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Pharmacists @ UAE and Oman

my
Travel
Diary

Indian pharmacists at UAE: Dubai, Sharjah and Ajman, & Oman, have hit pay dirt! Over the decades, hundreds of pharmacists mainly from Kerala are having pharmacy chains or employed as productive employees at established pharmacies. Still others are doing great as pharmacists in marketing and business development at pharmaceutical companies operating in UAE and Oman.

When I say 'marketing pharmacist of Dubai', the image of my classmate and well-wisher, Mr. Arun D Souza comes to my mind as an example of a successful sales and marketing pharmacist. And so is my senior, R K Rao who over the years has become a very seasoned business development professional at Himalaya, Dubai-UAE. I am sure there are many such pharmacist personnel in Gulf areas, who serve as role models to young and budding pharmacists



Heartwarming moments: In the company of Arun D Souza at Dubai (by the way, It is Arun's family BMW car; I am only posing in front!)

Arun D Souza in fact drove all the way from Abu Dhabi to meet us at Dubai and spend an evening: great gesture, thanks, Arun!

Another mature, golden hearted and very professional leader pharmacist is Mr. Shahid Kamal, Managing Director, Ritemed, Dubai. Mr. Shahid hails from North India, and is now actively working to contribute from Dubai to the world of pharma. Mr. Shahid has established Ritemed, an upcoming pharmaceutical company focusing on distribution and product promotion in UAE. It was a joy to share professional moments with Mr. Shahid.

Mr. Shahid, the marketing pharmacist leader

Mr. Shahid's team has young pharmacists like Faisal and Nizar, working in pharmaceutical marketing. Of course, these marketing pharmacist examples are from my sphere of contacts, there are surely many more such upcoming marketing pharmacists Indians, in UAE.

There is golden opportunity for pharmacists in every sphere of pharmaceutical sector, we need to dynamically stay committed to the learning zone, and then continuous improvement will be an automatic part of our life!

Pharmacists have an edge in pharmaceutical marketing, since B Pharm guys are exposed to pharmaceutical concepts and the technical jargon are easily used by pharmacists in communication to doctors and pharmacists. The core of pharmaceutical marketing is technical: with emphasis on pharmacology, clinical pharmacy and pharmaceuticals. The day is not far off, when Pharm D professionals will start to make their mark in pharmaceutical marketing. The marketing pharmacists in API and excipient industry use a lot of pharmaceutical chemistry concepts.



One needs to be marketing savvy for two reasons:

- (a) Marketing is an organizational process and not just a departmental one. Marketing as a discipline needs to be practiced by one and all
- (b) Marketing jobs are always more in number compared to manufacturing, R and D or any other department.

Pharmaceutical marketing is a royal profession like that of teaching: pharmaceutical marketers need to be intellectual and at the same time SOP oriented. Pharmacists can brace up to marketing jobs through improvement of communication learnings and an MBA, to help get the business perspective. The part-time MBA is also a very good option since it helps to have practical touch and learnings going together.

Oman is very different from UAE. Oman is a rocky dry terrain, with sand yet more greenery. And Oman is full of yellowish rocky hills. Oman is a place of distances since development is dispersed across the nation. While UAE is a vertical nation, everything is concentrated in Dubai and Abu Dhabi and at other urban centers like Sharjah and nearby Ajman. UAE has tall structures (like Burj Khalifa) and Oman has wider buildings. And both are well established areas for pharmacists from India to learn, earn and contribute.

Mr. Mohammed Munzir, Business Development Manager, Delta Pharmacy, Oman, is a Malyalee (like many pharmacists of Oman). He is an example of a very feisty and energetic champion pharmacist in Oman pharma marketing sector, his range of contacts, and knowledge is admirable. Being from the Ranbaxy sales background, Mr. Munzir has developed keen marketing discipline and has high marketing sense. I have seen that marketing discipline is ingrained in Ranbaxy field marketing folk (of course, Ranbaxy is now no more there, as Sun Pharmaceutical Industries has purchased Ranbaxy).

