



### SDPC E-BULLETIN

E-Mail:sdpcbulletin@gmail.com



### SDPC E-BULLETIN 11(1)(JAN-MAR)



|                 |                        |                         |                     |
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**NARCOTIC DRUGS AWARENESS E-PLEDGE**


 **MINISTRY OF HOME AFFAIRS** 


  
**NARCOTICS CONTROL BUREAU**  
**Say Yes to Life, No to Drugs**  
*Certificate*



This is to certify that


Vidhi Sanglehi

has taken the 'Say Yes to Life, No to Drugs' Pledge and committed himself/herself to consciously cooperate in stopping drug abuse and stay away from drugs to live a healthy life.

2545522998  
  
January, 09 2024




 **MINISTRY OF HOME AFFAIRS** 


  
**NARCOTICS CONTROL BUREAU**  
**Say Yes to Life, No to Drugs**  
*Certificate*

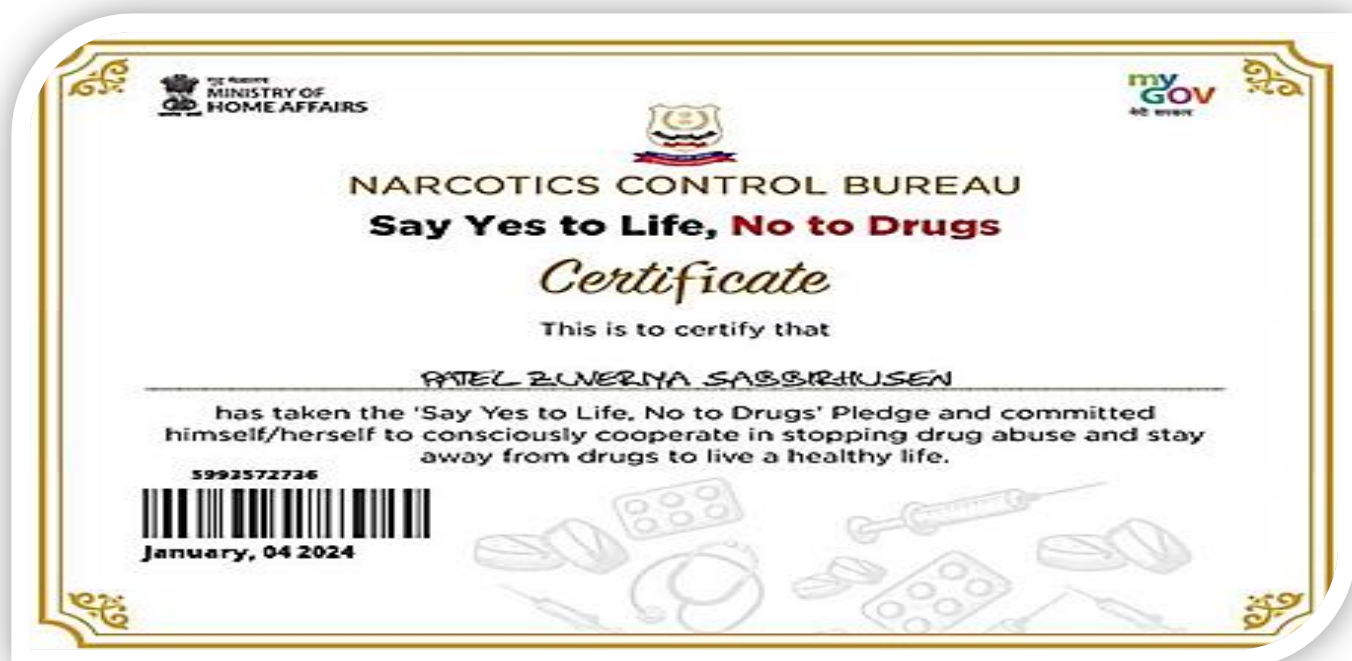
This is to certify that

Patel Fani Rajeshbhai

has taken the 'Say Yes to Life, No to Drugs' Pledge and committed himself/herself to consciously cooperate in stopping drug abuse and stay away from drugs to live a healthy life.

5269723784  
  
January, 04 2024





**Event Name:** Narcotic Drugs Awareness & E-Pledge

**Date:** 04/01/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Drugs Awareness and E-Pledge Registration was conducted at Shree Dhanvantary Pharmacy College. In these event students was empowered to make informed decision related to use of alcohol and other Drugs. Also they were told regarding responsibilities and consequences in deciding use of Narcotic Drugs. Students were encouraged to participate in this kind of campaign in future. Students also took pledge.



## VIBRANT GUJARAT CAMPAIGN PLEDGE



**Event Name:** Vibrant Gujarat Campaign Pledge

**Date:** 09/01/2024

**Participants:** B.Pharm and Pharm D. Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Students from various classes actively participated in a successful event organized under the vibrant Gujarat campaign. It was focused on raising awareness about environmental conservation and sustainability. The highlight of the gathering was the students' commitment to taking a pledge for a greener future. Students solemnly vowed to adopt eco-friendly practices in their daily lives. The pledge emphasized the importance of reducing carbon footprints, conserving natural resources and promoting sustainable living for a healthier planet. The success of the environmental awareness event under the vibrant Gujarat campaign reflects the commitment of students to making positive impact on the environment.

## SEMINAR ON FROM IDEA TO ENTERPRISE: GOVERNMENT SCHEME FOR STARTUP & PREPARATION AND PRESENTATION OF PITCH





**Event Name:** From Idea to Enterprise: Government Scheme for Startup & Preparation and Presentation of Pitch

**Date:** 18/01/2024

**Participants:** B.Pharm and Pharm D. Students, All Teaching Staff

**Location:** Seminar Hall, Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** One-Day awareness program on “From Idea to Enterprise: Government Scheme for Startup & Preparation and Presentation of Pitch” Internal Quality Assurance Cell (IQAC), Shree Dhanvantary Pharmacy College organized a One Day awareness program on “From Idea to Enterprise: Government Scheme for Startup & Preparation and Presentation of Pitch” at the SDPC campus on 18th Jan 2024 at 09:00 AM 12:30 PM. The program started with the flower felicitation of the guest Mr. Kirti Patel, (Director, IP Calculas), Mr. Pancham Bariya (Center Head, Surat Startup Studio- Parul University), Mr. Ritesh Saraf (Founder & CEO-GHMC Private Limited) by Academic head Dr. Manish Goyani, and Mrs. Achla Vyas then followed by Ms. Sonam Gandhi, who introduced the speaker.. All the students enjoyed, learn a lot from the program. In the end, Mrs. Sonam Gandhi gave a vote of thanks on behalf of the SDPC family.



## NAMO NAVMATDATA SAMMELAN

### NAVMATDATA AND VIKSIT BHARAT

Registration Link  
[www.dotook.in](http://www.dotook.in)



Scan the QR code  
and Register







**Event Name:** Namo Navmatdata Sammelan

**Date:** 25/01/2024

**Time:** 10:30 a.m. 11:30 a.m.

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Seminar Hall, Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Our Hon PM Shri Narendra Modi ji has addressed all the first time voters virtually at Namo Navmatdata Sammelan and greeted people on National Voter's Day, in which all the B. Pharm, M. Pharm and Pharm D. Students who are going to vote for upcoming Loksabha Election 2024 has attended this live Event. While interacting with young voters during Sammelan, PM Modi Said 'You all have the responsibility of building a developed India by 2047. You all have a great opportunity to decide how you can get your name etched with golden letters in a developed India'. All the students understood the importance its.

## REPUBLIC DAY CELEBRATION





**Event Name:** Republic day Celebration

**Date:** 26/01/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College campus

**Brief Description of the Event:** The 75<sup>th</sup> Republic Day was celebrated with great enthusiasm and patriotic on 26th January 2024 in the SDPC Campus ground with the teaching and non-teaching staff and students. The new constitution of Free India came into force with effect on this day. On this special occasion, the programme started with flag hoisting by the Principal of Pharmacy and Engineering College and School situated in Dhanvantary Campus. Principal of SDPC and SDCET addressed the gathering appealing to their nationalistic spirit and urging them to take pride in being an Indian and fulfilling one's duty with responsibility. Parade and dance performance was presented by our students. The programme was ended by singing the national anthem and sweet distribution to all the staffs of college and school



## SWAYLAMBI BHARAT ABHIYAN







**Event Name:** Swavlambi Bharat Abhiyan

**Date:** 30/01/2024

**Time:** 11:00 a.m. 1:00 p.m.

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Gujarat Technological University and Swavlambi Bharat Abhiyan, state of Gujarat has initiated the program to instil the spirit of self-employment among the youth and make them self-reliant. Students have actively participated and observed the event thoroughly.

## PHARMA SPECTRA 4.0









**Event Name:** Pharmaspecta 4.0

**Date:** 06/02/2024 to 08/02/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College campus

**Brief Description of the Event:** Pharmaspecta 4.0 was Organized By Shree Dhanvantary Pharmacy College From 06/02/2024 to 08/02/2024 Pharmaspecta 4.0 event included Singing, Snap Spectrum, E-Poster, Chess and Medi Chef. All Students of Pharm D. and B.Pharm and other college have actively participated in the Pharmaspecta 4.0 activity and make event successfully .



## SPEAK FOR INDIA EVENT





**Event Name:** Speak for India Event

**Date:** 09/02/2024

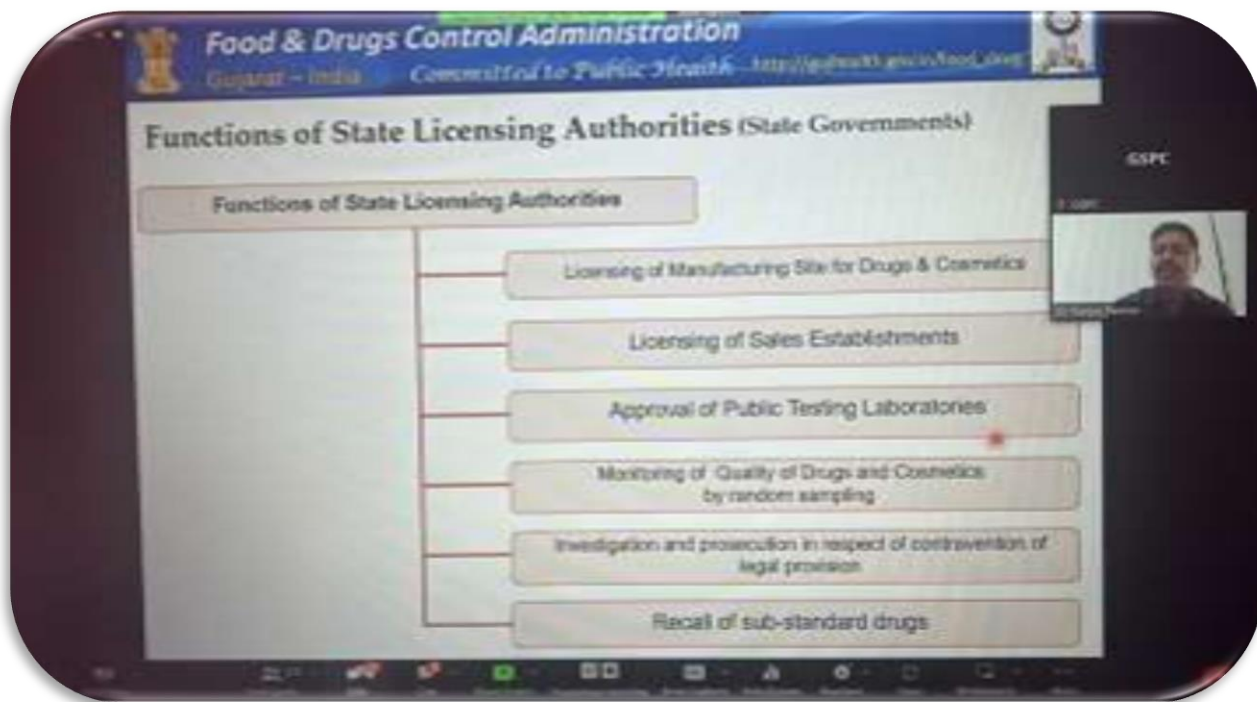
**Participants:** Pharm D. and B.Pharm Students

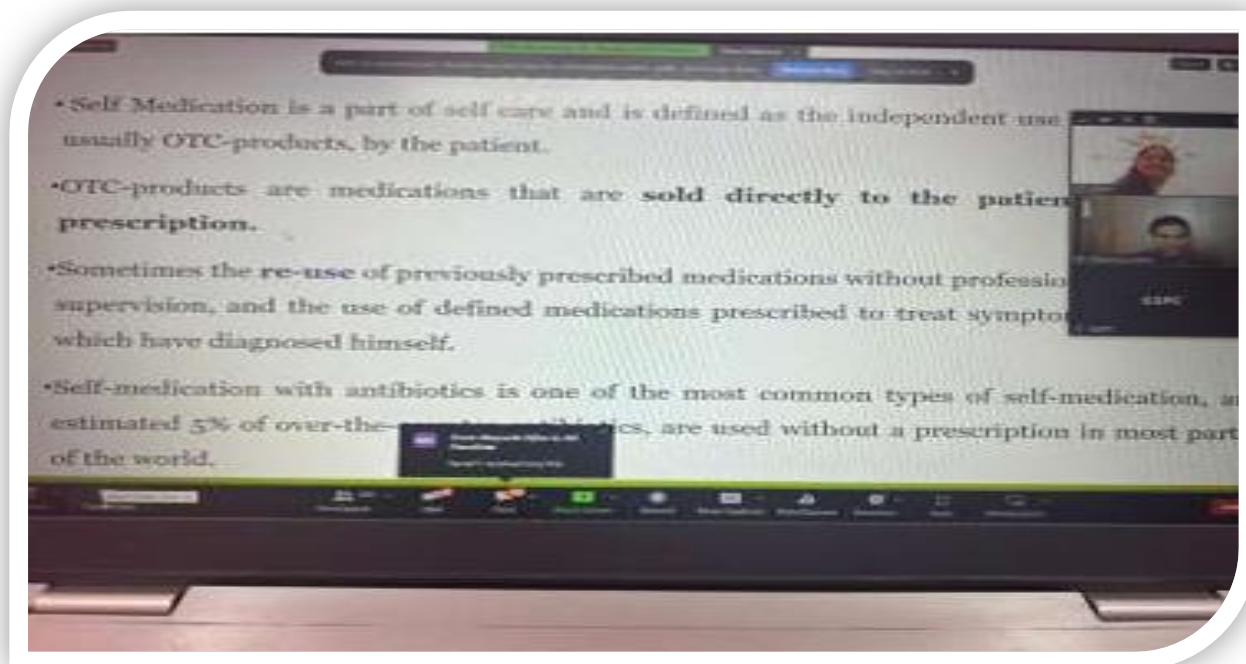
**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Speak for India Event was organized by Divya Bhaskar sponsored by Federal Bank at Shree Dhanvantary Pharmacy College. So many students have participated eagerly and cleared the first round. Second round was held at Surat while semi finale and finale was conducted at Ahmedabad. Mr. Fahaam Shaikh Pharm D. 5<sup>th</sup> year student from our college was qualified for finale and won second prize worth 1,50,000/- INR. Shree Dhanvantary Pharmacy College congratulates Fahaam and all other participants.



## TWO DAYS REFRESHER COURSE





**Event Name:** Two days Refresher cours

**Date:** 17/02/2024 to 18/02/2024

**Time:** 9:30 a.m. 2:30 p.m.

**Participants:** Registered- 600

**Location:** Shree Dhanvantary Pharmacy College campus

**Brief Description of the Event:**

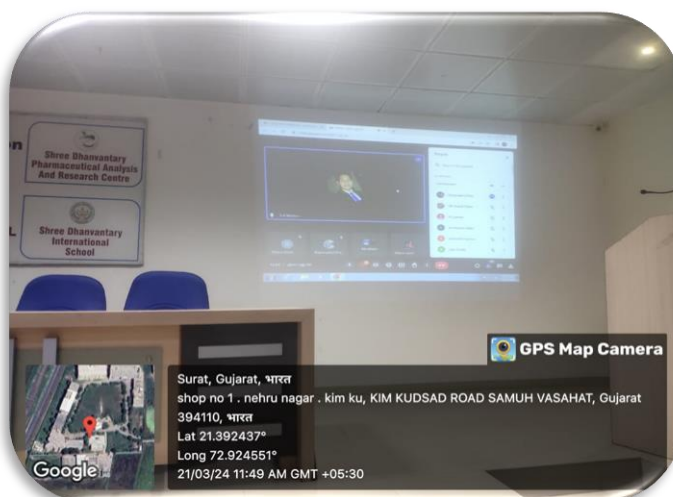
**Course chairperson:** Dr. M.N. Noolvi

**Co- Ordinator's:** Dr. Manish Goyani



| Time                       | Day 1: 17th February 2024   | Topic  |
|----------------------------|---|--|
| 09:30 a.m. -<br>10:00 a.m. | Inaugural Speech<br>Dr. C. D. Shelat,<br>Deputy Commissioner (Retd), FDCA, Gujarat.                                       | Key Note Speaker   |
| 10:00 a.m. -<br>11:00 a.m. | Lecture 1<br>Shri Bharat bhai Dhanani,<br>Executive Vice President, JB chemicals<br>and<br>Pharmaceutical Ltd, Ankleshwar | Novel Drug Delivery<br>System  |
| 11:00 a.m. -<br>12:00 p.m. | Lecture 2<br>Dr. Anand Deshmukh Professor,<br>Shree Dhanvantary Pharmacy College,<br>Kim.                                 | Role of pharmacist in<br>community<br>pharmacy- Habits<br>that will make you<br>smarter        |
| 12:00 p.m. -<br>01:00 p.m. | Lecture 3<br>Dr. Hitesh Dalwadi, Professor, ROFEL<br>Shri G M Bilakhia College of Pharmacy                                | Relevance of Intellectual<br>Property for Business   |
| 01:00 p.m. -<br>01:30 p.m. | Lunch break   |  |
| 01:30 p.m. -<br>02:00 p.m. | Lecture 4<br>Dr. Shrikant Joshi, Professor,<br>Maliba Pharmacy College,<br>Bardoli.                                       | Pharmacy Profession:<br>On the verge of<br>Metamorphosis                                       |
| 10:00 a.m.-<br>11:00 a.m.  | Lecture 5<br>Dr. Chetan Kalathiya,<br>Drugs Inspector, FDCA,<br>Bharuch.  | Drug Abuse   |
| 1:00 a.m.-<br>12:00 p.m.   | Lecture 6<br>Dr. Dipansu Sahu,<br>Assistant Professor, SNLP College of Pharmacy,<br>Umrakh.                               | Self-medication and its<br>demerits  |
| 12:00 p.m.-<br>01:00 p.m.  | Lecture 7<br>Dr. Sanjay Parmar,<br>Senior Drug Inspector, FDCA, Valsad.   | Recent changes in Rules<br>& Regulations related to<br>Drugs, Cosmetics and<br>Medical Devices |
| 1:00 p.m.-<br>01:30 p.m.   | Lunch break   |  |
| 1:00 p.m.-<br>01:30 p.m.   | Exam  |  |

