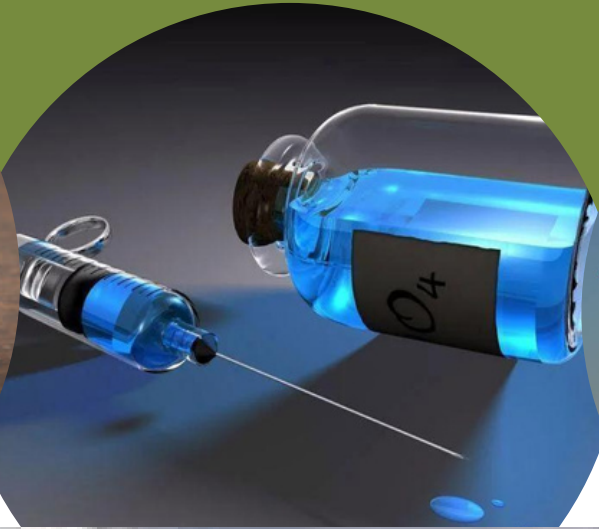


ADCBP E-NEWSLETTER 2021-22



**volume- 6
Issue-II**

Our Inspiration

84 Years of Social Excellence



- Former Minister for Rural Development, Water supply, Social Welfare, Maharashtra State.
- Founder of 41 educational institutes with best track record.
- Best Parliamentarian award for best speech on the floor of the house.
- Author of Various inspiring books.

Hon. Shri. Annasaheb Dange
Founder

Sant Dnyaneshwar Shikshan Sansthas
ANNASAHEB DANGE COLLEGE OF B.PHARMACY, ASHTA

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Dr. M. G. Saralaya

Co-Ordinator

Ms. S. P. Desai

VISION

“To create competent pharmacy professionals who can efficiently contribute for the healthcare system of society and to the pharmacy profession.”

MISSION

- 1) To provide student centric active innovative learning environment, with strategically planned quality pharmaceutical education consistent with the policies of state and nation.
- 2) To nurture and inculcate the team spirit, research, innovation, Creativity and entrepreneurship.
- 3) To strengthen Industry- Institute and Institute – institute interaction for the overall development of students.
- 4) To help the students to disseminate acquired knowledge through the fullest commitment for healthcare services.

Editor's Message



Prof. Dr. Mahesh. G. Saralaya

Professor and Principal,

Annasaheb Dange College of B. Pharmacy, Ashta

It gives me an immense pleasure to present before you **ADCBP E-Newsletter, Volume-6, Issues-II, 2021-2022**, proudly with its unique creation in the form of the Bi-Annual news which serves as a platform. It was quite inspiring to watch and witness the potential of our students/staff unfolding at various stages and situations each day. ADCBP Newsletter carries the contributions reflecting ethos and aspirations of the students, faculty and other team members of the institution. ADCBP Newsletter brings to light the names of the unsung heroes and their mighty deeds. I am happy that there is a dedicated team of staff and students who have presented the astonishing achievements of ADCBPians in the fields of academics, research, sports and extra-curricular activities.

The management and the staff have been to highlight the literary and artistic segment of the ADCBP-family. Supportive of the various activities that were undertaken by the students in view of helping them reach the pinnacle of perfection and professionalism in whatever task they took on thus strengthens our journey of achieving excellence. There is nothing...absolutely nothing that stops the ADCBP juggernaut from rolling forward, going on boldly from one project to another leaving the spectators spell-bound. Everything that ADCBP touches turns into gold.

The ADCBP Newsletter is presenting a glimpse of the growth of the institution on many fronts. The college has been simply unstoppable in its progress as it has been actively involved in various activities that have brought to light the hidden talents of the college students and staff. The highly qualified and dedicated members of staff have always stood shoulder with the Principal and it is always a pleasure to be a part of a team which strives to bring out the talents of students.

Congratulations to Ms. Shailaja Desai (Dept. of Pharmaceutical Chemistry) and Ms. Shivani Khairmode (Dept. of Pharmaceutical Chemistry), Co-editor/Co-ordinator of ADCBP Newsletter and my team for their determined efforts in bringing out this Newsletter.

Co-Editor's Message



Ms. Shailaja P. Desai

Assistant Professor

Department of Pharmaceutical Chemistry

Dear ADCBP Students and Readers; Welcome to E-Newsletter, Volume-6, Issues-II, 2022. It is with great pleasure that I am here to welcome you to ADCBP E-newsletter Volume-6, Issues-II, 2021-2022. It gives me immense pleasure in bringing out the E-newsletter. The newsletter has includes academic excellence, student's achievements, scientific articles, extra-curricular activities and events organized by the institute.






I would like to express our sincere thanks to Respected Principal Sir, **Prof. Dr. Mahesh G. Saralaya** for giving us an opportunity and reliable guidance to Co-ordinate this e-newsletter. I also thank our colleagues, students and staff for their co-operation, support and encouragement during compilation of these-newsletter.

Once again, I would like to thank all of those individuals who are, or have been, associated with the E-newsletter and we look forward to many more of publishing the E-newsletters in the future. Suggestions and Criticism for further improvement will be welcome.

I hope you all enjoy reading it as much as we do.

E- BULLETIN COMMITTEE

STUDENT COORDINATORS:

STUDENT EDITOR : Ms. Mali Bhagyashree R		
SEMESTER	NAME	
Sem II	Mr. Herwade Harshal A.	
Sem VI	Mr.Chaus Rehan	
Sem IV	Ms. Arpita Jamdade	
Sem II	Ms. Kalyani Sakshi Y.	

GESTURE TO PROFESSION

Roald Hoffmann



Hoffmann is a superb teacher, lecturer and writer who have done much to convey the achievements of chemistry to other scientists and the general public. He is known as “**Father of Indian Chemistry**”, He was a well-known Indian scientist and teacher and one of the **first “modern Indian chemical researchers.**

Birth: 2 August 1861, Raruli-Katipara, Jessore District, Bengal Presidency, British India.

❖ EDUCATION

- Hoffmann graduated in 1955 from New York City's Stuyvesant High School, where he won a Westinghouse science scholarship.
- He received his Bachelor of Arts degree at Columbia University (Columbia College) in 1958. He earned his Master of Arts degree in 1960 from Harvard University.
- He earned his doctor of philosophy degree from Harvard University.

❖ CONTRIBUTION & ACHIEVEMENTS:

- Hoffmann is a member of the National Academy of Sciences.
- The American Academy of Arts and Sciences, the American Philosophical Society, and several foreign academies.
- He has published more than 450 scientific articles.
- Hoffmann's research and interests have been in the electronic structure of stable and unstable molecules.

