his Bachelor of Science degree in Pharmacy from the University of Connecticut and Doctor of Pharmacy from the University of Kentucky. He completed a residency at the University of Kentucky Medical Center and a fellowship in clinical immunology at Johns Hopkins University.

DiPiro started his first job in pharmacy about 50 years ago in his small hometown hospital pharmacy and his opinion regarding pharmacy in a nutshell is that the field is very versatile. There are many careers in pharmacy for everyone who enjoys face to face caring for people. There's certainly a lot of opportunities to do that in community pharmacy and in health systems and in clinics and some pharmacists are on business and administrative side while others focus on technology or informatics".

He has published an outstanding number of more than 200 journal papers, books, book chapters, and editorials during his career in academia.

Notable achievements-

- + In 2002, AACP selected Dr. DiPiro for the Robert K. Chalmers Distinguished Educator Award.
- + He received the Russell R. Miller Literature Award and the Education Award from ACCP
- + He received the Award for Sustained Contributions to the Literature from ASHP
- + In 2013, was named the national Rho Chi Distinguished Lecturer.
- + He was also elected a fellow in the American Association for the Advancement of Science.
- + DiPiro was also The 2016-2017 president of the American Association of Colleges of Pharmacy (AACP)

Sir DiPiro is an inspiration to all as he balances his work life well with his personal life. He's passionate about running and cycling, having run a total of 15 marathons. He is also a writer and an avid reader of fiction and non-fiction works. He's an adamant supporter of women empowerment as showcased through his support for the women's basketball team

Ms. Ayemen Fatima
Pharm.D, 4th Year,
JSSCP, Mysore



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