Across the Gulf, pharmacists are highly regarded healthcare professionals. Pharmacists have a great say in sales of pharmaceutical and nutraceutical products. As in Qatar, pharmacists are called by title 'doctor' example: Dr. Prashanth and all pharmacists wear their white aprons when at work. This creates the impact and trust building. The pharmacist's professional apron is vital for identity and status building. They are seen as influential healthcare professionals. We in India should learn the importance of wearing the pharmacist apron. It is advisable for all retail, community, clinical and hospital pharmacists to wear the white professional apron with pride and commit to lifelong professional learning.

It is a matter of joy to behold the transformation of our college senior Mr. Nagesh Shetty – our college being JSS College of Pharmacy, Mysuru. From being a shy topper of his B Pharm class to a very savvy product development pharmaceutical specialist at Oman Hygienic Products company, it is a success journey for him. Mr. Nagesh Shetty has mastered product development and is a multifarious pharma personality who has expertise in oral dissolving films, topical formulations, disinfectants and even brake and engine fluids! Yes, he is now not just an artful multifarious product innovator, Nagesh Shetty is outgoing, assertive and a robust personality who is involved in the Indian community activities of Oman. The metamorphosis of Nagesh Shetty from being a quiet and studious guy in college, to an assertive gung ho personality is a great transformation, and his success profile is very inspiring. Thanks a lot Nagesh Shetty for the unforgettable car ride on Friday (1.7.2022) and your wholehearted hospitality.



By working, earning and learning, adaptive pharmacists like Shahid, Munzir, Nagesh Shetty and Arun D Souza, are contributing to the Indian presence in global pharmaceutical sector - and at same time strengthening the nation's soft power, further, their personal investments in India is a major giving back to India. It is good for pharmacists to aim for a 'glocal career'.

my Travel Diary

Pharmacist earnings

Today, pharmacists in Oman, at the start earn about 600 to 1000 Omani Riyals either in community pharmacy or as medical representatives. With experience and depending on employer profile there are pharmacists at higher positions who earn upto 3000 Omani Riyals. One Oman Riyal is about Rs. 200. Oman Riyal is divided into paisas. 1000 paisas make One Omani Riyal. In a small joint called Uncle Bun, run by a Malyali, on the outskirts of Muscat, two colleagues and myself had a hearty meal of Kerala parathas, sides, a meat dish, and soft drinks - all for about just, 1 Omani Riyal.

Some pharma marketers like Delta Pharmacy gives a car to the medical representative as part of the package, to facilitate work. In fact, Delta Pharmacy even helps employees with a rented accommodation if required. Other pharma companies expect the MR to own his car. It is possible for a couple to live comfortably, with about 400 Omani Riyals per month.

In Dubai, pharmacist medical representative salaries vary from 6000 UAE Dirhams to 22000 UAE Dirhams depending on profile of MR and company. It is possible for a young couple to live with about 4000 UAE Dirhams per month, in relative comfort. These days most working professionals stay at Sharjah or Ajman and commute to Dubai or elsewhere for their job, since housing is more economical in Sharjah or Ajman. Dubai, Sharjah and Ajman (DSA) are considered one metropolitan area.

Group Pharmaceuticals @ UAE: Dubai, Sharjah, Ajman and Oman

Oral care expert firm Group Pharmaceuticals is getting a good foothold for their products in UAE: Dubai, Sharjah, Ajman and Oman, thanks to the support of dentists and pharmacists of these places. Being mostly Indian, the dentists and pharmacists are well aware of the product range through their Indian experience, hence, establishment of Group Pharmaceuticals product range is facilitated.

With merchandise export companies facilitating globalization of pharmaceutical SMEs, the fillip to Indian pharmaceutical sector is evident. In this interconnected world, a 'glocal vision' of the Indian pharmacist and Indian pharmaceutical sector is inevitable.

Pix of the day during Dubai field work:

During my field work at Dubai, I found this poster of a missing sparrow (pet) on a wall!



