



**Shree Dhanvantary pharmacy college, Kim**  
**E-Bulletin Vol-7(1) Jan – March 2020**



**SDPC E-BULLETIN VOL.:7 (1), Jan-Mar 2020**  
**E-Mail: [sdpcebulletin@gmail.com](mailto:sdpcebulletin@gmail.com)**

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	Sem VIII	Mr. Ravindra ghaskatta
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PHARM. D:	III YEAR	Ms. Sana Memon

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Director of Alan G. MacDiarmid Energy Research Institute at Chonnam National University.

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PhD (Rensselaer Polytechnic Institute, Troy, New York, USA)  
Adjunct Professor in Radiology, department of UT Southwestern Medical Center, Dallas.

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PhD (Seoul National University, Gwanak, South Korea)  
Professor, Department of Chemistry,  
University of Ulsan, Ulsan, South Korea.

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PhD (Kanagawa Industrial Technology Research Institute, Kanaga Wa-Kin, Japan)  
Cell for Industrial Safety and Risk Analysis,  
Chemical Engineering Department, CLRI (CSIR), Chennai, India

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**Prof. Hyung IL Lee**  
PhD (Carnegie Mellon University, Pittsburgh, USA)  
Professor, Department of Chemistry, University of Ulsan, Ulsan, South Korea.

Member



**Prof. Kuei-Hsien Chen**  
PhD (Harvard University, USA)  
Research Fellow & Deputy Director, Institute of Atomic & Molecular Sciences,  
Academia Sinica, National Taiwan University, Taipei, Taiwan.

Member



## **IMPORTANCE OF EXTRACURRICULAR ACTIVITIES IN STUDENTS PERFORMANCES**

At the beginning of the twenty-first century, many colleges and universities have a broad educational mission: **to develop the "whole student."** On college campuses, extracurricular involvement is a key tool in this personal development. For the majority of college and university students, involvement in extracurricular activities plays an integral role in the collegiate experience. **Students become involved in extracurricular activities not only for entertainment, social, and enjoyment purposes, but most important, to gain and improve skills.** A wide and diversified range of extracurricular activities exists on U.S. campuses, meeting a variety of student interests.

According to a 1993 article by Alexander Astin, almost any type of student involvement in college positively affects student learning and development. Extracurricular activities provide a setting to become involved and to interact with other students, thus leading to increased learning and enhanced development. Specifically, a student's peer group is the most important source of influence on a student's academic and personal development.

Taking part in these out-of-the-classroom activities helps students to understand the importance of critical thinking skills, time management, and academic and intellectual competence. **Involvement in activities helps students mature socially by providing a setting for student interaction, relationship formation, and discussion.** Working outside of the classroom with diverse groups of individuals allows for students to gain more self-confidence, autonomy, and appreciation for others' differences and similarities.

Through extracurricular participation, students frequently interact with peers who have similar interests, providing social integration into the college environment. As a result, involved students view their college years as a positive experience and feel they are a vital part of the university, resulting in higher retention rates.



# **SPORTS WEEK 2020**

## **(10 FEB TO 15 FEB 2020)**







## Shree Dhanvantary pharmacy college, Kim E- Bulletin Vol -6(3) July – September 2019





## LIST OF WINNERS:-

NAME OF GAME	1 <sup>st</sup>	2 <sup>nd</sup>
<b><i>CRICKET</i></b> <b><i>(Boys)</i></b>	8 <sup>th</sup> sem (B Pharm)	6 <sup>th</sup> sem (BPharm)
<b><i>CRICKET</i></b> <b><i>(Girls)</i></b>	8 <sup>th</sup> sem (B Pharm)	PHARM D 4 <sup>th</sup> year





## Shree Dhanvantary pharmacy college, Kim

### E- Bulletin Vol - 7(1) Jan – March 2020



NAME OF GAME	1 <sup>st</sup>	2 <sup>nd</sup>
<b><i>FOOTBALL</i></b>	1 <sup>st</sup> sem (B Pharm)	8 <sup>th</sup> sem (B Pharm)



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NAME OF GAME	1 <sup>st</sup>	2 <sup>nd</sup>
<b><i>Badminton</i></b> <b><i>(boys)</i></b>	<b>Trupal rathod</b>	<b>Vatsal thakkar</b>
<b><i>Badminton</i></b> <b><i>(girls)</i></b>	<b>Richa patel</b>	<b>Khushboo patel</b>





NAME OF GAME	1 <sup>st</sup>	2 <sup>nd</sup>
<i><b>Kho kho</b></i>	<b>Pharm d 4<sup>th</sup> year</b>	<b>1<sup>st</sup> sem b. pharm</b>

NAME OF GAME	Winning team
<i><b>Kabbaddi</b></i>	<b>3<sup>rd</sup> year B.pharm</b>



## Shree Dhanvantary pharmacy college, Kim

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NAME OF GAME	1 <sup>st</sup>	2 <sup>nd</sup>
<i>Race (boys)</i>	Sagar trivedi Jay patel	Ruturaj chudasma
<i>Race(girls)</i>	Vishruti patel Manali patel	Charmi patel



NAME OF GAME	1 <sup>st</sup>	2 <sup>nd</sup>
<b><i>Carrom (boys)</i></b>	<b>Mihir panchal Jayan patel</b>	<b>Ankit patel Dipen joshi</b>
<b><i>Carrom (girls)</i></b>	<b>Fatima tadvla Yesha joshi</b>	<b>Manali patel Upasna kosada</b>







**Shree Dhanvantary pharmacy college, Kim**  
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NAME OF GAME	1 <sup>st</sup>
<i>Chess (boys)</i>	Sanjay
<i>Chess (girls)</i>	Prachi







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# PHARMA SPECTRA 2020





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## STUDENTS ACHIEVEMENTS

Students of SDPC was participated in PHARMA SPECTRA EVENTS held at SDPC, KIM SURAT and secure rank in various events.

SHREE DHANVANTARY PHARMACY COLLEGE, KIM-SURAT

Sr.no	Event Name	Rank	
		1st	2nd
1	PHARMA RAP	Rajput Pradhyuman	Kairvi raval
2	CASE PRESENTATION	Devang gharvan (KBIPER)	Rajput Pradhyuman
3	PUBG	MIHIR PANCHAL JAYAN KUMAR PATEL HIMANSHU MAYANK PATEL	-
4	WORD PRESS	DHVANI PATEL HIREN DIVANI	SALOMI MLOKHANDE SANA MEMON
5	PHARMA XEMPTORE	JESTY PATEL(PIPR) RIYA PARIKH	SHIVANK AGGARWAL
6	KBPP(QUIZ)	YESHA JOSHI SANA MEMON RUCHI YADAV DHWANI PATEL	INSIYA SHIVANK AGGARWAL MILI SHALOK
7.	PHARMA MODEL	MADHAV PALAN(MARWARI COLLEGE) ARPIT	KAIRVI