## **WEBINAR ON INTRODUCTION OF ZONAL CHAMPIONSHIP**



**Event Name:** Zentiva placement training session

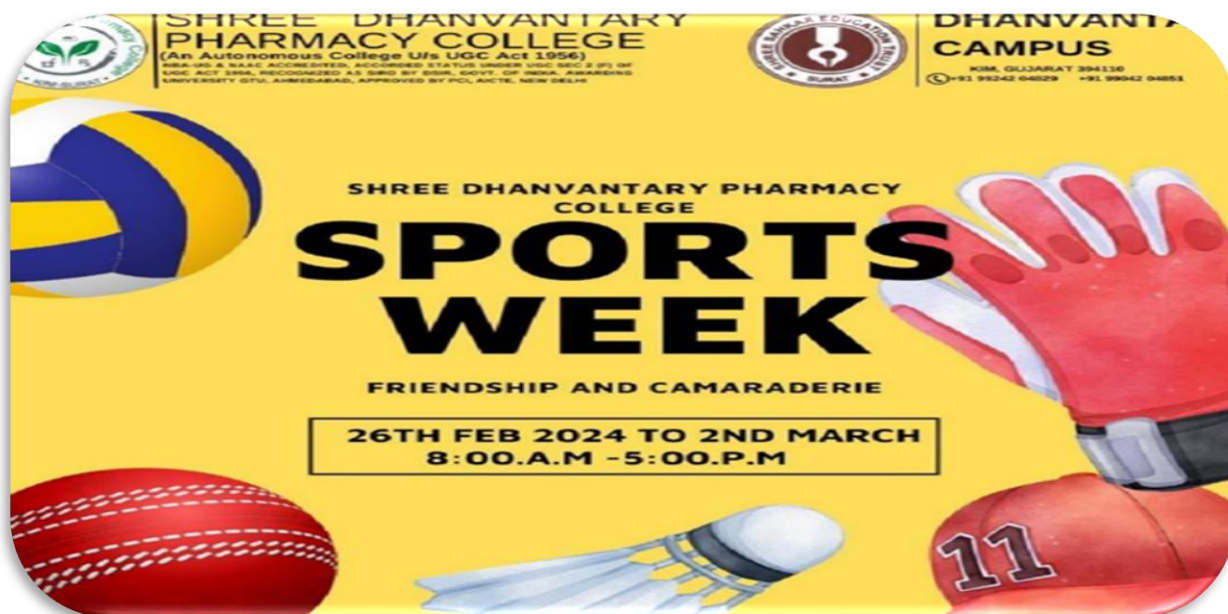
**Date:** 21/02/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** The Training and Placement Cell has conducted a seminar on Job Opportunities on 21/02/2024 for all final year UG and PG students. The session was handled by Sri Atul Jivani, people and culture partner (HR) at Zentiva Pharmaceuticals Pvt. Ltd, Ankleshwar. A one day Pre-placement Training Programme for final year UG & PG students, which included soft skill training, personality development, resume preparation and group discussion/interview training, has been conducted on 21/02/

## SPORT WEEK CELEBRATION

















**Event Name:** Sport week celebration

**Date:** 26/03/2024 to 02/03/2024

**Location:** Shree Dhanvantary Pharmacy College

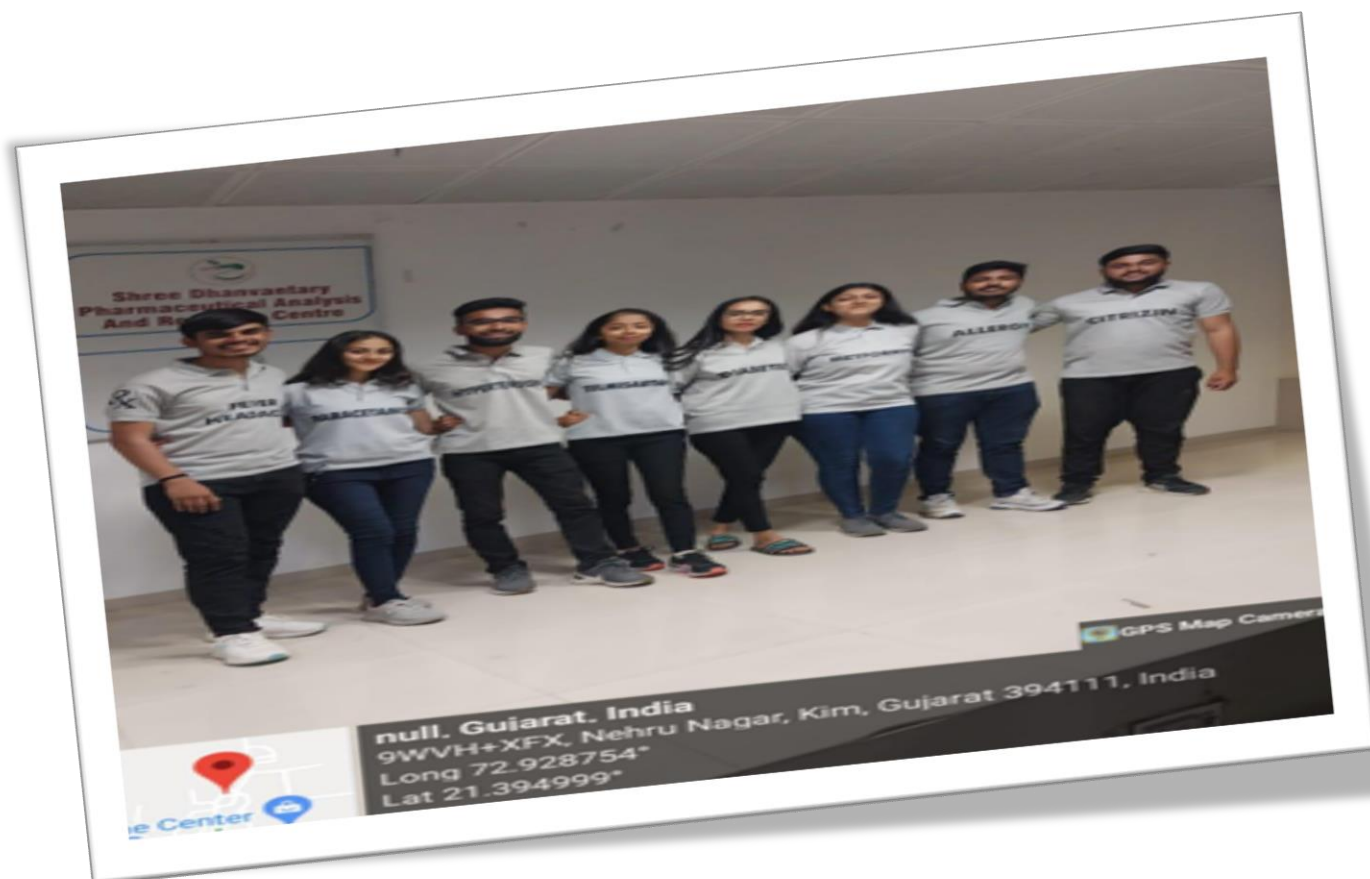
**Brief Description of the Event:** Sport Week organized by Shree dhanvatory pharmacy college From 26/03/2024 to 02/03/2024 which in which include sport games Cricket, chess, volleyball, carom, tug of war and khokho. Student of all department have actively participated with great enthusiasm, all the participant has played various games in this festive with healthy competition between different classes of institute. All the staff members contributed greatly to it by both ways of participation and organization. Winners and Runners up of respective games will be awarded with certificate and trophies.

## DAYS CELEBRATION











**Event Name:** Days Celebration

**Date:** 26/02/2024 to 02/03/2024

**Time:** 8:30 am to 3:00 pm

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Days Celebration Was Organized By Shree Dhanvantary Pharmacy College From 26<sup>th</sup> February To 2<sup>th</sup> March 2024 Which Included:

- 1) Group Day & Twins Day
- 2) Traditional Day & Bollywood Day
- 3) Mismatch Day & Black-White Day
- 4) Signature Day & Denim Day
- 5) Suit& Sari Day
- 6) Cap & Shoes Day

Students of all the departments have actively participated in the celebration and showcasing their talents by wearing creative outfits representing all the days.

## SEMINAR ON IMPORTANCE OF VOTING







**Event Name:** Seminar on IMPORTANCE OF VOTING

**Date:** 21/02/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Internal Quality Assurance Cell (IQAC), Shree Dhanvantary Pharmacy college organized a awareness program on “IMPORTANCE OF VOTING” 1st March 2024. Principal Dr. M.N. Noolvi felicitated and introduced speaker Deputy mamlatdar Shree Bhupeshbhai Chaudhari and Shree Rajeshbhai Devangiya. Over 100 Participants attended awareness program. During the awareness program Deputy mamlatdar Shree Bhupeshbhai Chaudhari and Shree Rajeshbhai Devangiya explained the in-detail process of voting in India. After awareness program Q&A session for 10 minutes many students and faculty raised questions and addressed by Deputy mamlatdar Shree Bhupeshbhai Chaudhari and Shree Rajeshbhai Devangiya Finally, Principal Dr. M.N. Noolvi presented the Vote of Thanks.

## SEMINAR ON FURTHER STUDIES IN ABROAD



**Event Name:** Seminar on study abroad

**Date:** 05/03/2024

**Participants:** Pharm D. and B.Pharm Students

**Location:** Seminar hall, Shree Dhanvantary Pharmacy College

**Time :** 10:30 a.m. to 3:00 p.m.

**Name of Company** – Global Colliance

**Brief Description of the Event:** Shree Dhanvantary pharmacy College, conducted an educational talk on, “Seminar on Further Studies in Abroad”, in collaboration with Global Colliance, it is a prominent organization specializing in overseas education and career opportunities, conducted the event, providing crucial information on pursuing higher education and professional growth in foreign countries.

## FRESHER CUP







**Event Name: FRESHER CUP**

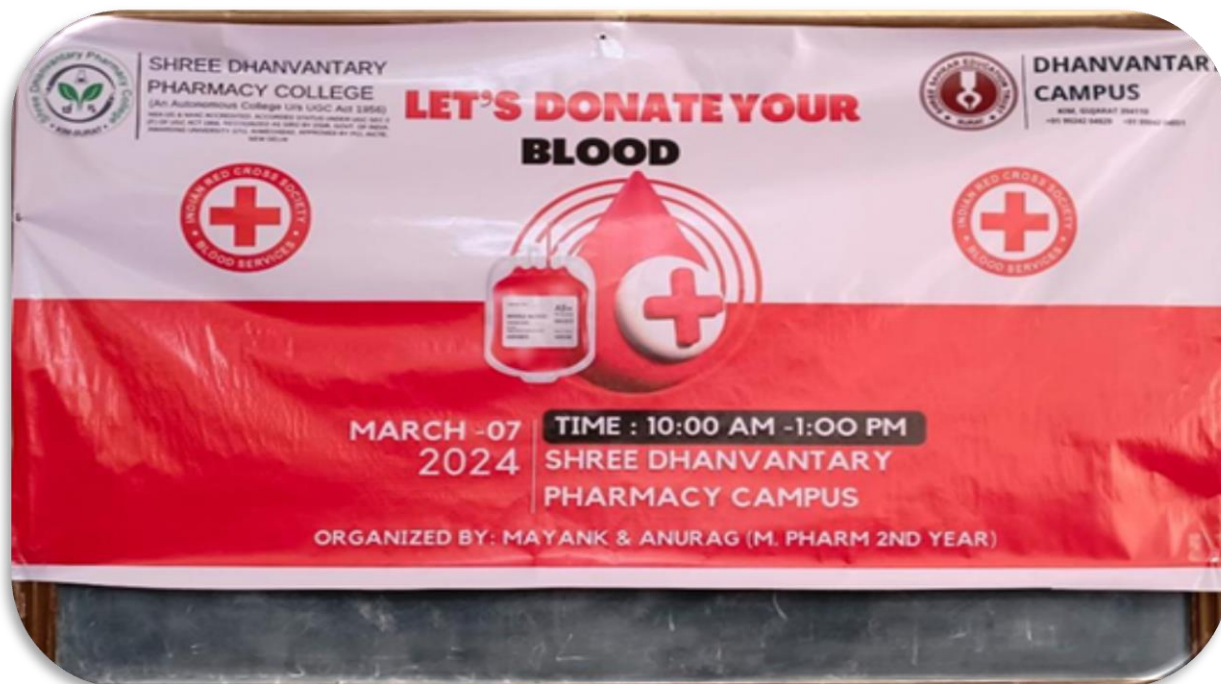
**Date: 06/02/2024 to 08/02/2024**

**Participants: Pharm D. and B.Pharm Students, All Teaching Staff**

**Location: Shree Dhanvantary Pharmacy College campus**

**Brief Description of the Event:** Fresher Cup was Organized By Shree Dhanvantary Pharmacy College From 04/03/2024 to 06/03/2024. Fresher Cup event in which senior student of SDPC introduced. junior student of SDPC introduced. All Students of Pharm D., B.Pharm and M.pharm have actively participated in the Fresher Cup and make event successfully .

## BLOOD DONATION CAMP





**Event Name:** Blood Donation Camp

**Date:** 07/03/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

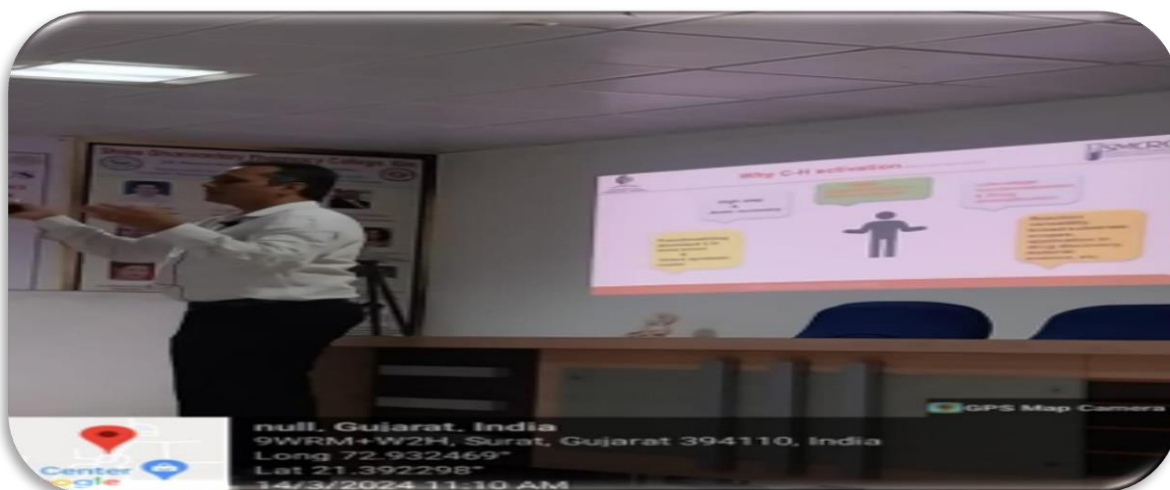
**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** On 7th March, 2024, Shree Dhanvantary Pharmacy College organized a Blood Donation Camp. The camp was organized by M. Pharm Studnets of SDPC. The camp started around 10:00 am. The students and faculties donated their Blood. College has arranged refreshment for those who donated Blood in the camp. To watch over the entire process and to collect a Blood, team of 3 medical staff and 2 non medical staff were put in charge. After the completion of the Blood donation, the principal thanked and appreciated everyone present in the camp.



## GUEST LECTURE ON THE TOPIC “C-H ACTIVATION”





**Event Name:** Guest lecture on the topic “C-H Activation”

**Date:**14/03/2024

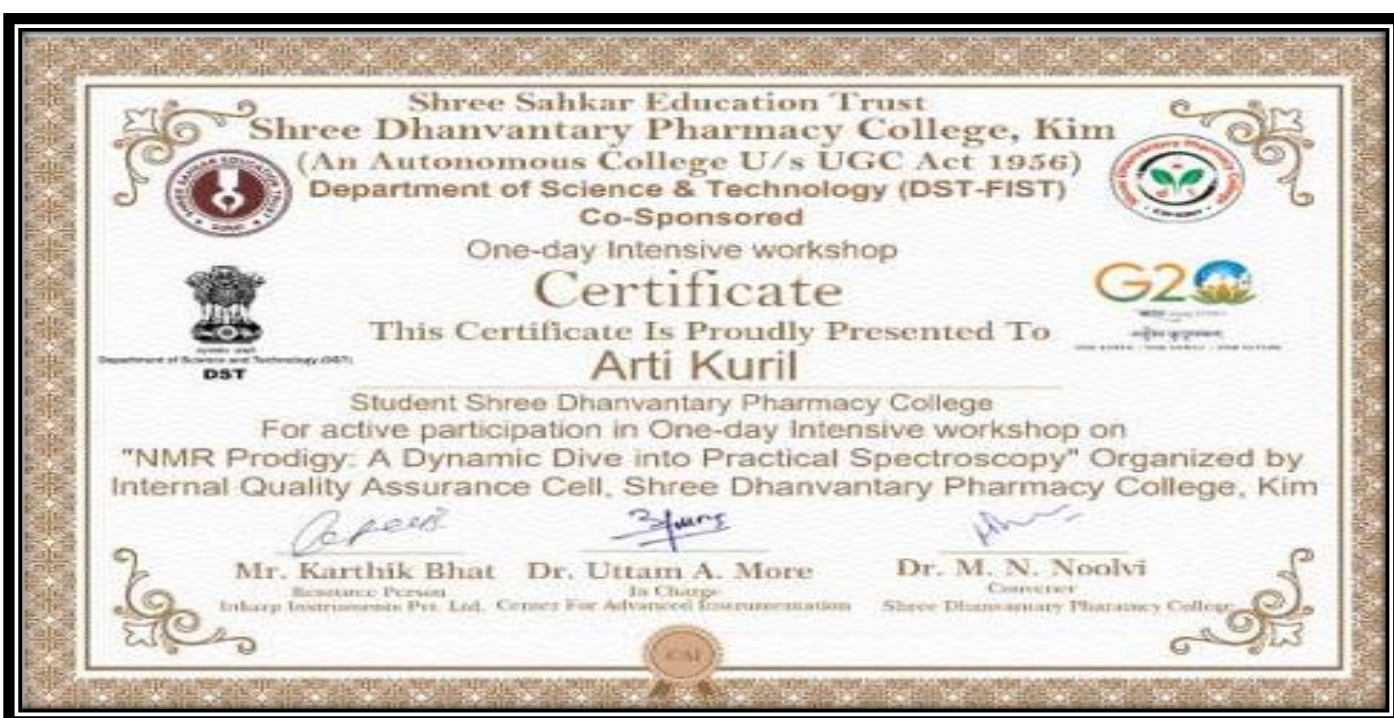
**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

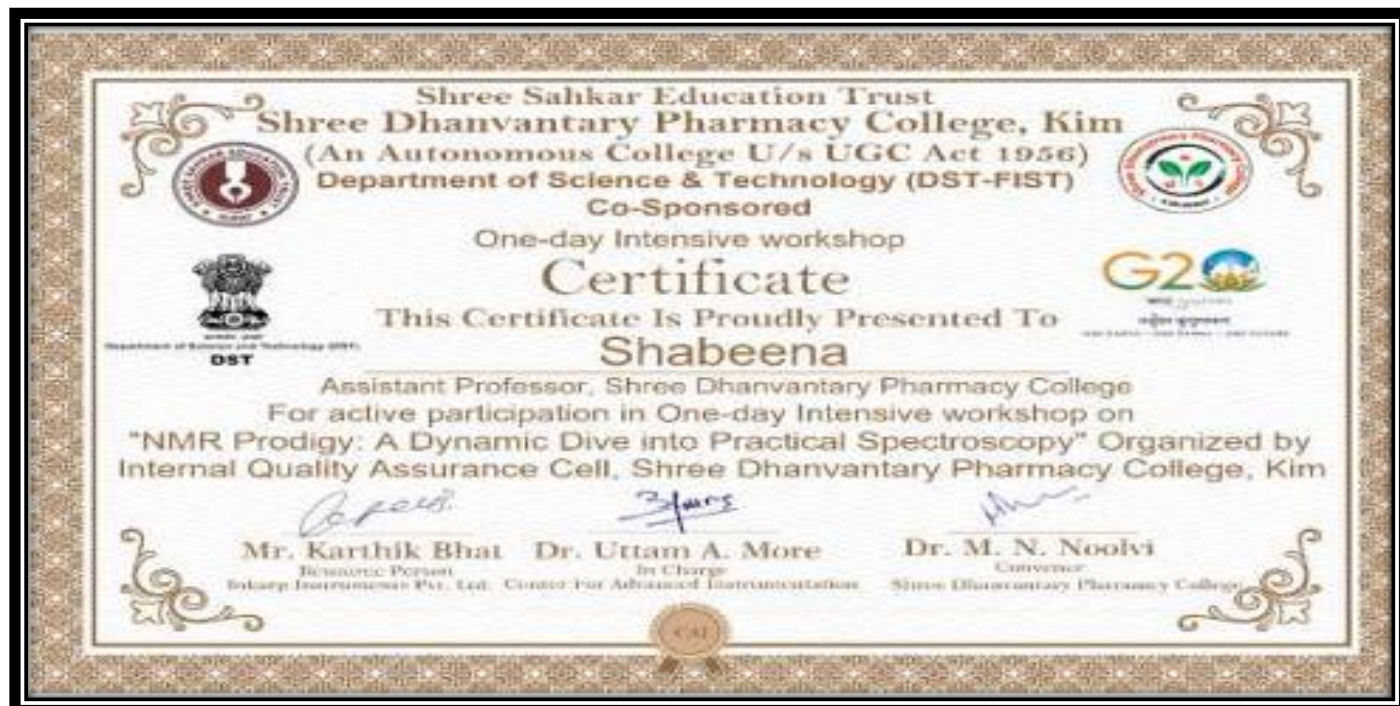
**Brief Description of the Event:** Internal Quality Assurance Cell (IQAC), Shree Dhanvantary Pharmacy College organized a guest lecture on the topic “C-H Activation” at the SDPC campus on 14th March 2024 at 09:00 AM- 12:30 PM. The program started with the flower felicitation of the guest Prof. Dr. Rajshekhar Karpoomath, Discipline of Pharmaceutical Sciences, College of Health Sciences, University of KwaZulu-Natal (UKZN), Westville, Durban 4001, South Africa by our principal Dr. M. N. Noolvi, then followed by Ms. Sonam Gandhi, who introduced the speaker. The whole session was very interesting and informative more than 200 students of B. Pharm, M. Pharm and Pharm D. courses of SDPC are benefited from the talk of our eminent guest Prof. Dr. Rajshekhar Karpoomath. Very useful and informative session for all the students. All the students enjoyed, and learn a lot from the program. In the end, Ms. Sonam Gandhi gave a vote of thanks on behalf of the SDPC family.