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Therapeutic Applications of Ultrasound

Introduction

Ultrasound (US) is a form of mechanical energy (not electrical), and therefore, strictly speaking, not really electrotherapy at all, but does fall into the Electro Physical Agents grouping. Mechanical vibration at increasing frequencies is known as Sound Energy. The normal human sound range is from 16 Hz to something approaching 15–20,000 Hz (in children and young adults). Beyond this upper limit, the mechanical vibration is known as ultrasound. The frequencies used in therapy are typically between 1.0 and 3.0 MHz (1 MHz = 1 million cycles per second).

Ultrasound has seen development not only as a diagnostic imaging modality but as a therapeutic modality in which energy is deposited in tissue to induce various biological effects. Medical uses of ultrasound for therapy began to be explored in the 1930s. Early applications were tried for various conditions using the mechanism of tissue heating. Over the following decades, scientific advances allowed improved methods for effective treatment of Meniere's disease by destruction of the vestibular nerve, and of Parkinson's disease using focused ultrasound for localized tissue destruction in the brain.

By the 1970's, the use of therapeutic ultrasound was established for physiotherapy, and research continued on more difficult applications in neurosurgery, and for cancer treatment. Subsequently, the development of therapeutic ultrasound has accelerated with a wide range of methods now in use. The potent application of ultrasound for therapeutic efficacy also carries the risk of unintentional adverse bioeffects which can lead to significant, even life-threatening patient injury. Therefore, standardization, ultrasound dosimetry, benefits assurance and side-effects risk minimization must be carefully considered to insure an optimal outcome for the patient.

What Is Ultrasound Therapy?

Ultrasound therapy uses sound waves generated by a transducer head (which looks a bit like a microphone) to penetrate soft tissues. The transmission of sound waves causes microscopic vibrations in deep tissue molecules, increasing heat and friction. The warming effect encourages healing in soft tissues by increasing metabolism at the cellular level.

How Does Ultrasound Work?

Inside your physical therapist's ultrasound unit is a small crystal. When an electrical charge hits this crystal, it vibrates rapidly, creating piezoelectric waves (an electric charge that accumulates in some solid materials). These waves emit from the ultrasound sound head as ultrasound waves. During treatment, the ultrasound wave then enters your injured tissues. This exposure to ultrasonic waves increases blood flow and cavitation, leading to the theorized benefits of the treatment.

Is Ultrasound Therapy Safe?

Ultrasound therapy should be performed by a licensed therapist, and they need to keep the transducer head moving at all times. If the transducer head remains in one place for too long, there is a potential to burn the tissues underneath, which you may or may not feel.

Ultrasound therapy should not be used on these body parts or regions:

- Any region during pregnancy
- Over lesions, broken skin, or healing fractures
- Around the eyes, heart, or sexual organs
- Over any areas with implanted medical devices
- Over or near areas with malignant tumors
- Over areas with impaired sensations or blood flow
- Additionally, it should not be used on people who have pacemakers.

There is no doubt that continued biophysical discoveries in ultrasound will lead to new treatments and applications. As therapeutic ultrasound's renaissance continues, new treatments already well established in the laboratory will be translated in the near future to the clinic. The benefits and potential risks associated with different therapeutic ultrasound methods vary widely and should be appreciated by the operator. Furthermore, in order to assure optimum patient benefit from therapeutic ultrasound, dedicated research should continually pursue better and safer methods to enhance present therapies and therapy monitoring.

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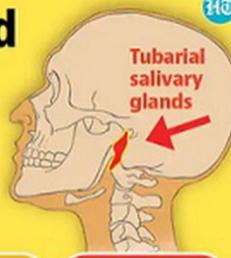
Tubarial Glands

A new tiny organ

A new pair of salivary glands was found hidden between the nasal cavity and throat. The discovery was done on September 2020 while examining the patients suffering from neck, head and prostate cancer. During a new kind of scan i.e., PSMA scan of these people, doctors received complaints of xerostomia (dry mouth) and dysphagia (difficulty in swallowing). Earlier it was considered that these symptoms were side effects of radiation therapy, but according to the recent invention and studies it is taken into consideration that excluding the pair of Tubarial glands from radiation therapy can resolve the issue of xerostomia and dysphagia.