8.	CAPTURE IT	MIHIR SHARMA(DSLR) PAKSHAL SHAH(MOBILE)	MAYANK PATEL(DSLR)
9	PHARMA MARKETING	KHUSHI JOSHI AMEENA SUFI ANMOL RINKAL NEHA RASHMI	AAYUSHI HONEY PATEL DEEPAK DIYA
10	PHARMA DRAMA	PRIYANSHU HET PANCHOLI KARAN PATEL SAKSHI DEEPAK DEEP AMISHA DEVANSHI BHAVESH DOORVANSHI KAVIN VISHAL RUDRA DHRUVITA UTPAL AKSHITA	VATSAL FAHAAM JANKI JIGNESH SHAMUN SHARADHA
11.	ONE MINUTE GAME	FAHAAM SHEIKH	PRIYANSHU GUPTA

















SDPC

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APRIL-JUNE 2020



SDPC E-BULLETIN VOL.7(2), APRIL-JUNE 2020

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MS. HIRVITA BHATT	MS. HETAL BHENJALIYA
MS. ROZINA PATEL	MS. MOHINI RATHOD
MS. GOSIYA KURESI	

## STUDENT COORDINATORS

MS. PINKISHA PATEL	M. PHARMSEM –IV
MR. JAYAN PATEL	B. PHARMSEM –VIII
MR. MEET AKBARI	B. PHARMSEM –VI
MS. BHAVYA MODI	B. PHARMSEM –IV
MS. FARIDABANU	B. PHARMSEM –II



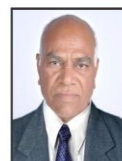
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PhD (The University of Texas, Austin, USA)  
Polymer Science and Engineering Discipline  
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PhD (Gulbarga University, Gulbarga, India)  
Physical Scientist, National Risk Management Laboratory US  
Environmental Protection Agency (US EPA).



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PhD (Mumbai University, Mumbai, India)  
Scientific Officer-F (Group Leader, Radiochemical Group)  
Bhabha Atomic Research Centre, Mumbai, India.



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PhD (North Carolina State University, Raleigh, North Carolina, USA)  
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PhD (Rensselaer Polytechnic Institute, Troy, New York, USA)  
Adjunct Professor in Radiology, department of UT Southwestern Medical Center, Dallas.



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PhD (Carnegie Mellon University, Pittsburgh, USA)  
Professor, Department of Chemistry, University of Ulsan, Ulsan, South Korea.



Member

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PhD (Harvard University, USA)  
Research Fellow & Deputy Director, Institute of Atomic & Molecular Sciences,  
Academia Sinica, National Taiwan University, Taipei, Taiwan.



# *YOGA DAY CELEBRATION*

21<sup>st</sup> June 2020

INTERNATIONAL YOGA DAY

Organized by NSS Committee



Shree Dhanvantary Pharmacy  
College, Kim-Surat



**Event:** Yoga day celebration

**Date:** 21/06/2020

**Day:** Sunday

**Time:** 9:00 AM to 10:00 AM

**Participated students:** B.Pharm Students & Pharm. D students

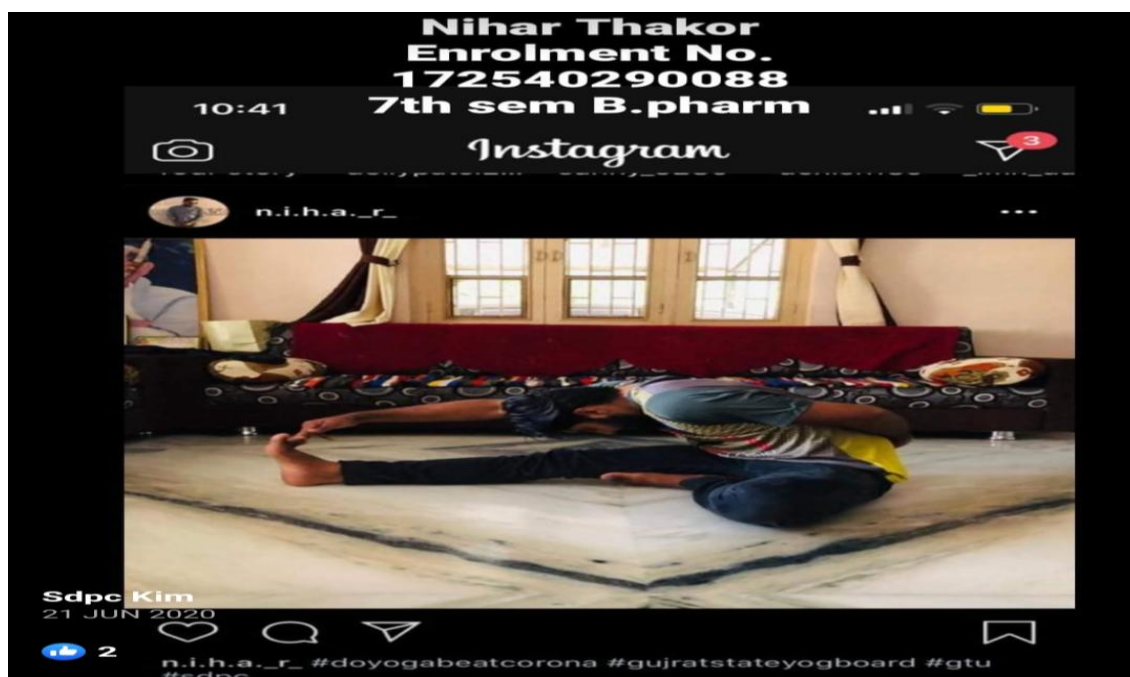
**Venue:** Online platform

**Brief \Description of the Event:**

In view of the covid-19 outbreak it has been decided to celebrate yoga from home by our honourable Prime Minister. So, as part of that all students & faculties wrote the reason why they like yoga on a paper card & took photo of them with their favourite pose & share on social media with the hash tags like #Beat Corona, # Corona with Family.









**B.pharm  
Janvi shah  
5th sem Sec B  
182540290083**


I LIKE TO DO YOGA  
BECAUSE .....

Yoga is a dance between  
control and surrender

Inhale the future,  
Exhale the past

Yoga adds years to your life  
And life to your years

Yoga is like life.  
It is a balance of holding on to it  
And letting it go....

YOGA 

#GUJARATSTATEYOGABOARD#GTU#S



**Feni shah**  
**Enrolment no.**  
**182540290082**  
**5th sem B.Pharm**

I LIKE TO DO YOGA,

Because----

Stress Relief,

flexibility,

Health,

Physical fitness,

Self compassion,

self reflection,

Continued Growth,

Self awareness.

↓

Very good for health.

