



PHARMAVOICE..

AISSMS SOCIETY'S COLLEGE OF PHARMACY NEWSLETTER ...



VOL. 3 ISSUE 2

OCTOBER - DECEMBER 2017

VISION

- To be amongst the top ten Pharmacy colleges in India by imparting excellence in Pharmacy education.
- Instilling research temperament in Pharmacy students.
- Continuous up gradation of infrastructure to maintain high standards of education

MISSION

- Inculcating timeless values of caliber, competence, confidence and conscience in budding pharmacists.
- Indoctrinate quality in all aspects of Pharmacy education thereby enabling provision of better healthcare services.

QUALITY POLICY

- The AISSMS College of Pharmacy is committed to empower our students to meet global challenges in Pharmacy profession through excellence in education.
- Our highly qualified and committed faculty is constantly exploring newer frontiers of knowledge with the intention to build quality pharmacist.
- We believe in honing the overall persona of our students through excellence in academics, co curricular and extracurricular activities.
- We strive to develop a sense of social obligation and discipline among our students not only to make a better technocrat but also a better human being.

OBJECTIVES

- To provide sufficient understanding of scientific principles and techniques of pharmaceutical sciences.
- To develop commitment for the quest of science.
- To provide comprehensive knowledge and experience.
- To provide exposure to latest techniques and technologies.
- To teach pharmacy ethics to students.
- To cater to manpower for globally growing pharmaceutical industry and for implementation of drug laws for compliance to regulatory norms.

All India Shri Shivaji Memorial Society's
College of Pharmacy
Kennedy Road, Pune-411 001

CONTENTS

Editorial	2
News and Events	2
Achievements	6
Upcoming Events	6
Did you Know	7
Scope of Pharmacy	8
Scientific Contents	9
Leading Edge	11

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EDITORIAL

Hello everyone, we all welcome you in our next issue of Pharmavoice. We the members of this newsletter always believe on vitality. Vitality shows not only the ability to persist but the ability to start over. Hence the journey of Pharmavoice we are experiencing is very beautiful having the attachment to every AISSMS COPIans success.

Hellen Keller always used to say that, “*The best and most beautiful things in the world cannot be seen or even touched, they must be felt with an heart.*” Similarly the achievements of the students have always been a lot of success. Our students did the incredible jobs in IPC Quiz and won 2nd prize. At the same time their enthusiasm was to be entertained on the sports week. They were just saying that “Love the moment and the energy of that moment will spread beyond all boundaries.”

By keeping the same energy, we assure you that we will trigger our success with new achievements.



TEAM PHARMAVOICE

(Sitting From L to R)

Ms. Nishigandha Yadav (M. Pharm. I year)

Dr. Santosh Gandhi (Faculty Member)

Dr. Ashwini R. Madgulkar (Principal)

Mrs. Shital Patil (Faculty Member)

Ms. Shivani Jadhav (M. Pharm. II year)

(Standing From L to R)

Ms. Samruddhi Pande(B. Pharm. I Year)

Mr. Saurabh Rohom (B. Pharm. II Year)

Mr. Vaibhav Ghegade (B. Pharm. III Year)

Mr. Rushikesh Sonaikar (B. Pharm. IV Year)

NEWS & EVENTS



1. Post graduate students Aparna Zirange (QAT), Mayur Kale & Ambadas Mane (Pharmacology), Vaibhav Gawade (Pharm. Chem.) attended Avishkar Orientation lecture at Modern Law College on 20th Sep 2017. Also, Atharva Kulkarni and Sajid Sande of Second Year B. Pharm. and Shraddha Pardeshi & Shagufta Shaikh from Sem IV M. Pharm. (Pharmaceutics) had participated in Avishkar Orientation program organized at MCE Society's Allana College of Pharmacy, Pune on 22nd September 2017. Also, Laxmi Choudhari, Riddhi Wauhal, Mahima Gaikwad, Shivam Jaiswal, Saurabh Rohom, Ashwini Deokar, Neha Sali, Vaibhav Ghegade from Second Year B. Pharm attended Avishkar Orientation lecture at M. M. College of Pharmacy, Thergaon on 7th October 2017.

