



**GURUNANK COLLEGE OF PHARMACY  
NAGPUR**

# *INDOCTRINATE*



**IQAC - NEWSLETTER - 17**

**16 June 2018**

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**Mr. Krishnakant Bhelkar**

**Mr. Subhash Yende**

*gncp\_newsletter@rediffmail.com*

## Technical Article

### PLASTIC : AN IMMORTAL CURSE

Mrs. Shobha A. Ubgade  
Asst. Professor

Most of us grew up in an age where the mantra of “*plastic is fantastic*” shaped our environment to the extent that today plastic really is all around us. Every product has a shelf life, but sadly that is not the case with plastics. The fact is that our planet cannot digest plastic. Plastics take around 500 to 1000 years to completely degrade due to the presence of complex polymers. As a result, till now whatever bit of plastic has ever been manufactured or used by us can be found in some form or the other on the planet and now it has reached a crisis point. In the early years, from 1950s to 70s, plastic waste was relatively manageable as it was produced in small amount. Today we produce about 300 million tonnes of plastic waste every year. That's nearly equivalent to the weight of the entire human population. Plastic waste is now so ubiquitous in the natural environment that scientists have even suggested it could serve as **a geological indicator of the Anthropocene era**. According to The World Economic Forum study done on plastic pollution around the world, oceans will have more plastics than fish by 2050, if plastic pollution continues to rise.

Currently, India generates around 56 lakh tonnes of plastic waste annually and contributes to around 60% of plastic waste dumped into the world's oceans every year. Only 9% of all plastic waste ever produced has been recycled. About 12% has been incinerated, while the rest 79% has accumulated in landfills, dumps or the natural environment. **Half of all plastic produced is designed to be used only once** and then thrown away. These single-use plastic products are everywhere. For many of us, they've become integral to our daily lives. The same properties that make plastics so useful, their durability and resistance to degradation, also make them nearly impossible for nature to completely break down.

Plastic comes in many forms but there is general consensus that while being a useful material, there are serious concerns about its effects on human health. ***These concerns stem primarily from two sources: the additives contained in plastic materials with which we come directly into contact and the effects of plastics on the environment which in turn may compromise human health.*** Toxic chemicals leach out of plastic and are found in the blood and tissue of nearly all of us. Exposure to them is linked to cancers, birth defects, impaired immunity, endocrine disruption and other ailments. Two broad classes of plastic-related chemicals are of critical concern for human health: bisphenol-A or BPA, and additives used in the synthesis of plastics, which are known as phthalates. BPA often used in food and beverages containers, such as water bottles is an **endocrine disruptor**, which can mimic a hormone or block a receptor or do any number of things to disrupt the proper functioning of any of the endocrine glands. **Plasticisers or Phthalates**, are primarily used in PVC to make it flexible, these additives can be used in children's toys, flooring, clothes and a myriad of other everyday items. Burning of plastic bags causes the emission of chlorine dioxide, carbon dioxide, carcinogenic dioxin, other gaseous compounds, acids and many harmful toxic compounds. Most plastic items never fully disappear; they just get smaller and smaller. Many of these tiny plastic particles are swallowed by farm animals or fish who mistake them for food, and thus can find their way onto our dinner plates. By clogging sewers and providing breeding grounds for mosquitoes and pests, plastic waste especially plastic bags can increase the transmission of vector-borne diseases like malaria. When plastic bags stick to trees and plants they obstruct the natural light from reaching parts of the plant causing impairment to the process of photosynthesis. Burying of plastic bags in soil makes an insulating layer that keeps rainwater in the upper part of the soil and prevents water and other fertilizers from reaching its lower part. Using plastic containers to save food especially pickles, acid and fatty food causes plastic to decompose, and allows toxic carcinogens to access the body. Even storing, refrigerating, heating and packing food items and water in plastic containers or wrappings could be highly dangerous. **Plastic costs billions to abate.** Everything suffers: tourism, recreation, business, the health of humans, plants and animals. The financial damage continuously being inflicted is inestimable. It is not easy to get rid out of this menace completely but one can find better ways to avoid and minimize the associated risks.

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# ACCOLADES

**Mr. Abhishek Brijesh Sharma** (B. Pharm, 2013-2017 Batch) awarded with G. S. Ramaswamy memorial Prize for obtaining highest percentage of marks (CGPA 8.89, 3411/4400 Marks) in B. Pharm final examination held in Summer 2017. Also, he bagged 4 gold medals which include Late Dr. P. B. Devadhar Memorial Gold Medal, Late Shree Anant Keshav Kelkar Gold Medal, S. L. Kalra Gold Medal and Ajantha Pharma Gold Medal. He received the awards at the hand of Hon. Banwarilal Purohit, Governor, Tamilnadu in 105th Convocation of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, held at Dikshant Sabhagruha on 24th Mar, 2018.



**Ms. Rashi Rakesh Gupta** awarded with Late Smt. Sitabai Shriram Dixit Memorial Prize for securing the highest percentage of marks (1878/2500) amongst Girls students in annual B. Pharm Final Examination of the RTM Nagpur University held in Summer 2016. She received the award at the hand of Dr. Anil Sahasrabudhe, Chairman, All India Technical Education Council, New Delhi and Dr. Siddharthavinayaka Kane in 104th Convocation of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, held at Dikshant Sabhagruha on 3rd Dec, 2017.