Kim

N 2020

#GujaratStateYogaBoard#GTU#SDPC😊





## CONFERENCE /FDP ATTENDED BY FACULTY

Dr. PALLAVI K J

Dr. DYPCP Organize Webinar On, DCS Centre of Skill & Entrepreneurship Development for Clinical Research & Pharmacovigilance. 9 <sup>th</sup> May, 2020.	Webinar
ABIPER Organize One Week FDP On, Emerging Trends In Pharmaceutical Practices. 14 <sup>th</sup> To 18 <sup>th</sup> June, 2020.	FDP attended

Dr. ANAND DESHMUKH

WHO Online Course, Infection Prevention & Control for Novel Coronavirus. 26 <sup>th</sup> April, 2020	Online Course
WHO Online Course, Emerging Respiratory Viruses, Including COVID-19: Methods for Detection, Prevention, Response & Control. 26 <sup>th</sup> April, 2020	Online Course
SDPC Organize, Webinar on, COVID-19 Awareness Campaign, Under EBSB Activity. 28 <sup>th</sup> April. 2020	Webinar
VmeduLife Organize Webinar on, Outcome Based Education Software. 14 <sup>th</sup> May, 2020	Webinar
GTT Organize, Webinar on, Pharma Education in India- Where is the Gap? 21 <sup>st</sup> May, 2020	Webinar
DR.VPEC, Organize Online Survey on, Lockdown: A Golden Opportunity to Boost e-Learning & Intensifying Online Education in India. 22 <sup>nd</sup> May, 2020.	Online Survey
Gokhale Education Society's Organize, 6 Days e-FDP on, Teachers & Ethics: Balance in Research, Teaching, Socio-Professional Values & Attitude, 20 <sup>th</sup> To 25 <sup>th</sup> May, 2020.	FDP Attended
PVPPCE Organize, National Level Quiz on NBA. 31 <sup>st</sup> May, 2020.	National Level Quiz

Dr. Manish Goyani

SIH & FW Organize Webinar on, Field Surveillance & Supervision. 6 <sup>th</sup> May 2020.	Webinar
GTU Sponsored, 13 <sup>th</sup> Foundation Day, Intellectual Property For New Delhi. 16 <sup>th</sup> May 2020.	Foundation Day
Organize e-FDP on Learning, Pedagogy & Effective Use of Case Methodology. 17 <sup>th</sup> May To 21 <sup>st</sup> May, 2020.	FDP Attended
Charotar University Organize, 3 Days Webinar Series on, Integrity & Ethical Considerations in the Conduct of Research. 21 <sup>st</sup> To 23 <sup>rd</sup> May, 2020.	Webinar
Uka Tarsadia University, organize Webinar on, COVID 19 Outbreak & Possible Formulation Options for Approved or New Drugs. 23 <sup>rd</sup> May, 2020.	Webinar



Dr. UTTAM MORE

<b>Sponsored By Jamia Pharmacy College, National Level Conference on, Current Market Opportunities for Pharmacy Students &amp; Faculties From Home By Staying Safe. 12<sup>th</sup> April 2020.</b>	National Conference
<b>Online International Conference on, COVID-19 Pandemic Awareness &amp; Boosting Immunity By Nutraceuticals. 23<sup>rd</sup> April, 2020.</b>	International Conference
<b>People's University Organize, One Day Virtual National Seminar on, Comprehensive Quality Initiatives &amp; Challenges for Higher Education in Digital Era. 30<sup>th</sup> May, 2020.</b>	National Seminar
<b>UTU Organize One Week National Level FDP on, Comprehensive Quality Initiatives for Higher Education in Pandemic Era. 26<sup>th</sup> – 30<sup>th</sup> May 2020.</b>	FDP Attended
<b>IQAC, Webinar on Make India, Held on 14<sup>th</sup> May 2020.</b>	Webinar
<b>Anuradha Group of Pharmacy Institutions, Organize, One Day Webinar on, Opportunities &amp; Challenges in Rebuilding the Education Sector in post Covid-19 Era- Education 4.0- Need of Hours.</b>	Webinar
<b>SGMCP Organize, 4 Days e-FDP on Pharma Industry Insights: Recent Trends, Innovations &amp; Digitalization. 27<sup>th</sup> to 30<sup>th</sup> June, 2020.</b>	FDP Attended

Mr. Rohan Barse

<b>GTU &amp; APC Organize One Week e-FDP On, Redefining the role of Educator in COVID-19 Outbreak Era. 11<sup>th</sup> – 16<sup>th</sup> May, 2020.</b>	FDP Attended
<b>APTI Organize, Flip Classroom-Millennial Choice, A Course of Study. May, 2020.</b>	Course of Study
<b>PVPPCE Organize National Level Quiz On NAAC. 27<sup>th</sup> May, 2020.</b>	National Level Quiz

Mrs. Dhara Vashi

<b>SPCP Organize Webinar On, Intellectual Properties Rights for the Development of Academic Pharmaceutical Research. 9<sup>th</sup> May, 2020.</b>	Webinar
<b>BCP Organize One Week International FDP on, Pharmaceutical Education &amp; Research. 13<sup>th</sup> – 18<sup>th</sup> May, 2020.</b>	International FDP Attended
<b>Dr.D.Y.Patil College of Pharmacy Organize Webinar On, Effect of COVID on Indian Pharmaceutical Industry. 14<sup>th</sup> May, 2020.</b>	Webinar
<b>VmeduLife Organize Webinar On, Outcome Based Education Software, 14<sup>th</sup> May, 2020.</b>	Webinar
<b>GTU Organize 13<sup>th</sup> Foundation Da, Webinar On Intellectual Property for New India. 16<sup>th</sup> May, 2020.</b>	Webinar
<b>Dr.D.Y.Patil College of Pharmacy Organize Webinar On, Getting Ready for Post Lockdown Life. 17<sup>th</sup> May, 2020.</b>	Webinar
<b>KMKCP Organize Webinar On, Teaching Practical With Virtual Lab: Lt Platform. 20<sup>th</sup> May, 2020</b>	Webinar



<b>BCOP Organize 3 Days International Webinar On, Quality by Design. 23<sup>rd</sup> To 25<sup>th</sup> May, 2020.</b>	International Webinar
<b>JDCOEM Organize One Week Online FDP on, Moodle Learning Management System. 25<sup>th</sup> To 30<sup>th</sup> May, 2020.</b>	FDP Attended
<b>IPES Organize e-FDP On, Future Challenges, Possibilities &amp; Emerging Trends in Vaccines &amp; Drug Development For Viral Disease. 25<sup>th</sup> – 30<sup>th</sup> May, 2020.</b>	FDP Attended
<b>MSGCOPER Organize 6 Days e-FDP On, Teachers &amp; Ethics: Balance in Research, Teaching, Socio-Professional Values &amp; Attitude. 20<sup>th</sup> To 25<sup>th</sup> May, 2020.</b>	FDP Attended
<b>Mrs. Monika Kakadiya</b>	
<b>GTU Organize 13<sup>th</sup> Foundation Da, Webinar On Intellectual Property for New India. 16<sup>th</sup> May, 2020.</b>	Webinar
<b>Ms. Parin S. Sidat</b>	
<b>RPCP Organize, Webinar Series on. Separation Techniques for Pharmaceuticals. 18<sup>th</sup> To 23<sup>rd</sup> May, 2020.</b>	Webinar Attended
<b>Charutar University Organize Webinar, Participated as a Deliegate in Three Days Webinar Series on, Integrity &amp; Ethical Considerations in the Conduct of Research. 21<sup>st</sup> to 23<sup>rd</sup> May, 2020.</b>	Deliegate in Webinar
<b>Sharadchandra Pawar College of Pharmacy Organize, Two Days e-FDP on, Best Practies in Innovation IPR &amp; Patents in Pharma. 26<sup>th</sup> to 27<sup>th</sup> May, 2020.</b>	Webinar Attended
<b>Ms. Urvashi B.Patel</b>	
<b>Legal Challenges In Starting Up A Buisness, 10<sup>th</sup> May,2020</b>	Conference Attended
<b>What Do We Do On Product Based Cpmpnies, 13<sup>th</sup> May,2020</b>	Conference Attended
<b>Outcome Based Education Software, 14<sup>th</sup> May,2020</b>	Conference Attended
<b>How To Face Audit Effectively And Role Of Regulatory Department, 17<sup>th</sup> May,2020</b>	Conference Attended
<b>Teaching Practical With Virtual Lab: Lt Platform, 20<sup>th</sup> May,2020</b>	Conference Attended
<b>Gastro-Retentive Drug Delivery System: Fundamental, Approaches And Evaluation, 26<sup>th</sup> May,2020</b>	Conference Attended
<b>Mr.Harshil M. Patel</b>	
<b>Legal Challenges In Starting Up A Buisness, 10<sup>th</sup> May,2020</b>	Conference