Students of AISSMS College of Pharmacy had enthusiastically participated in the program. The orientation was about Avishkar competition, the required criteria for students to participate, etc. Effective method of Poster Presentation and Oral Presentation was also amongst the topics in the orientation program. Participants were made familiar with different stages of Avishkar competition.

2 .Dr. Santosh V. Gandhi attended one day workshop on “QbD APPROACH FOR PHARMACEUTICAL DEVELOPMENT ‘THE ROAD AHEAD’” organized by Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri on 14th October 2017. The M. Pharm students Mr. Yogesh Rewachandani, Ms. Kirti Bhutada, Ms. Shagufta Shaikh, Ms Sayali More, Ms. Shraddha Pardeshi from Dept of Pharmaceutics and Ms. Bhavana Patil, Ms. Pratidnya Sonawane and Mr. Anand Singhal from Dept of Quality Assurance Techniques also participated in the workshop.

3. Two teams each from UG and PG participated in SPPU zonal level research competition “Avishkar 2017” held at Marathwada Mitra Mandal’s College of Pharmacy, Thergaon. The event was organized on 28/10/2017. The details of teams participated were as below:

Sr No	Name of students	Category
1.	Aman Padamsey, Pratiksha Deodhar,	UG
2.	Shivam Jaiswal, Vipul Fegde, Vinod Gaikwad	UG
3.	Rutuja Kurkute, Sumit Pardhi	PG
4.	Shagufta Shaikh, Shraddha Pardesi	PG



4. Dr. Santosh V. Gandhi along with M. Pharm.

Students Ms. Vaishali Shevale and Ms. Madhuri Rathi visited Analytical R & D and Q. C. Dept of Batavia Exports International, Paud Road on 27/10/17. They were welcomed by Manager Mr. Suyog Chepurwar and had walk through different laboratories .



5. An Environmental Field Visit was organized for students of Second Year B. Pharm to Bhimashankar Wildlife Sanctuary on November 2nd, 2017. The students also visited the Tiger Rehabilitation Center. At the wildlife sanctuary, students were informed about various species of medicinally important plants and about local faunal species. The visit was organized under the guidance of Prof. Jitendra Gajbe, Subject teacher for Environmental Science. Students were also accompanied by faculty member Mrs. Shital Patil and Mr. Pradip Sonawane .



Failure will never overtake me if my determination to succeed is strong enough. – Og Mandino

6. As part of curriculum; an industrial visit was organized for Third Year B. Pharm students to **ACG Associated Capsules in Shirwal** on Saturday 4th November 2017. Four staff members i.e. Dr. M. C. Damle, Dr. M. R. Bhalekar, Dr. S. V. Bhandari and DRr. MRP Rao accompanied 58 students of third year B. Pharm.



The students and faculty were received by HR personnel who briefed the team about ACG Group of companies and its outreach in various segments of the pharmaceutical industries. The knowledgeable and enthusiastic personnel of the company explained various aspects of Good Manufacturing Practices and stages in the manufacture of hard gelatin capsule shells as well as various equipments and quality control procedures involved in the same.

The team also visited a **Zilla Parishad School in Kikwi village** in Shirwal where the



students and faculty got an opportunity to see the solar powered school as well as various innovative equipments and vehicles using sustainable energy sources like sunlight. The visit was coordinated by the Training and Placement cell comprising Dr. MRP Rao and Mr. R. R. Padalkar.

7. Government of India has decided to celebrate 15th October as '**Vachan Prerna Diwas**' to mark birth anniversary of visionary spirit and former President of India, late Dr. A.P.J. Abdul Kalam. This year the celebration of '**Vachan Prerna Diwas**' was done on 7th November 2017 (considering exams of students in October followed by Diwali vacation). This year we celebrated the day by gifting books (Motivational, Story books etc.) by well known authors to students of B. Pharm as well as M. Pharm, based on random selection by picking the chits of their names, by Principal madam.



8. Report of sports week-”Ranangan 2017” - Sport week “Ranangan ” is held every year to promote hidden talent of students in the events other than academics. Sport Week “Ranangan 2017” was celebrated between 11th to 13th November 2017.



