



KARNATAKA REGISTERED PHARMACISTS ASSOCIATION®

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It gives me an immense pleasure to write the PREFACE for KRPA's October month magazine. Congratulations to Dr. Kausik Devaraju & his team for this initiative. KRPA is always working for the upliftment of pharma profession by bringing all the stake holders to one platform. I would like to highlight my talk on the "roles played by the pharmacists during this pandemic".

The COVID-19 pandemic is a global health concern, which affected the healthcare practicing professions. Pharmacists are playing the key role during this pandemic. They are serving directly or indirectly to the community, continuing to care for patients suffering with chronic diseases at various levels around the world. At local and government levels, pharmacists are recognized for their significant contributions in the management and providing pharmaceutical care services to the COVID-19 patients. Roles and responsibilities of pharmacists extended and expanded to reach out the pharmacy services to needy alongside with the health care professionals. Pharmacists had an important role in taking actions to address during this COVID-19 pandemic, including drug information for healthcare professionals, patient counseling, suggestion for change in therapy, monitoring results report, drug supply management, safety measures for infection control and application of tools to evaluate a disease to monitor health of the patients. At community level, the role of the community pharmacist has extended beyond dispensing and supply of medications to more clinical roles (pharmaceutical care). The focus of community pharmacists is on the identification, prevention and resolution of medication therapy problems for clients/patients, especially those with chronic diseases including kidney and liver diseases. Under the various banners like NSS, IPA, PCI, and HFW, number of awareness programs were conducted and also free masks and sanitizers distributed. Few pharmacy institutions took extra initiatives to manufacture sanitizers and masks.

Clinical pharmacists took advantage of their pharmacology and therapeutic expertise to actively participate in the medical activities in COVID-19 hospitals. To guide physicians and to ensure the safe and efficacious use of these drugs, clinical pharmacists in collaboration with physicians draft treatment protocols and are in charge of developing the COVID-19 drug formulary at their hospitals. They collect evidence based drug information for the COVID-19 formulary drugs concerning indications, dosing, ADRs, drug-drug interactions, and other precautions. Often there are drug shortages and pharmacists assist physicians in selecting alternative medicines and adjusting the drug formulary accordingly. With the rapid development of COVID-19, new studies regarding drug therapy are published continuously. Clinical pharmacists are responsible for providing updates of treatment protocols. Pharmacists have contributed to improving public health in a variety of ways, including immunization, health promotion, health education, patient and medication counseling, medication reconciliation, disease self-management training, point-of-care testing, screening, and emergency preparedness and response in pandemic management. Finally, COVID-19 experience has the potential to reshape pharmacist's extended roles in chronic disease management globally for long-term in preparedness for any future pandemic and health crisis.

The world has realized the importance of pharmacists. Let's work together to be the change & bring the change. I wish KRPA to lead in every aspect of Professional growth. All the very BEST to KRPA & Team for future endeavors

Dr. Md Salahuddin
Principal
Farooqia College of Pharmacy





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Medication Errors, What are they?



Medication Errors, once known as, *diseases of medical progress* and 'noxious episodes' evolved into a vast, profound, inevitable, and ineluctable reality of

medication-based therapy. The cause of this evolution was the repercussions of the current medicalisation of diseases and has a dreadful effect on patients and medical staff alike.

Long before the words, medication error and patient safety came into existence, the term iatrogenesis has been widely known amongst the medical fraternity. This ancient word, iatrogenesis, is a combination of two Greek words, iatros (healer) and Genesis (to bring forth). Iatrogenesis is defined as the undesirable side-effects of medical interventions. Whereas, National Coordinating Council for Medication Error Reporting Programme (NCC MERP) defines a medication error as 'A medication error is any preventable event that may cause or lead to inappropriate medication use or patient harm while the medication is in the control of the health care professional, patient, or consumer'. Such events may be related to professional practice, health care products, procedures, and systems, including prescribing, order communication, product labelling, packaging, and nomenclature, compounding, dispensing, distribution, administration, education, monitoring, and use. While near misses are defined as an event, situation, or error that took place but was captured before reaching the patient.