**Ms. Rashi Rakesh Gupta** received IDMA J. B.



**MODY Best B. Pharm Student Award** for securing first position in B. Pharm Final year in Gurunanak College of Pharmacy, Nagpur by Indian Drug Manufacturers Association, at Hotel ITC Grand Central, Parel, Mumbai on 20th Jan, 2018. She received this award at the hand of Shri. Ashwini Kumar Choubey, Honorable Union Minister of State for Ministry of Health and Family Welfare, Govt. of India.

Following students of GNCP qualified GPAT-2018 & NIPER-2018 Exams

## GPAT-2017 Result

Class	Name of Student	AIR
B. Pharm II	Ms.Simran Lakhanpal	1972
B. Pharm III	Ms.Ankita Shahu	2707
	Ms.Durga Bansod	6876
B. Pharm IV	Mr.Pranav Kulkarni	1021
	Mr.Snehal Shrivastava	1084
	Ms.Monika Kherde	1414
	Ms.Farheen Bano	1414
	Mr.Harspal Wahi	1649
	Mr.Akshay Kamde	3342
	Ms.Hemlata Rarokar	6540
M. Pharm I	Mr. Karan Sohandani	660

## NIPER-2018 Result

Class	Name of Student	AIR
B.Pharm-IV	Mr. Akshay Kamde	1906



## Republic day celebration:

College celebrated 66th Republic day with Zeal and Zest. The flag hoisting was carried out by S. Gurbux Singh Ji Lamba, President of the Sikh Education Society. The function was followed by cultural program and refreshment for staff and students.

## Campus Placement Interview:



The campus placement interview was organized on 31<sup>st</sup> May 2018. The Acute Research Centre, Ahmedabad conducted the campus interview for M. Pharm students. Total 10 students appeared for the interview out of which 8 students have been offered for the jobs in Formulation and Development, Production and Regulatory Affairs Departments. Mr. Manish Kamble, Business Development Manager, Acute Research Centre, Ahmedabad conducted the interview and Dr. S. B. Waikar from training and placement cell took efforts for success of the event. ③



# EVENTS

## Zenith & Zest 2017-18

The annual social gathering, 'Zenith' and sports event 'Zest'- 2017-18 was organised by the students of GNCP and GNTI. Zest 2017-18 was inaugurated by Dr. A.M. Ittadwar on 30 December at 11.00 am. Students enthusiastically participated and conducted annual sports event at Gurunanak College of Pharmacy campus from 30 December 2017 to 3 January 2018. Various sports event like Cricket, Volley ball, Badminton, Table tennis, Tug of war, Chess, Carom, Arm wrestling, Athletics were conducted.

Zenith 2018 was inaugurated on the 4<sup>th</sup> of Jan, 2018 at 4.00 pm by Hon. Chief guest Mr. Vishal Chaudhari, Director, HOPE Academy, Nagpur. Various competitions like Dance, Fashion Show, Singing, Drama, Debate, Pharma Quiz, Fate, Singing, Photography, Treasure Hunt, Rangoli, Drawing, Mehandi, Pharma Court, Best out of Waste were held in this gala event.



Event	Winner/Runner (Class)	Name of Student/Staff Member
Cricket Boys	Winner (B. Pharm II)	Pradeep Thakre, Hemant Dongre, Vaibhav Kapgate, Tushar Kagde, Ramkisan maske, Punaram Pandhare, Akshay Loya, Aditya Warghane, Gaurav Sharma, Jayant Jawanjar, Laxmikant Sarode, Nitin Bire, Ankit Gawale, Abhishek Harne, Yousuf Zaki.
	Runner (M. Pharm)	Manmay Makkad, Swapnil Deshmukh, Shubham Dhotarkar, Ankush Sen, Rohit kumar, Azhar Iqbal, Dr. A M Ittadwar, Keshav Moharir, Govind Lohiya, Gulshan Gurunani, Dr. Subhash Yende.
Cricket Girls	Winner (B. Pharm I)	Manali Barai, Kajal Kesare, Ekta Tiwari, Sakshi Rathi, Shrutika bawankar, Kajal Bhende, Pratiksha Bramhe, Mehek Gupta, Kalyani Thakre, Chetna Shelote, Disha Patel, Khushbu Sharma, Sudipa Bose
	Runner (B. Pharm II)	Simran Lakhnapal, Tejaswini Kawanpure, Vaishnavi Vairagade, Davini Bobde, Sukanya Waghmare, Pragati Samarth, Sapna Mattami, Shivani Darbhe, Sakshi Maske, Ragini Amarnani, Yogita Shahu, Shumaila Chini, Shifa Sheikh.
ThrowBall	Winner (B. Pharm IV)	Shital Agashe, Sonakshi Singh, Taranpreet Kaur Bhamrah, Harshali Shende, Lukesha Zade, Ankita Madhrani.
ThrowBall	Runner (D. Pharm II)	Nikita Shahu, Nikita Kharode, Neha Nishane, Ravina Singhade, Ruchita Kewladkar, Kajal Bondre.