❖ RECOGNITION:

- Roald Hoffmann received the 1969 American Chemical Society Award in Pure Chemistry.
- In 1973, he received the Arthur C. Cope Award in Organic Chemistry.
- Roald Hoffmann and Kenichi Fukui jointly won the 1981 Nobel Prize in Chemistry, "for their theories, developed independently, concerning the course of chemical reactions".
- He was honoured with the National Medal of Science by the President of the United States in 1983.
- In 1984, he was elected as a Foreign Member of the Royal Society.
- In 1990, he was awarded the Priestley Medal by the American Chemical Society.
- He was elected the Harvard Centennial Medalist in 1994 and awarded with the Pimentel Award in Chemical Education in 1996.
- In 1997, he received of the E.A. Wood Science Writing Award.
- In 2006, the American Institute of Chemists Gold Medal was given to Roald Hoffmann.

ACADEMIC EXCELLENCE

MERITORIOUS STUDENTS

Class: First Year B. Pharm. Sem I + II

Rank Number	Name of Student	Total marks	Percentage %
1	Pathan Jainab Abdulmujib	1253	86.41
2	Gouraje Omkar Rajandra	1252	86.34
3	Mushrif Mohammadatif Riyaz	1239	85.45
4	Mohite Sakshi Dilip	1193	85.21
5	Sawant Nikita Dhanaji	1234	85.10

Overall Result Analysis

Sr. No.	Particular	No. of Students
1	First Class with Distinction ($\geq 75\%$)	82
2	First Class (60 – 74.99%)	23
3	Second Class (50 – 59.99%)	0
4	Fail ATKT	8
5	Total No. of Students	113
6	% of Passing	92.92%

Class: Second Year B. Pharm. Sem III + IV

Rank Number	Name of Student	Total marks	Percentage %
1	Jagtap Manisha Deepak	1171	90.08
2	Jagtap Aditi Shivaji	1163	89.46
2	Mohite Aarti Tanaji	1163	89.46
3	Jamadade Arpita Rajaram	1161	89.31
4	Kulkarni Shivam Amol	1156	88.92
5	Jamadade Dhanashri Sanjay	1150	88.46

Overall Result Analysis

Sr. No.	Particular	No. of Students
1	First Class with Distinction ($\geq 75\%$)	85
2	First Class (60 – 74.99%)	30
3	Second Class (50 – 59.99%)	0
4	Fail ATKT	13
5	Total No. of Students	128
6	% of Passing	89.84%

Class: Third Year B. Pharm. Sem V + VI

Rank Number	Name of Student	Total marks Out of 1400	Percentage %
1	Mohite Shreya Sharad	1325	94.64
2	Momin Saniya Javed	1299	92.79
3	Patil Sayali Sambhaji	1279	91.36
4	Chaus Rehan Hasim	1273	90.93
5	Patil Pratibha Tanaji	1253	89.50

Overall Result Analysis

Sr. No.	Particular	No. of Students
1	First Class with Distinction ($\geq 75\%$)	109
2	First Class (60 – 74.99%)	10
3	Second Class (50 – 59.99%)	0
4	Fail ATKT	1
5	Total No. of Students	121
6	% of Passing	98.34 %

Final Year B. Pharm Sem I-VIII

Rank Number	Name of Student	Percentage %	CGPA
1	Chavan Snehal Mahadev	84.17	8.99
2	Doijad Shital Ravindra	83.40	8.9
3	Dudhal Ravindra Ramchandra	83.30	8.86
4	Pange Prathamesh Sanjay	82.64	8.8
5	Jamadade Pratiksha Kantilal	82.51	8.75

Overall Result Analysis

Sr. No.	Particular	No. of Students
1	First Class with Distinction (CGPA ≥ 7.5)	90
2	First Class (CGPA 6.0 – 7.49)	05
3	Second Class (CGPA 5.0 – 5.99)	0
4	Fail ATKT	20
5	Total No. of Students	115
6	% of Passing	82.61 %

GPAT Crackers of ADCBP

AIR-556 Ravindra Dudhal	AIR-1817 Snehal Chavan	AIR-2253 Suyash Lavand	AIR-2506 Adarsh Patil	AIR-2722 Payal Pawar	AIR-3133 Narendra Mali	AIR-3238 Vedant Bhor
AIR-3574 Dada Padalkar	AIR-3987 Pratiksha Jamdade	AIR-4954 Ishrat Momin	AIR-4954 Dnyaneshwari Gurav	AIR-4954 Priti Pathak		
AIR-5655 Priyanka Shikhare	AIR-5655 Rutuja Kamble	AIR-10262 Ankita Ashtekar	AIR-1731 Ganesh Mote (Staff)			

NIPER Qualifiers 2021-2022



AIR-444
Suyash Lavand



AIR-761
Pratiksha Jamdade



AIR-781
Ravindra Dudhal



AIR-918
Narendra Mali



AIR-1885
Snehal Chavan



AIR-2062
Adarsh Patil



AIR-2378
Vedant Bhor

*If You can
Dream it
You can
Do it !!!*



FEATHERS ON THE CROWN

CONFERENCES/SEMINARS/WORKSHOP ATTENDED BY FACULTY MEMBERS

- + Ms. N. M. Jagtap (Delegate) attended One day webinar on Recent Advances in clinical research organized by Abhinav Education society's College of Pharmacy, Narhe, Pune on 21 January, 2022.
- + Ms. Kharat S. S. (Delegate) attended One-Week Online Faculty Development Programme on Scientific writing and research ethics organized by IES Institute of pharmacy, IES University on 25 – 31 January, 2022.
- + Mr. Chavan P. V. (Delegate) attended One-Week Online Faculty Development Programme on "Research Writing" organized by Vijaya Institute of Pharmaceutical Sciences for Women, Enikepadu, Vijaywada on 22 -27 November, 2022.
- + Ms. N. M. Jagtap (Delegate) attended One-Week Online Faculty Development Programme on "Research Writing" organized by Vijaya Institute of Pharmaceutical Sciences for Women, Enikepadu, Vijaywada on 22 -27 November, 2022.
- + Mr. Chavan P. V. (Delegate) attended One-Week Online Faculty Development Programme on Inculcating Universal Human Values in Technical Education, organized by All India Council for Technical Education (AICTE) on 21 -25 February, 2022
- + Ms. N. M. Jagtap (Delegate) attended One-Week Online Faculty Development Programme on Inculcating Universal Human Values in Technical Education, organized by All India Council for Technical Education (AICTE) on 21 -25 February, 2022.
- + Ms. Kharat S. S. (Delegate) attended Awareness/Training program on "National Intellectual Property Awareness Mission" organized by Intellectual Property Office, India (online) on 2nd March, 2022.
- + Mr. Chavan P. V. (Delegate) attended Awareness/Training program on "National Intellectual Property Awareness Mission" organized by Intellectual Property Office, India (online) on 2nd March, 2022.
- + Ms. N. M. Jagtap. (Delegate) attended Awareness/Training program on "National Intellectual Property Awareness Mission" organized by Intellectual Property Office, India (online) on 2nd March, 2022.