## NMR PRODIGY: A DYNAMIC DIVE INTO PRACTICAL SPECTROSCOPY







**Event Name:** “NMR Prodigy: A Dynamic Dive into Practical Spectroscopy”

**Date:**14/03/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** “NMR Prodigy: A Dynamic Dive into Practical Spectroscopy” Internal Quality Assurance Cell (IQAC), Shree Dhanvantary Pharmacy college organized a workshop on “NMR Prodigy: A Dynamic Dive into Practical Spectroscopy” 14th March 2024. Principal Dr. M.N. Noolvi felicitated and introduced speaker Mr. Karthik Bhat. Over 20 Participants (M. Pharm – Chemistry Department) attended workshop. During the workshop Mr. Karthik Bhat explained the in-detail process of NMR handling. After workshop, Q&A session for 10 minutes many students and faculty raised questions and addressed by Mr. Karthik Bhat. Finally, Dr. Uttam More presented the Vote of Thanks.

## WEBINAR ON INTRODUCTION OF ZONAL CHAMPIONSHIP



**Event Name:** Webinar on introduction of zonal championship

**Date:** 21/03/2024

**Time:** 11:30 a.m.

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Seminar hall, Shree Dhanvantary Pharmacy College

**Name of Company:** Makeintern and E-Cell IIT HYD

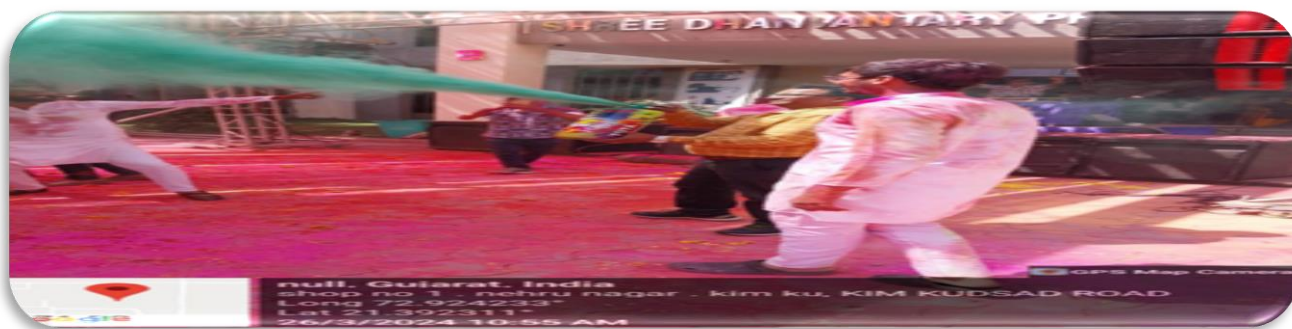
**Brief Description of the Event:** Shree Dhanvantary pharmacy College, conducted an educational talk on, “Webinar on Introduction of zonal championship”, in collaboration with Makeintern and E-Cell IIT HYD, whose speaker was Mr. S. K. Mishra, whose delivered the information regarding clinical research course especially for the candidates who wish to learn about the safety and effectiveness of devices and medications.



## HOLI CELEBRATION







**Event Name:** Holi Celebration

**Date:** 16/03/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Holi, the festival of evil removing and sharing the joy of life with one another was arranged by the college for college students in the SDPC campus on 26 March 2024. Holi is the festival which commemorates the victory of good over evil, brought about by the burning and destruction of the evil demon named Holika. So the spirit of Holi taught the students to follow good conduct in life and believe in the virtue of being truthful and honest. The festival marks the end of winter and the abundance of the upcoming spring harvest season. B.Pharm, M.Pharm, and Pharm.D students celebrated this vibrant festival. The celebration started at 11:00am. The college following the green and global practices had arranged for safe organic herbal Holi colors. On that day the campus of our college was decorated by the students. The Principal, Dr. M.N.Noolvi stated that Holi is a festival of new hope, new beginning and new opportunity. The students of Shree Dhanvantary Pharmacy College welcomed spring, season of hope with songs, dance and bright colors which were the major highlights of this vivid and lively festival. These bright colors are believed to signify energy, life and joy.

## STUDENTS ACHIEVEMENTS

## ACADEMIC RESULT



## SHREE DHANVANTARY PHARMACY COLLEGE

NBA-UG &amp; NAAC ACCREDITED, DSIR-SIRO recognized institute, APPROVED BY PCI

Affiliated to GTU Ahmedabad (An Autonomous College U/s UGC Act 1956)

First Autonomous Pharmacy College in Gujarat



## CONGRATULATIONS

B Pharm 7th semester Toppers



**SAMBHAVI  
SWARN**  
CPI: 9.67



**PAGHADAL GRESEE  
JAGADISHKUMAR**  
CPI: 9.39



**KHOKHAR HITAXI  
GHUSABHAI**  
CPI: 9.38



**PATEL UZMA  
SALIM**  
CPI: 9.30



**ANSARI ZAINAB  
KASAM**  
CPI: 9.14



**SUTARIYA KHUSHI  
KAMLESHBHAI**  
CPI: 9.04



**MANIYAR AAISHA  
BILAL**  
CPI: 9.00



**SHAH KRISHMA  
CHIRAGKUMAR**  
CPI: 8.99



**POSHIYA ABHISHEK  
MAHESHBHAI**  
CPI: 8.93



**SAIYED KAFIULLAH  
KALIMULLAH**  
CPI: 8.93


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# SHREE DHANVANTARY PHARMACY COLLEGE

NBA-UG & NAAC ACCREDITED, DSIR-SIRO recognized institute , APPROVED BY PCI

Affiliated to GTU Ahmedabad (An Autonomous College U/s UGC Act 1956)

First Autonomous Pharmacy College in Gujarat



## CONGRATULATIONS

B Pharm 5th semester Toppers (winter 2024)



**BHAVYA  
SHAH**

CPI: 9.61



**SIDHPURIA  
DHARA AMIT**

CPI: 9.59



**PATEL FATEMABIBI  
ABDULSAMAD**

CPI: 9.42



**GANDHI PRIYANSHI  
PINKESHKUMAR**

CPI: 9.28



**AGVAN TASLIM  
HANIFBHAI**

CPI: 9.01



**MEHTA MAHEK  
RAKESHKUMAR**

CPI: 9.00



**PIYUSH  
AGARWAL**

CPI: 8.96



**PATEL KHUSHI  
CHETANKUMAR**

CPI: 8.90



**VAID MUSKAN  
IRFAN**

CPI: 8.88



**PATEL ZUVERIYA  
SABBIRHUSEN**

CPI: 8.88



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## CONGRATULATIONS

B Pharm 3rd semester(Autonomous) Toppers



**VISHWA VEKARIYA**  
CGPA:9.78



**OLPADWALA TISHA**  
CGPA: 9.63



**YADAV MANSHI**  
**MAHESH**  
CGPA: 9.46



**MAHAJAN VIDHYA**  
**VIJAYBHAI**  
CGPA: 9.43



**RAJPUROHIT**  
**MAHENDRASINGH**  
CGPA: 9.33



**GUNJAL KAJAL**  
CGPA: 9.29



**HIYA GUPTA**  
CGPA: 9.27



**ANSARI IQRA**  
**LAEEQUE AHMAD**  
CGPA: 9.22



**LAD ISHABEN**  
**KIRANBHAI**  
CGPA:9.06



**Prajapati Urvisha**  
**Mukeshbhai**  
CGPA:9.06



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## CONGRATULATIONS

**B-PHARM (Autonomus)**

Semster -1 Institute Topper



**PATEL FENILKUMAR**

**MAHENDRABHAI**

**CGPA : 9.72**



**LAD KRINA JANAKBHAI**

**CGPA : 9.55**



**Arun Dev Singh**

**CGPA : 9.52**



**SHAH KUMKUM KUMARI**

**GOVARDHAN**

**CGPA : 9.52**



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## CONGRATULATIONS



**SAMBHAVI SWARN**

3<sup>rd</sup> RANK | CPI - 9.67

PROUD MOMENT FOR US  
**GTU TOPPER**  
**CPI - WISE**  
B. Pharm 7<sup>th</sup> Semester Winter - 2024

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# CONGRATULATIONS



**BHAVYA SHAH**

**2<sup>nd</sup> RANK | CPI - 9.61**

PROUD MOMENT FOR US

**GTU TOPPER  
CPI - WISE**

B. Pharm 5<sup>th</sup> Semester Winter - 2024

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## **Event Name: Pharmaspectra 4.0**

**Location:** Shree Dhanvantary Pharmacy College campus

**Participated:** B.Pharm, Pharm D and M.Pharm (SDPC & Other Colleges) students

| Date of Event           | Event title      | Name of the winner students    |                                 | Ranks     |
|-------------------------|------------------|--------------------------------|---------------------------------|-----------|
| 06.02.24 To<br>09.02.24 | Singing          | Khushboo<br>Khushali<br>Shukla | Pharm D. 2 <sup>nd</sup><br>Yr. | Winners   |
|                         | Snap<br>Spectrum | Sneh<br>Piluderiya             | B.Pharm<br>2 <sup>nd</sup> Yr.  | Runner Up |
|                         | E-Poster         | Insia<br>Gangardiwala          | Pharm D 5 <sup>th</sup><br>Yr.  | Runner Up |
|                         | Chess<br>(Boys)  | Adnan Shaikh                   | Pharm D 5 <sup>th</sup><br>Yr.  | Runner Up |
|                         | Chess<br>(Girls) | Neha Patel                     | Pharm D 4 <sup>th</sup><br>Yr.  | Winner    |
|                         |                  | Ishita Vats                    | Pharm D 4 <sup>th</sup><br>Yr.  | Runner Up |
|                         | Medi Chef        | Tisha<br>Olpadwala<br>Vidhya   | B.Pharm 1 <sup>st</sup><br>Yr.  | Winners   |
|                         | Treasure<br>Hunt | Tisha<br>Olpadwala             | B.Pharm 1st<br>Yr.              | Winner    |

**Event Name: Sports Week Celebration****Location:** Shree Dhanvantary Pharmacy College campus**Participated:** B.Pharm, Pharm D and M.Pharm SDPC students

| Date of Event        | Event title         | Name of the winner students   |                             | Ranks   |
|----------------------|---------------------|---|-----------------------------|---------|
| 26.02.24 to 28.02.24 | Cricket (Boys)      | Meetrajsinh Kher<br>Dhruv Patel<br>Divyajeet Suratiya<br>Mohammad Samee<br>Salim Shaikh Muaaz<br>Dipu Singh<br>Rohit Saini<br>Rushirajsinh<br>Solanki Sammed<br>Patil Shyam<br>Vekariya Uzaif<br>Shaikh Yuvrajsinh<br>Kher Shivam<br>Shukla Sumit<br>Kachhava | B.Pharm 4 <sup>th</sup> Yr. | Winners |
|                      | Player of the Match | Meetrajsinh Kher  |                             |         |



|          |                  |  |   |           |
|----------|------------------|--|---|-----------|
|          | Cricket (Boys)   | Uday Patel Ajay<br>Yadav Aman<br>Parth Hirapara<br>Karan Patel Manoj<br>Sharma Pratham<br>Yadav Saad<br>Dabhoiwala Samir<br>Singh Utsav Boda<br>Vinay Tiwari<br>Ambikesh Rai Jay<br>Chovatiya Kaduji<br>Musab<br>Prince Yadav  | B.Pharm<br><br>1 <sup>st</sup> Yr.Pharm.D | Runner Up |
| 28.02.24 | Cricket (Girls)) | Bhavya Rathod<br>Vishwa Khasakia<br>Shailvi Patel<br>Kruti Patel<br>Keyuri Patel<br>Nupur Patel<br>Krishna Patel<br>Kinal Rana<br>Misha Patel<br>Darshana Thakor<br>Aachal Mehta<br>Rena Shankar<br>Aditi Patel<br>Nirja Desai | Pharm.D                                   | Winners   |

|          |                     |  |                                    |           |
|----------|---------------------|--|------------------------------------|-----------|
|          |                     | Prerna Pandya  |                                    |           |
|          | Player of the Match | Bhavya Rathod  |                                    |           |
|          | Cricket (Girls))    | Richi Patel<br>Hiral Bhrambhatt<br>Khushi Kapadiya<br>Gracy Patel<br>Heni Chauhan<br>Tisha Thakor<br>Shruti Yadav<br>Richa Vashi<br>Nupoor Thakor Mansi<br>Mahida Vaidehi<br>Chauhan Sakshi<br>Chauhan Thapa Santi<br>Dodiya Shruti<br>Patel Disha | B.Pharm<br>3rd & 4 th Yr.          | Runner Up |
| 28.02.24 | Football (boys)     | Mohammad Gora<br>Mulla Ubaidullah<br>Mulla Ashraf Shah<br>Swapnil Patel<br>Sahil Badhar<br>Nasimuddin Shaikh<br>Utkarsh Gautam<br>Mitul Kalsariya<br>Gaurav Mishra<br>Rubin Mehra  | B.Pharm 3 <sup>rd</sup><br>Yr<br>. | Winner    |

|          |                       |   |                                |           |
|----------|-----------------------|---|--------------------------------|-----------|
|          |                       | Dhruv Parekh  |                                |           |
|          |                       | Mohammad Gora<br>Mulla Ubaidullah<br>Mulla Ashraf<br>Shah Swapnil<br>Patel Sahil<br>Badhar Nasimuddin<br>Shaikh Utkarsh<br>Gautam Mitul<br>Kalsariya Gaurav<br>Mishra Rubin<br>Mehra Dhruv Parekh | B.Pharm 3rd<br>Yr.             | Runner Up |
| 28.02.24 | Volleyball<br>(Boys)  | Shyam Vekariya<br>Meetrajsinh Kher<br>Yuvrajsinh Kher<br>Rushirajsinh Solanki<br>Samir Pathan<br>Samee Sheikh<br>Viralkumar Hirapara<br>Patel Meetkumar<br>Jay Bariya                             | B.Pharm                        | Winner    |
|          |                       | Devansh Valand<br>Santam Barik<br>Vikram Choudhary  | Pharm D                        | Runner Up |
|          | Volleyball<br>(Girls) | Vasu Bakrola<br>Divyang Vasava<br>Raj Jadhav  | B.Pharm 4 <sup>th</sup><br>Yr. | Winner    |



|                            |               |  |                                |           |
|----------------------------|---------------|--|--------------------------------|-----------|
|                            |               | Vinay Chaudhary<br>Jignesh Salunkhe<br>Darpit Vasava<br>Brahmabhatt Hiral<br>Patel Richi<br>Patel Atiya<br>Patel Krishna<br>Ammara Sufi<br>Rashmi Singh<br>Mansi Mahida<br>Vasava Simran<br>Heni Chauhan |                                |           |
|                            |               | Krishna Patel<br>Honey Patel Khushi<br>Thakkar Prerna<br>Pandya Vishwa<br>Khasakia Kruti<br>Patel Shivani<br>Mistry Swati Khunt<br>Keyuri Patel  | Pharm.D                        | Runner Up |
| 26.02.24<br>to<br>02.03.24 | Chess (Boys)  | Devansh Valand   | Pharm D<br>4 <sup>th</sup> Yr. | Winner    |
|                            |               | Pratham Yadav  | B.Pharm<br>1 <sup>st</sup> Yr. | Runner Up |
|                            | Chess (Girls) | Zainab Kasam<br>Ansari   | B.Pharm<br>3r Yr.              | Winner    |
|                            |               | Fenal Desai  | Pharm D                        | Runner Up |

|                            |                                 |   |   |              |
|----------------------------|---------------------------------|---|---|--------------|
|                            |                                 |   | 5 <sup>th</sup> Yr.                       |              |
| 26.02.24<br>to<br>29.02.24 | Badminton<br>Singles            | Khushboo Shukla   | Pharm.D 2 <sup>nd</sup>                   | Winner       |
|                            |                                 | Dhruvi Prajapati  | B.Pharm 1 <sup>st</sup><br>Yr.            | Runner Up    |
|                            | Badminton<br>Singles            | Zeel Naik   | Faculty                                   | Winner       |
|                            |                                 | Samir Singh   | B.Pharm 1 <sup>st</sup><br>Yr.            | Runner Up    |
|                            | Badminton<br>Doubles<br>(Girls) | Khushali Shukla<br>Khushboo Shukla  | Pharm.D 2 <sup>nd</sup><br>Yr.            | Winner       |
|                            |                                 | Kajal Shukla<br>Zainab Ansari   | B.Pharm 3 <sup>rd</sup><br>Yr.            | Runner Up    |
|                            | Badminton<br>Doubles<br>(Boys)  | Abhishek Poshiya<br>Parthiv Ambaliya  | B.Pharm 3 <sup>rd</sup><br>Yr.            | Winner       |
|                            |                                 | Harshit Mishra<br>Vatsal Nagar  | Pharm D                                   | Runner<br>Up |
|                            | Mix Doubles                     | Dr. Zeel Naik<br>Khushbu Shukla   | Faculty<br>Pharm D<br>2 <sup>nd</sup> Yr. | Winner       |
|                            |                                 | Jay Champaneria<br>Perna Pandya   | Pharm D<br>2 <sup>nd</sup> Yr.            | Runner Up    |
| 29.02.2024                 | Kabaddi                         | Samir Singh<br>Pratham Yadav<br>Manoj Sharma<br>Ravi Pandey<br>Vinay Tiwari<br>Ambikesh Rai<br>Prince Yadav | B.Pharm 1 <sup>st</sup><br>Yr.            | Winner       |