	Attended
<b>What Do We Do On Product Based Companies, 13<sup>th</sup> May,2020</b>	Conference Attended
<b>Outcome Based Education Software, 14<sup>th</sup> May,2020</b>	Conference Attended
<b>How To Face Audit Effectively And Role Of Regulatory Department, 17<sup>th</sup> May,2020</b>	Conference Attended
<b>Teaching Practical With Virtual Lab: Lt Platform, 20<sup>th</sup> May,2020</b>	ConferenceAttended
<b>Gastro-Retentive Drug Delivery System: Fundamental, Approaches And Evaluation, 26<sup>th</sup> May,2020</b>	ConferenceAttended
<b>Ms. Mohini Rathod</b>	
<b>SNLPCP Organize Virtual Conference on, Nanotechnology in the Pharmaceutical Sphere: Contemporary Approaches &amp; Therapeutic Applications. 30<sup>th</sup> January, 2021.</b>	ConferenceAttended
<b>SNLPCP Organize, Webinar on, Gastro- Retentive Drug Delivery System, Approaches &amp; Evaluation. 26<sup>th</sup> May, 2020.</b>	Webinar



## PAPER PUBLICATION BY FACULTY

### World Journal of Pharmaceutical Sciences

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Original Article



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#### Development and validation of HPLC method for estimation of betulinic acid

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#### ABSTRACT

A simple, specific, and economic HPLC method has been developed to estimate betulinic acid. The  $\lambda_{\text{max}}$  of betulinic acid was found to be 210 nm. Linearity in the concentration range of 25-150  $\mu\text{g/ml}$  was found to be exhibiting a good correlation coefficient ( $R^2 = 0.999$ ). The developed method was validated statistically to demonstrate linearity, accuracy, precision, LOD as well as LOQ. The validation parameters were selected as per the ICH [Q2 (R1)] guideline. The results of the study proved the applicability of the present method in routine analysis of betulinic acid.

**Keywords:** Betulinic acid, HPLC, Triterpene acid, ICH, LOD.



## PROSPECTIVE, OBSERVATIONAL, RANDOMIZATION STUDY OF OPERATIONAL AND PERFORMANCE ANALYSIS OF OUTPATIENT HOSPITAL PHARMACY

Hardi Patel\*<sup>1</sup>, Shrikalp Deshpande<sup>1</sup> and Roshni Patel<sup>1</sup>

K.B Institute of Pharmaceutical Education and Research, Gandhinagar.

Article Received on  
30 April 2020,

Revised on 20 May 2020,  
Accepted on 10 June 2020

DOI: 10.20959/wjpps20207-16588

### \*Corresponding Author

Hardi Patel

K.B Institute of  
Pharmaceutical Education  
and Research, Gandhinagar.

### ABSTRACT

**Aim:** To study Operational and Performance Analysis of Outpatient Hospital Pharmacy. **Objective:** To demonstrate the use of an efficient quality improvement approach to identify pharmacy operational problems. And identify the factors associated with waiting time for services offered at outpatient pharmacy. Measure the overall patient waiting time at outpatient pharmacy. **Background:** Generally, in outpatient hospital pharmacy patient wait for queue for billing of prescription, time to dispensing of medicine and counselling time. Using queuing theory in pharmacy mainly find factor leading to

excessive waiting time, correlation between waiting time and patient satisfaction determine by using queuing approach. This study is important in identifying factors that affect outpatient pharmacy waiting time and ways to improve patient's satisfaction and fundamental understanding. **Materials and Methods:** Prospective observational randomized study was conducted for a period of 6 months in Hospital outpatient pharmacy. Data were collected using the techniques of work flow analysis and stopwatch was used to measure time spent in each component. A validated questionnaire was administered on the outpatients who measured their level of satisfaction with pharmaceutical services. **Results:** Major components include patient queue length for billing of prescription. (2.4min) Mean waiting time for dispensing of medicine when staff 13, and 9 were 5.6 and 7.5min. The average waiting time is 14min patient are satisfied with services. 50% of the patients were not satisfied with waiting time to collect their medicines. **Conclusion:** Need to reduce the time of dispensing procedure and patient call for counseling so that more time could be devoted. When training