VolleyBall	Winner (M. Pharm)	Manmay Makkad, Swapnil Deshmukh, Shubham Dhotarkar, Ankush Sen, Rohit kumar, Azhar Iqbal,
VolleyBall	Runner (B.Pharm II )	Pradip Thakre, Tushar Kagde, Ramkisan Maske, Gaurav Sharma, Laxmikant Sarode, Nitin Bire, Yusuf Zaki, Mrunal Giripunje, Mayur Kirpan
Chess (Girls)	Winner (B. Pharm II)	Pragati Samarth
	Runner (B. Pharm I)	Sudipa Bose
Chess (Boys)	Winner (B. Pharm IV)	Snehal shrivastav
	Runner (B. Pharm IV)	Sanjay Jain
Carrom (Girls)	Winner (B. Pharm IV)	Komal Gupta
	Runner (B. Pharm II)	Pragati Samarth
Carrom (Boys)	Winner (D.Pharm I)	Prashik Lingayat
	Runner (D. Pharm II)	Adesh Chavan
Carrom Doubles (Girls)	Winner (B. Pharm IV)	Supriya bhagat, Komal gupta
	Runner (M. Pharm II)	Harshita Jain, Shruti Ukey
Carrom Doubles (Boys)	Winner (B. Pharm IV)	Sainath Lokewar, Shubham Gupta.
	Runner ( B. Pharm II )	Akash Vaishnav, Anubhav Morghade.
Badminton Singles (Girls)	Winner (B.Pharm IV)	Sonakshi Singh
	Runner (B. Pharm IV)	Lukesha Zade
Badminton Singles (Boys)	Winner (M.Pharm II)	Ankush Sen
	Runner (B. Pharm II)	Akash Vaishnav
Badminton Doubles (Boys)	Winner (M. Pharm II)	Ankush Sen , Shubham Dhotarkar
	Runner (M. Pharm I)	Swapnil Deshmukh , Manmay Makkad.
Badminton Doubles (Girls)	Winner (B. Pharm I)	Chetana Shelote, Pratiksha Bramhe
	Runner (B. Pharm IV)	Sonakshi Singh, Lukesha Zade
Tug of War (Boys)	Winner (B. Pharm IV)	Rahul Langde, Jash Parikh, Pravin Joshi, Sainath Lokewar, Paras Kothari, Shubham Gupta, Amit Naxine, Mayur Patil, Junaid Ansari, Harshpalsingh Wahi.
	Runner (D. Pharm II)	Mayur Patel, Mohit yadav, Rakesh Khandare, Mayank Vishnani, Mayur Thote, Vivek Dhok, Sanket Daffer, Shivam Gupta, Rushikesh Chandurkar.
Tug of War (Girls)	Winner (B. Pharm IV)	Priya Dalwani, Harshali Shende, Yogita Jain, Ankita Madhrani, Lukesha Zade, Sonakshi Singh, Taranpreet.
	Runner (D. Pharm I)	Nikita shahu ,Nikita Pohakar , Ravina shingade, Nisha usendi, Bhagyashree Roshankhede, Namrata Wadhwani, Salma Anjum.
Table-Tennis (Boys)	Winner (B. Pharm IV)	Shantanu Kurzadkar
	Runner (B. Pharm II)	Akhilesh meshram
Table-Tennis (Girls)	Winner (M. Pharm I)	Shraddha Shahu
	Runner (M. Pharm I)	Priyanka Bhaisare
Table-Tennis Doubles (Boys)	Winner (M. Pharm )	Swapnil Deshmukh , Manmay Makkad.
	Runner (B. Pharm II)	Akhilesh Meshram, Anubhav Morghade.
Table-Tennis Doubles (Girls)	Winner (M. Pharm I)	Shraddha Shahu, Pranita Kale
	Runner (M. Pharm I)	Priyanka Bhaisare, Rakhi Sarpate
Arm Wrestling Boys	Winner (B. Pharm IV)	Tarun Nathani
	Runner (B. Pharm III)	Indresh Khungar
Arm Wrestling Girls	Winner (B. Pharm IV)	Lukesha Zade
	Runner (D. Pharm II)	Samiksha Dhawle
Running Race (Boys)	Winner (D. Pharm I)	Kartik Kawade
	Runner (B. Pharm II)	Ramkisan Maske
Running Race (Girls)	Winner (B. Pharm II)	Vaishnavi Vairagade
	Runner (D. Pharm I)	Ghanishta Bhopale
Dance (Solo)	Winner (B. Pharm IV)	Mrunali Chaudhary
	Runner (B. Pharm III)	Minakshi Ninave