|                            |                    |   |   |           |
|----------------------------|--------------------|---|---|-----------|
|                            |                    | Uday Patel<br>Parth Hirapara<br>Saad Dabhoiwala   |   |           |
|                            |                    | Dr Zeel Naik<br>Vikram Chaudhary<br>Devansh Valand<br>Santam Barik<br>Jignesh Salunkhe<br>Dhruv Jadhav<br>Raj Jadhav<br>Krish Kalathiya<br>Rushi Kalathiya<br>Darpit Vasava | Pharm.D                                     | Runner Up |
| 26.02.24<br>to<br>02.03.24 | Carrom<br>(Girls)  | Dr. Fatima Tadvla<br>Ms. Shabeena Sabbir  | Faculties                                   | Winner    |
|                            |                    | Gracy Patel<br>Heni Chauhan   | B.Pharm<br>3 <sup>rd</sup> Yr.              | Runner Up |
|                            | Carrom<br>(Boys)   | Dr. Zeel Naik<br>Abhinandan Shahi   | Faculties                                   | Winner    |
|                            |                    | Vivek Patel<br>Anurag Dubey   | M.Pharm<br>2 <sup>nd</sup> Yr<br>& Faculty. | Runner Up |
| 02.03.24                   | Kho-Kho<br>(Girls) | Richi Patel<br>Patel Krishna<br>Patel Atiya<br>Patel Disha<br>Thapa Shanti  | B.Pharm 4 <sup>th</sup><br>Yr.              | Winners   |



|          |                          |  |                    |           |
|----------|--------------------------|--|--------------------|-----------|
|          |                          | Patel Nirali<br>Panchal Mitali<br>Mansi Mahida<br>Gondaliya Mrigisha<br>Khushi Kapadia<br>Sheikh Tanzim<br>Tannu Ratan   |                    |           |
|          |                          | Nirja Desai<br>Vishwa Khasakia<br>Prerna Pandya<br>Misha Patel<br>Shailvi Patel<br>Kinal Rana<br>Keyuri Patel<br>Krishna Patel<br>Hetvi Desai<br>Vaidehi Chauhan<br>Vidhi Sanghvi<br>Khushali Shukla | Pharm.D            | Runner Up |
|          | Player of The Tournament | Patel Atiya  |                    |           |
| 02.03.24 | Tug of War (Boys)        | Gajera Dhruv<br>Prem Bhatt<br>Zaid Limbada<br>Jay Kayasth<br>Yash Dhameliya<br>Smit Jetani   | B.Pharm<br>4th Yr. | Winners   |

|          |                       |   |  |           |
|----------|-----------------------|---|--|-----------|
|          |                       | <div>Divyajeet Suratiya</div> <div>Vaibhav Pandya</div> <div>Rushirajsinh Solanki</div> <div>Meetrajsinh Kher</div>   |  |           |
|          |                       | <div>Santam Barik</div> <div>Tirth Shah</div> <div>Jignesh Salunkhe</div> <div>Dharmik Joshi</div> <div>Vikram Choudhary</div> <div>Bhadreshsinh Gohil</div> <div>Devansh Valand</div> <div>Adnan Shaikh</div> <div>Yash Makwana</div> <div>Shivam Sharma</div> | Pharm.D                                | Runner Up |
| 02.03.24 | Tug of War<br>(Girls) | <div>Kapdi Mukti</div> <div>Khushi Kapadiya</div> <div>Richi Patel</div> <div>Atiya Patel</div> <div>Mansi Mahida</div> <div>Hiral Brahmbhatt</div> <div>Tannu Ratan</div> <div>Nisha Prasad</div> <div>Riya Patel</div> <div>Mansi Mahida</div>                | B.Pharm 4 <sup>th</sup> Yr.            | Winners   |
|          |                       | <div>Vishwa Vekariya</div> <div>Tisha Olpadwala</div> <div>Vidhya Mahajan</div>   | <div>B.Pharm</div> <div>1 st Yr.</div> | Runner Up |

|          |   |   |                             |           |
|----------|---|---|-----------------------------|-----------|
|          |   | Zeel Paghdal<br>Jeel Vekariya<br>Henisha Hirpara<br>Prashvita Thakor<br>Mahek Hingu<br>Kinal Gorasiya |                             |           |
| 28.02.24 | Weight Lifting<br>(Boys)<br>(50-60 kg)    | Adil Patel  | B.Pharm 2 <sup>nd</sup> Yr. | Winners   |
|          |   | Shamun Mansuri  | Pharm D 5 <sup>th</sup> Yr. | Runner Up |
|          | Weight Lifting<br>(Boys)<br>(60-70 kg)    | Shubham Pal   | B.Pharm 3 <sup>rd</sup> Yr. | Winners   |
|          |   | Vikram Chaudhari  | Pharm D 5 <sup>th</sup> Yr. | Runner Up |
|          | Weight Lifting<br>(Boys)<br>(80-90 kg)    | Samtam Barik  | Pharm D 5 <sup>th</sup> Yr  | Winners   |
|          |   | Saransh Misra   | M.Pharm 2 <sup>nd</sup> Yr. | Runner    |
|          | Weight Lifting<br>Boys) (more than 90 kg) | Jignesh Salunke   | Pharm D 5 <sup>th</sup> Yr. | Winners   |
|          |   | Tirth Shah  | Pharm D 4 <sup>th</sup> Yr. | Runner Up |
|          | Weight Lifting<br>(Girls)<br>(50-60 kg)   | Rumana Patel  | Faculty                     | Winners   |
|          |   | Neha Patel  | Pharm D 4 <sup>th</sup> Yr. | Runner Up |



|                                      |   |  |  |           |
|--------------------------------------|---|--|--|-----------|
|                                      | Weight Lifting<br>(Girls)<br>(70-80 kg) | Nisha Jalavadiya   | Pharm D<br>4 <sup>th</sup> Yr.                             | Winners   |
|                                      |   | Araf Mehfusa   | Faculty  | Runner Up |
| 26.02.24<br>to<br>02.03.24           | BUGMI<br>(Boys)                         | Yash Patel<br>Shrinit Chourasiya<br>Krish Patel<br>Bhadreshsinh Gohil<br>Saul Chaudhari    | Pharm D  | Winners   |
|                                      |   | Dungrani Jeel Surma<br>Nishantsinh<br>Brambhatt Darsan<br>Jagani Viral<br>Bhumit Mangukiya | B.Pharm 2 <sup>nd</sup><br>Yr.                             | Runner Up |
| Sportsperson of the<br>Year (Male)   |   | Meetrajsinh Kher Devansh<br>Valad  | B.Pharm 4 <sup>th</sup> Yr.<br>Pharm D 4 <sup>th</sup> Yr. |           |
| Sportsperson of<br>the Year (Female) |   | Richi Patel Prerna Pandya  | B.Pharm 4 <sup>th</sup> Yr<br>Pharm D 2 <sup>nd</sup> Yr.  |           |

**Event Name: Days celebration****Location:** Shree Dhanvantary Pharmacy College campus**Participated :** B.Pharm, Pharm D and M.Pharm (SDPC) students

| Date of Event | Event title                       | Name of the winner students                          |                             | Ranks     |
|---------------|-----------------------------------|--|-----------------------------|-----------|
| 26.02.24      | Turban & Goggles Day              | Patel Atiya Salim                                    | B.Pharm 4 <sup>th</sup> Yr. | Winners   |
|               |                                   | Shah Monikaben                                       | B.Pharm 3 <sup>rd</sup> Yr. | Runner Up |
| 27.02.24      | Traditional Day                   | Tannu Rattan   | B.Pharm 4 <sup>th</sup> Yr. | Winners   |
|               |                                   | Janvi Verma  | Pharm D 4 <sup>th</sup> Yr. | Runner Up |
| 28.02.24      | Bollywood & Hollywood Day (Girls) | Shivani Sojitra                                      | B.Pharm 2 <sup>nd</sup> yr. | Winners   |
|               |                                   | Hetvi Desai  | Pharm.D 2 <sup>nd</sup> yr. | Runner Up |
|               | Bollywood & Hollywood Day (Boys)  | Mayank Patel   | M.Pharm 2 <sup>nd</sup> yr. | Winner    |
|               |                                   | Mayank Patel   | M.Pharm 2 <sup>nd</sup> yr. | Winner    |
| 29.02.24      | School Day                        | Tannu Rattan<br>Mrigisha Gondaliya<br>Mitali Panchal | B.Pharm 4 <sup>th</sup> Yr. | Winners   |
|               |                                   | Tannu Rattan<br>Uzma Patel<br>Atiya Patel            | B.Pharm 4 <sup>th</sup> Yr. | Runner Up |

|          |   |  |                             |           |
|----------|---|--|-----------------------------|-----------|
|          | Retro Day                               | Tannu Ratan  | B.Pharm 4 <sup>th</sup> Yr. | Winners   |
|          |   | Dhyani Sonani  | B.Pharm 2 <sup>nd</sup> Yr. | Runner Up |
| 01.03.24 | Suit & Saree<br>Day (Girls)             | Nisha Zalavadiya   | Pharm D 4th Yr.             | Winners   |
|          |   | Pathak Sambhavi  | B.Pharm 3 <sup>rd</sup> Yr. | Runner Up |
|          | Suit & Saree<br>Day (Boys)              | Jenil Barvaliya  | Pharm D 4 <sup>th</sup> Yr. | Winners   |
|          |   | Yash Chauhan   | Pharm D 1 <sup>st</sup> Yr. | Runner Up |
| 01.03.24 | Group Day &<br>Signature<br>Day (Group) | Yuvrajsinh Kher<br>Richi Patel Mansi<br>Mahida<br>Mitrajsinh<br>Kher Hiral<br>Brahmbhatt | B.Pharm 4 <sup>th</sup> Yr. | Winners   |
|          |   | Krunalsinh Kher  | B.Pharm 3 <sup>rd</sup> Yr. | Winner    |
|          |   | Ash Patel  | Pharm D                     | Winner    |
|          |   | Yuvrajsinh Kher  | B.Pharm 4 <sup>th</sup> Yr. | Runner Up |



## PAPER PUBLICATION BY FACULTY

| Authors Name              | Title of Publication   | Journal Name  | Month/<br>Year | Volume<br>(Issue)     |
|---------------------------|--|---|----------------|-----------------------|
| Dr. Pallavi K.J           | Evaluation of acute intravenous toxicity of HEPES: Is Good's buffer good and safe enough for clinical utilization in nuclear medicine? | Nuclear Medicine and Biology                            | 2024           | Volume 9<br>(Issue 3) |
| Dr. Pallavi K.J           | Herbal Approaches for Treating Chronic Inflammatory Diseases: A Comprehensive Review   | International Journal of Novel Research and Development | 2024           | Volume 9<br>(Issue 3) |
| Ms. Rathod<br>Mohini<br>: | Herbal Approaches for Treating Chronic Inflammatory Diseases: A Comprehensive Review   | International Journal of Novel Research and Development | 2024           | Volume 9<br>(Issue 3) |



## Evaluation of acute intravenous toxicity of HEPES: Is Good's buffer good and safe enough for clinical utilization in nuclear medicine?

Mohini Guleria<sup>a, b</sup>, K.J. Pallavi<sup>c</sup>, Pranjal P. Gujarathi<sup>c</sup>, Tapas Das<sup>a, b, \*</sup>

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<sup>b</sup> Homi Bhabha National Institute, Anushaktinagar, Mumbai 400094, India

<sup>c</sup> Shree Dhanvantary Pharmacy College, Kim, Surat, Gujarat 394110, India

### ARTICLE INFO

#### Keywords:

HEPES

Good's buffer

Toxicity

Lethal dose

MTD

Radiopharmaceuticals

### ABSTRACT

**Objective:** Good's buffer or HEPES has advantages over other buffers commonly used in radiopharmaceutical preparation as it exhibits significantly lower complexation tendency with metal ions. However, use of HEPES buffer for radiolabeling reactions, meant for clinical applications, has been underrated due to the non-availability of sufficient toxicity data. The objective of the present study is to find the evidences towards safety of intravenous administration of HEPES through systemic toxicological studies in small animal model to support its safe application for clinical exploitation.

**Experimental:** A pilot study was performed to investigate the lethal dose of HEPES in female Sprague Dawley rats by administering seven different doses of HEPES solution (150 to 2000 mg/kg), through intravenous pathway. Similarly, for determining maximum tolerated dose (MTD), gradually increasing doses of HEPES (50 to 950 mg/kg) were administered in the same species via similar pathway. Various hematological and clinical pathological investigations were carried out in order to find out the safe administration dose of HEPES in rats.

**Results:** No mortality was observed up to 2000 mg/kg doses of HEPES. The doses beyond 300 mg/kg resulted few temporary adverse effects, though these were found to disappear within 4–5 days of dosing.

**Conclusion:** The amount of HEPES to be administered during clinical intervention is usually much lower (typically 1–2.5 mg per kg of body weight of healthy adult) than the MTD determined in rat model during present report. Hence, the utilization of this buffer for preparation of radiolabeled drugs for human investigation may be safe. However, further detailed investigations may be warranted for supporting the candidature of Good's buffer for regular clinical exploitation.

### 1. Introduction

A buffer is a solution that can resist pH change upon small additions of either a strong acid or strong base [1,2]. Buffers play an important role in the formulation of radiopharmaceuticals as the radiolabeling yield and the radiochemical purity of many such preparations are strongly dependent on the pH at which the radiolabeling is performed [3]. As the buffer has the ability to neutralize small amounts of added acid or base, it keeps the pH of the solution relatively stable and thus avoids or at least reduces the possibility of formation of undesired radiolabeled species during the radiolabeling process. Therefore, use of a suitable buffering agent of appropriate quality and in adequate quantity is one of the most important requirements for the successful formulation and clinical utilization of a wide variety of radiopharmaceuticals. A buffer to be used for the radiopharmaceutical formulation should be

non-toxic, able to buffer in the desired pH region, either does not interfere with the radiometal ion at all or forms a weak metal complex with radiometal ion, which can be broken easily in presence of desired ligand, to avoid formation of undesired intermediates [3]. Although various types of buffers (e.g. acetate, glutamate, lactate, oxalate, phosphate, succinate, tris) can be used for the formulation of radiopharmaceuticals, only a limited few have been used in the actual practise [3].

HEPES (4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid) is a zwitterionic buffering agent, which is one of the twelve Good's buffers developed for use in biological studies [4]. As per literature data, HEPES has been employed majorly for formulation of <sup>68</sup>Ga-based radiopharmaceuticals and more recently for formulation of <sup>89</sup>Zr-based pharmaceuticals [3,5–9]. Studies carried out with HEPES buffer provided evidence in favour of the fact that it forms very weak complexes with many of the metal ions (a weakly co-ordinating buffer), which is one of

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## "Herbal Approaches for Treating Chronic Inflammatory Diseases: A Comprehensive Review"

### Authors

Apexa U Gohil<sup>1</sup>, Rathod Mohini<sup>2</sup>, Dr.Pallavi K.J<sup>3</sup>

[Department of Pharmacology Shree Dhanvantri Pharmacy College]

### Objectives:

1. Identify the Etiology of Chronic Inflammation: Understanding the diverse array of factors contributing to chronic inflammation, including persistent infections, autoimmune disorders, environmental toxins, and lifestyle factors.
2. Summarise the Pathophysiology of Chronic Inflammation: Exploring the intricate cellular and molecular mechanisms involved in sustained inflammation, such as the activation of immune cells, release of pro-inflammatory mediators, tissue remodelling, and the development of fibrosis.
3. Outline Treatment and Management Options: Reviewing conventional treatment modalities such as non-steroidal anti-inflammatory drugs (NSAIDs), corticosteroids, immunosuppressants, and biologic therapies, alongside lifestyle modifications including diet, exercise, and stress management.
4. Lacunas of Current Treatment: Identifying the limitations and gaps in current treatment approaches for chronic inflammation, including potential side effects of medications, incomplete symptom relief, and challenges in addressing the underlying causes of inflammation.
5. Herbal Approach for Treating Chronic Inflammation: Exploring the potential benefits of herbal remedies and botanical supplements known for their anti-inflammatory properties

### Introduction

Inflammation constitutes a crucial component of the body's defence mechanisms, serving to recognise and eliminate harmful or foreign agents while initiating the healing process. This physiological response can manifest as either acute or chronic, each characterised by distinct features and durations.

Acute inflammation typically arises in response to tissue damage caused by various triggers such as trauma, microbial invasion, or exposure to noxious substances. Its onset is rapid, with symptoms escalating quickly and potentially subsiding within a few days. Conditions like cellulitis or acute pneumonia exemplify acute inflammation. Subacute inflammation denotes the transitional phase between acute and chronic inflammation, spanning approximately 2 to 6 weeks.

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## WORKSHOP / SEMINAR / WEBINAR / FDP ATTENDED BY FACULTY

| Name of Faculty          | Title  | Name of Event |
|--------------------------|--|---------------|
| <b>Dr. Uttam More</b>    | A Captivating Exploration of Artificial intelligence Influence on Shaping the Contemporary Landscape in the Health care and Defense of Pharmacy” | FDP           |
| <b>Ms. Sonam Gandhi</b>  | A Captivating Exploration of Artificial intelligence Influence on Shaping the Contemporary Landscape in the Health care and Defense of Pharmacy” | FDP           |
| <b>Ms. Meera Devi</b>    | A Captivating Exploration of Artificial intelligence Influence on Shaping the Contemporary Landscape in the Health care and Defense of Pharmacy” | FDP           |
| <b>Ms. Shabeena Khan</b> | A Captivating Exploration of Artificial intelligence Influence on Shaping the Contemporary Landscape in the Health care and Defense of Pharmacy” | FDP           |
| <b>Ms. Kiran Makwana</b> | A Captivating Exploration of Artificial intelligence Influence on Shaping the Contemporary Landscape in the Health care and Defense of Pharmacy” | FDP           |









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## VOTER PLEDGE



**Event Name:** Voter pledge

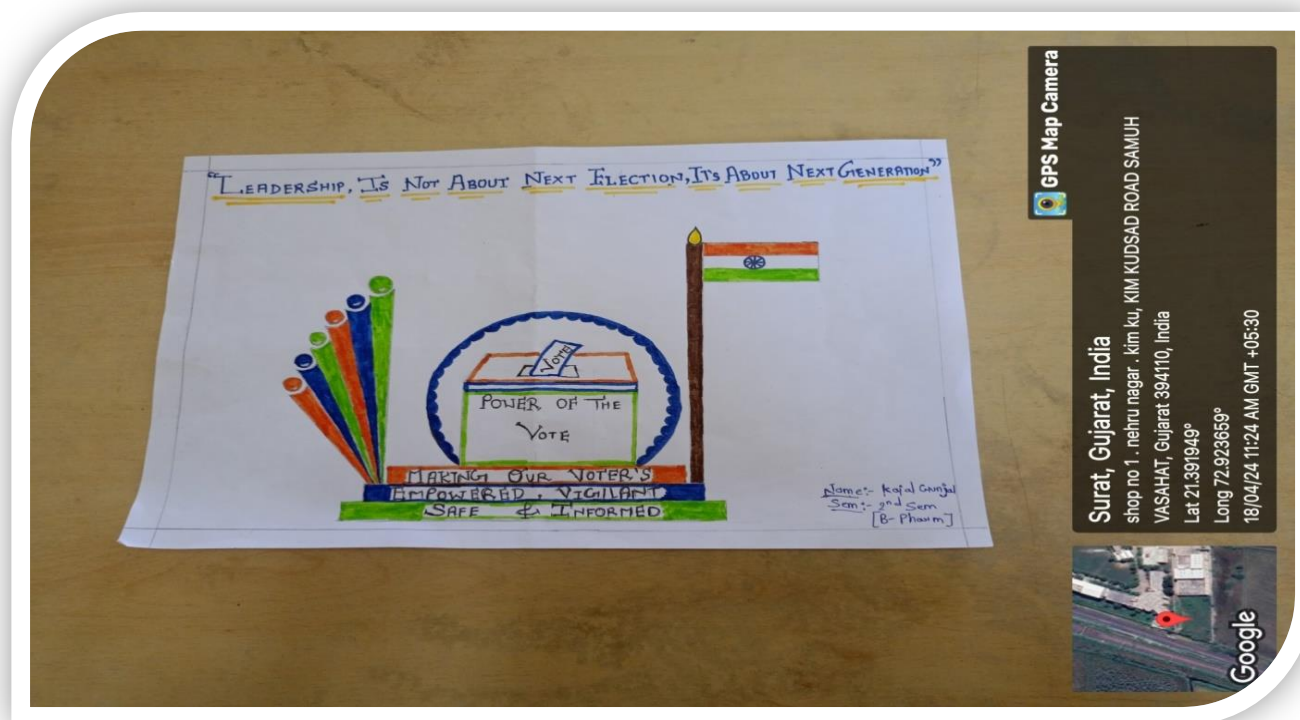
**Date:** 12/04/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** The NSS unit of Shree Dhanvantary Pharmacy College organized Voter pledge regarding upcoming election. To concerned every classroom and assisted the NSS programme officer in this taken voter pledged. Students pledged to uphold democratic traditions of our country and the dignity of free, fair and peaceful elections without being influenced by considerations of religion, race, caste, community, language or any other inducement. The pledge was undertaken to motivate young voters to exercise their privilege to cast a vote in free and fair elections in a free democratic country. All the students pledged that they would vote without any fear in this upcoming election.