The sports week included various indoor and outdoor events namely chess, table-tennis, carrom, arm-wrestling, rangoli, folwer arrangement, collage, mehendi, handwriting competitions for indoor and basketball, football,

volleyball, tug of war, throw ball, cricket and athletics etc comprised the outdoor competitions. All the students actively participated and were well disciplined throughout the event. The final year B.Pharm. Class won the General Championship trophy for the year 2017-18.



9. World Diabetes Day was celebrated at AISSMS College of Pharmacy, Pune on November 14th, 2017. The event was organized by students of Second Year B. Pharm under the guidance of their class teacher Mrs. Shital Patil.

The event included poster making competition



and Street play. Posters were made by students of Second Year B. Pharm on the topic - Awareness about Diabetes. Brinda Nadar and Ram Polawar won the 1st Prize while Renuka Ajalkar and Shivanjali Sabale were the runner-up in poster making competition. A drama was performed by the students of Second Year B. Pharm regarding diabetes awareness with a message about cause and prevention of diabetes.

STUDENTS' ACHIEVEMENTS



1. YIN Elections: Mr. Ashish Khade was elected as college representative for Young Inspirator's Network. The voting was conducted on 7th Sept 2017 and results were announced after counting on 8th Sept 2017.
2. Avishkar 2017-18 Zonal Level Round: A team of Mr. Aman Padamsey and Ms. Pratiksha Deodhar with topic **"Cuspidor Employing Sputum Lock Technology"** were selected through zonal level round of Avishkar 2017-18 conducted on 28/10/2017 for the University level round. round to be held in January 2017 in the campus of SPPU, Pune .
3. Ms. Pratiksha Deodhar, Ms. Shruti Lohkare, Mr. Aman Padmasey (Final Year B. PHARM) and Mr. Vaibhav Ghegade (T.YB. PHARM) participated in IPA - 69th IPC National Pharma quiz 2017. Preliminary online round was conducted on 5/11/2017, where in our team stood fifth amongst 180 pharmacy colleges and

qualified for the semi final round. Semi finals and Finals were conducted at A. U College of Pharmaceutical sciences, Vishakhapatnam on 10/12/17. Our team viz, Pharma Eagles was ranked **second** among the final 15 teams. Students have won a cash prize of Rs. 15000/-,



Individual mementos, certificate of merit and trophy for the college. Heartiest Congratulations to our students!



COLLEGE ACHIEVEMENTS (2016-2017)

National Pharmacy Week: Our UG team won the general championship trophy whereas PG team won the runner up trophy at National Pharmacy Week 2017 conducted by IPA Pune Branch.

UPCOMING EVENTS



- | | |
|---|--|
| 1. National Youth Day Celebration. | by Vision Express, Kothrud, Pune. |
| 2. Republic Day Celebrations - 26 th January 2018 | 4. SPPU sponsored two days National Level |
| 3. AISSMS college of Pharmacy, student development board is organising lectured session on Stri Bhrun Hatya and Eye Care for the student of B.Pharm and M.Pharm in February 2018 at college auditorium. The session will start at 10.00 pm with lecture on Stri Bhrun Hatya by Dr. Kshirsagar and Dr. Biradar (Medical officer PMC, Pune). In the afternoon session lecture on eye care and eye testing of student will be done | Seminar on 'Insights of accreditation process for affiliated colleges' – 6 th and 7 th February 2018 |
| | 5. Alumni Meet – 10 th Feb 2018 |
| | 6. Shiv Jayanti Celebrations - 19 th Feb 2018 |
| | 7. Annual Day Celebration (Spandan 2018) – 21 st and 22 nd February 2018 |
| | 8. Fire Fighting and Disaster Management Sessions February 2018. |

A creative man is motivated by the desire to achieve, not by the desire to beat others.—Ayn Rand

9. Marathi Bhasha Din Celebration – 27th February 2018
10. Blood Donation Camp (AISSMS Society) – 21st February 2018
11. Personality Development Programme for B. Pharm and M. Pharm students.
12. National Youth Day Celebration.

DID YOU KNOW: Drug Interactions



Food- drug interactions are defined as alterations of pharmacokinetics or pharmacodynamics of a drug or nutritional element or a compromise in nutritional status as a result of the addition of a drug. The foods we eat can interfere with the medications we take. Patients may not recognize that otherwise healthy foods can have severe consequences when mixed with certain drugs.