Medication errors are common; yet, least discussed and is accountable for morbidity and mortality that could be potentially avoidable. The estimated global cost associated with medication errors alone is USD 42 billion annually, accounting for almost 1% of the total healthcare expenditure globally. The United States' National Academy of Medicines (NAM) [formerly known as Institute of Medicine (IoM)], in 2007 estimated an additional annual cost of \$3.5 billion for medication error harm of an estimated 1.5 million people annually.

In England alone, an estimated 712 deaths occur due to medication errors. According to the report funded by

the Department of Health and Social Care's policy research programme, an estimated 237 million medication errors occur in England each year, which occur at any given point, from prescribing and dispensing to administering and monitoring. Among the elderly population, 1 in 30 hospital admissions is related to an adverse drug event. Thirty per cent of patients have at least one medication discrepancy at the time of discharge and reports suggest that 24-33% of post-discharge errors are deemed preventable.

Pharmacists, as a member of the health care team, work collaboratively with patients and other healthcare providers in different settings ranging from community pharmacies to hospitals and long-term care facilities, where the pharmacists are regularly contributing to better patient safety. It is estimated that preventable medication errors affect more than 7 million patients annually and an estimated USD 21 billion cost is encountered.

The pharmacist's involvement has shown to reduce errors, improve prescribing practices and enhance patient monitoring and outcome. A cluster-randomised trial involving pharmacists in medication management planning on hospital admission showed a dramatic reduction in medication errors within the first 24 hours of hospitalization. A meta-analysis to study the effectiveness of pharmacist intervention to reduce medication errors and health-care resources utilization after transitions of care showed a 37% reduction in medication errors and a decrease in emergency department visits after hospital discharge.

A randomized controlled trial involving a pharmacist-led information technology intervention (PINCER) in primary care practices in the United Kingdom tested an intervention bundle comprised of review of electronic medical records, prescriber feedback, education on error reduction and support for improving local safety systems. After six months of follow-up following the intervention, patients experienced a substantially reduced frequency of clinically important prescription for example, beta-blocker in asthmatic patient and medication monitoring errors for example, ACE inhibitors use in an elderly patient without assessing the electrolytes, concluding that the PINCER intervention is an effective method for reduction in the medication errors in general practices with computerized clinical records. In our next letter, we will discuss how to identify, report and prevent medication errors.



Jehath M Syed

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JSS College of Pharmacy,
JSS AHER, Mysuru.



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World Pharmacist Day

A DELIGHT
AND PROUD
DAY FOR
ALL
PHARMACISTS



Every day has its significance to every individual and profession. But there are some special and significant days that are celebrated all over the world annually.

I feel proud to say that I am a 'PHARMACIST'. As a Pharmacist, it's my duty to celebrate World Pharmacists Day on September 25th every year. On this memorable day, I would like to share the significance of the Pharmacists Day along with this year's theme.

First, let us have a look at who started this? When did World Pharmacist Day start? The answer is through the "International Pharmaceutical Federation (FIP)". It is the global federation of national associations of Pharmacists and pharmaceutical Scientists from 127 member organizations. FIP is a non-profit federation, established in the year 1912 and its Head office is located in Hague, Netherlands.

Many pharmaceutical congresses are organised by FIP, one among that was the Congress in Istanbul, Turkey conducted in 2009. During this congress, the decision was taken to observe World Pharmacists Day with a meaningful theme on 25th September, annually. This year the theme was "Transforming Global Health". I sense it will be a new sight into the future. The theme is pertinent to the expanding role of pharmacists in all settings.

This COVID-19 pandemic opened a novel epoch for the pharmacist's role in transforming global health. Most of the people came to know that "A Doctor gives life to a patient by using medicines, but a pharmacist gives life to medicine by using his or her pharmaceutical knowledge and skills.