Dance (Duet)	Winner (D. Pharm III)	Vaishnavi Vairagade, Shivani Darbhe
	Runner (B. Pharm III)	Minakshi Ninave
	2 <sup>nd</sup> Runner (B. Pharm II)	Sukanya Waghmare, Tejaswini Kawanpure
Dance (Group)	Winner (B. Pharm IV)	Yogita Jain, Ankita, Shivani Helchel, Priya Dalwani, Priya Paunekar, Megha Bhavsagar, Komal Gupta, Kalyani Bhandarkar, Nihal Landge
	Runner (D. Pharm I)	Janhvi Padole, Apurva Gophane, Shweta Barlawar
Fashion Show	Winner (B. Pharm IV)	Ankita, Taranpreet Kaur Bamrah, Priya Paunekar, Mrunali Chaudhary, Kundan Singh, Shubham Gupta, Junaid Ansari, Sainath Lokewar, Priya Vaswani
	Runner (D. Pharm II)	Rukesh Khandare, Vivek Dhok, Nikita Sahu, Urja Juwari, Sumit Shrivastav, Mohit Yadav, Mayank Vishnani, Shubham Mahajan, Piyush Alwani, Twinkle Dhananjay, Namrata Wadhvani, Anshul Bagde, Alfia Naaz
Drama	Winner (B. Pharm II)	Yousuf Zaki, Aniket Gawale, Mayur Kirpan, Tanay Shahu, Laxmikant Sarode, Punaram Pandhare, Nitin Bire, Mrunal Giripunje
	Runner (D. Pharm II)	Urja Tawri, Piyush Alwani, Mayank Vishnani, Twinkle Dhananjay, Mayuri Shrirame, Ruchita Kelwadkar, Vivek Dhok, Rukesh, Praful Rathi
Singing	Winner (B. Pharm II)	Pritam Wath
	Runner (B. Pharm IV)	Payal Dhande
Treasure Hunt	Winner (B. Pharm IV)	Tarun Nathani, Priya Vaswani, Shital Agashe, Bhavika Mukhi, Snehal Shrivastava, Naresh Khilwani
	Runner (B. Pharm II)	Akshay Loya, Anubhav Morghade, Simran Lakhnupal, Shumaila Chini, Tanay Shahu
Debate	Winner (B. Pharm IV)	Kundan Singh
	Runner (B. Pharm IV)	Monika Kherde
Quiz	Winner (B. Pharm IV)	Snehal Shrivastava, Farheen Bano, Pranav Kulkarni
	Runner (B. Pharm III)	Hasan Hussain, Krishna Thakrani
Rangoli	Winner (M. Pharm I)	Shraddha Shahu
	Runner (B. Pharm I)	Manali Barai
Mehandi	Winner (B. Pharm IV)	Yogita Jain
	Runner (D. Pharm I)	Umme Hani
Drawing	Winner (B. Pharm IV)	Lukesha Zade
	Runner (B. Pharm II)	Janhvi Parihar
Photography	Winner (B. Pharm IV)	Shubham Kalbande
	Runner (B. Pharm II)	Anubhav Morghade
Best out of Waste	Winner (M. Pharm II)	Amandeep Kaur Dhillon, Azhar Iqbal
	Runner (B. Pharm IV)	Bhavika Mukhi, Snehal Shrivastava
Fete	Winner (B. Pharm IV)	Naresh Khilwani, Snehal Shrivastava, Rahul Langde
	Runner (B. Pharm III)	Ritika Singh, Sakshi Maske, Pragati Samarth, Davini Bobade

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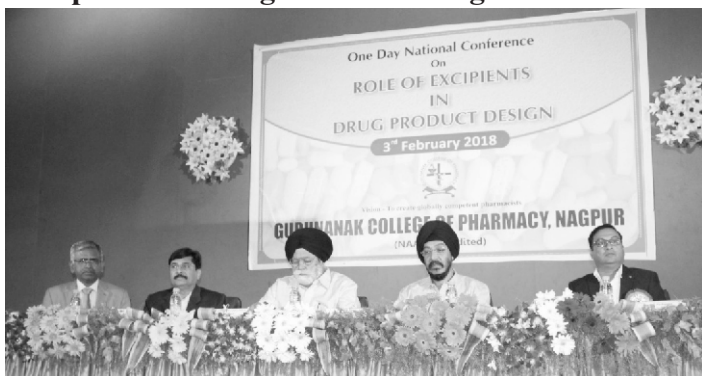
There are many eco-friendly alternatives available to avoid adverse effects of plastic on health and environment. These alternative includes use of products made from more traditional materials like metal, wood, or glass that are cleaner to manufacture and easier to dispose of. Compostable, eco-friendly bagasse is great for replacing plastic when you need disposable plates, cups, or take-out boxes. **Using bags made from cloth or jute is a very good option to replace plastic carry bags.** Although traditional plastics can be reused or recycled, they take many decades and even more than two hundred years to decompose, leading to serious environmental problems. Use of bioplastics is now emerging as a solution for this problem. Biodegradable plastics (oxo-bio) can be produced by using the degradable to water (D2W) additive during the standard production process of plastics. The impact of the additive is therefore negligible and there is no major change involved in the manufacturing processes. D2w converts plastic into a biodegradable material so that it can be broken down and biodegraded to nothing more than CO<sub>2</sub>, water and humus.

Considering the ill effects of plastic and inconvenience in managing the waste, it has now raised to an alarming situation to tackle with. We need to slow the flow of plastic at its source as well as improve the way we manage our plastic waste. If we do not change our waste practices now then we will soon be buried in our own muck. The future is in our hands, to decide whether to choose or loose this burden of a lifetime.

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## National Conference on 'Role of Excipients in Drug Product Design'



Gurunanak College of Pharmacy has organized one day National Conference on "Role of Excipients in Drug Product Design" on 3<sup>rd</sup> Feb, 2018 in S. Paramjeet Kaur Kalsi Auditorium. The occasion was graced by chief guest S. Gurbux Singh Lamba, President, The Sikh Education Society and Guest of Honour S. Sarabjeet Singh Kalsi, CEO and General Secretary, The Sikh Education Society. The keynote opening was given by Dr. Shashank Lulay, Director, Experts' Club Consultants, Nagpur. In second session Dr. Mrs. Archana Moon, Associate Professor, Department of Biochemistry, Laxminarayan Institute of Technology, RTM Nagpur University delivered a lecture on 'Targeted drug delivery in multidrug resistant microbial infection'. The third session was conducted by Mr. Mangesh Itankar, Assistant Manager, Regulatory Affairs, Dr. Reddy's Research Laboratories, Hyderabad on 'Development and implementation of regulatory strategies to support filing and expedite the approvals for the new products, line extensions, major variations and life cycle management'. After plenary sessions, poster presentation was carried out and Best posters were awarded in the valedictory function. The event was coordinated by Dr. (Mrs.) S. R. Walde and Dr. S. P. Padmane and around 300 delegates from academia attended the same.