VARIOUS COMPETITIONS ATTENDED BY STUDENTS

- ✚ IIth Semester and IVth semester students participated in Quiz Competition, Scientific Video making Competition, Logo Designing Competitions under the aegis of Student association cell (EPSA and SAPA) the results are as follows:

Event	Prize	Name of Student(s)	Sem	
Quiz Competition	Winner	Ms. ShrutiKadam Ms. ArpitaJamdade	IV	
Scientific Video making Competition	Winner	Mr. Pavan Pukale	II	
	Runner	Mr. Yash Pawar Ms. Smita Vastre	II	
Logo Designing Competition	Winner (Alumni)	Ms. Supriya Patil	II	
	Winner (EPSA)	1) Kartik Koli 2) Saniya Momin	II IV	

Winner
(SAPA)

Mr. Sourabh Shete IV



PUBLICATIONS

International Journal of Green Pharmacy

PHARMACOGNOSTICAL EVALUATION OF ARISAEMA MURRAYI (J. GRAHAM) HOOK. LEAVES AND TUBERS FOR QUALITY CONTROL ASSESSMENT

Ravina Mohan Kamble, Ennus Tajuddin Tamboli, Amir Riyaz Tamboli

Abstract

Introduction: Arisaemamurrayi (J. Graham) Hook. is one of the plants belonging to the family Araceae, commonly called Murray's Cobra Lily or Snake Lily which is known for its medicinal benefits. However, no published work is available to date on pharmacognostical evaluation. **Materials and Methods:** Pharmacognostic evaluation of leaf and tubers was carried as per the standard guidelines which are based on morphological, microscopical, and physicochemical analysis. **Results:** The morphological evaluation of tubers revealed that tubers were hemispheric in shape, up to 5 cm radius; leaves were found to be coming up shortly after the peduncle, with peltate shape. The layers of the epidermis in the leaf are closely packed. Below the epidermis, there is 2–3 layers of collenchyma cells present. Microscopy study of powder showed the presence of a few layers of fibrous tissue. Cluster crystals of calcium oxalate and starch grains were also present in the powder. Preliminary phytochemical analysis showed the presence of carbohydrates, proteins and amino acids as primary metabolites, and alkaloids as secondary metabolites. **Conclusion:** Pharmacognostic characters studied will be helpful in morphological and microscopical standardization of A. murrayi.

Keywords –Pharmacognostical evaluation, Arisaemamurrayi, quality control, evaluation

Simultaneous Estimation of Atorvastatin and Aspirin by Dual-Wavelength Spectrophotometric Method from Tablet Dosage Form

Shailaja P. Desai *, Yasmin H. Momin, Sneha R. Jagtap, Rajesh S. Jagtap

Abstract

Atorvastatin calcium (ATR) and Aspirin (ASP) are beneficial in combination for elderly people in various health management conditions. Aim of present study is to develop simple, accurate, and precise method for simultaneous quantitative estimation of ATR and Aspirin from combined tablet dosage form. Method involves simultaneous equation, using methanol as common solvent. Calibration curves determination for both drugs has been carried out in 0.1 N HCl, phosphate buffer pH 6.8, and methanol as solvent. Linearity range was observed in the concentration range of 20-120 μ g/ml for ASP when scanned in 224 to 264 nm ranges ($R^2 = 0.999$) and 10-60 μ g/ml for ATR when scanned at ranges of 247 to 284 nm ($R^2 = 0.998$) respectively. Percent concentration estimated for ASP and ATR were 100.13 ± 1.8218 and 99.98 ± 0.98 , respectively. The method was found to be simple, economical, accurate and precise and can be used for quantitative estimation of ATR and ASP.

Keywords -ATR, ASP, accuracy, HPLC, methanol, Linearity.

Open Nano

Polydopamine surface-modified nanocarriers for improved anticancer activity: Current progress and future prospects

Sandip M. Honmanea,b,* , Manoj S. Charde b , Sachin S. Salunkhec,d , PrafullaChoudhari e , Sopan N. Nangare f

Abstract

From its inception, plenty of anticancer agents and gene therapies have been developed to account for cancer treatment. Despite this, the effectiveness of these therapies is flawed by toxic effects and failure to efficiently reach the target site. In this shade, novel drug delivery systems with advanced theranostic approaches have become a prerequisite in the domain of nanomedicines and nano therapeutics. Despite this, the challenges associated with drug delivery have been urged to be discovered in the area of “drug delivery” intended for the delivery of drug to a targeted site for enhancement in clinical results. To deal with these issues, attachment of ligands that offer the selective targeting of active moiety in cancer therapy. In this present review, we have discussed the polydopamine (PDA) surface-modified nanocarriers for improved anticancer activity. In brief, methods for cancer treatment, challenges in cancer drug delivery, and approaches for targeted delivery of anticancer drugs have been described. Afterward, PDA in drug targeting and surface modification has been disclosed that including the significance and mechanism of PDA coating along with functionalization, toxicity, and cellular uptake of polymeric nanoparticles-polymerized dopamine (NPs-pD). Finally, the conclusion and prospects of PDA surface-modified nanocarriers have been discussed in detail. Importantly, the adaptability and flexibility of dopamine polymerization is playing a central role in functionalized nanoparticulate drug carriers in cancer treatment. Predominantly, multifunctionality present on the PDA surface and possible secondary modification approaches offers the potential for delivery of nanocarriers to target cancer cells very selectively and efficiently.

Key words - Nootropic activity, Limoniaacidissima, Alzheimer’s disease, piracetam, scopolamine

Der Pharma Chemica, 2022, 14(3): 1-15

In Silico Molecular Modeling Study on Isatin Derivatives as Anti-Covid Agents Based on Qsar and Docking Analysis

Ganesh D. Mote* 1, Shubhangi S. Savale¹, Shubhangi S. Kharat², Aditya A. Bandgar¹