An unexpected discovery

Scientists stumbled on a previously unknown set of salivary glands while studying prostate cancer



The new organ is set deep in the upper part of the throat, behind the nose

The organ is a set of salivary glands, about 1.5 inches in length on average

It is believed to lubricate and moisten the upper throat, the researchers wrote

There is no doubt that continued biophysical discoveries in ultrasound will lead to new treatments and applications. As therapeutic ultrasound's renaissance continues, new treatments already well established in the laboratory will be translated in the near future to the clinic. The benefits and

potential risks associated with different therapeutic ultrasound methods vary widely and should be appreciated by the operator. Furthermore, in order to assure optimum patient benefit from therapeutic ultrasound, dedicated research should continually pursue better and safer methods to enhance present therapies and therapy monitoring.

The research was carried out by the Netherland Cancer Institute. The University of Amsterdam scanned 100 patients ranging from the age 53 -84 also by dissections of two human cadavers and radio imaging in one healthy volunteer. Depending on their anatomical location the pair of glands was named as 'Tubarial'. The function of the gland is assumed to moisten and lubricate the nasopharynx and oropharynx. It is found to be located in the torus tubarius, a section in the nasopharynx-the upper portion of the throat. No evidence is found to claim that salivary and tubarial glands are similar.

The part of this discovery was put for a debate were whether to consider these pair as a separate organ, or a new part of the organ system or a conglomerate of minor glands or major glands. All these questions are raised on the novelty of Tubarial gland (3.9 cm) structurediscovered, it also has given rise on which case requires exclusion of these glands from radiation therapy to improve the quality of life of the patient after treatment. If it is possible then how, why it was hidden these many years? Was it ignored till now? Questions infinite! Answers limited!!!! The adventure continues!!!!

ಮೌನದ ಷೆಜೆ

ಹಕ್ಕಿಯೊಂದು ಹಾರಿತು ಗಗನ ಚುಂಬಲು ಸ್ವಚಂದದಿಂದ
ಬಾಣ ಒಂದು ಕುಕ್ಕಿತು
ಭೂಮಿಗೆ ಚಡಪಡಿಸುತ್ತಾ ಬಿದ್ದಿತು
ಮೀನು ಈಜಾಡುತ್ತಿದೆ ನದಿ ಯಲ್ಲ ಅತ್ತಿಂದಿತ್ತಾ
ಜಾಲದಲ್ಲ ಸಿಲುಕಿಕೊಂಡಿತು
ಬಂದು ಬುಟ್ಟಿಗೆ ಸೇರಿತು
ಹೂ ಒಂದು ಹರಳಿತು ಉದ್ಯಾನದಲ್ಲ
ಪಸರಿಸಿತು ಅದರ ಸುಗಂಧ ಪರಿಸರದಲ್ಲ
ಮಗು ಬಂದು ಕಿತ್ತಿತು, ನೆಲಕ್ಕೆ ಒಮ್ಮೆಲೇ ಬಿಸಾಡಿತು
ಜಿಂಕೆ ಓಡುತ್ತಾ, ಕೆರೆಯ ದಾಟಿತ್ತು
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ವನದ ಕಡೆಗೆ ಓಡಿತು
ಹಾಮ ತಲೆ ಎತ್ತಿತು ತನ್ನ ಬಿಲದಿಂದ
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ಚಿಟ್ಟೆ ಆಕರ್ಷಿಸಿತು ಬೆಳಕಿನ ಕಡೆ
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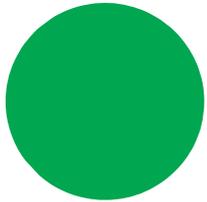
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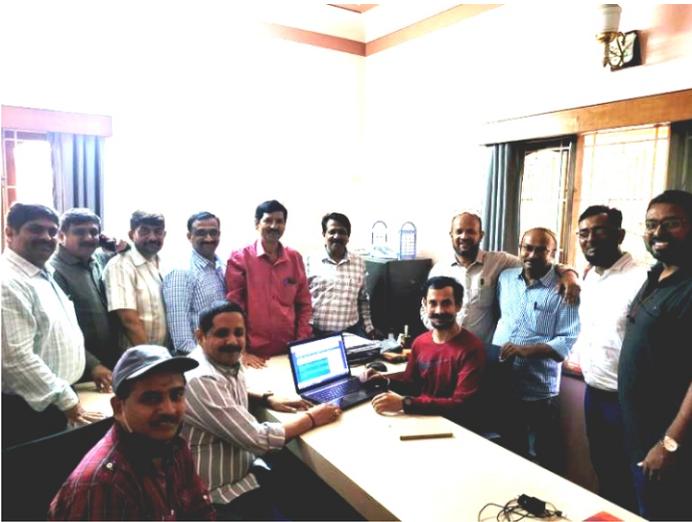
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GO TO EVENTS