## 'Jal Sanwad' Awareness Program on Water Conservation



In association with Orange City Waterworks, Nagpur Gurunanak College of Pharmacy organized a awareness program on water conservation on 2<sup>nd</sup> Jan, 2018 in Sardarni Paramjeet Kaur Kalsi Auditorium. In this program Mrs. Jarad and Mr. Hastak from Orange City Waterworks educated students and staff for proper use of water and make them aware about the conditions humanity might face in future due to water scarcity. The program was coordinated by Dr. S. K. Tiloo.

## Workshop on "Computer Aided Drug Design"



Gurunanak College of Pharmacy, Nagpur organized a Two days training workshop on "Computer Aided Drug Design" for B. Pharm and M. Pharm students on 3<sup>rd</sup> and 4<sup>th</sup> March, 2018. The program was inaugurated by Dr. A. M. Itadwar, Principal, Gurunanak College of Pharmacy. Dr. Anwar Shaikh, Professor, Allana College of Pharmacy, Pune was the resource person. In this training workshop, basics of 2D and 3D QSAR, Pharmacophore mapping, Virtual screening, Molecular modeling and Docking were discussed. Hands on training was also given using the Schrodinger software tools for using computers in designing new drugs. The program was attended by about 50 postgraduate students and faculty members from the colleges of the region.

The program was very well received and it was one of its own kind to help students in handling actual software related to drug designing. The program was conducted in collaboration with Dr. AJ Asnani and Dr. PB Khedekar of Priyadarshini JLC College of Pharmacy and UDPS, RTM Nagpur University respectively. The program was coordinated by Dr. NP Sapkal along with Mr. DP Dharkar, Mr. KB Bhelkar, Mrs. SA Ubgade and Dr. VA Kilor.

## Seminar on Success Sutras for Start-ups



A half day seminar 'Success Sutras for Start-ups' for the M. Pharm and B. Pharm Final year students of GNCP was conducted on 8<sup>th</sup> Jun, 2018. The seminar was conducted to introduce seven basic rules needed to plan a start up. The basic introduction was given by Dr. Vinita Kale on the topic. A video film of well known business trainer Mr. Jagdish Joshi related to motivation and development of entrepreneurship skills was shown in this event. The program was coordinated by Dr. Vinita Kale

## Workshop on “Computer Aided Drug Development”



Gurunanak College of Pharmacy, Nagpur organised Two Day's Training workshop on “Computer Aided Drug Development” in association with Me2We Foundation on 24<sup>th</sup> and 25<sup>th</sup> Feb.2018 in the auditorium of Gurunanak College of Pharmacy, Nagpur.

Aim of the workshop was to impart hands on training to the Post graduate students of pharmacy regarding use of computers in drug development process. Students and faculty were introduced with the various softwares like Gastroplus, Winonline, Simcyp and their use as an integral part of preclinical and clinical drug development process.

Dr. Rama Sivasubramanian, Clinical Development Director, Clinical Development & Analytics Novartis Healthcare Pvt. Ltd. Hyderabad, Mr. Rajendra Khade, Principal Scientist, Novartis Healthcare Pvt. Ltd. Hyderabad, Mr. Punit Girdhar, Associate Narrative Writer, Regulatory Writing & Submission team, Novartis Healthcare Pvt. Ltd. Hyderabad were the resource persons for the workshop.

The workshop was attended by 125 Pharmacy postgraduate students, teachers and research scholars.

Dr. A.M. Ittadwar, Principal, Gurunanak College of Pharmacy, Nagpur was the convener of the workshop, which was coordinated by Dr. V.A. Kilor along with Dr. V.V. Kale, Mr. G.K. Lohiya, Mr. K.B. Bhelkar, Mr. K.S. Moharir, Mrs. S. A. Ubgade, Mr. T. M. Rasala, Dr. N.P.Sapkal.

## Hospital visit to Ashwini Kidney and Dialysis Center



To understand pharmacists' role in clinical practice or set up, a visit to hospital was organized for M. Pharm students. In this event students of GNCP visited Ashwini Kidney and Dialysis Center situated at Dhantoli, Nagpur. Total 13 students of M. Pharm (Pharmaceutics) visited the premises in two batches and gained the first hand information about the patients undergoing dialysis. The outcome of the visit was students could understand the line of treatment, psyche of the patient, type of medication prescribed the diet plan and analysis of pathophysiological readings of pre and post dialysis.

## Farewell Program



Students of B.Pharm Final Year were given a warm farewell with a lot of wishes by their junior colleagues on 7th Apr, 2018

## News from Training and Placement Cell

- Students internship (Industrial Training) was completed at Medley Pharma Ltd., Daman, Lupin Pharma Ltd, MIHAN, Nagpur, Snehal Pharma Surgicals Pvt. Ltd., Unijoules Life Sciences Pvt. Ltd., Siddhayu Ayurved Research Foundation Pvt. Ltd., Shree Baidyanath Ayurved Bhavan Pvt. Ltd., Zim Laboratories Ltd., Innova Pharmactive Pvt. Ltd., Genetek Lifesciences Ltd., Wardha & Pathak Ayurvedic Pharmacy, Nagpur.
- Medley Pharmaceuticals Ltd. Mumbai gifted the excipients and drug samples for B. Pharm and M. Pharm Research Projects.
- Off Campus Interview: 1) B. Pharm IV year students were sent for open campus interviews of Tata Consultancy Services Ltd., Mumbai at Govt. College of Pharmacy, Amravati on 18<sup>th</sup> Jan, 2018 and at Priyadarshini J. L. College of Pharmacy on 27<sup>th</sup> Feb, 2018. Total 4 students were selected for pharmacovigilance department.
- 2) M. Pharm Final Year students (Pharmaceutics) attended open campus interview of Alembic Pharma Ltd., Vadodara at Smt. Kishoritai Bhojar College of Pharmacy, Kamptee on 6<sup>th</sup> May, 2018. Total 3 students were selected for production department.