**DRAWING COMPETITION FOR “MATDAN JAGRUTI”**



**Event Name:** : Drawing competition for “Matdan Jagruti”

**Date:** 18/04/2024

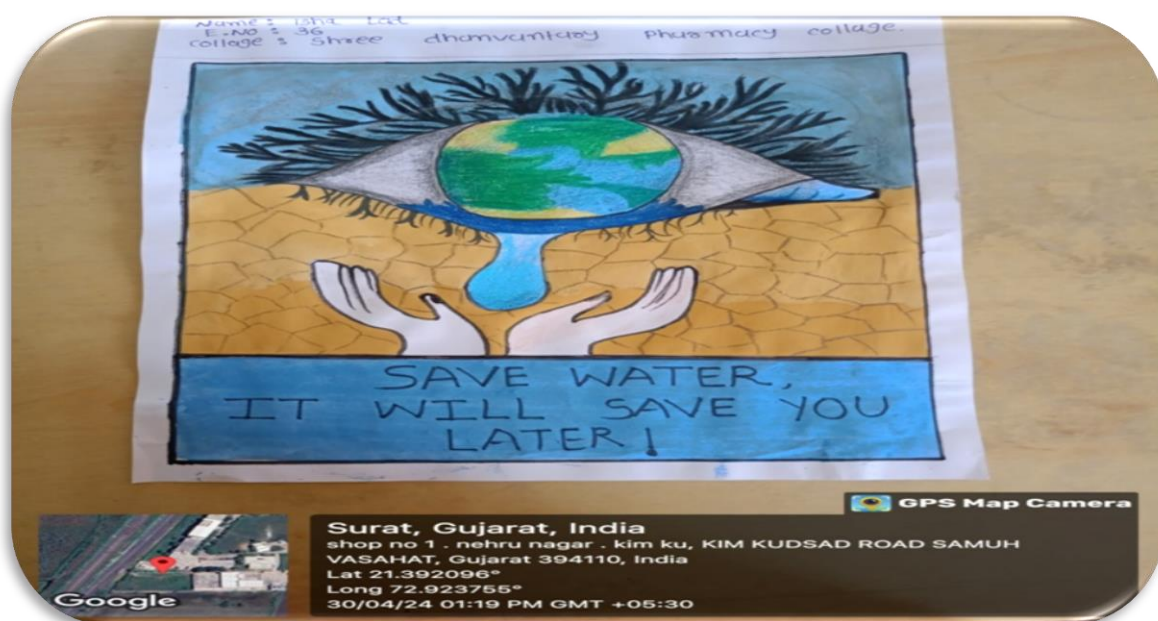
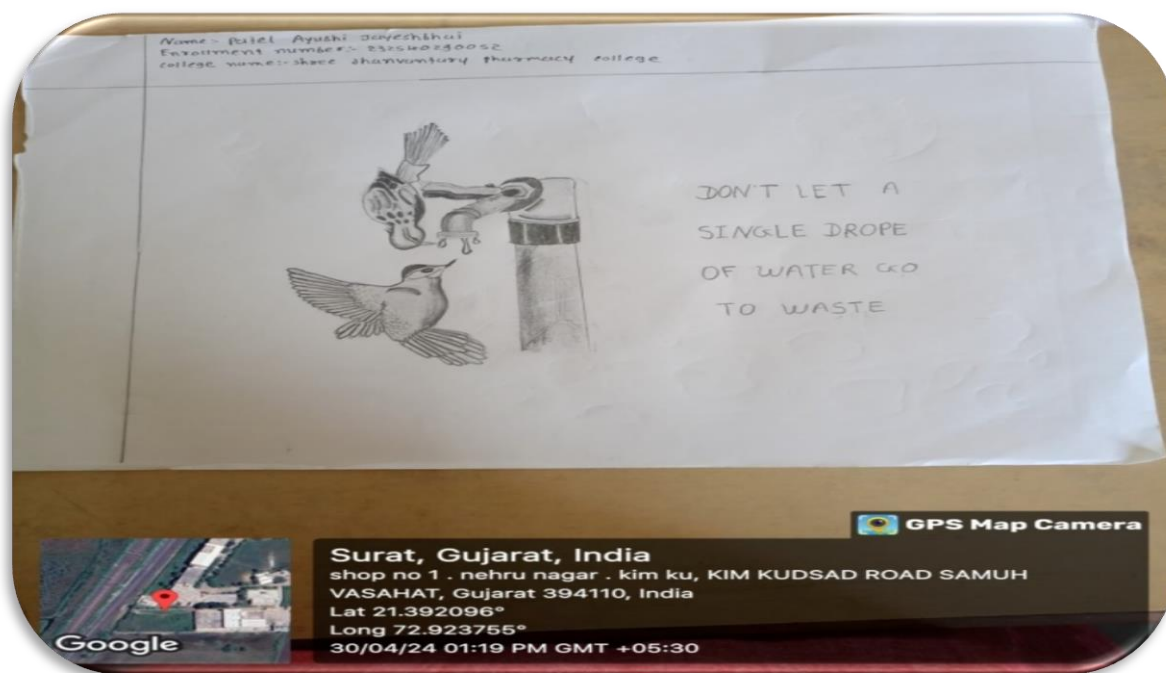
**Participants:** Pharm D. and B.Pharm Students

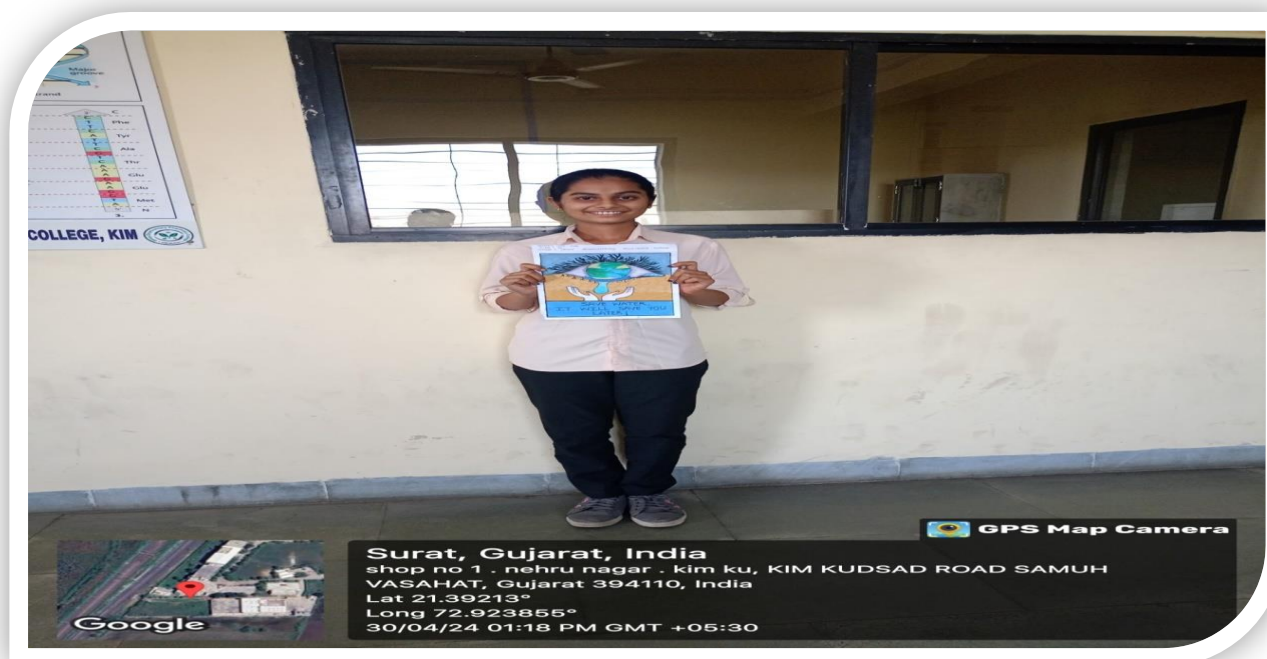
**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** The NSS unit of Shree Dhanvantary Pharmacy College organized drawing competition regarding “Matdan Jagruti”. Informed the all students and they participation in drawing competition for the “Matdan Jagruti”. The theme for the said drawing competition was “Matdan Jagruti”. As B.Pharm and Pharm.D Students Participated in the competition enthusiastically depicting the “Matdan Jagruti” through their colourful paintings. All students painted, sketched and illustrated their ideas about voting liberation with great enthusiasm and joy. Students and all faculty members also showed very good interest in drawing competition and our program turned into a successful one.



## DRAWING COMPETITION FOR “JAL PAKHAWADIYA” CELEBRATION





**Event Name:** Drawing competition for “Jal Pakhawadiya”

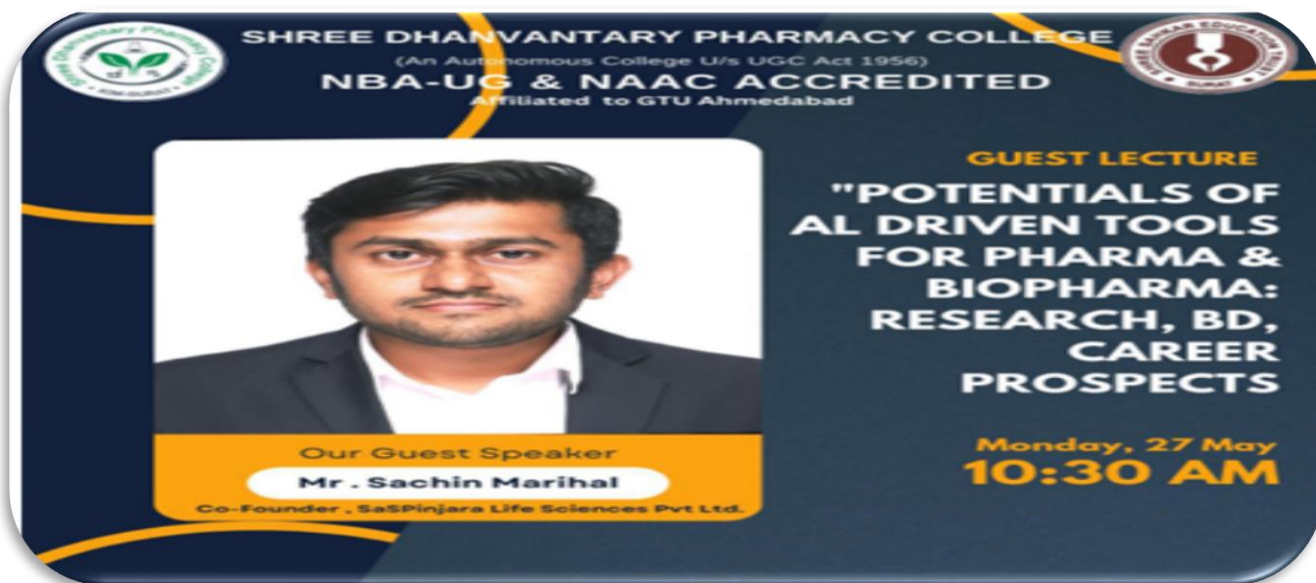
**Date:** 30/04/2024

**Participants:** Pharm D. and B.Pharm Students

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** The NSS unit of Shree Dhanvantary Pharmacy College organised ‘Drawing competition for “Jal Pakhawadiya”’. The theme for the said drawing competition was ‘Save Water’ to sensitize students and masses about the conservation of water which is a precious resource and should be conserved for future generations also. Students prepared colourful and sketched drawing with slogans. With full energy students participated in this drawing competition and spread awareness for conservation of water and also how to minimize the use of water. It aimed at conserving and protecting natural water bodies and their aquatic environments. Saving water helps to preserve our environment and with slogans students participated enthusiastically.

## SEMINAR ON POTENTIAL OF AI DRIVEN TOOLS FOR PHARMA & BIOPHARMA: RESEARCH, BD, CAREER PROSPECTS



**SHREE DHANVANTARY PHARMACY COLLEGE**  
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**GUEST LECTURE**  
**"POTENTIALS OF AI DRIVEN TOOLS FOR PHARMA & BIOPHARMA: RESEARCH, BD, CAREER PROSPECTS"**  
**Monday, 27 May 10:30 AM**

**Our Guest Speaker**  
**Mr. Sachin Marihal**  
Co-Founder, SaSPinjara Life Sciences Pvt Ltd.







**Event Name:** Seminar on Potential of AI Driven Tools For Pharma & Biopharma: Research, BD, Career Prospects”

**Date:** 27/05/2024

**Participants:** Pharm D. and B.Pharm Students

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Internal Quality Assurance Cell (IQAC), Shree Dhanvantary Pharmacy College organized a One Day program on “Potential of AI Driven Tools For Pharma & Biopharma: Research, BD, Career Prospects” at the SDPC campus. The program started with the flower felicitation of the guest Mr. Sachin Marihal, Co-Founder, Saspinjara Life Science Pvt Ltd by Academic head Dr. M. N. Noolvi, and then followed by Mrs. Achla Vyas, who introduced the speaker. Over 200 SDPC students benefited from the presentation, which was very entertaining and educational throughout. Mr. Sachin Marihal spoke on two extremely important topics: the use of technology to launch a successful career and AI Tools Pharma & Biopharma Research. handled a variety of issues in the sector that he encountered over his tenure. Mr. Sachin assisted students with profession selection and skill enhancement using modern tools. For every student, it was a really beneficial and educational session.

## FIRE SAFETY AWARENESS PROGRAM



**Event Name:** Fire Safety Program

**Date:** 06/06/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Fire detection and prevention programs provide guidelines to all the students so that they would be empowered to detect fire early enough to take the necessary precautions. Students were trained on how to use fire extinguisher. Students were explained about different types of fire and how to manage it.

## AWARENESS PROGRAM ON "RECENT ADVANCEMENT IN PHARMACEUTICAL STUDIES"

**SHREE DHANVANTARY PHARMACY COLLEGE**  
(An Autonomous College U/s UGC Act 1956)  
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Affiliated to GTU Ahmedabad

**JAYACHANDRA BABU RAMAPURAM**  
Professor & Head of Pharmaceutics,  
Department of Drug Discovery and  
Development Harrison School of Pharmacy,  
Auburn University, USA  
GUEST SPEAKER

Thursday, 13 June 2024  
**10 AM**







**Event Name:** Awareness program on “Recent Advancement in Pharmaceutical Studies”

**Date:** 13/06/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** Internal Quality Assurance Cell (IQAC), Shree Dhanvantary Pharmacy College organized a One Day awareness program on “Recent Advancement in Pharmaceutical Studies” at the SDPC campus on 13<sup>th</sup> June 2024 at 10:00 AM- 11:30 AM. The program started with the flower felicitation of the guest Dr. Jayachandra Babu Ramapuram Professor and Graduate Program Officer at the Department of Drug Discovery and Development, Harrison School of Pharmacy, Auburn University by Academic head Dr. M. N. Noolvi, and then followed by Mrs. Achla Vyas, who introduced the speaker. Over 200 SDPC students benefited from the presentation, which was very entertaining and educational throughout. Dr. Jayachandra Babu Ramapuram spoke on two extremely important topics: 3D Printing, nanoparticles, nanoemulsions, cyclodextrin complexes, microneedle patches, melt-extrusion systems, and amorphous solids for delivery across oral, ocular, transmucosal, and transdermal routes. Dr. Jayachandra Sir has given very important information about 3D patches targeted drug delivery and anti-obesity 3D implants. For every student, it was a really beneficial and educational session. Highly energetic session ended with vote of thanks by Dr. N.M Noolvi sir.

## YOGA DAY CELEBRATION







**Event Name:** Yoga Day Celebration

**Date:** 21/06/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** As we all know International Yoga Day is celebrated on 21st of June every year. Students of Shree Dhanvantary Pharmacy college participated with so much enthusiasm and performed different kinds of Asana. As yoga helps to calm our mind and improvise focus which will help them to grow and glow. Ms. Mohini Rathod & Ms. Neha Jain did an amazing job as the Yoga instructor by explaining all the asana, telling students about benefits of implementing yoga in day to day life.



## POLIO VACCINATION





**Event Name:** Oral Polio Vaccination

**Date:** 23/06/2024

**Participants:** Pharm D. and B.Pharm Students, All Teaching Staff

**Location:** Shree Dhanvantary Pharmacy College

**Brief Description of the Event:** The NSS Unit of the college had organized Oral Polio Vaccination Program in association with Surat Municipality. The initiative was started with the objective of achieving hundred percent coverage under the Oral Polio Vaccination. It aimed to immunize children through improved social mobilization and plan mop-up operations in areas. where poliovirus has almost disappeared and maintains a high level of morale among the public. To create awareness of and importance of polio vaccination among community, Health Professional trained for Polio Vaccination Camp. Around 30 students actively participated in door to-door camping for the oral polio vaccination. With the support by the management, staff members and students, the program turned a successful one.

## PAPER PUBLICATION BY FACULTY

| Author Name       | Title   | Journal Name  | Volume: Issue: Page Number | Year |
|-------------------|---|---|----------------------------|------|
| Dr. Pallavi K. J  | Evaluation of acute intravenous toxicity of HEPES: Is Good's buffer good and safe enough for clinical utilization in nuclear medicine | Nuclear Medicine and Biology                                      | -                          | 2024 |
| Dr. Pallavi K. J  | Herbal Approaches for Treating Inflammatory Diseases: A Comprehensive Review  | International Journal of Novel Research and Development           | 9:3:540-563                | 2024 |
| Dr. Manish Goyani | Formulation and Evaluation of Delafloxacin Loaded Niosomal Gel for the Treatment of Acute Bacterial Skin and Skin Structure Infection | International Journal of Pharmaceutical Research and Applications | 9:2: 2006-2017             | 2024 |
| Dr. Manish Goyani | . Preparation and Characterization of Solid Dispersion useful in making Sublingual tablets of Piroxicam                               | Indian Drugs  | 61:5                       | 2024 |



|                |   |   |                 |      |
|----------------|---|---|-----------------|------|
| Rathod Mohini  | Herbal Approaches for Treating Chronic Inflammatory Diseases: A Comprehensive Review        | International Journal of Novel Research and Development                             | 9:3:540-563     | 2024 |
| Rathod Mohini  | Herbal Approaches for Treating Gout: A Review   | International Journal of Pharmaceutical Research and Applications                   | 9:2:960-974     | 2024 |
| M. Meera Devi  | Formulation and Evaluation of Papaya Lip balm   | International Journal of Creative Research Thoughts                                 | 12:4            | 2024 |
| M. Meera Devi  | Formulation and Evaluation of Giloy Lip balm  | International Journal of Innovative Research in Technology                          | 10:11:1389-1397 | 2024 |
| Rathod Mohini  | Exploring the Health Benefits of Euphorbia milii De Moul: A Comprehensive Literature Review | International Journal of Advanced research in Science, Communication and Technology | 4:8:96 -104     | 2024 |
| Harshala Patil | Formulation and Evaluation of Zaltoporofen Nanovesicle Loaded Transdermal Patch,            | International Journal of Pharmaceutical Research and Applications                   | 9:3:225-234     | 2024 |



## Formulation and Evaluation of Delafloxacin Loaded Niosomal Gel for the Treatment of Acute Bacterial Skin and Skin Structure Infection.