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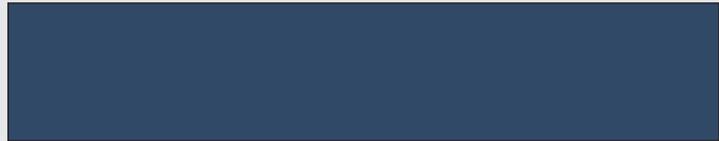
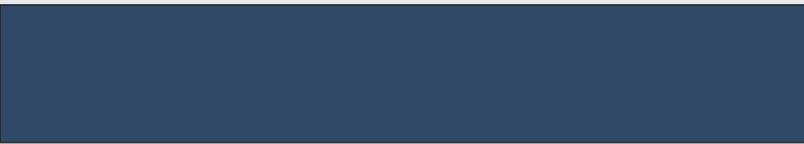
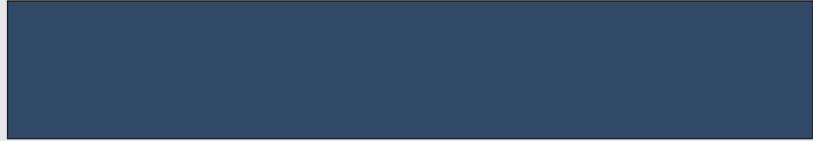




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Press Meet

we thanked and hounred MLC Srikantegowdru sir for raising our voice in Vidana parishat abt KSPC Election which was pending from 19 years and starting the Election process.



For being the voice of Pharmacists once again we thank you sir.





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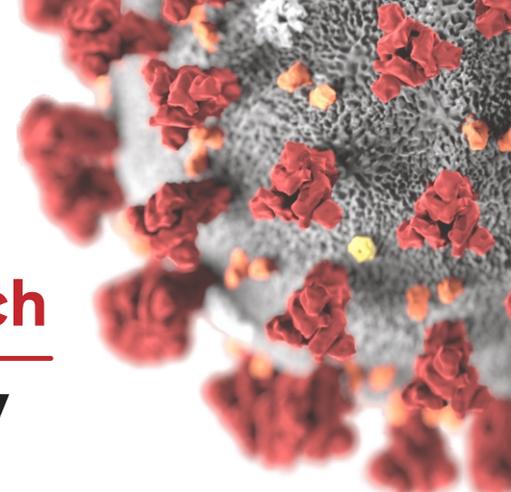
On the occasion of World environment Day, I had got the opportunity to represent our pharmacists Association and spoke on the waste to value mission. The role of pharmacists on unused and expiry medicine. It was coz of 'Swachatha Sarathi Fellowship' that we had got. It was my 1st experience with Radio station. Thanks.



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On 5th June 2022, a digital awareness drive was initiated on the theme of 'Only one earth' on the eve of World Environment Day-2022. Leaflets were circulated on social media platforms for the awareness about the environment among all social groups.