Pharmacist should recognize their responsibility to clearly communicate the risk of possible food- drug interactions for both prescription and OTC medicines. Here are some of the most dangerous food-drug interactions that pharmacist can help prevent:

1. Calcium- Rich Foods + Antibiotics-

Dairy products such as milk, yogurt, and cheese can interfere with certain medications, including antibiotics such as tetracycline, doxycycline and ciprofloxacin. These antibiotics may bind to the calcium in milk, forming an insoluble substance in the stomach and upper small intestine that the body is unable to absorb.

2. Pickled, cured, and Fermented foods + MAIOs-

This food category contains tyramine, which has been associated with a dangerous increase in blood pressure among patients taking monoamine oxidase inhibitors (MAOIs) and certain medications for Parkinson's disease.

3. Vitamin k- Rich foods + Warfarin-

Pharmacists should counsel patients taking warfarin to maintain a consistent intake of vitamin k and avoid introducing kale, spinach, and other leafy greens to their diets. Vitamin K is

vital for the production of clotting factors that help prevent bleeding, but anticoagulants like warfarin exert their effect by inhibiting vitamin k. therefore, an increased intake of the nutrient can antagonize the anticoagulant effect and prevent the drug from working.

4. Alcohol + Prescription Stimulants-

Patients should always be wary of mixing any medication with alcohol, but some interactions are more serious than others. For instance, ingesting alcohol while taking a prescription stimulant could cause the patient to not fully realize how intoxicated they are. This is especially true when the stimulant is being abused, but it can also happen when the patient takes the drug as prescribed.

5. Grapefruit and Grapefruit juice + Statins-

Patients should avoid eating grapefruit or drinking grapefruit juice while taking some medications, in particular statins. Compounds in grapefruit called furanocoumarin chemicals cause an increase in medication potency by interacting with enzymes in medication potency by interacting with enzymes in the small intestine and liver. This interaction partially inactivates a number of medications under normal circumstances.



SCOPE OF PHARMACY-GOVERNMENT SECTOR: SENIOR RESEARCH ASSISTANT



India is one of the richest countries in the world in terms of biodiversity, has 15 agro-climatic zones. Out of the 17000-18000 species of flowering plants, more than 7000 are estimated to have medicinal usage in folk and documented systems of medicine like Ayurveda, Unani, Siddha & Homoeopathy (AYUSH System of Medicine). Medicinal plants are not only a major resource base for the traditional medicine & herbal industry but also provide livelihood and health security to a large segment of Indian population.

Post: Senior Research Assistant

Classification: General Central Service - Group "B" - Non-Gazetted - Non- Ministerial

Scale of pay: Rs.9300-34800 plus grade pay Rs. 4200 (Level-6 pay matrix Rs.35400- 112400/- 7th Pay Commission)

Eligibility conditions, Educational Qualification. Experience etc., for Direct Recruitment.

(I) Master's degree of Science in Botany or Pharmacognosy or Forestry or Agriculture or Horticulture or Medicinal Plants or Bio-Technology or Pharmacy (with Pharmacognosy as a main subject) from a recognized University or Institute or equivalent.

Desirable:-

(i) Two Years' experience or working in a Government or semi-Government department or reputed non-Government organization dealing with Research, Development and Cultivation or Medicinal and Aromatic Plants.

(ii) Knowledge of Computer application.

Age: Not exceeding 30 years (Relax able for Government servants up to 5 years' in accordance with the instructions or orders issued).