Vivek Patel<sup>1\*</sup>, Dr. Manish Goyani<sup>2</sup>

*Shree Dhantvartary Pharmacy College; Kim, Surat, 394110 Gujarat*

Submitted: 18-04-2024

Accepted: 28-04-2024

**ABSTRACT:** For the last 30 years, acute bacterial skin and skin structure infection (ABSSSI) has caused 2% of all hospitalizations and 14.2 million visits per year in the US and in India is about 29-32%. For the treatment of ABSSSI, many marketed Formulations are available like tablets and injections with many lacunas like first-pass metabolism, less patient compliance, and dosing frequency. So, in this study, a niosomal gel that contained Delafloxacin was produced to aid patients treat ABSSSI. This study focuses on developing a topical gel Formulation that will help the patients with the application of the medication. Non-ionic surfactant vesicles were used for the transport of the drug considering the capabilities of the carrier it can improve the permeability of the drug through the skin and it can carry both hydrophilic and hydrophobic drugs. 12 Batches of niosomes were prepared using various surfactants and cholesterol combinations with different ratios. % Entrapment efficiency, Vesicle size, PDI, and other parameters are checked. All formulations produced satisfactory results for tested parameters. The result indicates that the formulation DL 2 (Span 80) was better than other batches. The optimized formulation % entrapment efficiency was found to be 87.98 ± 1.895, Vesicle size 576nm, and PDI 0.346. The niosomes gel was prepared with the help of Carbopol 934 and Triethanolamine. Carbopol 934 was selected as the suitable gelling agent. Different evaluation parameter of niosomal gel was evaluated in which viscosity was found to be 9476(±0.08) and Spreadability was found to be 8.16 gm/cm<sup>2</sup>/sec. After examining these parameters, it was concluded that niosomal gel can effectively cure ABSSSI.

**Keywords:** Niosomal gel, Delafloxacin, ABSSSI, Topical drug delivery, Non-ionic surfactant.

### I. INTRODUCTION:

### Acute Bacterial Skin and Skin Structure Infection:

For the last 30 years, complicated skin and skin structure infections (cSSSIs) and more recently acute bacterial skin and skin structure infections (ABSSSIs) have placed an increasing burden on healthcare systems globally. Acute bacterial skin and skin structure infections (ABSSSI), formally referred to as complicated skin and soft tissue infections, include infections with resistance to previously effective antimicrobials. [1] Infections due to bacteria with resistance to previously effective antimicrobials such as methicillin-resistant *Staphylococcus aureus* (MRSA) are increasing in incidence and have led to higher rates of complications and hospitalization. [2] Symptoms of ABSSSI may depend on the type of infection but can include swelling, inflammation, tender or sore skin, skin that is warm to the touch, crusting, and blisters. Symptoms of ABSSSI may depend on the type of infection but can include swelling, inflammation, tender or sore skin, skin that is warm to the touch, crusting, and blisters. Diagnosis is based on clinical presentation, the bacterial etiology of cSSSIs and ABSSSIs is confirmed in over 60% of cases, and the evidence suggests the predominance of Gram-positive bacteria. The selection of antibiotics is primarily empirical for ABSSSI patients which subsequently can be adjusted based on culture results, which is rarely available in outpatient management. [3]

### II. MECHANISM OF ACTION:

Beta-lactam antibiotics inhibit bacterial peptidoglycan synthesis by binding the penicillin-binding proteins (PBPs) in the bacterial cell wall. Inhibition of PBPs leads to irregularities in cell wall structures, such as elongation, lesions, loss of selective permeability, and eventual cell death and lysis.



## "Herbal Approaches for Treating Chronic Inflammatory Diseases: A Comprehensive Review"

Authors

Apexa U Gohil<sup>1</sup>, Rathod Mohini<sup>2</sup>, Dr.Pallavi K.J<sup>3</sup>  
[Department of Pharmacology Shree Dhanvantri Pharmacy College]

### Objectives:

1. Identify the Etiology of Chronic Inflammation: Understanding the diverse array of factors contributing to chronic inflammation, including persistent infections, autoimmune disorders, environmental toxins, and lifestyle factors.
2. Summarise the Pathophysiology of Chronic Inflammation: Exploring the intricate cellular and molecular mechanisms involved in sustained inflammation, such as the activation of immune cells, release of pro-inflammatory mediators, tissue remodelling, and the development of fibrosis.
3. Outline Treatment and Management Options: Reviewing conventional treatment modalities such as non-steroidal anti-inflammatory drugs (NSAIDs), corticosteroids, immunosuppressants, and biologic therapies, alongside lifestyle modifications including diet, exercise, and stress management.
4. Lacunas of Current Treatment: Identifying the limitations and gaps in current treatment approaches for chronic inflammation, including potential side effects of medications, incomplete symptom relief, and challenges in addressing the underlying causes of inflammation.
5. Herbal Approach for Treating Chronic Inflammation: Exploring the potential benefits of herbal remedies and botanical supplements known for their anti-inflammatory properties.

### Introduction

Inflammation constitutes a crucial component of the body's defence mechanisms, serving to recognise and eliminate harmful or foreign agents while initiating the healing process. This physiological response can manifest as either acute or chronic, each characterised by distinct features and durations.

Acute inflammation typically arises in response to tissue damage caused by various triggers such as trauma, microbial invasion, or exposure to noxious substances. Its onset is rapid, with symptoms escalating quickly and potentially subsiding within a few days. Conditions like cellulitis or acute pneumonia exemplify acute inflammation. Subacute inflammation denotes the transitional phase between acute and chronic inflammation, spanning approximately 2 to 6 weeks.





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## Herbal Plants for the Treatment of Gout-A Review

Vivek Patel<sup>1\*</sup>, Ms. Mohini Rathod<sup>2</sup>, Shraddhdha Patel<sup>3</sup>, Shivani Patel<sup>3</sup>, Yasir Patel<sup>3</sup>, Apexa Gohil<sup>3</sup>

*Shree Dhanvantary Pharmacy College, Kim, Surat, 394110 Gujarat*

Submitted: 25-03-2024

Accepted: 05-04-2024

**ABSTRACT:** Gout is a common type of inflammatory arthritis caused by MSU formed in particular tissues, joints, and bones as a result of hyperuricemia. Gout is treated with different mechanisms including Xanthine oxidase inhibitors, breakdown of uric acid, excretion of uric acid, and reducing inflammation. While medications offer therapeutic benefits, they can also have harmful side effects. The use of herbal medicine becoming popular due to the toxicity and side effects of allopathic medicines. Since ancient times, herbal and natural remedies have been used around the world to treat gouty arthritis with various mechanisms. This study presents some plants that are used for gout management with Xanthine oxidase inhibition. Xanthine and hypoxanthine levels in individuals with gout are higher than in healthy individuals. xanthine and hypoxanthine can be used as alternative indicators of uric acid for the diagnosis of gout in clinical practice. In this paper, we annotated the list of herbal plants and their chemical constituents used in the treatment of gout. The main substances that inhibit xanthine oxidase are flavonoids, Tannins, Chalcones, Xanthone and coumarin, Isoflavones, Saponins, Terpenoids, Stibrenes, Alkaloids, Phenylethanoid glycosides.

**KEYWORD:** Gout, Herbal plants, Xanthine oxidase inhibitor, chemical constituent

### 1. INTRODUCTION

Herbal medicine, also known as botanical medicine or phytomedicine, involves using a plant's seeds, berries, roots, leaves, bark, or flowers for medical purposes. Herbalism has a longer history of use than Western medicine. Herbal medicine is gaining popularity due to advancements in clinical research, analysis, and quality control, demonstrating its effectiveness in illness prevention and treatment. With the advent of chemical analysis in the early 19th century, scientists began extracting and modifying plant active components. Later, chemists develop account for nearly one-fourth of all pharmaceutical medications [1,2].

According to the World Health Organization, herbal medicines are used by 80% of the global

population for primary healthcare. In Germany, 70% of physicians prescribe plant-based medicines, which range from 600 to 700. Over the last 20 years, the US has seen an increase in herbal medicine use due to public unhappiness with prescription pharmaceutical costs and a desire for natural or organic cures [3,4].

Herbal medicine has been used for centuries to treat illnesses and maintain health. It has been used by all nations and civilizations. Herbal medications are widely regarded as "the people's medicines" due to their accessibility, safety, and ease of preparation. Herbal medicine is becoming more popular in many countries due to advancements in analysis, quality control, and clinical research, highlighting its efficacy and safety for disease prevention and treatment. In some Asian and African nations, 80% of people rely on traditional herbal treatments for primary healthcare. In affluent countries, 70-80% of the population uses complementary or alternative treatments (CAM), mostly herbal. Herbal medications are generally recognized for their safety and effectiveness in medicinal applications. Herbal medications are widely utilized in underdeveloped nations, and nearly all current prescription drugs contain active ingredients sourced from plants, either through extracts or synthetic compounds.

Many of the medications available to physicians today have a lengthy history of use as herbal treatments. According to the World Health Organization (WHO), about 25% of current medications used in the United States are derived from plants. More than 120 active chemicals extracted from higher plants are now widely employed in modern allopathic medicine, with 80% demonstrating a favorable correlation between their current therapeutic use and their traditional usage of the plants from which they are derived.


The current pharmacopoeia of pharmaceuticals contains at least 7,000 therapeutic chemicals originating from plants, which are the constituents of herbal medicine. Because of the present trend of increased usage of herbal medicines and their growing popularity around the world, the quest for plant-derived pharmaceuticals and dietary supplements

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 **INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)**  
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**FORMULATION AND EVALUATION OF PAPAYA LIP BALM**

**AUTHORS**

**Darshan Maraviya, Hariom Sen, Meet Patel, Dhiraaj Chaudhari, Shree Dhanvantary Pharmacy College.**

**M. Meera Devi, Assistant Professor, Shree Dhanvantary Pharmacy College.**

**ABSTRACT**

Cosmetics are the substances used to alter the appearance of the human body. Current cosmetic lip products are based on use of toxic chemical ingredients with various adverse effects. Now a days the demands for herbal cosmetics in the world market are increasing<sup>[1]</sup> leading to usage of natural ingredients for the production of lip balm<sup>[2]</sup>. In the present work, Lip Balm using *Carica papaya* as the main ingredient is prepared. The pH of the Lip balm was found to be 7.5 and the melting point was 60°C - 61°C. After performing stability studies at room temperature (27.0°C ± 3.0°C), refrigerated condition (5.0°C ± 2.0°C) and oven temperature (42.0°C ± 2.0°C), it proved that prepared Lip balm was uniform in nature, without any deformation at room temperature and refrigeration. The prepared lip balm was evaluated for the parameters such as colour, appearance, odour, pH, patch test, spreadability, aging, stability and melting point.

**Keywords:** Papaya extract, Coconut oil, Almond oil, Beeswax, Vitamin E, Rose oil

**1. INTRODUCTION**

Cosmetics play a significant role in today's life style. Currently, the trend is going green in almost all industries including cosmetics to adopt more natural way of life<sup>[3]</sup>. The most preferable source of ingredients are natural food, herbal medicines and natural curing practices for healthy life and also there is much demand for the organic vegetable products. Lip care products are one of the products widely used. Lip inflammation occurs when the corners of mouth becomes broken, chapped, and painful, hence it is essential to moisturize the lips to avoid the pain and inflammation<sup>[4]</sup>. Chapped, dry and cracked lips are very common beauty problem, particularly in harsh weathers. Mostly, people face dry and cracked lips in winter but this problem also

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## FORMULATION AND EVALUATION OF GILOY LIP BALM

### Authors

1. Gohil Yashrajsinh Pushparajsinh, Shree Dhanvantary Pharmacy College
2. M. Meera Devi, Assistant Professor, Shree Dhanvantary Pharmacy College

### ABSTRACT

Cosmetics are high demand products worldwide. Majority of people use cosmetics on daily basis. Consumers are focusing on all natural products and turning towards natural cosmetics as they are environment friendly and safe. Lip balm is a cosmetic product used for lip care. It helps to prevent chapped lips, lip tanning, lip acne, dry lip etc<sup>[1]</sup>. In the present work, herbal lip balm is formulated using *Tinospora cordifolia* as the main ingredient. The pH of the lip balm was found to be 5.0 and the melting point was 56°C - 57°C. After performing stability studies at room temperature (25.0°C ± 3.0°C), refrigerated condition (4.0°C ± 2.0°C) and oven temperature (40.0°C ± 2.0°C), it proved that prepared lip balm was uniform in nature, without any deformation at room temperature and refrigeration. The prepared lip balm was evaluated for the parameters such as colour, appearance, odour, pH, patch test, spreadability, aging, stability & melting point.

**Key Words:** Giloy, Beeswax, Petroleum jelly, Coconut oil, Saffron, Honey

### 1. Introduction

Cosmetics help in presenting and increasing the beauty and personality aspects of human beings<sup>[1]</sup>. Herbal cosmetic is growing rapidly as most women prefer natural products rather than chemicals products for their personal care. Herbal cosmetic contains natural nutrients to improve and provide consumers satisfaction due to relatively fewer side effects compared to synthetic cosmetics<sup>[2]</sup>. Lip care products are an integral part of a day-to-day lifestyle. These impart the colour and protect the lips from the external environment. The major function of lip balm is to protect and moisturize the lips. A variety of lip care products are available in the market. The main concern with this product is that these contain synthetic colourant and flavouring agents that may have adverse effects such as darkening of lips<sup>[3]</sup>. Synthetic colouring agents used in cosmetics have been found carcinogenic<sup>[4]</sup>. Hence, in the present work a lip balm comprising of herbal ingredients has been formulated and evaluated.





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## Exploring the Health Benefits of *Euphorbia milii* Des Moul: A Comprehensive Literature Review

Ms. Apexa U Gohil<sup>1\*</sup>, Ms. Gamit Niyanta<sup>2</sup>, Ms. Mohini Rathod<sup>3</sup>, Dr. Pallavi K. JDepartment of Pharmacology, M.H.N.M<sup>1</sup>

Shree Dharmvanti Pharmacy College, Kira, Surat, India

apexagohil16@gmail.com

**Abstract:** The increasing interest in herbal medicine stems from its perceived efficacy as an alternative treatment for various illnesses, particularly chronic conditions often managed with pharmaceuticals. Traditional medical practitioners advocate for herbal remedies, citing better compatibility between phytoconstituents in herbs and the human body. Researchers are actively investigating the therapeutic potential of phytochemicals found in herbs, both as standalone treatments and as starting points for developing new drugs. With technological advancements facilitating research, there is a renewed global interest in herbal medicine for discovering novel drugs. *Euphorbia milii* Des Moul, commonly known as the Crown-of-thorns plant, is recognized for its diverse medicinal properties. This evergreen shrub, native to Madagascar, possesses a rich array of chemical compounds with various therapeutic effects. Recent studies have highlighted its antioxidant, antitumor, antimicrobial, antibacterial, diuretic, cytotoxic, antifungal, and mild diuretic properties, attributed to the presence of natural products such as saponins, terpenes, flavonoids, naphthoquinones, sugars, tannins, alkaloids,  $\beta$ -amyrin acetate,  $\beta$ -sitosterol, cycloartenol, lipids, proteins, glycosides, and phenolics. *Euphorbia milii* Des Moul shows promise in treating pharmaceutical disorders. One intriguing hypothesis suggests that *Euphorbia milii* may exhibit therapeutic efficacy in managing inflammatory diseases, both in acute and chronic phases, owing to its antioxidant properties. However, further investigation is warranted to elucidate the underlying mechanisms and explore its potential application in treating such inflammatory conditions.

**Keywords:** *Euphorbia milii* Des Moul, Plant profile, Traditional and pharmacological approach, Hypothesis of inflammatory disease

### 1. INTRODUCTION

#### Current Fascination with Herbal Medicine:

Many individuals see herbal medicine as a viable alternative for treating various illnesses, especially chronic conditions often managed with pharmaceuticals, which can raise safety concerns over long-term use. Traditional medical practitioners often advocate for herbal remedies, citing better compatibility between phytoconstituents in herbs and the human body. Researchers are actively exploring the therapeutic potential of phytochemicals found in herbs, both as standalone treatments and as starting points for developing new drugs. With advancements in technology like high-throughput screening, extensive libraries of pure phytochemicals, sophisticated laboratory models mimicking human diseases, toxicity profiling kits, and bioinformatics databases for safety predictions, there's been a resurgence in global research interest in herbal medicine for discovering novel drugs.<sup>[1]</sup>

#### Rising Trend in Herbal Medicine Usage: Growing Popularity and Adoption:

The popularity of herbal medicine continues to surge in many developing nations, and its adoption is rapidly spreading in industrialized countries as well. It has been reported that a significant portion of medical doctors in France and Germany—estimated at 70%—regularly prescribe herbal remedies. Furthermore, there is a substantial increase in the number of patients seeking herbal therapies, with estimates indicating exponential growth globally. In China, traditional herbal medicine comprises 30% to 50% of total drug consumption, while in several African countries such as Ghana, Mali, Nigeria, and Zambia, herbal medicines constitute 60% of the primary treatment at home. In Europe, North America, and other developed regions, over 50% of the population has utilized herbal medicinal approaches at least

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## Formulation And Evaluation Of Zaltoprofen Nanovesicle Loaded Transdermal Patch

Ankit Kurwar <sup>1\*</sup>, Mrs. Harshala patil<sup>2</sup>

*Shree Dhanvantary pharmacy college kim, Surat,394110 Gujarat*

Date of Submission: 01-05-2024

Date of Acceptance: 10-05-2024

**ABSTRACT:** Rheumatoid arthritis (RA) poses a significant global health burden, affecting millions worldwide. In India alone, an estimated 36 million individuals suffer from this debilitating condition. In this study, nine batches of nanovesicles (Z1-Z9) were formulated with varying compositions of cholesterol and surfactants, aiming to develop an effective transdermal delivery system for RA treatment. Evaluation parameters including polydispersity index (PDI), vesicle size, and entrapment efficiency were meticulously examined. Results indicated that formulations Z6 and Z8 exhibited superior performance compared to other batches. The optimized formulations (Z6 and Z8) demonstrated high entrapment efficiencies of 84.4±1.53% and 87.6±1.46%, with particle sizes of 356±54.71 nm and 253±37.01 nm, respectively, and acceptable PDI values. Utilizing PEG 400 and HPMC k-100M, nanosomal transdermal patches were successfully developed from Z6&Z8 batch. Characterization of (Z6 and Z8) patches revealed uniform thickness (0.332±0.001 mm and 0.328±0.001 mm), consistent weight (351.47±0.717 mg and 345.46±0.901 mg), and minimal moisture uptake (5.26±0.16 and 4.16±0.12). The Z8 batch patch emerged as an ideal candidate based on comprehensive evaluation parameters, affirming their suitability for RA treatment. Furthermore, the selected optimized transdermal patches exhibited drug release kinetics following zero order, Higuchi's kinetic, and Korsmeyer-Peppas models.

**Keywords:** Nanosomal Transdermal patch, Zaltoprofen, RA, Non-toxic surfactant.

### 1. INTRODUCTION:

**Arthritis** is a broad term that refers to inflammation of the joints. It is one of the most common long-term illnesses and a major contributor to disability. The word "arthritis" is used broadly to describe joint inflammation. The main causes of disability and significant health care costs are rheumatic diseases like arthritis. However, it may surprise you to learn that it encompasses more than 100 different conditions that affect the joints themselves and the bones and tissues around them<sup>[1]</sup>.

Rheumatoid arthritis(RA), is an autoimmune and inflammatory disease, which means that your immune system attacks healthy cells in your body by mistake, causing inflammation (painful swelling) in the affected parts of the body<sup>[2]</sup>RA mainly attacks the joints, usually many joints at once. Its impacts 25 million people around the globe, affecting nearly three times as many women as men. Although the symptoms of the various varieties of arthritis are generally similar, such as stiffness, edema, and joint discomfort restricted range of motion, the illnesses are not the same and are treated differently.

According to the 2011 census, the population of India stands at 1,210,569,573. The reported prevalence of RA in India has varied from 0.3% to 0.75%. Assuming an average prevalence of 0.5% with the adult population of 60%, the projected burden of RA in India is 36 million patients<sup>[3]</sup>.