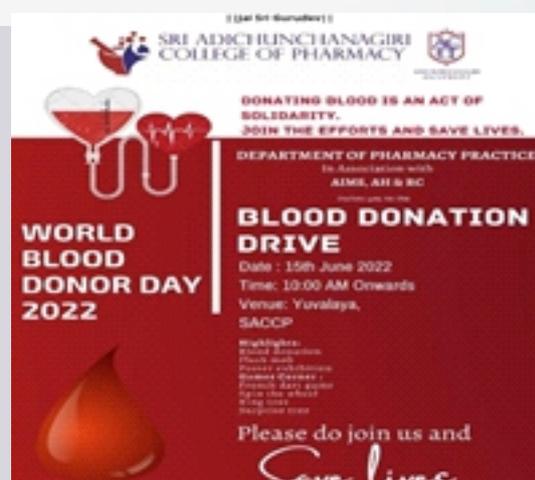
On 6th June 2022, AICTE, Ministry of Education, launched a new scheme named as "ABCDEFGHI" in collaboration with multi-National companies, EdTech companies & Start-ups, with the vision of teaching ABCDEFGHI once again to our higher education students and recent graduates in a quite different aspect which is 38 future emerging technologies like Artificial

Intelligence, Block Chain, Data Analytics, Cyber Security and many more relevant fields under Digital Skilling up program. This programme has the Goal of Empowering 10 crore School Students, Higher Education students and recent graduates to access industry-aligned courses for skilling and upskilling key for Aatm-Nirbhar Bharat. The event was live streamed through YouTube at Yuvalaya auditorium, nearly 80 students of VIII Sem B Pharm course attended the program.

15 Pharm. D Students from Department of Pharmacy Practice, attended the Mega Health Camp organized by Adichunchanagiri Hospital & Research Centre on 10th June 2022 at Turuvekere, Tumkur dist. Karnataka.

The various departments of AH&RC unitedly worked for the successful conduct of Mega camp wherein nearly 9000 people attended. The students from SACCP were actively involved in dispensing and patient counselling.

Department of Pharmacy Practice, conducted "Blood Donation Drive" on 15th May 2022 in association with AIMS, AH & RC and NSS (SACCP unit). The program started with FLASHMOB, performance by B. Pharm and Pharm. D students. Dr M G Shivaramu, (Principal, AIMS & Dean, Health Sciences (Medical), ACU), Dr. B. G Sagar (Medical Superintendent, AH & RC) Mr. Umesh B.K (Registrar, AIMS), and Dr. B. Ramesh (Principal, SACCP & Dean, Health Sciences (Pharmacy), ACU) inaugurated the event. The programme was overwhelmed with the esteemed presence of various dignitaries from ACU University, AIMS and AH&RC. A poster exhibition was conducted to create awareness about importance of blood donation among the students. Around 76 students volunteered to donate blood to the Blood Bank of AH & RC. Out of which 50 have donated blood after meeting the inclusion criteria. The donors were honoured with donor's certificate and tokens of gratitude and also data was collected from the interested volunteers which will be compiled and given to Blood bank, AH & RC to meet the future demands for blood. Various games were organised to entertain the students and faculties. The event was a grand success leaving behind a moral example to the society and mankind.



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Geneglim[®] $\frac{M1}{M2}$

Glimpiride 1 mg / 2 mg + Metformin 500 mg SR Tablet

Geneglim[®] $\frac{M1 Forte}{M2 Forte}$

Glimpiride 1 mg / 2 mg + Metformin 1000 mg SR Tablet

Geneglim-[®] $\frac{MP1}{MP2}$

Glimpiride 1 mg / 2 mg + Metformin 500 mg
+ Pioglitazone 15 mg Tablet

DIABETIC PORTFOLIO





INAUGURATION OF JSSAHER - KSCST IPR Cell.



The JSS Academy of Higher Education and Research, Mysuru in association with the Karnataka State Council for Science and Technology (KSCST) has established an Intellectual Property Rights (IPR) Cell was inaugurated on the 23rd of June 2022 at the Board Room, JSS Medical College, Mysuru.

The objectives of the IPR Cell are to strengthen and expand human resources and institutions for training, research, and skill building in Intellectual Property (IP), to raise awareness about IP, catalyse commercialization of IP, and to promote respect for IP rights. This would be a unique cell as the focus of this IPR cell at JSS AHER would be on innovations, IPR and commercialization in the health sciences sector, medical devices, and patient care.