## Educational Tours

### Educational Tour to Uttarakhand



An educational tour to the state called 'Devbhumi' – Uttarakhand was arranged for the B. Pharm students of GNCP between 21-30 Jan, 2018. In this tour students visited various scenic places in Delhi, Rishikesh, Joshimath, Auli, Nainital, Jim Corbett and Haridwar. Students enjoyed River Rafting in The Ganges River, sunset and camp stay at Rishikesh, Ropeway Journey to Auli, thrilling Jungle Safari at Jim Corbett National Park. In this they also visited Shankaracharya Temple in Joshimath. 51 students accompanied by the faculty member Mr. G. A. Gurunani attended the tour.

### Educational Tour to Kerala



An Educational tour to the 'God's Own Country' Kerala was organized for students of B. Pharm from 22-31<sup>th</sup> Jan, 2018. In this tour students visited Ernakulum, Waterfall at Tekkedi, Backwaters at Alleppy, Rose Garden, Tea Garden and Eco Point at Munnar and Padmanabham Temple, Kovalum Beach at Thiruvananthapuram. Students also visited the hub of potential medicinal plant garden 'Spice Garden' and enjoyed wild life sanctuary. The students were accompanied by Dr. S. P. Padmane, Dr. S. R. Walde and Dr. S. B. Waikar.

### Personality Development Tour to Karnataka & Tamilnadu



Personality development tour to Tamilnadu and Karnataka was organized for the students of M. Pharm between 8-18<sup>th</sup> Jan, 2018. In this students visited to various scenic and historic places like Crocodile Park, Tiger cave, Shore temple and Arjunas Penance in Mahabalipuram, Auroville's Matrimandir, Manakula Vinayakar Temple, Shri. Aurobindo Ashram in Pondicherry, Sri. Chamundeshwari Temple, Nandi Temple, Sand Museum, Mysore Palace of Wodeyar Dynasty, St. Philomena's Church and Vrundavan Garden at Mysore, Summer Palace and Lal mahal at Srirangapattanam, Pykara Lake, Wenlock Downs (Shooting Point), Tea Garden and Dodda Betta Peak at Ooty (Udhagamandalam), Sim's Park at Coonoor, Bryants Park, Coakers Walk, Berijam Lake, Lake View Point, Pillar Rock, Moir Point, Pine forest, Guna Caves (Devil's Kitchen), Munnayayur Lake, Kuzhanthai Vellappar Temple, Poombarai Villegge, at Kodaikanal. In this tour 20 students were accompanied by faculty members Dr. V. V. Kale, Ms. P. G. Gondane and Mr. K. B. Bhelkar



### Sports News

- Students from GNCP Participated in the Inter collegiate table tennis competition organized by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur held from 12/01/18 to 13/01/18 & qualified for pre-quarter finals.
- Students from GNCP Participated in the Inter collegiate cricket tournament organized by Rashtrasant Tukadoji Maharaj Nagpur University on 02 April 2018.
- Students from GNCP Participated in national level PCL organised by DBCOP, Nagpur in association with District sports office, Nagpur held on 27 to 31 Jan, 2018.

**Technical Article by Student****E- Pharmacy**

*Ms. Janhvi Parihar*  
*B.Pharm V Semester*

E-pharmacy or online pharmacy or mail order pharmacy works by receiving order for drugs or medications online and sending them by mail. This type of practice is followed by many fields, but this is new to the field of pharmacy. Online pharmacies are coming into trend now-a-days. Just like anything that is new it has its effects on the consumers and the market.

In India there is no specific set of law that governs the online sale of drugs. Online sales of drugs is mostly governed by Drug and Cosmetic Act 1940 and rules 1945.

E-pharmacy has its pros and cons.

**Pros of E-pharmacy**

- **Cost**- E- pharmacy helps decrease the cost for the consumers as they buy the product directly from the manufacture and this decrease the cost by cutting short the cost of middle man.
- **Convenience** – E- pharmacies bring convenience to the consumers. The patients that require daily medications can receive their medications at their doorsteps. And that too can be scheduled to be delivered in a day or two in advance.
- **Privacy** – E- pharmacies can be very helpful to the people that would like to maintain their medical condition or medical needs a secret. Or for the patients that do not feel uncomfortable in going to the physical pharmacy to ask for the product.
- **Choice** – E-pharmacies give a wider range of choice on OTC products. One can choose from a wide range according to their needs.
- **Drug information** – E- pharmacies give the consumers details about the drug; the direction to use, the contraindication, the adverse effects and other detailed information
- **Patient history** – E- pharmacies can store the information about the previous prescription.
- **Availability** – E- pharmacies helps increase the availability of the drugs these pharmacies can also provide drugs that are high in cost and rare.