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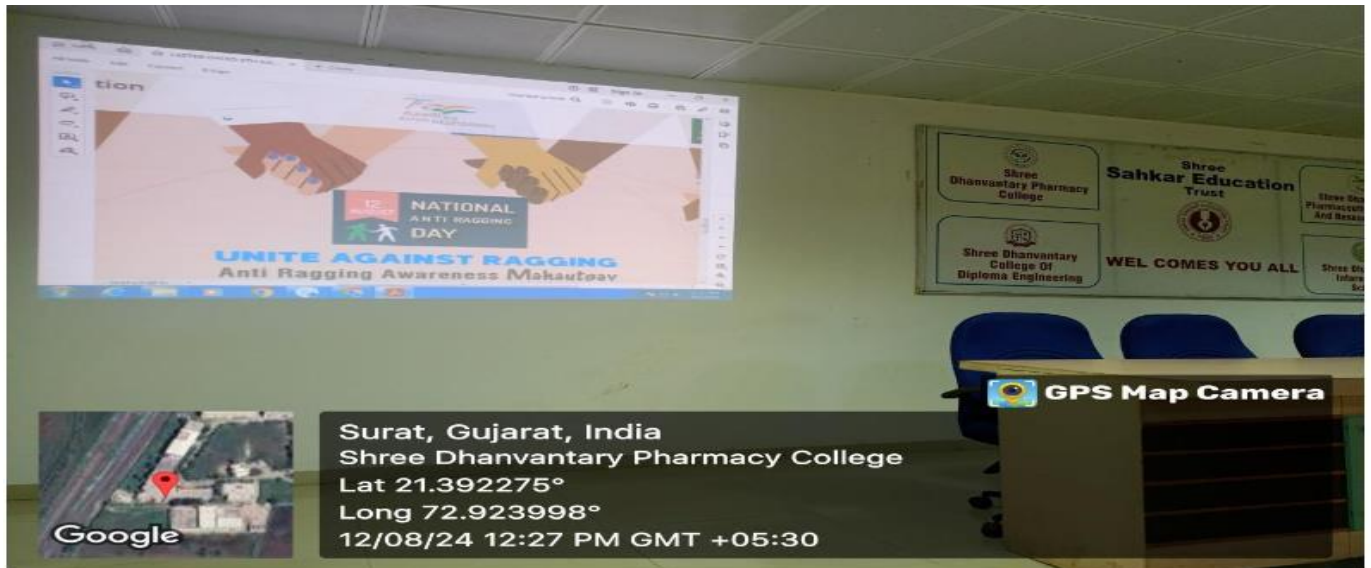
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## ANTI-RAGGING DAY - AWARENESS





**Event Name:** Anti-Ragging Day - Awareness programme

**Date:** 12th August, 2024,

**Location:** SDPC Campus

**Brief Description of the Event:** Anti-Ragging day awareness programme was conducted on 12th August, 2024 by the students of Shree Dhanvantary Pharmacy College. The students conviction to spread Awareness amongst the youngsters about the ill effects of ragging and the negative aspects of the same. Students performed role play on Anti ragging awareness with a theme of “Stop Ragging, we all are Family” for junior students. Overall, the programmes organized were a success promoting cordial and Friendly interactions between students of all the years. Anti-Ragging committee educate the students on Anti-ragging policy and gave information about insights on what is called as ragging, why is it banned, Effects of ragging and repercussions of ragging and also stressed on whom to contact if someone is Ragging, also elaborated on various Acts and criminal/penal code of ragging and various sections.



## “JANMASHTAMI







**Event:** Janmashtami Celebration Date: 23/08/2024

**Day:** Friday Time: 09:00am

**Participated Students:** B.pharm, Pharm D.

**Venue:** SDPC Campus, Kim

**Brief Description of the Event:** Sweeter than honey, tastier than curd, pleasanter indeed than any happiness, and joy is the company, is the power of the name of Krishna. Janmashtami is celebrated as the birthday of Lord Krishna, one of the most powerful and famous reincarnations of Lord Vishnu. According to the Hindu calendar, this festival is celebrated on the Ashtami of Krishna Paksh, or the 8th day of the dark fortnight in the month of Bhadon. This day indicated the beginning of hope in the old times; hope that the malicious rule of Kansa would soon end. To seek the blessings of Lord Krishna, Janmashtami was celebrated at our college in the School of Engineering on 23th August, 2024 with mirth and joy. The fragrance of flowers, the soothing aroma of camphor, and the jingle of bells filled the air. The college was well decorated for the celebration and aarti and bhajans were recited and songs related to janmashtami were played. A pooja was done by our principal, Dr.M. N. Noolvi, all the faculty members, college staff and students. The popular ritual of Dahi-Handi is also celebrated on that day. After aarti, students gathered on campus, did garba and dance. Also, form a human pyramid to break the earthen pot fixed at a height of 10-15 feet from the ground.

## "TEACHER'S DAY"







**Event Name:** TEACHER'S DAY CELEBRATION REPORT

**Date:** 05/09/2024

**Time:** 8:30 to 3.00 pm

**Participants:** All students

**Location:** Sdpc, Campus

**Brief Description of the Event:**

On 5th September, 2024, Shree dhanvantary pharmacy College organised Teachers' Day celebrations. The function took place in the auditorium of the college. The students of various departments, along with the help of the Student's Union, organised a function for the teachers. A warm welcome with flowers, gifts, and cards was a pleasant surprise for all the teachers. The program started with the Heads of the Department lighting Lamp. The program started with the reciting the Ganesh Vandana. The Principal of the college Dr. M.N. NOOLVI presided over the function, Principal sir congratulated the teachers and acknowledged the sincere efforts they put in every day. He gave a valuable speech on Dr. Radha krishnan and explained the importance of Teachers' Day.



## “GANESH CHATURTHI

*Maha aagman*  
॥ गणेश चतुर्थी ॥



गणेशाय नमः

Wishing you a joyful Ganesh Chaturthi!  
May Lord Ganesha bring you peace and happiness.

We warmly invite you to join us for the  
auspicious celebration of Ganesh Puja!

**On 6th September**

📍 Venue: Shree Dhavantry Pharmacy College ,  
Kim - Surat

**किष्णा डेरी**  
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**होश**  
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देवीची शोहळी, वेवंग

**THE BIG BULL**  
Learn Invest Earn  
the-big-bull47







**Event Name:** Ganesh Chaturthi Celebration

**Date:** 06/09/2024 - 13/09/2024

**Time:** SDPC Campus, Kim

**Participants:** B.pharm, M.Pharm, Pharm D.

**Location:** SDPC Campus, Kim

**Brief Description of the Event:** Ganesh Chaturthi is the birthday of [Lord Ganesha](#), which falls in the month of Bhadrapad – the months of August to September. Vinayaka Chavithi, also referred to as Ganesh Chaturthi is dedicated to the Lord of New beginnings, Lord Ganesha, every year. Like every year, this year also, our college celebrated this festival with utmost fervour. All the students of B.pharm, M.Pharm, Pharm D., Teaching and non-teaching staff were cordially invited to be a part of this program. On 6<sup>th</sup> September 2024, on the occasion of ‘Ganesh Chaturthi’, the students, teaching and non-teaching staff of our college welcomed Lord Ganesha by installing an idol of Lord Ganesha in our college campus. The arrival of Lord Ganesha was welcomed by the tunes of “Dhol” and “Tasha”. The festival was celebrated for seven days. The arrangement of Puja and with decoration of stage was well managed by the Students. The whole stage was beautifully aligned with bright lamps and lights along with magnificent flowers. The 7 days were filled with the grand aartis and delicious prasad and loads of blessings from “Ganpati bappa”. On the end of the 7<sup>th</sup> day, ganesh visarjan ritual begins with five items, namely deep (oil lamps), pushp (flowers), dhoop (incense), gandh (fragrance) and naivedya (food) 56 bhog to lord Ganpati. Then students bring the idol and immerse that in the water and chant "Ganpati Bappa Morya Mangal Murti Morya".



## “PHARMACIST DAY

**IQAC of**  
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**Happy World**  
**PHARMACISTS**  
**Day**



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**Dhanvantary Campus, Near Kim Railway station,**  
**Kim-394110**



**Event Name:** Pharmacist Day

**Date:** 25<sup>th</sup> September 2024

**Time:** 9 am onwards

**Participants:** B.Pharm and Pharm D.

**Location:** SDPC Campus, Kim.

**Brief Description of the Event:** World Pharmacist Day was celebrated at the Shree Dhanvantary Pharmacy College on 25th Sep. 2024 to advocate and appreciate the role of pharmacists in improving health conditions around the world. To celebrate the day's various events like poster presentation, rangoli competition, awareness programme, logo & slogan and debate. Students showed great enthusiasm to be a part of the health check-up team and successfully accomplished their goals. The poster and rangoli competition, which started at 8:30 a.m., was very popular. The winners were screened based on a strong verbal debate and their innovative ideas. All the B.pharm and Pharm D. students were involved in this event. After that, a logo and slogan contest and debate were organised.



## “NAVRATRI CELEBRATION”



A vibrant poster for Navratri celebration. At the top, a decorative border of colorful tassels (yellow, orange, blue) hangs across the width. Below this, a central illustration features a stylized face of Lord Krishna with large, expressive eyes and a tilak on the forehead. The text "Shubh Navratri" is written in a purple, serif font, and "RANGRATRI'24" is in a large, bold, red, italicized font. On either side of the central text are circular logos with the text "RANGTALI'24 NAVRATRI" and a colorful, ornate design. Below the main text, a dark red banner contains the date and time: "30th september | 5:30 pm onwards". Below this banner, a white box contains the location "DHANVANTARI CAMPUS-KIM" and the dress code "Dress Code: Indian Traditional wear". The bottom of the poster features a colorful illustration of a man and a woman in traditional Indian attire (a blue and purple sari for the woman, a green kurta for the man) dancing and playing large orange drums. The background is a warm, golden-yellow gradient, and the bottom is decorated with large, colorful flowers in shades of pink, yellow, and white.

**Shubh Navratri**  
***RANGRATRI'24***

On the auspicious occasion of Navratri, we cordially invite you to join the festive fever of dandiya!

**30th september | 5:30 pm onwards**

**DHANVANTARI CAMPUS-KIM** | **Dress Code: Indian Traditional wear**





**Event Name:** Navratri Celebration

**Date:** 30/09/2024

**Time:** 5:00pm – 9:00pm

**Participants:** B.pharm, M.pharm, Pharm D.

**Location:** SDPC Campus, Kim

**Brief Description of the Event:**

Navratri is a Hindu festival celebrated in the autumn every year. It is observed for various reasons and celebrated differently in various parts of the Indian subcontinent. In Gujarat, Navratri is a community event, where people perform Garbas on devotional songs that are popular by the names of 'Dandiya Raas' and 'Garba Raas', and perform Jaagran (waking through the night), to please the Goddess. Students have organized Navratri Celebration on 30<sup>th</sup> September, 2024 between 5 to 09.00 pm which was co-ordinated by cultural co-ordinator. The celebration started by offering prayers to Goddess Navdurga and then by performing the traditional dance form Garba. All the Students, Faculty and Staff Members were invited to attend the event. The event was well attended by all the enthusiastic students, faculty and staff members in traditional grooming. All of them celebrated the day with joy and cheer. It was a colorful event with teachers joining the students enthusiastically in their dance.

## STUDENTS ACHIEVEMENT



SDPC

## CONGRATULATIONS

M pharmacy SEM 4 Toppers by Branchwise

## PHARMACEUTICS



MODI KHUSHI

CPI: 8.80 SPI :9.20



PATEL VIVEKKUMAR

CPI: 8.69 SPI :8.40

## PHARMACEUTICAL CHEMISTRY



KURIL AARTI GANGARAM

CPI: 8.62 SPI :8.40



GORASIYA PURVISHABEN

CPI: 8.41 SPI :9.20

## PHARMACEUTICAL QUALITY ASSURANCE



DUBEY ANURAG

CPI: 8.92 SPI :10.00



BHADANE KUNAL UDHAV

CPI: 7.62 SPI :9.20

## PHARMACEUTICAL REGULATORY AFFAIRS



PATIL RUSHIKESH

CPI: 8.67 SPI :8.40



MISTRY DIPESH NITINBHAI

CPI: 8.25 SPI :8.35

## PHARMACOLOGY



APEXA KUMARI

CPI: 8.73 SPI :10.00



AISHIQ HUSSAIN GANIE

CPI: 8.49 SPI :8.40

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CPI: 9.26



**Mansiben Mahida**  
CPI: 9.17



**Patel Atiya Salim**  
CPI: 9.17



**Gupta Mamta Prabhu**  
CPI: 9.13



**Brahmbhatt Hiral**  
CPI: 9.09



**Patel Richi Rakesh kumar**  
CPI: 8.99



**Sojitra Shruti Hareshbhai**  
CPI: 8.97



**Patel Nirali Jarminkumar**  
CPI: 8.97



**Delair M Mumthaz M A Rasheed**  
CPI: 8.95



**YADAV SHIVANGI HARIOM**  
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## PAPER PUBLICATION BY FACULTY

| Sr No. | Authors name & title of publication  | Journal  | Month/ Year | Volume (Issue) | Page no.  | DOI  | Impact Factor |
|--------|--|--|-------------|----------------|-----------|--|---------------|
| 1      | Mohini Rathod*<br>Formulation and evaluation of Herbal Emugel for Antiacne activity  | World Journal of Pharmaceutical Research                   | 07/2024     | 13(14)         | 793-808.  | DOI: <a href="https://doi.org/10.20959/wjpr.202414-33117">10.20959/wjpr.202414-33117</a> | 8.453         |
| 2      | Dr. Divya G. Sonani <sup>2</sup><br>A Prospective Observation study on Diabetes Complication and Prescribing Pattern of Anti Diabetic agents                                 | World Journal of Pharmaceutical Research                   | 09/2024     | 13(18)         | 665-677.  | <a href="https://doi.org/10.20959/wjpr.202418-33857">0.20959/wjpr.202418-33857</a>       | 8.453         |
| 3      | Meera Devi<br>A review of analytical methods for estimation of Vinca alkaloids from Catharanthus roseus  | World Journal of Pharmaceutical Research                   | 09/2024     | 13(19)         | 624-637   |  | 8.453         |
| 4.     | Neha Prajapati<br>Development and evaluation of mucoadhesive graft copolymer of a natural polysaccharide using microwave assisted grafting technique and alkaline hydrolysis | International Journal of Innovative Research in Technology | 09/2024     | 11(4)          | 2349-6002 | -  | 8.017         |



|    |  |   |             |       |               |                              |      |
|----|--|---|-------------|-------|---------------|------------------------------|------|
| 5. | Dr. Shwetha Swaminath<br>Drug Utilization<br>Evaluation of<br>Antibiotics in Patients<br>with Respiratory Tract<br>Infection in a Tertiary<br>Care Hospital: A<br>Prospective<br>Observational Study | International<br>Journal of<br>Pharmaceutic<br>al Research<br>and<br>Applications | 08/20<br>24 | 9:4,  | 1755-<br>1773 | -                            | -    |
| 6. | Dr. Uttam More<br>Design, Synthesis, And<br>Molecular Docking Study of<br>New Arylthioether-Amide<br>Linked Sulfonyl Piperazine<br>Hybrids as Antibacterial<br>Agents.                               | Rasayan J. Chem   | 09/2024     | 17(3) | 972-<br>98    | 0.31788/RJC.2<br>024.1738841 | 0.22 |



## FORMULATION AND EVALUATION OF POLYHERBAL LIPSTICK

Mohini Rathod\*, Jay Bariya, Hawa Bibi Mulla, Khushi Chauhan, Shaba Shaikh and  
Vivek Patel

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### ABSTRACT

In modern times, men and women both rely heavily on cosmetics to change how they seem. By using makeup, they could become more self-assured and attractive.<sup>[1]</sup> The study aimed to create herbal lipstick with natural components to cure, smooth, and provide cosmetic and medical benefits for chapped, dark, and other lip conditions caused by environmental elements like heat, humidity, and radiation. To create and assess herbal lipstick with significant smoothing action without impairing the natural structure of lips, the current study was devised. Natural elements will improve the appearance and lessen any negative effects on the lips. We attempted to create an herbal lipstick recipe utilizing natural herbs like dragon fruit, castor oil, and olive oil because our lips' surface needs constant smoothing and mending to remove dead cells, dryness, and chapped lips to keep them healthy. The flavonoids, vitamin E, and ricinoleic acid—all well-reported chemical constituents are present in formulation. Which will provided

smoothing and exfoliation, respectively.<sup>[2]</sup> A variety of organoleptic measures, including color, odor, pH, and thickness, melting point, breaking point, spreadability, stability, anti-microbial tests were used to assess prepared lipstick. The outcome demonstrates both a cosmetic and medical benefits on lips that are black, dry and affected by atmosphere. Three batches (F1, F2, F3) were formulated and evaluated using different combination of ingredients. The results indicate that formulation F1 has better satisfactory results than F2 and F3 making it an ideal candidate for an optimized batch. The selected final formulation F1 was also compared with the marketed product and observed a comparatively better effect along with an additional antimicrobial effect.



## A PROSPECTIVE OBSERVATION STUDY ON DIABETES COMPLICATION AND PRESCRIBING PATTERN OF ANTI-DIABETIC AGENTS

Vrunda Dimpalbhai Chhatrala<sup>1\*</sup>, Megha Kamleshsinh Desai<sup>1</sup>, Krupalsinh D Mahida<sup>1</sup>,  
Dr. Divya G. Sonani<sup>2</sup> and Dr. Surbhi Chitania<sup>3</sup>

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### ABSTRACT

**Background:** Diabetes is one of the largest global health emergencies of this century, ranking among the top ten leading causes of mortality alongside diseases such as cardiovascular disease, respiratory disease, and cancer. India is one of the epicenters of the diabetes mellitus pandemic. Rapid socioeconomic development, demographic changes, and an increased genetic susceptibility among Indian individuals have led to an explosive rise in the prevalence of diabetes mellitus in India over the past several years. The risk of diabetes is influenced by ethnicity, age, obesity, physical inactivity, unhealthy diet, behavioral habits, genetics, and family history. The prevention and management of diabetes and its associated complications present a significant challenge in India due to several issues and barriers, including the lack of a multisectoral approach, insufficient surveillance data, lack of awareness regarding diabetes, its risk factors and complications, and limited access to healthcare settings and affordable medicine.<sup>[1]</sup>

**Methods:** The prospective observational study was conducted over a period of 6 months at Venus Hospital Surat. Ethical clearance was obtained from the SDPC Institutional Ethics Committee. The data of 120 patients were collected and recorded in case report form based on inclusion and exclusion criteria. **Results:** Out of 120 patients, the majority were males





## A REVIEW OF ANALYTICAL METHODS FOR ESTIMATION OF VINCA ALKALOIDS FROM CATHARANTHUS ROSEUS

<sup>1</sup>\*Zainab Kasam Ansari and <sup>2</sup>Mazahvancheril Meera Devi

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### ABSTRACT

*Catharanthus roseus*, also known as Madagascar Periwinkle is a pretty ornamental plant of *Vinca rosea* (*C. roseus*), is a member of the Apocynaceae family. Cancer, one of the leading illness, and public health burden in developed and developing country. A phytochemical investigation of the plant has demonstrated that a number of alkaloidal substances can be obtained with antitumor activity. Among the numerous natural products, acting via different mechanisms of action, microtubule-targeting agents (MTAs) have a high therapeutic potential, since they disrupt the abnormal cancer cell growth, interfering with the continuous mitotic division. Vinca alkaloids are the earliest developed MTAs. There major vinca alkaloids in clinical use are vincristine (VCR), vinblastine (VBL), vinorelbine (VRL), and vindesine (VDS)

and vinflunine. The present review is about the various analytical techniques employed for the estimation of Vinca alkaloids.

**KEYWORDS:** Analytical techniques, validation, High performance liquid chromatography, Ultra-high performance liquid chromatography, High performance thin layer chromatography.