Eligibility conditions, Educational Qualification. Experience etc., for Deputation Basis Recruitment:

Officers under the Central/State Government or Union Territories or Universities or Recognized Research Institute or public Sector Undertakings or Semi Government Autonomous or Statutory organizations:

- (a) (i) Holding analogous post on regular basis in the parent cadre or department; or
- (ii) With three years' service in the grade rendered after appointment thereto on regular basis in the pre revised scale of pay of Rs.9,300-34,800/- plus grade pay Rs.4,200/- (pay matrix 35400-112400/-, Level-6 of 7th Pay Commissioner equivalent in the parent cadre or department; or
- (iii) With six years' service in the grade rendered after appointment thereto on a regular basis in the pre-revised scale of pay of Rs.5,200-20,200/- plus Grade Pay Rs.2,800/- (pay matrix 29200-92300/-, Level-5 of 7th Pay Commission) in the parent cadre or department; or
- (b) Possessing the following educational qualifications and experience

Essential:-

(ii) Master's degree of Science in Botany or Pharmacognosy or Forestry or Agriculture or Horticulture or Medicinal Plants or Bio-Technology or Pharmacy (with Pharmacognosy as a main subject) from a recognized University or Institute or equivalent.

Desirable:-

(i) Two Years experience of working in a Government or semi Government department or reputed non-Government organization dealing with

Setting goals is the first step in turning the invisible into the visible.—Tony Robbins

Research, Development and Cultivation of (ii) Knowledge of computer operation Medicinal and Aromatic plants.

SCIENTIFIC CONTENTS: PHARMACY INDUSTRY-

DR. REDDY'S LABORATORIES



Dr. Reddy's Laboratories is an Indian multinational pharmaceutical company based in Hyderabad, Telangana, India. The company was founded by Anji Reddy, who previously worked in the mentor institute Indian Drugs and Pharmaceuticals Limited, of Hyderabad, India. Dr. Reddy's manufactures and markets a wide range of pharmaceuticals in India and overseas. The company has over 190 medications, 60 active pharmaceutical ingredients (APIs) for drug manufacture, diagnostic kits, critical care, and biotechnology products.

The drugs manufactured at Dr. Reddy's range from that used for local treatment like **antibiotics, cardioactive, dermatological products, CNS acting, antihistaminic, etc.**

Dr. Reddy's originally launched in 1984 producing active pharmaceutical ingredients. In



Dr. Reddy's Laboratories Ltd, Hyderabad

1986, Reddy's started operations on branded formulations. Within a year Reddy's had launched Norilet, the company's first recognized brand in India. Soon, Dr. Reddy's obtained another success with Omez, its branded omeprazole – ulcer and reflux oesophagitis medication – launched at half the price of other brands on the Indian market at that time. Within a year, Reddy's became the first Indian company to export the active ingredients for pharmaceuticals to Europe.

Dr. Reddy's began as a supplier to Indian drug manufacturers, but it soon started exporting to other less-regulated markets that had the advantage of not having to spend time and money on a manufacturing plant that would gain approval from a drug licensing body such as the U.S. Food and Drug Administration (FDA).

In 2014, Dr. Reddy Laboratories was listed among 1200 of India's most trusted brands according to the Brand Trust Report 2014, a study conducted by Trust Research Advisory, a brand analytics company.

By 2007, Dr. Reddy's had seven FDA plants producing active pharmaceutical ingredients in India and seven FDA-inspected and ISO 9001 (quality) and ISO 14001 (environmental management) certified plants making patient-ready medications – five of them in India and two in the UK.

The company has subsidiaries and manufacturing units in **Australia, Canada, China, Germany, New Zealand, Romania, Russia, South Africa, Spain, United Kingdom, United States.**



Dr. Anji Reddy (Founder)

Company History

1984: Scientist and entrepreneur, Dr. K Anji Reddy establishes Dr. Reddy's Laboratories with a vision of making medicines accessible to the millions in India.

1987: First Indian pharma company to export Norfloxacin and Ciprofloxacin to Europe and Far East. India.

1991: launched Omez, Dr. Reddy's brand of Omeprazole, which goes on to become Dr. Reddy's first INR 1 Billion brand.

1992: The company's first international move took it to Russia in 1992. There, Dr. Reddy's formed a joint venture with the country's biggest pharmaceuticals producer, Biomed.

1994: Reddy's started targeting the US generic market by building state of art manufacturing facility.