Abstract

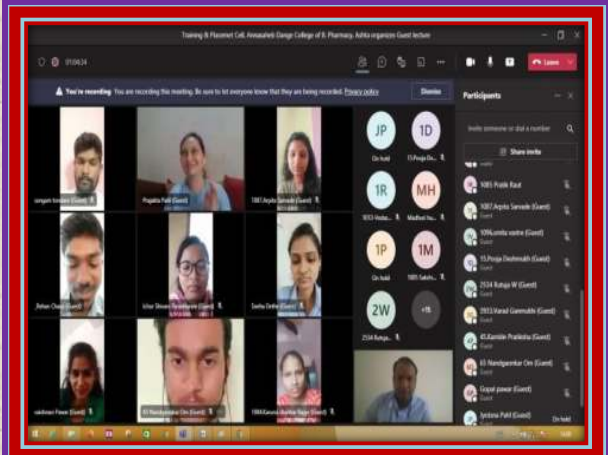
COVID 19 disease caused by novel SARS-CoV-2. It rapidly infects mammals and causes serious illness and death. The drug development against COVID 19 is a challenging task as COVID 19 disease spreads rapidly throughout the world. Drug development is a time-consuming process, but pandemics create an emergency to Design drugs as earlier as possible. In silico drug design is the key to fast-developing drug candidates. Corona virus's main protease plays a vital function in the viral reproduction cycle and is a potential target for COVID 19 inhibitor development. Most of the Isatin derivatives show potential activity against COVID 19. All possible COVID-19 inhibitors were designed by using reference molecule and QSAR study. V life MDS software has the facility drug development techniques like 2D-QSAR MLR analysis and 3D-QSAR kNN analysis. We designed 50 new Chemical entities molecules from 2 D QSAR and 3D QSAR and screened through the Lipinski rule of 5. All designed molecules satisfied the Lipinski screening criteria for the compatibility of drug to the body. Target enzyme i. e Main Protease (PDB: 6lu7) were downloaded from PDB site and studied docking interaction of new molecules with target enzyme by using Auto dock software. Docking of these new molecules also were checked with target enzyme by using V-life MDS software and docking score calculated. Study shown that one of the Isatin derivative methyl 2-(2, 3-dioxo-5-(1-(pyridin-3-yl) ethyl) indolin-1-yl) acetate (Dock score: -76.040 kcal/mol) new molecule entity shown potent activity than reference standard that is Ritonavir (Dock Score:-14.694 kcal/mol). This study indicates that Isatin derivatives potentially act as Anti-SARS-CoV-2 drugs.

Keywords -COVID 19; docking studies; Isatinderivative; Main Protease inhibitor; NCE; QSAR studies

GLIMPSE OF GUEST LECTURES/WORKSHOP ORGANIZED



Guest Lecture on by Miss. Pragati Ganguly



Guest Lecture on "Perspective of Quality Assurance & Quality Control in Pharma Industry"



Guest Lecture by Dr. Prashant Chougule



Three days workshop on communication & Employability Skills"



Kalam Program for IP Literacy and Awareness



Guest Lecture on "The Sexual Harassment of Women at Workplace and Gender Equality"

EVENT ORGANIZED**No Smoking Day**

Annasaheb Dange College of Pharmacy was celebrated **No Smoking Day** on 09th March, 2022 to highlight the signs & symptoms by Active & Passive smoking on the body. Dr. Dattatray S. Nikam (MD Ayurveda) was explained history, objective & popularization of smoking. Dr. Nikam sir aware that number of harmful content like Butane, Cadmium, Stearic acid, Toluene, Nicotine, Ammonia, Arsenic, Methanol are present in cigarette. Hon. Chairman Shri. Annasaheb Dange, Secretary Adv. Rajendra Dange, Executive Director, Prof. R. A. Kanai, Sant Dyneshwar Shikshan Sanstha's, Islampur, Principal Prof (Dr.) M. G. Saralaya, Principal ADCBP, are guiding us and Ms. Sayee Jagdale & Shreya Mohite Welcome to Participants of No Smoking Day. Finally, Ms. Bhavana Jadhav propose vote of thanks. Total 126 students, teaching & non-teaching staff was present & gain the knowledge about No Smoking Day.



World Asthma Day

Annasaheb Dange College of Pharmacy was celebrated “**World Asthma Day**”04th May 2022, A session started at 11.30 am in class room. At the start of the program Social and Extension activity Co-coordinator Mr. H. P. Khade, did welcome to all students & faculty members. On the behalf of our beloved Principal Dr. M.G. Saralaya Sir, Mr. S. S. Upadhye sir given the brief welcome note regarding to the program. Mr. H. P. Khade introduced resource person Dr. Tushar Shelar. Dr.Tushar Shelar discussed about the **World Asthma Day**& its cause, prevention & treatment of Asthma and different types of viruses and how to manage it in different conditions. During this session he shared the presentation to all participants. Many students & faculty members interacted with the resource person. Parents & students also raised their doubts and Dr. Tushar Shelar has explained all these doubts clearly. Finally, Mr. R. D. Mali, Asst. Prof. gave vote of thanks. The effort of Dr. Tushar Shelar was honored by ‘A Letter of Appreciation’. At the last a group photo was taken and then session ended. Total 121 participants including students, parents and staff was attended the program.



World Woman's Day

Our Annasaheb Dange College of Pharmacy Ashta, DistSangli has been organized one day Seminar on “The Sexual Harassment of Women at Workplace and Gender Equality” on 8th March, 2022 on the eve of International Women’s Day.

The workshop was inaugurated at the auspicious hands of Mrs. Sandhya Patil, Counselor and Psychotherapy as resource speaker and Dr. Vrushabh Chougule, B.H.M.S as guest of honor. The inauguration function was graced by the presence of Mrs. Sandhya Patil, Dr. Vrushabh Chougule, Dr. M. G. Saralaya Principal ADCBP, Ashta, Mr. S.A. Desai I/C Principal, ADCDP, Ashta, Dr. R.S. Jagtap, Vice Principal Academics and Mr. S.J. Sajane, Vice Principal, (Admin).

Mrs. Sandhya Patil delivered a lecture on the sexual Harassment of women at workplace, rule and regulations of Internal Complaints Cell, types of harassment and mechanism of complaint redressal. 80 students were present for this seminar. The workshop is ended with vote of thanks. Miss Momin Y.H., Miss. A.C. Patil and Miss. S.S. Thorat have coordinated this workshop.



Shivswarajya Din Sohala

On the occasion of Marathi Rajya Bhasha Din on 27th Feb 2022, Annasaheb Dange College of B. Pharmacy, Ashta has planned to celebrate the Marathi Rajya Bhasha Din in some newmanner. Hence, it was decided to conduct one different activity in the college that is of writingknown Marathi Katha, Kadambari, Books name in white board along with writer's name to conserve the importance/contribution of the Great Marathi Sahitya.

Our Respected Principal Prof. (Dr) M. G. Saralaya wrote first name on the board and made beginning of the event. All the students were actively participated in the activity, also faculties were took part in that activity.

On end of the day, the activity is concluded with a speech by Mr.Patil S.S. (Assist. Professor) and vote of thanks given by Mr.Thorawade K. M. (Assist. Professor).