We the pharmacists should work hard during this COVID-19 pandemic, to increase our professional recognition in the society. In connection to the World Pharmacists Day, we can celebrate through anyone of the following events: conducting awareness rally, quiz, workshop/seminar/symposium, health and blood donation camp, health screening services, interview in the mass media and webinar, etc. This year's theme was decided to show how pharmacists contribute to a world where each one gets benefit to access safe, effective, quality and economic medicines and health technologies including pharmaceutical care services.

A pharmacist can reduce global health risk by

- Improving the quality of care
- Decrease health care cost
- Developing good professional liaison with doctors and nurses
- Offering patient counselling, education, drug information
- Engaging in clinical research

I appeal to all our pharmacist friends to shift from a dispenser to a care provider by adopting suitable technology and joining the hands in transforming global health. I once again wish a happy pharmacist day.

Mr. Ravinandan A P, M. Pharm, MBA, (Ph.D)
Doctoral Research Scholar & Assistant Professor
Sree Siddaganga College of Pharmacy, Tumkur, Karnataka
Email: ravinandanap@gmail.com



PHARMACISTS AND OCCUPATIONAL HAZARDS

Yes! The pharmacist faces the load of potential occupational or vocational hazards. The practicing retail or community, hospital pharmacist, and the marketing pharmacist – are all exposed to various types of risks in their practice. The hospital pharmacists and clinical pharmacists have a greater chance of nosocomial infection (hospital-acquired infection). The community pharmacist is exposed to allergens, germs and pollutants in his line of work. The marketing pharmacist may be exposed to all these: nosocomial infections, allergens, germs and pollutants! Pharmacists in the factories are potentially exposed to harmful chemicals. Academicians have the challenge of voice stress and mental stress. Student pharmacists are robust with the power of youth; however, misadventures, recklessness, and certain health susceptibilities are always round the corner. Thus, it is imperative pharmacists should pay attention to possible healthcare hazards and take preventive measures.

Definition of an occupational hazard

An occupational hazard is a disease that we get through our occupation. There are different types of occupational hazards or risks

Physical hazards. | Chemical hazards. | Biological hazards. | Radiological hazards. | Ergonomic hazards. | Behavioural hazards.

Stress and the pharmacist

As per a research in 2010, 41% of problems suffered by pharmacists are related to stress¹. The report even states suicidal thoughts too are high in healthcare workers including pharmacists – these silent suffering patients are called invisible patients. Stress is the feeling of inability to cope with a situation. Long working hours and tedious work conditions including standing for long hours and prolonged mental focus add to the stress. Hence, it is vital to have a healthy lifestyle with discipline in habits. Breathing exercises and taking things with a cool head shall help in self-management of mental stress. The other challenge is

non-acceptance of stress as a problem of pharmacists. Hence, many pharmacists do 'corridor consulting' or indulge in self-medication to avoid the stigma of having a mental issue. To prevent stress from snowballing to a major issue, it is vital to have a healthy lifestyle.

Ergonomic hazards

Ergonomic relates to designing with efficiency and comfort in the working environment. Using different types of equipment, travelling on bikes and such other interface activities challenge pharmacists – in their respective vocations. The improper placement of equipment or wrong type of use or cumbersome travel can impact the health of pharmacists negatively. These are ergonomic hazards.

Chemical and biological hazards

Exposure to chemicals in the manufacturing space, or toxins like prions, and pathogenic viruses or bacteria either through infected patients (example: asymptomatic Covid-19 patients coming to the pharmacy) or contaminated surfaces (fomite transmission) are routine occupational hazards of pharmacists. Therefore, taking precautions is vital for the well-being of pharmacists and his family.

Endnote:

The pharmacist is a key healthcare professional who is highly accessible to patients and healthcare consumers. A pharmacist can inform and help with preventive and therapeutic approaches for patient well-being. A pharmacist is also a key person for the development, manufacturing, marketing and right administration of drug therapy. Hence, it is essential for pharmacists in every sphere of activity to identify occupational hazards and do self-care.