The Chief guest of the event Prof. K S Rangappa, Former Vice Chancellor, University of Mysore, highlighted the importance of scientific research and outcomes in terms of IPR wherein he cited his own example of how out of the 7000 molecules that he worked on, he could patent 12 products and 2 of these have been commercialized which are generating revenue for the IPR cell of the University of Mysore. The event was graced by Dr. G. Hemantha Kumar, Vice Chancellor of University of Mysore who emphasized the importance of IPR in the academic institutions. Sri H Hemanth Kumar, Executive Secretary, KSCST, Bengaluru, delivered the keynote address and appreciated the efforts of JSSAHER in health science research and innovation.

The Inaugural program was presided by Dr. Surinder Singh, Vice Chancellor of JSS AHER who in his presidential speech mentioned how India became the pharmacy of the world citing incidents from the 1970's when India was importing majority of the drugs and how the IPR policy of India helped the establishment of Pharmaceutical companies in India making our country as a Pharmaceutical giant in the World. Dr. Manjunatha B, Registrar, JSS AHER, Dr. Prashant Vishwanath, Director (Research) JSS AHER, Mysuru, Dr. S. Chandra Nayak, Coordinator, Vijnana Bhavan, University of Mysore and Dr. Balamuralidhara V, Coordinator JSSAHER- KSCST IPR Cell were present along with the Deans, faculty and research scholars of JSS AHER. A Memorandum of Understanding (MoU) was signed between JSS Academy of Higher Education & Research and the Karnataka State Council for Science and Technology (KSCST) for the establishment of the JSS AHER- KSCST IPR cell.

The MoU will provide support to the IPR and its related activities and benefit all the academic institutions in Mysore who can avail the services related to IPR through this cell established at JSS AHER.



REPORT

“Report all the suspected adverse drug reactions or side effects to Adverse Drug Monitoring Centre near to your place”

Adverse Drug Monitoring Centre (AMC), Siddaganga Medical College and Research Institute in association with Department of Pharmacy Practice, Sree Siddaganga College of Pharmacy inaugurated the AMC, SMCRI and organized a one-day National level workshop on “Hands on Training on Pharmacovigilance” on 10th June 2022. The chief guests for this event were Dr. Rishma Abraham, Sr. Drug Safety Specialist, Covance LabCorp and Dr. Sanatkumar B Nyamagoud, Assistant Professor and AMC Coordinator, KLE College of Pharmacy, Hubballi, Karnataka

The workshop was inaugurated by watering the plant by Dr. Shalini M, Principal, SMCRI; Dr. Niranjana Murthy B, Medical Superintendent, SMCRI; Dr. Suresh V Kulkarni, Principal, SSCP and they also addressed the gathering on the importance of safety reporting and AMC roles and responsibilities. The AMC members were introduced and their appointment letters were handed. First issues of 'Pharmacovigilance periodicals' was released along with various ADR Documentation Form.

Dr. Rishma Abraham spoke on the insight of “Pharmacovigilance – A Process Overview”, while Dr. Sanatkumar B Nyamagoud spoke on the “Basics of Pharmacovigilance” and trained the participants on the use of Vigiflow Database. Dr. Mohammed Mustafa, Assistant Professor, Sree Siddaganga College of Pharmacy spoke on the “Causality Assessment of ADR using Case Based Analysis”. Around 200 delegates were attended from various Pharmacy and Medical Colleges of Karnataka. The entire event was co-ordinated by Mr. Ravinandan A P, Chief Coordinator, AMC. SMCRI and Dr. Kavya H B, & Dr. Prashanth D Deputy Coordinators, AMC. SMCRI, Dr. Mohammed Mustafa, Dr. Shivaraj D R, Dr. Srirangam Anusha and Dr. Prizvan Lawrence D Souza

The workshop ended with the distribution of certificates, vote of thanks by Dr. Srirangam Anusha, and National Anthem



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RULES

1. Correct answers will be rewarded 2 point each (20 marks)
2. Answer of the quiz will be evaluated by panel of judges and their decision is final. (Max mark:20)
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 July 2022 to this E Mail ID- krpaindia@gmail.com
5. A confirmation mail will be sent to you on receiving your e-mail.