INDUSTRIAL VISIT AT INDOCO DCI PHARMA

Annasaheb Dange college of B.Pharmacy, Ashta had organized an Industrial Visit to **Indoco Remedies Ltd** and **DCI Pharmaceuticals Ltd., Goa** on 25th and 26th May 2022 for the third and final year students. Initially we 2 staff members (Mr. Ashish Mullani & Ms. Nisha Jagtap) and 34 students were taken in the conference room where a brief introduction about industry (Indoco Ltd.) was given by Mr. Vaibhav Lole Sir. Indoco Remedies Goa Plant-I manufactures Solid Dosages, Creams, Ointments and Liquid Dosages and is located in a non-pollutant area, with a vertical flow system, monolithic flooring, fully air-conditioned RM and FG stores. It has a separate Pilot Plant. The plant has capability to manufacture Aqueous, Non-aqueous and Photosensitive products. It has HVAC system that maintains Relative Humidity to 55% +/- 5%. The facility has now been expanded to meet the growing demands by our customers from the regulated markets. During the visit students got practical knowledge regarding different Pharmaceutical grades where product is prepared, filled and packed. They also got practical exposure regarding a different Quality control process as well as different types of packaging, storage of different raw material and finished product at different temperature range and various activities related to pharmaceutical manufacturing are carried out in company which will help to transfer their theoretical knowledge to practical inference. The students also came to know how cGMP guidelines were actually followed in industry during manufacturing. This visit will help students to shape their career in pharma industry and practice.





NSS Camp

The NSS Unit of AnnasahebDange College of Pharmacy, Ashta started the annual seven-day service camp in the village of Mirajwadi, located 04 km from Ashta & 20 km from Sangli, MH, on the 14th March 2022, to 20th March, 2022. After boarding from Ashta the 50 volunteers & 05 staff members accompanied by the NSS Program Officer, alighted at Mirajwadi at around 07:00 a.m. Public transport was used to reach the camp site in Mirajwadi.

On Monday, 14th March 2022 in Mirajwadi. It was inaugurated by AnnasahebDange College of Pharmacy, Principal Dr. M. G. Saralaya, and Mirajwadi Sarpanch Shri. Vipin Khot with our Programme Officers Mr. Harshad P. Khade, Mr. Rohan D. Patil, Mr. Ramling D. Mali, Ms. Shubhangi S. Kharat. The day began with NSS song. The volunteers were divided into five groups. The groups were named as Krishna, Godavari, Wardha, and Tapi & Bhima on the names of famous rivers of state.

After breakfast, a brief orientation session was arranged for the volunteers, wherein they were intimated about the role of NSS plays in the lives of the villagers and the service extended for the betterment and progress of our adopted villages. An introduction-cum-interaction round followed and each volunteer got to familiarize themselves with the rest of the fellow volunteers. The volunteers were also divided into 05 groups, with each group being accountable of the day-duties which included giving wake-up calls, making sure everybody is punctual, managing food service, maintaining the sanctity of the surroundings, etc.

Then the volunteers processed to street drama & to clean the surroundings of the village. They were assigned different Areas of village. The whole day was full of activities. The main objective was to inculcate the spirit of selfless service and voluntary work among the volunteers.



GLIMPSE OF NSS CAMP



Day 2



Day 3



Day - 4





Day 5



Anti-drug Pledge Campaign

A session started at 12.15 pm in Auditorium Hall of Annasaheb Dange College of Pharmacy, Ashta. At the start of the program Mr. R. D. Mali delivered welcome to Principal, all teaching staff, non-teaching staff & students. At sharp 12.25 pm, all teaching staff, non-teaching staff & students collectively pledge of Anti – Drug Campaign. Principal Prof. (Dr.) Mahesh Saralaya sir guided audience on the occasion of “Azadi Ka Amrut Mahotsav, Anti – Drug Pledge Campaign” he talk about current status of Drugs & how to overcome that situation. Vice Principal Prof. Sachin Sajane sir has explained regarding the causes of increasing the Drugs usage & our responsibility to overcome the same. All teaching staff, non-teaching staff & students were present for the event. Finally, Mr. R. D. Patil, Asst. Prof. delivered vote of thanks.

Total 70 participants including teaching staffs, non-teaching staff & students were attended the program.



Singing of National Anthem

A session started at 10.45 am in Auditorium Hall of AnnasahebDange College of Pharmacy, Ashta. At the start of the program Ms. S. S. Kharat delivered welcome to Principal, all teaching staff, non-teaching staff & students.

At sharp 11:00 am, all teaching staff, non-teaching staff & students collectively sang National Anthem and started the program very energetically. After that Principal Prof. (Dr.) Mahesh Saralaya sir guided audience on the occasion of “August Kranti Din” he talk about Mahatma Gandhi’s “Chale Jav Andolan” and how unity was done at that time to fight for freedom. Vice Principal Prof. Sachin Sajane sir has explained regarding Flag Hosting guidelines to all the teaching, non-teaching & students for maintain the holy of Tiranga from 13th to 15th August, 2022. All teaching staff, non-teaching staff & students were present for the event.

Finally, Mr. R. D. Patil, Asst. Prof. delivered vote of thanks. Total 65 participants including teaching staffs, non-teaching staff & students were attended the program.



Extra-Curricular Activities

Numbers of extra-curricular activities including sports celebration, various cultural programmes competitions were organized by institute during academic Year 2022.