Mr. Sunil S Chiplunkar

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VP – Business Development, Group Pharmaceuticals, Bangalore,
Email: 1969sunilchiplunkar@gmail.com



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EVENTS AND ACTIVITIES



Presents

INTERNATIONAL PUBLIC AND PHARMACIST WEBINAR
ALL ARE WELCOME! Very VITAL topic for you - get inspired !!

WORLD PHARMACIST DAY, TRANSFORMING GLOBAL HEALTH

on 26th Sep. (Saturday), 2020, @ 4.00 pm

E-CERTIFICATE WILL BE ISSUED TO ALL WHO REMAIN TILL END OF WEBINAR

Speaker 1: Mr. Anil Sachdeva M.Pharm
DIRECT LIVE FROM USA
Vice President, Head - Regulatory Affairs at Biocon,
USA has 26 years experience in big companies.
Talented film actor & musician.



Speaker 2: Mr. Sachin V M B.Pharm
DIRECT LIVE FROM NIGERIA
GM, Worldwide Healthcare Ltd, Lagos, Nigeria.



Closing remarks: Mr. Prashant A J M.Pharm
LIVE FROM QATAR
AL HILAL PHARMACY, Chief pharmacist
and sales manager



Moderator and co-speaker
Sri. Sunil S Chiplunkar
M.Pharm (Pharmacology) MBA (Marketing) PGDHRM (PhD)
Advisory Member, KRPA, Bangalore

Vote of thanks:
Dr. Kaushik Devaraju
M.Pharm PhD
President, KRPA

Link: <http://bit.ly/transformingglobalhealthpharmacist>

... you will have to fill your details and register, and to the email id given by you in the registration form,
you will get an attendee link, just click that and join us on 26.9.2020, Saturday, 4.00 pm...
don't forget it is on Saturday 26.9.2020 (4.00 pm)... pls forward to all your contacts

HOST:



Group Pharmaceuticals Ltd



Collaborator:

SOCIAL RESPONSIBILITY OF PHARMA PROFESSIONALS IN COVID-19 TIMES was another important webinar brought by KRPA & was held on 12.9.2020. Mr. N Raghavan, B Com MBA, D Pharm, the charismatic popular and philanthropist pharmacist proprietor of the iconic 75-year-old pharmacy: Raghulal and Company, Mysuru. He spoke on how the social duties of pharmacists can be executed in COVID-19 times. Practical experiences were shared. Webinar witnessed another eminent person Mr. Pramod Kumar, M.Pharm, faculty Sridevi College of Pharmacy, Mangalore. He emphasized on roles and responsibilities of pharmacist.

Prof. R Raveendra, HOD, Dept. of Pharmaceutical Chemistry, R.R. College of Pharmacy, Bangalore presented the closing remarks. The entire webinar was Moderated by Mr. Sunil S Chiplunkar M.Pharm (Pharmacology), MBA (Marketing) PGDHRM (PhD), Advisory Member, KRPA, Mysuru who was also the co-speaker. Dr. Kaushik Devaraju M.Pharm PhD, President, KRPA, Mysuru presented the vote of thanks.

This month World pharmacists day been celebrated with the theme **“Transforming Global Health”**.

Saturday 26.9.2020 at 4.00 pm, KRPA brought out **“The international public pharmacist webinar on WORLD PHARMACIST DAY”**. The webinar had speakers who are pharma stars -Mr. Anil Sachdeva (who is an international film star plus regulatory pharmacist) from the USA, and marketing pharma star from Nigeria Mr. Sachin V M. Both the speakers highlighted the issues of pharmacists. The Closing remarks was given by Mr. Prashanth A J, Chief Pharmacist from Qatar.

The entire webinar was Moderated by Mr. Sunil S Chiplunkar M.Pharm (Pharmacology), MBA (Marketing) PGDHRM (PhD), Advisory Member, KRPA, Mysuru who was also the co-speaker. Dr. Kaushik Devaraju M.Pharm PhD, President, KRPA, Mysuru presented the vote of thanks.