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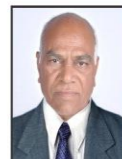
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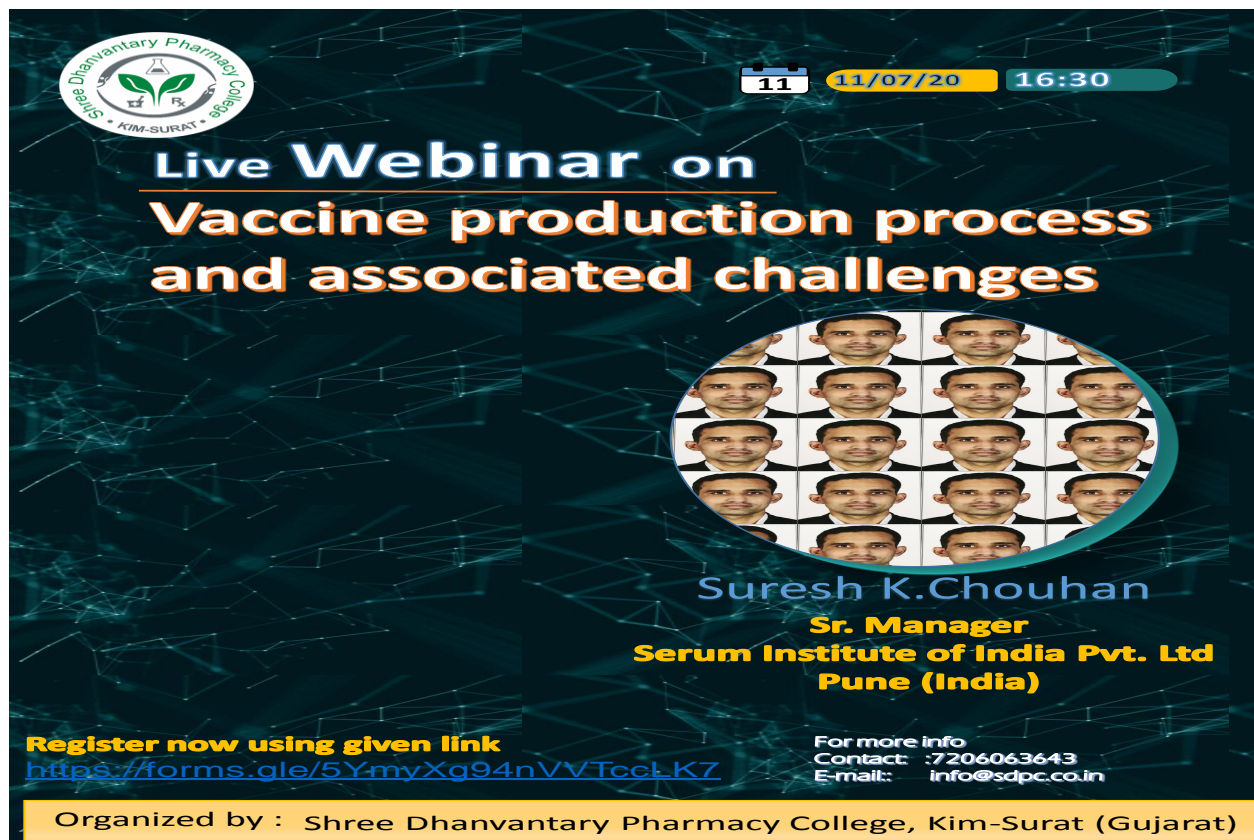
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# Webinar



**Live Webinar on**  
**Vaccine production process**  
**and associated challenges**

**Suresh K. Chouhan**  
**Sr. Manager**  
**Serum Institute of India Pvt. Ltd**  
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**Register now using given link**  
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Organized by : Shree Dhanvantary Pharmacy College, Kim-Surat (Gujarat)

**Event: Webinar On'' Vaccine Production And Associated Challenges''**

**Date: 11/07/2020**

**Day: Saturday**

**Time: 4.30 PM**



**Participated students: B.Pharm V and VII sem**

**Venue: Online platform**





# Parents Teacher Meeting

 **Shree Sahkar Education Trust's**   
**Shree Dhanvantary Pharmacy College**  
B. Pharm Accredited by NBA-AICTE, New Delhi and approved by AICTE, PCI & Affiliated to GTU  
Dhanvantary Campus, Near KIM Railway Station, Kim (East), Dist : Surat- 394 110, Gujarat, INDIA.  
Phone : +91 99041 04830, +91 99242 04829, Email : info@sdpc.co.in, Website : sdpc.co.in

**Invitation Letter for Parent's meet**

Dear, parents/Guardian:  
Subject: Parent's meeting

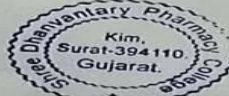
We have Organized Parent's meet on 04/07/2020 at 10:00 A.M. Online on Google application for the 7<sup>th</sup> semester students of B.pharm. The purpose of the meeting is to discuss and guide their career path in field of pharmacy. We cordially invite you to attend the Parent-teacher meeting.

Please check one

1) I will be able to attend the meeting ☐  
2) I will not be able to attend the meeting ☐

Yours Faithfully,

Principal  
Shree Dhanvantary Pharmacy College  
Principal  
Shree Dhanvantary Pharmacy College  
Kim, Dist SURAT



**Semester and department :** B. Pharmacy 7th Semester

**Date :** 4/07/2020

**Time:** 10.00 am

**Place/ platform :** Google Meeting App

# Online Webinar On "Sustainability & Environment" By NSS-GTU



**GUJARAT  
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UNIVERSITY**  
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## वेबीनार - "स्थिरता और पर्यावरण"

**सोमवार, ३१ अगस्त, अपराह्न १२:०० बजे से ०१:३० बजे तक**



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GTU is live now.

18 mins

LIVE

103

103

Shree Dhanvantary Pharmacy College

Enrollment no : 192540290040

B.pharm , 2nd year

Sir! Wilmad

Devarsh Gotawala

Good afternoon sir ! Thanks for hosting this informative webinar

Name : Devarsh Gotawala

B.Pharm 4th year

Enrollment No. : 172540290103

Shree Dhanvantary Pharmacy College

Like

Reply

Aanshi Patel

SS

LP

DS

PR

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12 mins

LIVE 124  
bex

Arti Bharthaniya  
Arti Bharthaniya  
Shree Dhanvantary pharmacy college kim- surat... See more

Amisha Thakare



You, Ayush Panchal and 83 others

85

63

1



Anamika Gupta

Name:Gupta Anamika

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College name:shree Dhanvantary pharmacy college, surat,Kim.