Inauguration of Honour



Cricket



Badminton



Table Tennis



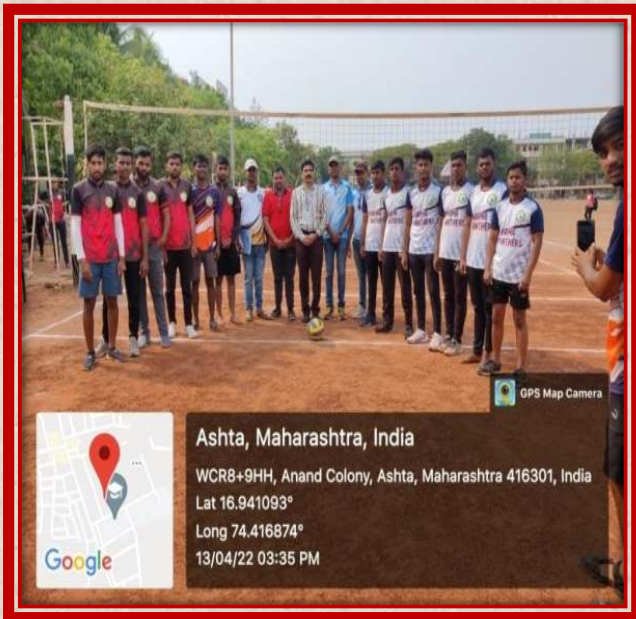
Chess



Kho - Kho



Volleyball



Throw ball



Carrom



Annual Gathering

Annasaheb Dange college of B. Pharmacy, Ashta had organized Prize distribution & Annual Gathering On 16th April 2022. As per the schedule Inauguration function was done by the hands of Chief Guest Hon. Shri Annasaheb Dange Chairman, SDSS, along with all other dignitaries as follows Guest of Honour Shri Sampatrao Patil Vice Chairman SDSS Islampur, Guest of Honour Shri. Adv. Rajandra Dange Secretary SDSS, Islampur and Chief Patron Prof R A Kanai Executive Director SDSS, Islampur. After the Inauguration welcome address was given by Prof. Dr M G Saralaya Principal ADCBP Ashta. Then Secretary of our Sansta Hon. Shri Rajandra Dange sir motivated our students to participate in different event so as to build their confidence and to get the knowledge in overall areas. At the end Chief Guest Hon. Shri Annasaheb Dange gave speech to students and motivated them all. Then after prize distribution ceremony was carried. Prizes of different events were distributed. At the end General Championship was declared and Trophy was given to the respective winning class. I/C of diploma in Pharmacy Prof. Sujit Desai gave vote of thanks and prize distribution ceremony was concluded. Afternoon at 1pm we started with Annual Gathering Cultural Activity ASPIRE2K221. At the end of the events winners and runner-up of above events were declared and were facilitated with certificate and trophy by the staff and judge. Gathering was concluded by giving Vote of thanks by cultural In-charge Mr G V Sutar and by singing our National Anthem.



Glimpse of Cultural Programme



Student Corner



Ms. Mali Shrutika, (T.Y. B.Pharm)



Ms. Smruti Urane (Final Year B. Pharm)

Dare To Dream

Close your eyes and let
Your imaginations fly away.
See a picture of where
You wish to be one day.
Let the colours of your
Hearts take command
To paint the picture of your
Dream and place it in your hand.
Hold on tightly and nurture it,
But allow it room to grow.
When you reach your dream,
Open your hand and let it go.
Close your eyes and search for
Another, caring for it as before.
Never stop searching, achieving and
Letting go, for that's what dreams are for

Najiya kazi (F.Y B. Pharmacy)

Value of Nature

Out in a meadow, one winter
Complained so a lonely leaf
Alas, all those who did love me
Left me all alone in grief.
Nobody is here with me,
Not a shepherd, goat, or sheep,
Nor an ant I may shelter
When the rain is running deep.
I see not a single tree
Looking tense and embarrassed
Whose body has been covered
Through the year by leaves like me.
Hearing him a patient rock
Told him not to wail in vein,
But wait until they implore
For his favor once again.

Ms. Shreya K. Patil (F.Y B. Pharmacy)

STUDENTS PLACEMENT IN 2021-2022

Sr. No.	Name of Student	Name of Company	Position	Annual Salary (Approx.)
1	Mr. Raju Vitthal Chavan	Bharat Serums & Vaccines Ltd., Mumbai	Technical Trainee – in Animal house based	Rs. 240000
2	Mr. Bandgar Aditya Ashok	Episourse Pvt. Ltd, Mumbai	Medical Coder	Rs. 204,000
3	Ms. Mali Arati Gajanan	Episourse Pvt. Ltd, Pune.	Medical Coder	Rs. 204,000
4	Ms. Patil Kshitija Ajit	Episourse Pvt. Ltd, Mumbai	Medical Coder	Rs. 204,000
5	Ms. Shelar Vedika Rajendra	Episourse Pvt. Ltd, Mumbai	Medical Coder	Rs. 204,000
6	Mr. Jakate Sourabh Balaso	Episourse Pvt. Ltd, Pune.	Medical Coder	Rs. 204,000
7	Mr. Nangare Omkar Ashok	Cipla Ltd Verna, Goa	Trainee, QA Department	Rs. 204,000
8	Mr. Jadhav Ajay Hanmant	TCS Pvt. Ltd, Mumbai	Patient Safety Associates	Rs. 165000
9	Mr. Kamble Kabir	Alkem Laboratories Ltd., Mumbai	Marketing Executive	Rs. 2,50000
10	Mr. Badgire Akash	Sun Pharma Pvt. Ltd., Pune	Sales Executive	Rs. 2,96000
11	Ms. Ghode Arati Vitthal	IQVIA Pvt. Ltd., Thane, Mumbai	Trainee Clinical Data Coordinator	Rs. 3,130000
12	Ms. Rutuja Shinde	Reliance Retail India	Pharmacist in Executive	Rs. 2,20,000
13	Ms. Ankita Patil	Episourse Pvt. Ltd, Pune.	Medical Coder	Rs. 204,000
14	Ms. Sudharani Patil	Episourse Pvt. Ltd, Pune.	Medical Coder	Rs. 204,000
15	Ms. Nisha Patil	Wellness Forever, Ichalkaranji, Kolhapur	Jr. Pharmacist	Rs. 186000
16	Ms. Kajal Howal	Lecturer, Adarsh College of Pharmacy, Vita	Lecturer	Rs. 505,200
17	Mr. Virbhakta Yashas Mahendra	GEBBS health Care Solutions, Mumbai	Medical Coder	Rs. 150000
18	Ms. Shriya Jadhav	Reliance Retail India	Pharmacist in Executive	Rs. 2,20,000
19	Mr. Prathmesh Patil	Mankind Pharma Ltd., Pune	Senior Field Manager	Rs. 2,20,000

Higher Education

Sr. No.	NAME OF STUDENTS	SUBJECT	NAME OF INSTITUTE
1.	Ms. Shubhangi Savale	Pharmaceutical Chemistry	ICT, Mumbai
2.	Ms. Sweta Jadhav	Pharmaceutics	Govt College of Pharmacy, Karad
3.	Ms Nikita Kolekar	Regulatory Affairs	ParulUniveity,PO- Limda, Tal- Waghudia,Dist-Vadodara, Gujrat
4.	Mr. Shreyash Gaikwad	Pharmaceutics	Department of Pharmaceutical Scienses RTM Nagpur Univeity, Nagpur
5.	Mr. Suraj N Gurav	Pharmaceutics	AISSMS College of Pharmacy, Pune
6.	Mr. Rais U Shikalgar	Pharmaceutics	Govt College of Pharmacy, Ratnagiri
7.	Mr. Santosh B Sargar	Pharmaceutical Chemistry	Department of Pharmaceutical Sciences RTM Nagpur Univeity, Nagpur
8.	Ms. Afreen G Jamadar	Pharmacology	Appasaheb Birnale College of Pharmacy, Sangli
9.	Ms. Supriya D Ajetrao	Pharmacology	Appasaheb Birnale College of Pharmacy, Sangli
10.	Ms. Pranali A Bhandari	Pharmacology	PES Modern College of Pharmacy, Pune
11.	Ms. Asiya J Dadel	Pharmacology	Appasaheb Birnale College of Pharmacy, Sangli
12.	Ms. Purva P Patil	Pharmacology	Sinhgad Technical Education Society, SmtKasi bai Navale College of Pharmacy (SKNCOP), Kothdwa Pune
13.	Ms. Priya M Patil	Pharmaceutics	KES Rajarambapu College of Pharmacy, Kasegaon, Sangli
14.	Ms. Utkaha U Yadav	Pharmaceutics	Gourishankar Institute of Pharmaceutical Education & Research, Limb, Satara
15.	Ms. Mohini R Jagoje	Pharmaceutics	Gourishankar Institute of Pharmaceutical Education & Research, Limb, Satara
16.	Ms. Chinmayee C Khot	Pharmaceutics	TatyasahebKore College of Pharmacy, Warananagar, Kolhapur
17.	Ms. Anuja D Nirwane	Pharmacology	Teerthankar Education Society's Dr Shivajirao Kadam College of Pharmacy, Kasbe DigrajSangli
18.	Ms. Sravasti Mane	Pharmaceutics	Teerthankar Education Society's Dr Shivajirao Kadam College of Pharmacy, Kasbe Digraj, Sangli
19.	Ms.Nishigandha Naikwadi	Pharmaceutics	Yashoda Technical Campus, Wadhe, Satara
20.	Mr. Suhel Shakil Mulla	Pharmaceutical Chemistry	Appasaheb Birnale College of Pharmacy, Sangli
21.	Ms. Hahada Bhise	Pharmaceutics	Gourishankar Institute of Pharmaceutical Education & Research, Limb, Satara