1997: Reddy's made the transition from being an API and bulk drug supplier to regulated markets like the USA and the UK, and a branded formulations supplier in unregulated markets like India and Russia, into producing generics, by filing an Abbreviated New Drug Application (ANDA) in the USA

1999: American Remedies Ltd. in 1999. This acquisition made Reddy's the third largest pharmaceutical company in India, after Ranbaxy



Satish Reddy (CEO)

and Glaxo (I) Ltd., with a full spectrum of pharmaceutical products, which included bulk drugs, intermediates, finished dosages, chemical synthesis, diagnostics and biotechnology

2001: First non-Japanese pharmaceutical company from the Asia-Pacific region to obtain a New York Stock Exchange listing. Reddy's completed its US initial public offering of \$132.8 million, secured by American Depositary Receipts.

2004: Reddy's acquired Trigenesis Therapeutics Inc; a US-based private dermatology company. This acquisition gave Reddy's access to proprietary products and technologies in the dermatology sector.

2006: Dr. Reddy's acquired BetapharmArzneimittel GmbH from 3i for 480 million Euros. This is one of the largest-ever foreign acquisitions by an Indian pharmaceutical company.

SOME TOP BRANDS OF REDDY

North America	India	Russia
Decitabine Injection	Omez	Nise
OTC	Omez-DSR	Omez
Omeprazole Mg		
Azacitidine	Nise	Ketorol
Metoprolol ER	Stamlo	Cetrine

LEADING EDGE



matured and we have huge scope in just about all the segments of the health care industry. Number of opportunities in the US/Europe or elsewhere are limited and takes the same hard work/time or even more to reach any position .

Do you believe it is a good time to start up on your own- here in India? Or do you suggest the job security of a conventional 9-5 job?

It is a good time to start on your own if one has gathered enough knowledge and ready with the determination to succeed. But nowadays a conventional job is also pretty lucrative .

Mr. Shakeel Shaikh, Director of operations and research, Avlon Pharm, Saudi Arabia did his schooling from Habib High School, Mumbai; Inter Sc. from St Xavier's College, Mumbai; B. Pharm from KMK College of Pharmacy and M Pharm from Pune University. Avalon Pharma is a Limited liability pharmaceutical manufacturing company operating from Riyadh in the Kingdom of Saudi Arabia. Avalon had 2017 turnover of 52 million USD

How did you break into the field you are in today?

I started working in Manufacturing, took up research assignments; volunteered to work in projects; worked on many projects at home and overseas and thus got invited to present assignment.

What are the most interesting and/or current developments in your field?

The advances and commercialization of Biotech products in pharmaceutical dosage forms.

Given the current circumstances, what do you feel about pursuing higher studies in the Healthcare field in a foreign country i.e. USA, Canada etc.?

Pursuing higher studies in the US is definitely a plus; we do have very good institutes in India too. I would refrain from going to the substandard colleges that have mushroomed in our country.

What kind of opportunities does the Indian market promise as compared to foreign markets e.g. North America/Europe?

The Indian market has really come of age and

What do you see lacking in young recruits today? What improvements would you suggest?

What is lacking is the will to take on challenges; expectations in terms of remuneration are too high compared to their contribution to the workplace or learning from the job. Improvements should be in acquiring job knowledge and skills.

We would love to hear what you think about the Pharmacy course in India. Kindly express your views .

The pharmacy course is pretty well designed; I think it should be converted to a 5-year course, wherein the first 3 years all management and pharmacy subjects are covered and the last 2 years the students specialize in industrial or clinical.... etc.

The post graduation should be designed only for students wanting to pursue a career in only research in different segments of pharmaceutical sciences viz. product development, Drug Chemistry, etc.

What is your message to young graduates/postgraduates in Pharmacy?

Continue in pharmacy if you enjoy your profession or find other way out. Learning never stops, do a perpetual value addition.

Is there anything else you would like to share with us?

Our country is producing too many pharmacists who do not know why they are in the profession and all of us should make an effort to change this .



**WORLD
ANIMAL
DAY**

OCTOBER 4



**FIGHT FOR
ANIMAL RIGHTS**

*"Animals can communicate quite well. And they do.
And generally speaking, they are ignored."*

~Alice Walker

Be The Voice
For The Voiceless
If only his owners had cared



ANIMALS NEED HELP AND COMPASSION

**INTERNATIONAL
ANIMAL
RIGHTS
DAY
DECEMBER 10**



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Education is the most powerful weapon which you can use to change the world.
Nelson Mandela¹²