Just now Like Reply



**Name of event :** Online webinar on "Sustainability & Environment" by NSS-GTU

**Name of participants or semester/department :** B.Pharm, M.Pharm and Pharm.D Students

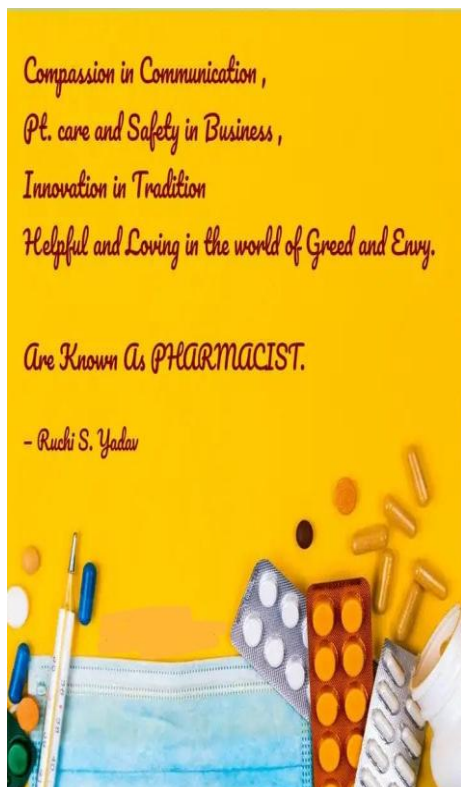
**Date :** 31/08/2020

**Time:** 12 to 1.30 pm

**Place:** GTU Live Facebook Page



# World's Pharmacist Day Celebration



**Name of activity** : World's Pharmacist Day

**Name Of Participants Or Semester/Department** : All

**Date** : 25th September.2020

**Time**: 9.00 TO 3.00

**Place**: Virtual Celebration – Google Meet

## Ganesh Chaturthi Celebration



**Name of activity** : Ganesh Chaturthi

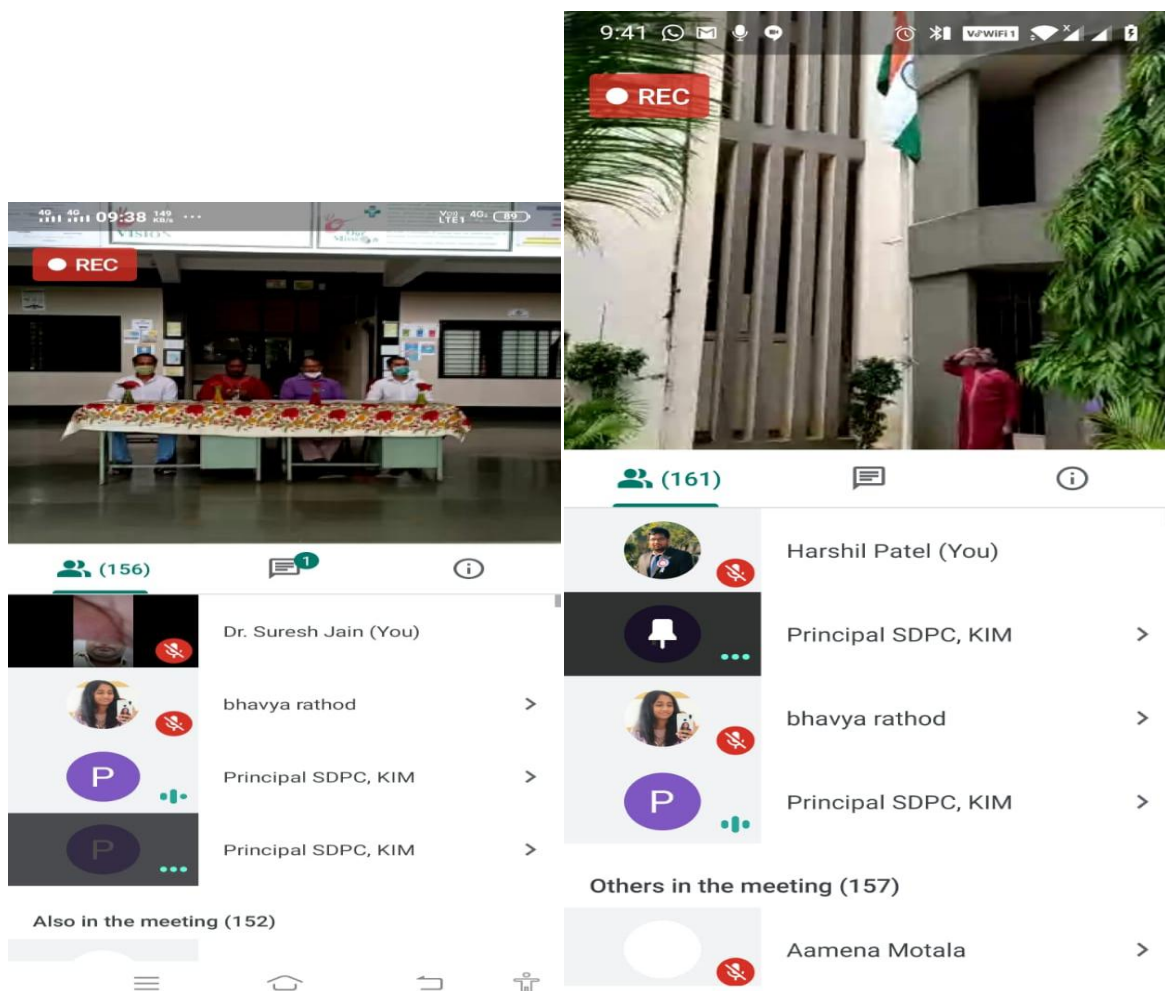
**Name Of Participants Or Semester/Department** : All Students