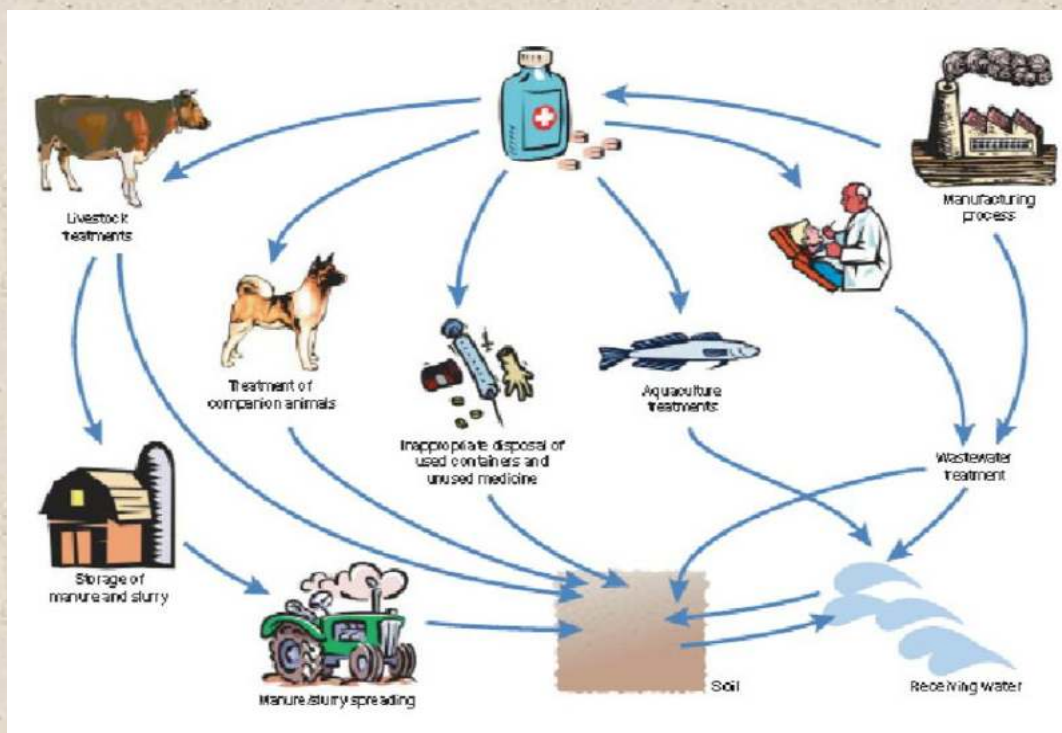
SCIENTIFIC ARTICLES

Impact of Pharmaceutical Wastes on Environment and Waste Minimizing Measures

Pharmaceutical substances are employed for a variety of helpful functions in modern civilization, but pharma businesses are also releasing very harmful toxins into the environment, either directly or by chemical changes. Furthermore, pharmaceutical compounds can reach the environment through a variety of methods, including discharge of treated wastewater, seepage from landfills, sewer lines, and runoff from animal wastes, among others. Despite the fact that various physical and biological processes in aquatic ecosystems may cause a reduction in many pharmaceutical compounds, trace concentrations of human and veterinary pharmaceutical compounds, as well as their metabolites, have been detected in various waterbodies such as surface water, groundwater, and drinking water sources. India's pharmaceutical sector is the world's third-largest in terms of volume and 14th-largest in terms of value.

It is expected to be worth 4.5 billion dollars and is expanding at a rate of 8 to 9% each year. Different industries, such as pharmaceuticals, chemicals, and paints, are rapidly expanding in India, and their effluents are discharged into streams either directly or after partial treatment. It has been discovered that pharmaceutical substances penetrate the environment and can be classified as pollutants. Several pharmaceutical manufacturing sites were discovered to be sources of substantially greater ambient concentrations than those induced by medicinal applications. 8 Pharmaceutical companies generate a lot of trash during their manufacturing and maintenance processes. Pharmaceuticals have been discovered in the effluents of wastewater treatment plants and drinking water sources.

Even though the concentrations of pharmaceuticals detected in drinking water (in the nanogram per litre range) are several orders of magnitude lower than the minimum therapeutic dose, a trace amount of pharmaceuticals in drinking water for longer periods of time may have significant negative effects on human health and aquatic life. There are currently no Bureau of Indian Standards (BIS)/regulations that prohibit pharmaceutical levels in effluent or drinking water. The US Environmental Protection Agency 10, on the other hand, has added four medicinal substances to the most recent pollutant list, all of which are widely used by humans.



Routes of Pharmaceuticals entering the Environment

❖ General Environmental Pollutants i.e. Pharmaceutical Compounds

Pharmaceutical pharmaceuticals, both for human and veterinary treatment, are posing a threat to the environment. Analgesics, antibiotics, antiepileptics, antiseptics, beta-blockers, antihypertensive, hormones, contraceptives, psychotherapeutics, and antivirals are some of the medications that have been classified.

❖ Pharmaceuticals in the Environment

Pharmaceuticals enter the environment through manufacturing units and hospital effluents, as well as land applications (e.g., biosolids and water reuse). Sewage treatment services, on the other hand, aren't always successful in removing active chemicals from waste water.

As a result, pharmaceuticals end up in the aquatic environment, where they have direct effects on aquatic creatures and can enter food chains. Several narcotics were identified in extremely high amounts (mg/L) in effluents from a small wastewater treatment plant near Visakhapatnam, India, in a recent study.