**Cons of E- pharmacy**

- **Reliability** – E- pharmacy cannot always be reliable. There may be chance of receiving a duplicate product.(Eg:- nise and nice)
- **Safety** – E- pharmacy cannot provide safety. Some drugs are to be kept under specify temperature which cannot be made sure during the delivery of the drugs which may cause the degradation of the drug.
- **Hidden cost** – some websites may show low cost but may apply some hidden charges while placing the order like handling charges or refrigeration charges.
- **Unsupervised** – as there are different websites and the consumer only needs to provide a scanned copy of the prescription one can use the same prescription to order the same medicines from different websites without the cancelation of the prescription. Especially for the narcotic and psychotropic drugs this can increase drug trafficking.
- **Warehousing** – the warehousing conditions are unknown to the buyers. One cannot assure that the medications are stored in the proper conditions.
- **Patient counseling** – E-pharmacy maybe effective but they cannot provide patient counseling which is a very important part of dispensing process.
- **Quantities** – E-pharmacy cannot be used to purchase small amount to medications (e.g.:- one cannot order 2 tablet of aspirin). Even if a doctor prescribes only 3 doses the purchaser has to buy the whole strip of the medication which leads to wastage of money and the drug.

**Effect on pharmacist**

- The E- pharmacy may decrease job opportunity for the pharmacist where a physical pharmacy provides job more jobs, E- pharmacy may decrease the number of pharmacist required for dispensing of drug.
- E- Pharmacy has a draining effect on already existing physical pharmacies; the turnover is decreased.
- This decrease in job opportunity; may lead decrease in the interest of people into the profession.
- E- Pharmacy decreases the need of the middle man, stockiest and other middle man that helps in the distribution of the drugs.

**Conclusion**

All aspects observed E-pharmacy has its pros and cons for the consumers but in the big game it only shows profit to the corporate firms and industries.

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## RESEARCH & DEVELOPMENT ACTIVITIES

### Publications

1. **S. R. Yende**, U. N. Harle, **S. K. Arora**, **V. B. Pande**, Phytochemical screening and anticonvulsant activity of *Sargassum ilicifolium* (brown algae) in mice. *Journal of Phytopharmacology* 2018, 7(1), 25-28.
2. **A. N. Mungle**, **A. M. Itadwar**. *Lawsonia inermis* L.: Phytochemical and Pharmacological activities. A Review. *International Journal of Researches in Biosciences, Agriculture & Technology* 2018, 1(6), 119-152.
3. **S. V. Pimpalshende** and **V. V. Kale**. Waste Water Treatment: Design and Develop Waste Water Disposal Method for Pharmaceutics Laboratory. *IOSR Journal of Pharmacy and Biological Sciences* 2018, 13(3), 57-64.

### Presentations

- ❑ **K. S. Moharir\*** gave an oral presentation on 'Novel Formulations Strategies' held on 12-13 April 2018 at Hotel Ramada, Mumbai.
- ❑ **Amandeep Kaur Dhillon\***, **Suhas Padmane** and **Sarika Ghatode**, presented oral paper on 'Gel formulation of flavonoid rich fraction of aerial parts of *Hemidesmus indicus*' at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.
- ❑ **Ashwini Nagpure\***, **Dr. Shekhar Waikar** and **Dr. Sheelpriya Walde**, presented poster on Evaluation of fixed oil from the seed of *Celastrus paniculatus* at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.
- ❑ **Yogita Khade\***, **Suhas Padmane** and **Pornima Kodape**, presented oral paper on 'Simultaneous estimation of few polyphenols using HPLC' at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.
- ❑ **Kalyani Thombre\***, **Dr. Shekhar Waikar**, **Satnam Singh Khokar** and **Dr. Sheelpriya Walde**, presented poster on 'Isolation and evaluation of anthelmintic activity of flavonoid rich fraction of rhizomes of *Curcuma longa*' at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.
- ❑ **Shraddha Tajne\***, **Dr. Shekhar Waikar**, **Archana Patre** and **Dr. Sheelpriya Walde**, presented oral paper on Formulation of face pack containing extract of *Rubiocordifolia* at International conference on Challenges for competitiveness of AYUSH and natural products, held at Delhi Pharmaceutical Sciences and Research University, New Delhi on Feb. 2-4, 2018.

### Guest Lecture Delivered/ Resource Person/Scientific Session Chaired

- **Dr. V. A. Kilor** and **Dr. N. P. Sapkal** chaired scientific sessions at the 2nd International conference and exhibition on 'Pharmaceutical Development and Technology' held at Hyatt Regency, Osaka, Japan on 11-12th May, 2018. **Dr. V. A. Kilor** delivered lecture on "Drug printed oral thin films: Future trend in drug delivery technology" and **Dr. N. P. Sapkal** on the topic 'Technology development of Bi/Multilayer films' at the same conference. The conference was organized by Conference series and Editors of *Journal of Developing Drugs*, *Pharmaceutica Analytica Acta* and *Drug Designing*.
- **Dr. N. P. Sapkal** participated as resource person and delivered a guest lecture on 'GAMP and its impact on Pharmaceutical Quality Systems' in DTE sponsored one week Quality Training Program entitled 'Impact of modern quality systems on Pharmaceutical Education and Industries' organized by Government College of Pharmacy, Amravati on 20-24th Feb, 2018