**Date** : 22/08/2020

**Time**: 9.30 TO 10.00 AM

**Place**: Virtual Celebration – Google Meet

# Independence Day Celebration



**Name of activity** : Independence Day

**Name of participants or semester/department** : All

**Date** : 15/08/2020

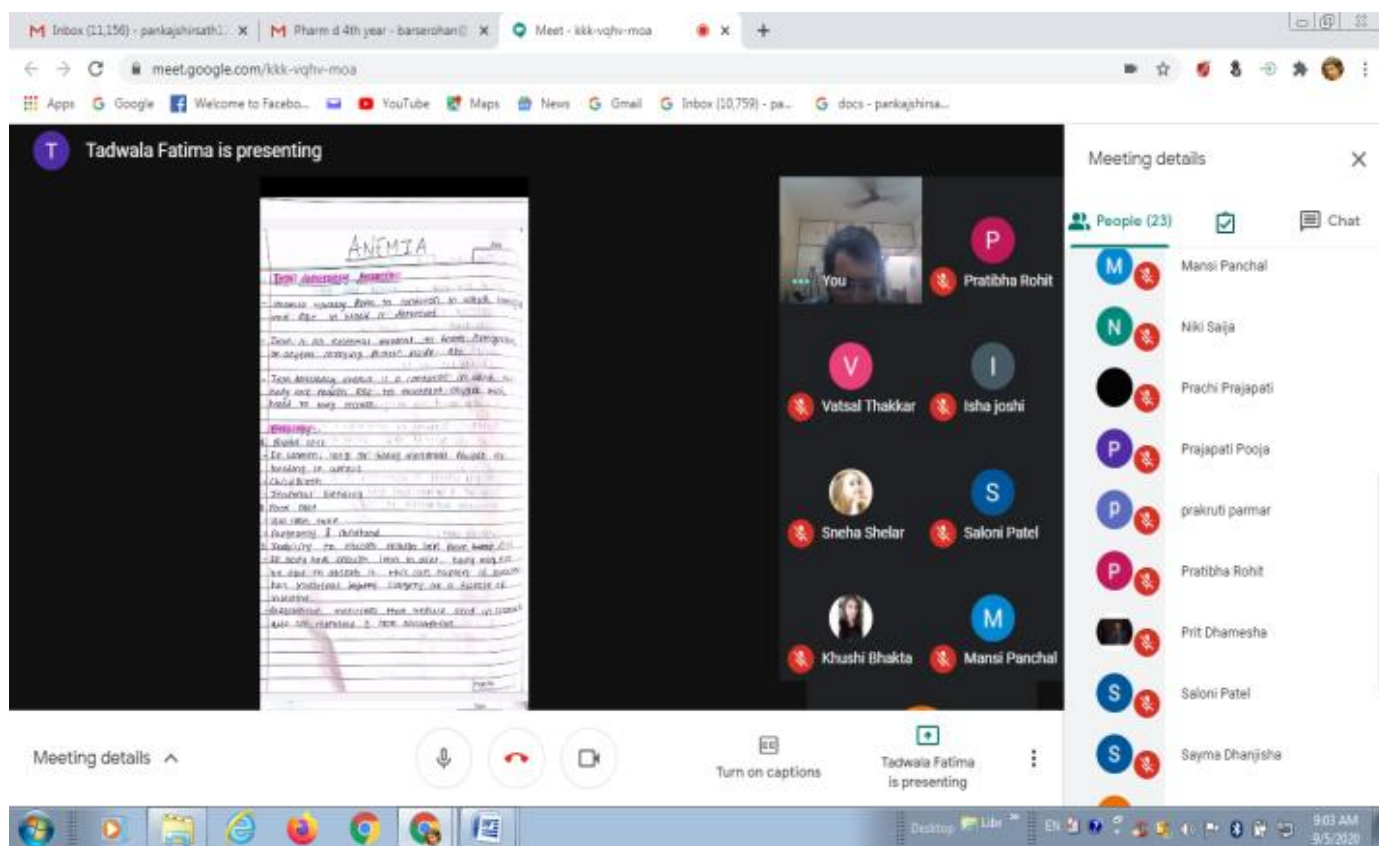
**Time**: 9.30 am

**Place**: Virtual Celebration – Google Meet





# Virtual Teacher's Day Celebration



**Name of activity** : Teacher's Day Celebration

**Name of participants or semester/department** : PHARM.D Students

**Date** : 05/09/2020

**Time**: 9.00am to 11.10.am

**Place**: Virtual – google meet

# Webinar On Future Prospects



The poster is for a free live webinar titled "Future Prospects after 10th, 12th & Graduation in New Education System". It features two speakers: Mr. Sanjay Raval and Dr. M. N. Noolvi. The event is scheduled for the 26th of September, 2020, from 3:30 PM to 5:00 PM. The poster includes logos for various educational institutions and accreditation bodies like NBA and AICTE. It also provides a registration link (http://sdpc.co.in/) and a QR code for registration. The text "Join Us Now" is prominently displayed in a blue box. At the bottom, there is a Gujarati quote: "ધોરણ 10th 12th અને ગ્રેજ્યુએશન પછીની ભાવિ શક્યતાઓ".

**Future Prospects after 10th, 12th & Graduation in New Education System**

**MR. SANJAY RAVAL** **DR. M. N. NOOLVI**

Future prospects after 10th, 12th and graduation in new education system"

**26th** **September, 2020** **3.30 PM-5.00PM**

\*WEBINAR ID\*: 819 6638 3178  
\*PASSCODE\*: 260920

**Join Us Now**

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"ધોરણ 10th 12th અને ગ્રેજ્યુએશન પછીની ભાવિ શક્યતાઓ"

**Name of activity** : Webinar On Future Prospects

**Name of participants or semester/department** : all

**Date** : 26TH SEPTEMBER.2020

**Time**: 3:30 TO 5:00 PM

**Place**: VIRTUAL CELEBRATION – GOOGLE MEET



# Faculty Achievement

Dr. Malleshappa N. Noolvi

Title	Achievment
KLE College of Pharmacy Organize, Quality Improvement programme on “Drug Development & Discovery: Natural & Synthetic perspective”. 18 <sup>th</sup> August To 2 <sup>nd</sup> September, 2020.	Resource Person



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In recognition of his/her attendance as **Resource Person** at the two week Quality Improvement programme on “**Drug Development & Discovery: Natural & Synthetic perspective**” in virtual mode from 18<sup>th</sup> August to 2<sup>nd</sup> September 2020.



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**Parin S. Sidat and Rozina I.**

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Kudos to Ms. ROZINA and Ms. PARIN for being selected for SSIP (Student Startup Innovation Program) Grant through GTU with the venture 'COVID PREVENTIVE ELIXIR'

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+919904104830: +9924204829  
kim-surat, gujarat

Name of faculty	Parin S. Sidat and Rozina I. Patel
Department	Pharmaceutical Chemistry and R.A.
Designation	Assistant Professor
Title of achievement	Covid Preventive Elixir ( Got grant for Product Development form SSIP )
Date	13/07/2020



Mr. Meghraj Vivekanand  
Suryawanshi

Name of faculty	Mr. Meghraj Vivekanand Suryawanshi
Department	Department of Pharmaceutics
Designation	Assistant Professor and Training & Placement Co-ordinator
Title of achievement	Given Webinar On How To Grab Post Covid-19 Opportunity for Pharmacy Graduates  Best Researcher Award in Pharmacy (Virtual ITS Foundation Award-2020)  Reviewer at IJASRW



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THIS IS PRESENTED TO

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(Assistant Professor and Placement Coordinator  
Shree Dhanvantary Pharmacy College, Surat)

For giving webinar on:  
"HOW TO GRAB POST COVID-19 OPPORTUNITY FOR  
PHARMACY GRADUATES?"

Aug 08 (Saturday), 2020



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Date

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1	Sidat Parin S.*, VarachiaAysha I., VanshiyaShivangini K., Unagar Ajay H., Akbari Meet G., DhamatRupin C.  Title: Carica papaya leaves: One of dynamic plant parts having multiple therapeutic activities	Himalayan Journal of Health Sciences	09/202 0	2020; 5(3)	37-48	10.222 70/hjh s.v5i3. 67	-ISSN: 2582 - 0737	Peer Reviewed

## PROSPECTIVE, OBSERVATIONAL, RANDOMIZATION STUDY OF OPERATIONAL AND PERFORMANCE ANALYSIS OF OUTPATIENT HOSPITAL PHARMACY

Hardi Patel<sup>\*1</sup>, Shrikalp Deshpande<sup>1</sup> and Roshni Patel<sup>1</sup>

K.B Institute of Pharmaceutical Education and Research, Gandhinagar.

Article Received on  
30 April 2020,  
Revised on 20 May 2020,  
Accepted on 10 June 2020  
DOI: 10.20939/wjpps20207-16588

**\*Corresponding Author**  
**Hardi Patel**  
K.B Institute of  
Pharmaceutical Education  
and Research, Gandhinagar.

### ABSTRACT

**Aim:** To study Operational and Performance Analysis of Outpatient Hospital Pharmacy. **Objective:** To demonstrate the use of an efficient quality improvement approach to identify pharmacy operational problems. And identify the factors associated with waiting time for services offered at outpatient pharmacy. Measure the overall patient waiting time at outpatient pharmacy. **Background:** Generally, in outpatient hospital pharmacy patient wait for queue for billing of prescription, time to dispensing of medicine and counselling time. Using queuing theory in pharmacy mainly find factor leading to

excessive waiting time, correlation between waiting time and patient satisfaction determine by using queuing approach. This study is important in identifying factors that affect outpatient pharmacy waiting time and ways to improve patient's satisfaction and fundamental understanding. **Materials and Methods:** Prospective observational randomized study was conducted for a period of 6 months in Hospital outpatient pharmacy. Data were collected using the techniques of work flow analysis and stopwatch was used to measure time spent in each component. A validated questionnaire was administered on the outpatients who measured their level of satisfaction with pharmaceutical services. **Results:** Major components include patient queue length for billing of prescription. (2.4min) Mean waiting time for dispensing of medicine when staff 13, and 9 were 5.6 and 7.5min. The average waiting time is 14min patient are satisfied with services. 50% of the patients were not satisfied with waiting time to collect their medicines. **Conclusion:** Need to reduce the time of dispensing procedure and patient call for counseling so that more time could be devoted. When training was given to the pharmacy staff afterwards the performance of outpatient pharmacy had been increased.