❖ Toxicity due to Some Pharmaceutical Compounds

Antibiotic molecules can be released unchanged into the sewage system, according to studies. Furthermore, increased antibiotic concentrations can alter microbial community structure, affecting food chains. Non-steroidal anti-inflammatory medicines (NSAIDs) such as ibuprofen, naproxen, and diclofenac are commonly used and, as a result, are frequently detected in sewage, surface water, and may even be found in ground water. In the surface water system, ibuprofen, ketoprofen, naproxen, indomethacin, diclofenac, acetyl salicylic acid, and phenazone have been discovered.

After clofibrac acid, diclofenac, ibuprofen, and propyphenazone are the most regularly discovered medications in water bodies. Diclofenac has also been shown to be very poisonous to vultures and live stock.

The most often used medications are nonsteroidal anti-inflammatory drugs (NSAIDs), such as ibuprofen, naproxen, and aspirin, which are usually present in effective levels in municipal effluents.

❖ **Properties of Pharmaceutical Effluents**

As a result of their operations, several pharmaceutical industries are responsible for producing harmful waste water. Solids, biodegradable and non-biodegradable organic compounds, and other contaminants can be found in the waste water created by these companies. Pharmaceutical effluents provide basic information about the water quality in the rivers and streams where they are released. The physico-chemical study of the effluents should show that the majority of these businesses follow the Federal Environmental Protection Agency's standard requirements (FEPA). 10 The oxygen content in chemical oxygen demand (COD) and biological oxygen demand (BOD), where the nutrients status is quantified in terms of the quantity of nitrogen and phosphorus in waste water is an essential pollution gauge for industrial wastewaters. Other important water quality metrics include pH, temperature, and total suspended particles, among others (TSS). 16 Pharmaceutical effluents, on the other hand, are classified based on their exceptional turbidity, conductivity, COD, TSS, and total hardness.

❖ **Pharmaceutical Analysis in Drinking Water**

The mystery of pharmaceuticals appearing in drinking water has piqued the public's interest. While adverse effects on human health from current levels of medicines and pharmaceuticals in drinking water are negligible, the consequences for aquatic ecosystems are far more catastrophic. Pharmaceuticals have also been found in water for more than four decades. The number of studies on the examination of medicines or pharmaceuticals in drinking water sources has expanded dramatically during the last decade.

Some pharmaceuticals, such as acetaminophen (detection frequency 0.32 percent), codeine (0.16 percent), p-xanthine (0.08 percent), sulfamethoxazole (0.41 percent), caffeine (0.24 percent), carbamazepine (1.5 percent), and trimethoprim (0.08 percent), were detected at concentrations greater than or equal to detection limits of selected methods in a monitoring study. Furthermore, pesticide (33%) and trihalomethane (28%) detection frequencies in the same sources were reported to be significantly higher.

Advanced analytical techniques and technology were used to identify drugs in the water cycle at trace levels.

Pharmaceuticals have been found in pharma industry effluents and municipal Waste waters, and these have been identified as a major source of medications and pharmaceuticals in drinking water in several publications.

The majority of study has focused on the analysis and identification of pharmaceuticals in drinking water samples in industrialised countries such as the United States, Japan, the Republic of Korea, and a few European countries.

❖ **Health Risk of Pharmaceutical Effluents**

Long-term exposure to lower concentrations of complex pharmacological combinations in stream biota can cause acute and chronic damage, behavioural alterations, tissue accumulation, reproductive damage, and cell proliferation suppression.

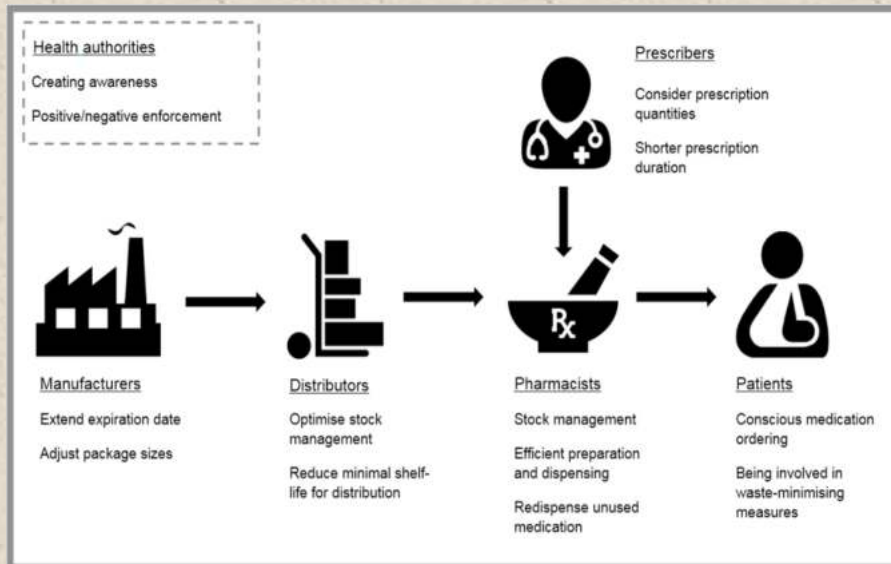
Fish exposed to wastewater effluents have been shown in several studies to have reproductive problems. Furthermore, fish exposed to trace doses of birth control medicines in the range of concentrations seen in the environment had severe reductions in reproductive success, implying population-level effects.

❖ **Assessment of Environmental Hazard**

The discovery of waste pharmaceuticals in the environment causes dangers related with their introduction into human, aquatic life, and animals around the world, and is becoming a severe problem for both regulators and the pharmaceutical industry. With the current state of knowledge on pharmaceutical transit, destiny, and effects in the environment, significant progress on this subject is just not possible. It's important to think about the rising impacts of different medications that target the same receptors. Pharma chemical risk assessment entails identifying inherent hazards at each stage and estimating the risks posed by these hazards.

❖ **Waste-minimising measures**

Manufacturers can contribute to sustainable supply and use of medication by extending medications' shelf-life, choosing the most sustainable storage conditions and adjusting package sizes. The role of distributors involves stock management optimisation and loosening shelf-life policies. In turn, prescribers can commit to rational prescribing practices, including consideration of prescription quantities and prescriptions for shorter durations.



Pharmacists can contribute via appropriate stock management, enhancing medication preparation processes, optimising dispensing processes, and redispensing unused medication. Patients' awareness of medication waste must be increased to stimulate conscious medication-ordering and to create willingness for participation in waste-minimising interventions. Finally, health authorities can contribute to sustainability by creating awareness and enforcing waste-minimising measures. Due to the multiple causes of medication waste at all levels of the pharmaceutical supply and use chain, no single intervention is sufficient to overcome the problem of medication waste, thus a joint responsibility of all stakeholders is needed.