Presents

**A FREE WEBINAR FOR PUBLIC, PHARMACISTS,
DOCTORS, PARAMEDICAL PROFESSIONALS**

SOCIAL RESPONSIBILITY OF PHARMA PROFESSIONALS IN COVID-19 TIMES

on 12th (Saturday) July, 2020, @ 4.00 pm

E CERTIFICATE SHALL BE PROVIDED TO ALL WHO ATTEND THE ROUND TABLE MEETING

Speakers:

Mr. N Raghavan B.Com MBA D.Pharm
the charismatic popular and philanthropist pharmacist proprietor of
the iconic 75-year-old pharmacy: Raghulal and Company, Mysuru.
He shall speak to you on **“how the social duties of pharmacists can
be executed in Covid-19 times”**

Mr. Pramod Kumar M.Pharm
the academicians with a social touch! Launched the
Alaka Foundation - he shall speak to you from Mangalore.
Dedicated academicians with Sridevi College of Pharmacy, Mangalore

Closing remarks:

Prof. R Raveendra
HOD, Dept. of Pharmaceutical Chemistry,
R R College of Pharmacy, Bangalore

Moderator and co-speaker:
Sri. Sunil S Chiplunkar
M.Pharm (Pharmacology) MBA (Marketing) PGDHRM (PhD)
Advisory Member, KRPA, Bangalore

Vote of thanks:
Dr. Kaushik Devaraju
M.Pharm PhD
President, KRPA

Link: <http://bit.ly/SOCIALRESPONSIBILITYPHARMACIST>

... you will have to fill your details and register, and to the email id given by you in the registration form,
you will get an attendee link, just click that and join us on 12.9.2020 (4.00 pm) (Saturday)...
don't forget it is on 12.9.2020 (4.00 pm) (Saturday)... pls forward to all dentists and dental students.

Hosted By:



Group Pharmaceuticals Ltd



Collaborator Organization:

KRPA, Mysuru, Indian Pharmaceutical Association (IPA) and East West College of Pharmacy, off Magadi road, Bangalore organised - **INTERNATIONAL pharmacist webinar series: ROLE OF PHARMACOECONOMICS AND OUTCOMES RESEARCH IN DRUG DEVELOPMENT AND BEYOND** on 29.8.2020.

Opening remarks was delivered by Prof. Dr. K A Sridhar, M.Pharm, Phd, Principal, East West College of Pharmacy, Bangalore. The chief guest was Dr. T V Narayana* B. Pharm, M. Pharm, M.Phil and PhD from Andhra University, well-known academician, pharma leader and current IPA president.

The speaker Dr. Ravi Iyer Ph.D. MBA (Pharmacy Administration), Director Global Health Economics and Outcomes Research spoke live from USA about Pharmacoeconomics. Chief Patron of the session was Smt. Rashmi Ravikiran, Chairperson, East West Group of Institutions and the patrons were Mr. Tejas Kiran Secretary, East West Group of Institutions and Dr. B. Purushotham Director – Academics, East West Group of Institutions. Co-convenor was Dr. R. Manasa Deepa M.Pharm PhD, HOD – Pharmaceutics, East West College of Pharmacy.

The entire webinar was Moderated by Mr. Sunil S Chiplunkar M.Pharm (Pharmacology), MBA (Marketing) PGDHRM (PhD), Advisory Member, KRPA, Mysuru who was also the co-speaker. Dr. Kaushik Devaraju M.Pharm PhD, President, KRPA, Mysuru presented the vote of thanks.