### Seminar/Workshop/SDP/QIP/Training Program Attended

- All the faculty members and students of B. Pharm III and IV year attended Dr. A. K. Dorle Memorial Lecture Series, 2018 organized by Alumni, Pharmaceutical Students Association, Department of Pharmaceutical Sciences, RTM Nagpur University, Nagpur and Dr. A. K. Dorle Memorial Trust, held at Pandit Vasant Rao Deshpande Sabhagruha, Civil Lines, Nagpur on 14th Mar, 2018
- **Dr. N. P. Sapkal** attended 'FDD Conclave 2018' organized by Express Pharma Group at Hotel Novotel, Hyderabad on 15-16th Jun, 2018-08-12
- **Dr. N. P. Sapkal** attended 'iPHEX-2018 (International Exhibition of Pharma and Healthcare)' organized by Pharmexil, Govt. of India at Pragati Maidan, New Delhi, held on 9-10th May, 2018
- **Dr. S. B. Waikar** attended one day conference on 'Emerging Microbes and Infection & its impact on Public Health', organized by Research Centre, Dr. G. M. Taori Central India Institute of Medical Sciences, Nagpur, at Hotel Centre Point, Nagpur on 9th Feb, 2018
- **Dr. S. P. Padmane** attended AICTE sponsored two week Quality Improvement Program on 'Advances in Drug Discovery and Pharmaceutical Sciences: A Research Perspective' organized by Bharati Vidyapeeth, Poona College of Pharmacy, Pune on 5-17th Feb, 2018
- **Dr. S. P. Padmane**, **Mr. G. K. Lohiya** and **Mr. K. S. Moharir** participated in one day NBA workshop conducted by Datta Meghe Institute of Management Studies, Nagpur on 11th Jan, 2018



- **Mr. K. S. Moharir, Mr. K. B. Bhelkar, Mr. G. K. Lohiya and Mr. T. M. Rasala** attended two days training workshop on 'Computer in Pharmaceutical Drug Development' held at Gurunanak College of Pharmacy, Nagpur on 24-25<sup>th</sup> Feb, 2018
  - **Mr. T. M. Rasala** attended one day workshop on 'Way to scientific writing and publishing with effective tools' organized by Institute of Pharmaceutical Education and Research, Borgaon (Meghe), Wardha in association with Write and Scribe Solutions, Pune on 8<sup>th</sup> Mar, 2018
- Mr. T. M. Rasala** attended one day state level workshop on 'NBA process for Pharmaceutical Educational Institute' organized by HI-Tech College of Pharmacy, Chandrapur on 30<sup>th</sup> Dec, 2017



## SUCCESS STORY

**Glenn Mario Saldanha**

Chairman, MD & CEO, Glenmark Pharmaceuticals Limited

Mr. Glenn Mario Saldanha has been the Managing Director and Chief Executive Officer of Glenmark Pharmaceuticals Limited since 2001. This person is connected to 10 board members in 2 different organizations across 3 different industries. Mr. Saldanha serves as the Chief Executive Officer of Glenmark Pharmaceuticals S.A. He has worked for Eli Lilly in the U.S and was a Management Consultant with Price Waterhouse Coopers. His Services have been used by Smithkline Beecham, Rhone Poulenc Rhorer, Astra, Merck and Johnson and Johnson, among others. He has 15 years of experience in Pharmaceutical Industry. He has been the Chairman of Glenmark Pharmaceuticals Limited since May 10, 2011. Mr. Saldanha served as Chairman of Glenmark Generics Ltd. He has been a Director of Glenmark Pharmaceuticals S.A. since 1998. He served as Independent Director of Talwalkars Better Value Fitness Ltd. since October 2009 until November 22, 2011. He was awarded the Watumall Foundation Award for overall excellence. Mr. Saldanha holds a B.Pharm. from Bombay University and an MBA from New York University's Leonard N. Stern School of Business (US).

As the Chairman & MD of Glenmark Pharmaceuticals Limited, Glenn Saldanha oversees the entire operations of the organization. In just a decade, Glenn has transformed Glenmark from an India focused branded generics business to an organization which has significant presence across major emerging and developed economies. Glenmark's branded generics presence is spread across five regions viz. Asia including India, Central Eastern Europe, Africa, Latin America and CIS. In less than half a decade, Glenmark has established itself among the top 25 generics companies in the US and also built a sizeable API business in a short period. But the biggest achievement for Glenmark during his tenure has been its ability to discovery best-in-class or first-in-class molecules for global development and unmet medical needs thus positioning Glenmark as a leader in drug discovery. Glenmark has managed to strike seven outlicensing deals in innovative R&D with big pharma. Even then, Glenmark has presently a rich pipeline of seven molecules in clinical and preclinical stages, all having potential in the range of USD 1 billion to 3 billion, if successfully commissioned. Glenn's vision is to discover, develop and take to market India's first innovative drug for the entire world. Glenn was conferred with 'Swiss Ambassador's Award for Exceptional Innovation' by the Embassy of Switzerland in 2012. In the same year; India's leading English daily – Hindustan Times featured him as one of the 'Top 30 Youth Icons of India'. Glenn was also awarded “Young Business Leader of the Year” at the India Business Awards, 2009 organised by the UK Trade & Investment Body. In 2008, India's leading business magazine “Business Today mentioned Glenn as one of the “21 leaders to watch out for in the 21st Century”. In Dec 2008, Business World, another leading Business publication in the country ranked Glenn as India's second most Value-able CEO.



## GURUNANAK COLLEGE OF PHARMACY

Near Dixit Nagar, Behind C. P. Foundary,  
Nari, Kamptee Road, Nagpur - 440026 (M.S).

E- mail: [gncp2004@yahoo.com](mailto:gncp2004@yahoo.com)

[www.gncp.edu.in](http://www.gncp.edu.in)