1. Hand, Foot, and Mouth is a?
 - a. Parts of body
 - b. Disease
 - c. Both a and b
 - d. None of the above
2. Which laxative is safe to take daily?
 - a. Castor oil
 - b. Senna
 - c. Biscodyl
 - d. None of the above
3. Drug of choice for productive cough is _____
 - a. Guaifenesin
 - b. Dextromethorphan
 - c. Cetirizine
 - d. All of the above
4. Solanum virginianum is
 - a. Vinca
 - b. Kantakari
 - c. Datura
 - d. None of the above
5. Hansen's disease managed by using?
 - a. Hydnocarpus wightianus
 - b. Rifampicin
 - c. Dapsone
 - d. Clofazimine
 - e. All of the above
 - f. None of the above
6. Iatrogenic disease means
 - a. Hospital acquired infections
 - b. Community acquired infections
 - c. Both a and b
 - d. None of the above
7. Drug of choice for Filariasis is _____
 - a. Diethyl carbamazine
 - b. Carbamazine
 - c. Albendazole
 - d. All of the above
8. Denosumab is used in the management of
 - a. Pernicious anaemia
 - b. Megaloblastic anaemia
 - c. osteoporosis
 - d. None of the above
9. Selenium Sulfide used in the preparation of
 - a. Facial creams
 - b. Antimalarial
 - c. Antidandruff
 - d. None of the above
10. Present President of Pharmacy Council of India is
 - a. Dr. B. Suresh
 - b. Dr. Montu M. Patel
 - c. Dr. T V Narayana
 - d. None of the above



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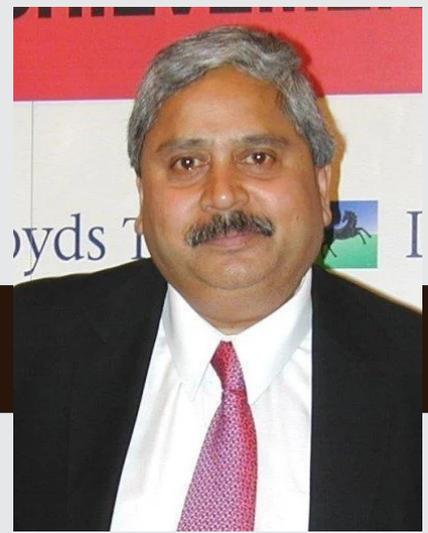
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INSPIRATIONAL PHARMACIST

NAVIN CHANDRA JAMNADAS ENGINEER

RICHEST PHARMACIST



Born on May 1951, is a British billionaire, the owner of Chemidex, A pharmaceutical company that he founded in 1981. His father worked for the Kenyan Civil service. In 1963 he was sent from Kenya to London to live with his aunt and later studied at London school of Pharmacy.

When Navin Engineer arrived in Britain in 1969 he was driven by. A burning desire to work for himself, in contrast to his father, who worked for years in the Kenyan civil service. He founded Chemidex with his wife Varsha. 'None of this would have been possible without her 'he says

Having sold its pharmacies, Chemidex is now a whole sale of both branded and generic medics, but not parallel-imported drugs. Navin Engineer's story demonstrates the possibilities ,even though his firm ,Chemidex is one of the few generic specialist that has not expanded into parallel importing .

Engineer chose to invest much of the proceeds in his much. Smaller wholesale business. He bought some small branded pharmaceuticals from big Pharma companies. Chemidex Pharma Ltd engages in licensing and marketing prescription pharmaceuticals. The company offers pharmaceutical products for therapeutic area which includes dermatology, gastroenterology ,neurology,psychiatry and allergy relief as well as offers ointments oral suspension and oral solution.

VISHAL VIJAYAN
PHARM-D INTERN
R.R COLLEGE OF PHARMACY,
BANGALORE

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