The poster features logos for KRPA, IPA, and East West College of Pharmacy at the top. The main title is 'INTERNATIONAL pharmacist webinar ideal topic for pharmacists, pharmacy professionals, pharma industry people, hospital pharmacists, Pharm D people, and those interested in pharmacy'. The specific topic is 'Role of Pharmacoeconomics and Outcomes Research in Drug Development and Beyond' on 29th August (Saturday), 2020, @ 6.00 pm. A note states 'E-CERTIFICATE WILL BE ISSUED TO ALL WHO REMAIN TILL END OF WEBINAR'. The program includes opening remarks by Prof. Dr. K A Sridhar, Chief Guest Dr. T V Narayana, Main Speaker Dr. Ravi Iyer (LIVE FROM USA), Chief Patron Smt. Rashmi Ravikiran, Patrons Mr. Tejas Kiran and Dr. B. Purushotham, Co-convenor Dr. R. Manasa Deepa, Moderator and co-speaker Sri. Sunil S Chiplunkar, and Vote of thanks by Dr. Kaushik Devaraju. A registration link is provided: <https://bit.ly/EASTWESTKRPApharmacoeconomics>. The poster also mentions a collaborator, Group Pharmaceuticals Ltd.



MEDIA COVERAGE

Pharmacists at risk as Covid patients throng stores

KARTHIK K K @Mysuru

PHARMACISTS and the personnel of neighbourhood medical stores, who provide medicines amidst the prescription surge, are facing the risk of contracting the virus as they are seeing many infected persons coming to buy medicines.

Over 70% of the Covid infected in the district have opted for home isolation. Of them, many patients and their primary contacts are defying the quarantine norms and are making walk-ins to the medical shops to buy immunity boosters and other essential medicines.

This trend has made pharmacists and the employees of drug



Swab tests being done at KR market in Bengaluru on Saturday | EXPRESS

stores apprehensive as they are very vulnerable to getting infected. "A person came to our store to buy immunity boosters and medicine for coughing. When we asked him for a doctor's prescription, he said that he had received a call from the health department saying he had tested positive and suggested he be in home isolation. Since he had no one to help him get medicines, he came to our store," said a medical store owner at Kuvempunagar.

Though pharmacists and medical store owners are providing Covid kits at doorsteps, many who are unaware of the facility are going to medical stores or sending their prima-

ry contacts, putting the lives of the pharmacists at risk.

More than 10 medical shops were sealed and fumigated after several positive patients visited their stores. Meanwhile, pharmacists are taking utmost care of their employees, providing them the needed protective gear.

Kaushik Devaraju, president of Karnataka Registered Pharmacists Association, said, "Over a period of one month, at least three pharmacists have succumbed to Covid in the region. Pharmacists are aware of the safety measures and are wearing all the safety gear. We are conducting weekly webinars on the safety measures for them."

KRPA - CARE FOR THE FELLOW PRACTICING PHARMACIST

KRPA is concerned about the fellow pharmacist, it has been dedicated in providing service and also protecting the rights of pharmacist. Throughout the pandemic, KRPA has always initiated in educating pharmacist about their care along with the roles they need to play. Dr. Kaushik Devaraju M.Pharm PhD, President, KRPA, Mysuru with the concern for the practicing pharmacist has urged the pharmacist to ensure their safety along with providing the service.



KRPA on the eve of "World Pharmacists Day", honored 2 eminent pharmacists Gangadhar D N and Nanjunda N Gowda's for the lifelong service they have provide to the society as Pharmacist

PRINTED MEDIA

Pharmabiz has always appreciated the work of KRPA, this issue also they have published the efforts. KRPA in association with IPA organised an webinar on SCOPE FOR PHARMACIST IN TELEMEDICINE. This was an webinar the brought the message that always be ready for the change.



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KRPA and IPA to hold webinar on 'Scope for Pharmacists in Telemedicine on Sept 4

Our Bureau, Bengaluru
Wednesday, September 2, 2020, 12:15 Hrs [IST]

Karnataka Registered Pharmacists Association (KRPA), Mysuru, and the Indian Pharmaceutical Association (IPA), Mysuru are organizing a webinar on 'Scope for Pharmacists in Telemedicine'. The event will be held on September 4, 2020 at 4 pm.

There is scope for pharmacists to provide service and boost revenues through telemedicine. This is an ideal topic for pharmacists, pharmacy professionals, pharma industry people, hospital pharmacists, Pharm D people, and those interested in pharmacy, said the organizers.