### INTRODUCTION

*Catharanthus roseus*, also known as Madagascar Periwinkle is a pretty ornamental plant of *Vinca rosea* (*C. roseus*), is a member of the Apocynaceae family. Cancer, one of the leading illness, and public health burden in developed and developing country. Vinca alkaloids, derived from *Catharanthus* species, are a group of indole alkaloids with significant medicinal properties. These alkaloids, including vinblastine, vincristine, and catharanthine, possess anti-

# Development and Evaluation of Mucoadhesive Graft Copolymer of a Natural Polysaccharide Using Microwave Assisted Grafting Technique and Alkaline Hydrolysis

Neha Prajapati

Assistant Professor, Shree Dhanvantary Pharmacy College, Kim, Gujarat, India

**ABSTRACT:** Grafting of polymers adds numerous beneficial features to a simple polymer. In this study, natural polysaccharide starch has been grafted with acrylamide monomer by microwave assisted grafting method using ammonium persulfate (APS) as a chemical initiator. Five batches of polyacrylamide grafted copolymers (PAM-g-Starch) i.e. G<sub>0</sub>, G<sub>1</sub>, G<sub>2</sub>, G<sub>3</sub> and G<sub>4</sub> were prepared by modulating only the microwave radiation time (40s, 60s, 80s, 100s and 120s respectively), keeping all other factors constant. Further to increase the functionality and mucoadhesive property of each graft copolymer, alkaline hydrolysis was carried at 50°C for 1h. Effects of duration of radiation application on the properties of modified polymers were estimated by various evaluation parameters. Grafted polymers were characterized by % grafting, % grafting efficiency, Fourier transform infrared spectroscopy, differential scanning calorimetry, intrinsic viscosity study, elemental analysis, neutralization equivalent and mucoadhesive test. Results show that among all grafted products, batch G<sub>1</sub> showed the highest % grafting, % grafting efficiency and NE values (349.5%, 81.95% and 485.6 respectively).

**Key words:** Grafting, High performance biopolymer, Mucoadhesive graft copolymer.

This study includes modification of natural polysaccharide starch to make it sustain release polymer with the grafting technique with further inclusion of mucoadhesive property through alkaline hydrolysis. Starch was selected as it is easily available, cost effective, containing –OH group required for grafting and can be easily grafted without extra need of mechanical force. Techniques of grafting include conventional method using chemical initiator and microwave method using dry or wet medium. As conventional methods have number of demerits like time consumption, need of inert atmosphere, less reproducibility, uneven heat distribution, toxic vapor generation etc. make it less efficient method as compared to microwave method which is more productive and reproducible. Furthermore, in microwave method, microwave assisted method was chosen as compared to microwave initiated method as in assisted method, use of chemical initiator which produces ions enhancing the ability of the aqueous reaction mixture to convert the microwave energy to heat energy making it more reproducible and productive.<sup>1,2</sup>

## I. Introduction

Number of conventional formulations with

## II. MATERIALS AND METHODS





## Drug Utilization Evaluation of Antibiotics in Patients with Respiratory Tract Infection in a Tertiary Care Hospital: A Prospective Observational Study

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<sup>3</sup>Dr. Surbhi Chitania

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Corresponding Author: Dr. Shwetha Swaminath M

Date of Submission: 25-08-2024

Date of Acceptance: 05-09-2024

### ABSTRACT:

**Background:** Inappropriate antibiotic use in respiratory tract infections (RTIs) is a growing concern, contributing to antibiotic resistance and increased healthcare costs. Drug Utilization Evaluations (DUEs) offer valuable insights into prescribing patterns and guide optimization strategies.

**Objectives:** This prospective observational study aims to evaluate antibiotic use in adult patients ( $\geq 18$  years) diagnosed with RTIs at a tertiary care hospital.

**Method:** We will recruit 120 patients over six months. Data will be collected on demographics, diagnoses, prescribed antibiotics, adherence to national guidelines, and clinical outcomes. The Anatomical Therapeutic Chemical Classification System/Defined Daily Dose (ATC/DDD) methodology will assess antibiotic consumption. Additionally, we will evaluate the therapy's rationality using the World Health Organization (WHO) core prescribing guidelines.

**Results:** This study looked at antibiotic utilization patterns at a tertiary care hospital for patients with respiratory tract infections (RTIs). Analysis of patient demographics revealed a trend towards older patients, with COPD emerging as the most prevalent diagnosis (41%), followed by pneumonia (29%). The high prevalence of COPD aligns with its characteristic symptoms of shortness of breath and

specific use is recommended. While 73% of prescriptions adhered to ATC/DDD guidelines. The high cost of Zavicefta necessitates exploring alternative options. These findings suggest potential areas for improvement in antibiotic use optimization within the hospital setting.

**Significance:** This study will help establish evidence-based strategies to support effective antibiotic usage in RTIs within a hospital context by identifying areas that require improvement. This will ultimately benefit patient care by reducing the risk of antibiotic resistance and associated healthcare costs.

**KEYWORDS:** Antibiotic utilization, Respiratory tract infections (RTIs), Antibiotic resistance, Drug utilization evaluation (DUE), ATC/DDD methodology, Pharmacoeconomics, Tertiary care hospital, National guidelines, Optimal antibiotic use.

### I. INTRODUCTION

Throughout the world, respiratory tract infections (RTIs) are the primary cause of morbidity and account for a large amount of the usage of healthcare resources. To encourage the best possible use of antibiotics and reduce antibiotic resistance, it is essential to understand hospital prescription practices. URTIs include infections that spread from the nasal cavity to the trachea. LRTI encompasses infection of the bronchus, bronchiole, and lung parenchyma<sup>(1)</sup>





## DESIGN, SYNTHESIS, AND MOLECULAR DOCKING STUDY OF NEW ARYLTHIOETHER-AMIDE LINKED SULFONYL PIPERAZINE HYBRIDS AS ANTIBACTERIAL AGENTS

B. N. Aishwarya<sup>1</sup>, M. Subhosh Chandra<sup>2</sup>, D. Meti Manjunath<sup>3</sup>, Shivananju Nanjunda Swamy<sup>4</sup>, Vamsi Katta<sup>5</sup>, Uttam A. More<sup>6</sup>, B. Ramakrishna<sup>7</sup>, P. Suresh Yadav<sup>2</sup> and Priya Babu Shubha<sup>1,✉</sup>

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### ABSTRACT

Antibiotic resistance is a significant global health concern, and innovative antimicrobial agents are needed to combat this. A study aimed to synthesize and assess the antibacterial activity of sulfonyl piperazine hybrids linked by arylthioether-amide. Nine derivatives were evaluated against Gram-positive and Gram-negative bacteria. Compounds 9b, 9e, and 9i showed significant antibacterial effectiveness, surpassing conventional medications. Molecular docking studies revealed strong binding affinities of these compounds to the DNA gyrase A binding pocket, highlighting their potential as antibacterial agents. The findings suggest that further research is warranted to explore the therapeutic potential, safety profile, and mechanistic insights of these compounds, particularly 9b and 9i, which show promise for future development as novel antibacterial agents.

**Keywords:** Antibiotic Resistance, Anti-bacterial, Molecular Docking, Aryl thioether-amide, piperazineamide, DNA Gyrase.

RASAYAN J. Chem., Vol. 17, No.3, 2024

### INTRODUCTION

Antibiotic resistance is a global concern, causing 17 million fatalities annually due to bacterial infections. The growth of drug-resistant bacteria makes traditional antibiotic treatments ineffective, and the CDC has designated several bacteria as urgent and alarming concerns. As resistance to commercially available antibiotics increases, there is a need to investigate novel routes for creating antibacterial medicines with improved efficacy. This preventative approach is critical for successfully combating drug-resistant diseases. The development of novel and effective antimicrobial medications has grown in response to multidrug resistance, as microbial infections are often treated with protracted therapy using powerful medicines.

## WORKSHOP /SEMINAR /WEBINAR /FDP ATTENDED BY FACULTY

| Name of Faculty            | Title  | Name of Event |
|----------------------------|--|---------------|
| Dr. M. N. Noolvi           | Pathways to Progress: Implementing NEP 2020 in Pharmacy Education                              | Workshop      |
| Dr. Uttam More             | Pathways to Progress: Implementing NEP 2020 in Pharmacy Education                              | Workshop      |
| Dr. Uttam More             | Harnessing Artificial intelligence (AI) To Revolutionize Pharmaceutical Education and Research | FDP           |
| Harshala Patil             | Harnessing Artificial intelligence (AI) To Revolutionize Pharmaceutical Education and Research | FDP           |
| Gandhi Sonam Mukeshchandra | Harnessing Artificial intelligence (AI) To Revolutionize Pharmaceutical Education and Research | FDP           |
| Shabeena Khan              | Harnessing Artificial intelligence (AI) To Revolutionize Pharmaceutical Education and Research | FDP           |
| Achla Vyas                 | Research Methodology   | FDP           |
| Dr. Uttam More             | Research Methodology   | FDP           |
| Mahefuzabibi Araf          | Research Methodology   | FDP           |
| Dr. Anand Shankar Deshmukh | Change the Lens, Change the Life   | FDP           |
| M. Meera Devi              | Trends and Recent Advancements in Analytical Techniques  | FDP           |





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*Ms. Mazhavancheril Meera Devi**Shree Dhanvantary Pharmacy College, Kim, Gujarat*

has attended the One Week Online Faculty Development Program on “Trends and Recent Advancements in Analytical Techniques” organized by DKSS-Institute of Pharmaceutical Science and Research for Girls, Swami-Chincholi, Bhigwan in association with Association of Pharmaceutical Teachers of India (APTI), Maharashtra State Branch during 16<sup>th</sup> to 23<sup>rd</sup> August, 2024.

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11(4)(OCT-DEC)

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Academia Sinica, National Taiwan University, Taipei, Taiwan.

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## BLOOD DONATION CAMP







**Event Name:** Blood Donation Camp

**Date:** 8th October, 2024. SDPC Campus

**Location:** SDPC Campus

**Brief Description of the Event:** On 8th October, 2024, Shree Dhanvantary Pharmacy College\_organized a Blood Donation Camp. The camp was organized by SDPC. The camp started\_around 10:00 am. The students and faculties donated their Blood. College has arranged\_refreshment for those who donated Blood in the camp. To watch over the entire process and\_to collect a Blood, team of 5 medical staff and 2 non medical staff were put in charge. After the completion of the Blood donation, the principal thanked and appreciated everyone present in the camp.



## VIKAS SAPTAH





**Event Name:** Vikas Saptah

**Date:** 14th October, 2024 at.,

**Time:** 10:00 AM

**Location:** SDPC Campus

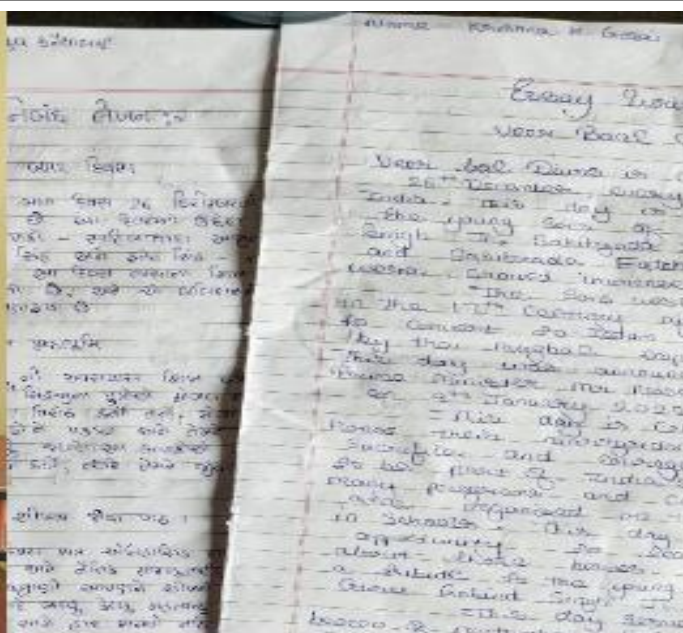
**Brief Description of the Event:** The NSS unit of Shree Dhanvantary Pharmacy College organized “bharat vikas pledge” & essay writing on the topic of “development of india: challenges and oppettunities.” Regarding “Vikas Saptah” emphasizing their commitment to the nation's development This initiative aims to inspire youth to actively participate in the growth and progress of India. ThEepledge for Bharat Vikas represents a significant step toward fostering a sense of responsibility and activism among students. By committing to these ideals, the youth of today are poised to play a crucial\_role in shaping a prosperous future for India. The event concluded with a call to action, encouraging all\_students to embody the principles of the pledge in their daily lives.



## VEER BAL DIVAS







**Event Name:** Veer Bal Divas

**Date:** 26th December, 2024

**Time:** 12:30 PM,

**Location:** Sdpc-Classrooms

**Brief Description of the Event:** Students of Pharm D. from Shree Dhanvantary Pharmacy College have actively participated in the Event of Vir Bal Divas by writing essays and giving basic information regarding the Importance of Vir Bal Diva to their juniors.

## PAPER PUBLICATION BY FACULTY

| Sr No. | Authors name & title of publication  | Journal  | Month/ Year | Volume (Issue)   | Page no. | DOI                     | Impact Factor |
|--------|--|--|-------------|------------------|----------|-------------------------|---------------|
| 1      | Neha jain<br>Development and evaluation of Hydrolyzed Graft Copolymer Based Hydrogel of Ornidazole For Treatment of Peridontal Disease | International Journal of Pharmaceutical Sciences | 06 Oct 2024 | Vol 2, Issue 10, | 297-306  | 10.5281/zenodo.13895785 | 4.7           |

Neha Prajapati , Int. J. of Pharm. Sci., 2024, Vol 2, Issue 10, 297-306 |Research



**INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES**  
[ISSN: 0975-4725; CODEN(USA):IJPS00]  
Journal Homepage: <https://www.ijpsjournal.com>

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### Research Article

## Development And Evaluation Of Hydrolyzed Graft Copolymer Based Hydrogel Of Ornidazole For Treatment Of Periodontal Disease

Neha Prajapati\*

Shree Dhanvantary Pharmacy College, Kim, Surat, Gujarat

### ARTICLE INFO

Received: 21 Sep 2024  
Accepted: 25 Sep 2024  
Published: 06 Oct 2024

#### Keywords:

Periodontitis, Grafting, High performance biopolymer, Mucoadhesive gel, Sustainability.

#### DOI:

10.5281/zenodo.13895785

### ABSTRACT

Periodontitis is an inflammatory and plaque induced condition leading to the progressive and episodic loss of tooth attachment apparatus, for which intrapocket devices have gained the most preference. In this study, natural polysaccharide starch has been grafted with acrylamide monomer by microwave assisted grafting method using ammonium persulfate as a chemical initiator. Four sets of Ornidazole mucoadhesive gels (6% w/v) viz. F1, F2, F3 and F4 were prepared from hydrolyzed copolymers (GH1-GH4) respectively. The procedure and results for preparation of hydrolyzed graft copolymers and their evaluations are explained in reference 1. The gels were evaluated for pH, viscosity, thermal analysis, syringeability, spreadability, mucoadhesive strength, in vitro drug release and kinetic model application. All the formulations were found to be diffusion controlled and among all formulations, set F1 was proved to be most promising in terms of mucoadhesive strength ( $6.5 \pm 0.0553$ ) and in-vitro diffusion (95.29% in 8 h) of drug.

### INTRODUCTION

The term periodontitis is derived from three words: 'Peri' (around), 'odont' (tooth) and 'itis' (inflammation). In Periodontal disease, an inflammatory process involving progressive and episodic loss of periodontal attachment apparatus occurs, resulting ultimately in Page 11 of 10

microorganisms<sup>2</sup>. Periodontal diseases are generally divided in to two groups: Gingivitis – amilder form and Periodontitis – a serious oral health con Zoom in riodontitis can cause deep pockets infection, which may result in the loss of teeth and their surrounding bone if it is left untreated. Various responsible microorganisms

**WORKSHOP /SEMINAR /WEBINAR /FDP ATTENDED  
BY FACULTY**

| Name of Faculty | Title   | Name of Event           |
|-----------------|---|-------------------------|
| Dr. Uttam More  | Cutting-edge Developments and Future Directions in Pharmaceutical and Health Sciences | FDP                     |
| Dr. Uttam More  | Emerging Trends in Drug Development and Delivery                                      | InternationalConference |
| Shabeena Khan   | Role of Traditional Medicine and Phytopharmaceuticals                                 | Conference              |
| Shabeena Khan   | Role of Traditional Medicine and Phytopharmaceuticals                                 | Conference              |





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**SCHOOL OF PHARMACY**

## Certificate

**Dr. Uttam A. More**, Professor from Shree Dhanvantary Pharmacy College, Kim has attended the five days International Faculty Development Programme on **Cutting-edge Developments and Future Directions in Pharmaceutical & Health Sciences**, from December 17, 2024 to December 21, 2024, at School of Pharmacy, Sharda University, Greater Noida.

Prof. (Dr.) Nayyar Parvez  
Organizing Secretary

Prof. (Dr.) Ashok Kr. Gupta  
Organizing Secretary

Prof. (Dr.) Rakesh K. Sindhu  
Organizing Secretary

Prof. (Dr.) Amrish Chandra  
Dean, School of Pharmacy  
Convener



SHREE SAHKAR EDUCATION TRUST

**SHREE DHANVANTARY PHARMACY COLLEGE**

NBA-UG & NAAC ACCREDITED, DSIR-SIRO RECOGNIZED INSTITUTE, APPROVED BY PCI AFFILIATED TO GTU AHMEDABAD  
AN AUTONOMOUS COLLEGE U/S UGC ACT 1956

**TWO DAYS INTERNATIONAL CONFERENCE IN ASSOCIATION  
WITH AUBURN UNIVERSITY, USA AND GTU, AHMEDABAD**

## CERTIFICATE

OF APPRECIATION

THIS CERTIFICATE IS PROUDLY AWARDED TO

**PROF. UTTAM MORE**

has actively served as a **Coordinator** in two days 7<sup>th</sup> International Conference in association with **Auburn University, USA & GTU, Ahmedabad** on "**EMERGING TRENDS IN DRUG DEVELOPMENT AND DELIVERY**" held on 2<sup>nd</sup> and 3<sup>rd</sup> December 2024 organized by Shree Dhanvantary Pharmacy College, Kim-Surat.

DR. M. N. NOOLVI  
CONVENOR  
(INDIA)



DR. JAYACHANDRA RAMAPURAM  
CONVENOR  
(USA)



## CHASCON-2024 NATIONAL CONFERENCE

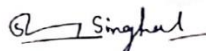
ON

**"Indigenous Technologies for Viksit Bharat"**

November 6-8, 2024

### Certificate of Presentation

Certified that Prof./Dr./Mr./Ms. Shabeena of Shree Dhanvantary Pharmacy College, Surat participated and gave an oral / poster presentation entitled "Efficacy of methanol extract of the herbal gum: A life-giving remedy for streptozocin-induced diabetic neuropathy in Swiss albino mice" in the Pharmaceutical Sciences Section of 17<sup>th</sup> Chandigarh Science Congress (CHASCON-2024), organized by Panjab University, Chandigarh in association with CRIKC from November 6-8, 2024.

  
Prof. Sonal Singhal

Co-coordinator

  
Prof. Sakshi Kaushal

Co-coordinator

  
Prof. Y. K. Rawal

Coordinator



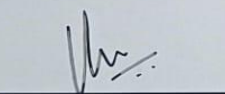
27<sup>th</sup> Convention of Indian Society  
of Pharmacognosy



Theme : Role of Traditional Medicine and Phytopharmaceuticals  
in Health Care for Viksit Bharat

### Certificate of Appreciation

This is to certify that Mr/Ms/Dr. Shabeena Khan Subbir (1<sup>st</sup>) participated in Poster/Oral presentation in 27<sup>th</sup> Convention of Indian Society of Pharmacognosy and International Conference Organised by Department of Pharmacognosy & Phytochemistry (SPER), Jamia Hamdard on 4<sup>th</sup> and 5<sup>th</sup> October 2024.

  
Prof (Dr) Vidhu Aeri

Convener & Chairperson

  
Prof B.P. Panda

HoD Pharmacognosy & Phytochemistry