Dr Pramod Kumar, president- IPA Mysore Local Branch & Principal, JSS College of Pharmacy, Mysuru, Dr Mohd. Salahuddin, vice- president, IPA Mysore local branch & Principal, Farooqia College of Pharmacy, Mysuru will be present.

The main speaker is Siddharth Angrish CEO & co-founder, Jiyyo Innovations. He has a B Tech from IIT-Roorkee in computer science with an MS in artificial intelligence and data mining from John Hopkins University, Baltimore, Maryland, USA. He has three patents to his credit.

Dr Pramod Kumar, president- IPA Mysore Local Branch & Principal, JSS College of Pharmacy, Mysuru, Dr Mohd. Salahuddin, vice- president, IPA Mysore local branch & Principal, Farooqia College of Pharmacy, Mysuru will be present.

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The second speaker is Dr Karthik Rakkam who is a Pharm D graduate is the president of Pharcom Society for Pharmacy Practice, Medical Advisor for HealthCloud AI besides being a core member of Punjab telemedicine expert committee and advisor clinical pharmacy and pharmaceutical care for Jiyyo - a startup with an aim of bringing benefits of telehealth to 100,000 villages of India.

The closing remarks is by Dr R Raveendra, HOD, Department of Pharmaceutical Chemistry, R R College of Pharmacy, Bengaluru.

The moderator and co-speaker is Sunil S Chiplunkar, advisory member, KRPA, Mysuru. The vote of thanks is by Dr. Kaushik Devaraju, president, KRPA, Mysuru.

The collaborator for this event is Group Pharmaceuticals, Bengaluru, which manufactures Inosept hand sanitizer and Freshclor a virucidal mouthwash and throat gargle, said the organizers.



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COLOURFUL ADDITION TO THE KRPA FAMILY



KRPA extends its social responsibility and has come forward. They have adopted the colourful "Great Indian Hornbill" Bird at the Mysore Zoo.



RULES

1. Correct answer for logo game section will be rewarded 1 point each (5 marks)
 2. Each correct answer in pharma entrepreneur and their company carry 1 point (2 marks)
 3. Caption me (Show case your Humour) (3 marks)
 4. Answer of the quiz will be evaluated by panel of judges and their decision is final. (Max mark:09)
 5. 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
 6. The answer must be sent within 20th October 2020 to this E Mail ID- krpaindia@gmail.com
- A confirmation mail will be sent to you on receiving your e-mail.

I. Guess the diagnosis for the tests given below

1. Allen test
2. Urea breath test
3. Tourniquet test
4. Schick test
5. VDRL test

II. Guess the Pharma Entrepreneur and their company

Name the entrepreneur and the pharmaceutical company established in 1849 along with their cousin. The company launched its chemical business in Williamsburg, Brooklyn. They produced an anti-parasitic called Santonin which became an immediate success. Its growth was attributed to the production of citric acid in the 1880s. The company is expertise in fermentation technique. Also, the company is responsible for the mass production of antibiotic penicillin during World War II to treat injured allied soldiers. The company changed from a manufacturer of fine chemicals to a research-based pharmaceutical company with the discovery of Terramycin (Oxytetracycline).



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III. Caption me



Congratulations

to the winner of *Fifth Edition*
 KRPA Quiz Competition

Dr. Riya Agrawal
 MDS Rishiraj dental college
 Bhopal



DISCLAIMER

The Newsletter intends to provide updated and reliable information on medicines and other related issues in an attempt to equip healthcare professionals to take informed decision in recommending medicines to the patients. However, they are encouraged to validate the contents. Neither the people associated with the publication of the Newsletter nor the organization shall be liable for any damage incurred as a result of use of the contents of this publication. The brand names of medicines, if mentioned, are for illustration only and the newsletter does not endorse them.

Send your Articles, Suggestions, or Comments to **krpaindia@gmail.com** for the overall improvement of KRPA Monthly Bulletin

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