## World Journal of Pharmaceutical Sciences

ISSN (Print): 2321-3310; ISSN (Online): 2321-3086

Available online at: <http://www.wjpsonline.org/>

**Original Article**



---

### Development and validation of HPLC method for estimation of betulinic acid

Meghraj Suryawanshi

Department of Pharmaceutics, Shree Dhanvantary Pharmacy College, Kim, Surat-394110

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*Received: 13-05-2020 / Revised Accepted: 04-06-2020 / Published: 01-07-2020*

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#### ABSTRACT

A simple, specific, and economic HPLC method has been developed to estimate betulinic acid. The  $\lambda_{\text{max}}$  of betulinic acid was found to be 210 nm. Linearity in the concentration range of 25-150  $\mu\text{g/ml}$  was found to be exhibiting a good correlation coefficient ( $R^2 = 0.999$ ). The developed method was validated statistically to demonstrate linearity, accuracy, precision, LOD as well as LOQ. The validation parameters were selected as per the ICH [Q2 (R1)] guideline. The results of the study proved the applicability of the present method in routine analysis of betulinic acid.

**Keywords:** Betulinic acid, HPLC, Triterpene acid, ICH, LOD.





## Preparation and Estimation of Continuous Release Matrix Pellets of Lornoxicam by Using Basil Seed Mucilage

VIVEK RAJKULE<sup>1</sup>, MEGHRAJ V. SURYAWANSHI<sup>2\*</sup>, RAJU SONAWANE<sup>2</sup>

<sup>1</sup>Department of Pharmaceutics, R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur-425405,

<sup>2</sup>Department of Pharmaceutics, Shree Dhanvantary Pharmacy College, Kim, Surat-394110, India

Rajkule, *et al.*: Formulation and Evaluation of Sustained Release Matrix Pellets of Lornoxicam

### Abstract:

The current study was designed in the direction of the preparation and estimation of sustained-release pellets of lornoxicam by the extrusion-spheronization method by basil seed mucilage as an excipient for sustained drug release. These pellets were prepared using basil seed mucilage as a release retardant polymer, microcrystalline cellulose as pelletization aid, and lornoxicam as a perfect remedy. The pellets estimated by the flow parameters, friability, differential scanning calorimetry study, motic microscopy, scanning electron microscopy, and *in vitro* dissolution study. It was found that pellets prepared using basil seed mucilage as excipient were mechanically stable, good flowability, and sphericity. Differential scanning calorimetry study shows that there is no drug excipient interaction. Scanning electron microscopy images show that the pellet having spherical shape and cracks on its surface. Among all batches, F4 showed better-sustained drug release was 102.83 % at the period for 12 h. Hence, the study concludes that basil seed mucilage is best suitable for sustained drug release and has to extend the study in the future.

**Keywords:** Basil seed mucilage, lornoxicam, extrusion-spheronization, microcrystalline cellulose, sustained release, matrix pellets, pelletization, *in vitro* dissolution study



Sidat et.al

Himalayan Journal of Health Sciences

ISSN: 2582 - 0737

## *Carica papaya* leaves: One of dynamic plant parts having multiple therapeutic activities

Available online at [www.hjhs.co.in](http://www.hjhs.co.in)

### REVIEW ARTICLE

Sidat Parin S.<sup>\*a</sup>, Varachia Aysha I.<sup>b</sup>, Vanshiya Shivangini K.<sup>b</sup>, Unagar Ajay H.<sup>b</sup>, Akbari Meet G.<sup>b</sup>, Dhamat Rupin C.<sup>b</sup>

<sup>\*a</sup> Assistant Professor, Department of Pharmaceutical Chemistry, Shree Dhanvantary Pharmacy College, Kim, Surat, Gujarat, India

<sup>b</sup> Research Scholar, Shree Dhanvantary Pharmacy College, Kim, Surat, Gujarat, India

DOI [10.22270/hjhs.v5i3.67](https://doi.org/10.22270/hjhs.v5i3.67)

### ABSTRACT

Introduction: Papaya (*Carica papaya* Linn.) belongs to the Caricaceae family. Papaya is well known around the world for its medicinal and nutritional properties. Various parts of the plant like, fruits, roots, bark, peel, seeds and pulp are known to have medicinal properties and scientifically established for the various properties. Since the ancient times, part of plants has been utilized for their medicinal values. The plant contains high amount of vitamins A, B and C as well as proteolytic enzyme such as papain and chymopapain. Due to such type of versatile



## Workshop /Seminar /Webinar /FDP Attended By Faculty

NAME OF FACULTY	TITLE	NAME OF EVENT
<b>Dr. Pallavi K J</b>	GTU Organize Webinar On, NAAC Assessment & Accreditation Process. 5 <sup>th</sup> August, 2020.	Webinar
<b>Ms. Rozinaparvin Patel</b>	AICTE Training And Learning (ATAL) Academy Organize FDP On, "OECD principle of Good Laboratory Practices". 22 – 26 September, 2020.	FDP Attended
	AICTE Training And Learning (ATAL) Academy Organize FDP On, on "Chromatography: Advancements in Instrumentation and Applications". 12- 16 October, 2020.	FDP Attended
<b>Dr. Manish - Goyani</b>	GTU Organize, Webinar on, Innovate to Impact. 22 <sup>nd</sup> July, 2020.	
	KIP Organize, National Level Webinar on, Complex Product Development from Lab to Commercial: Case Study Considering Quality by Design Concept. 18 <sup>th</sup> August, 2020.	
	PharmaTutor Organize, How to Face an Interview? 7 <sup>th</sup> Pharma Expert Talk. 22 <sup>nd</sup> August, 2020.	
	GSPC Sponsored, Two Days Refreshers Course, 19 <sup>th</sup> & 20 <sup>th</sup> September 2020.	
<b>Mr. Meghraj Suryawanshi</b>	MCOP Organize Four Week FDP On, Effective Use of ICT Tools in Teaching – Learning. 8 <sup>th</sup> June To 7 <sup>th</sup> July, 2020.	FDP Attended
	CSIR-SRTP Organize Online Training Program. June To August, 2020.	Online Training Program
	Chariot Consultant Organize Webinar On, How to Grab Post COVID-19 Opportunities for Pharmacy Graduates? 8 <sup>th</sup> August, 2020.	Webinar
	SRKI Organize Online Certificate Course On, Patent Searching for Beginners. 6 <sup>th</sup> September, 2020.	Online Certificate Course
<b>Dr. Uttam A. More</b>	Organize By GTU, 3 Days Online Yoga Workshop on Yoga for Concentration & Usefulness. 24 <sup>th</sup> To 26 <sup>th</sup> August, 2020.	Workshop Attended
	KLE Pharmacy College Organize Webinar On, Boosting Immune System & Stages Involved in the Development of	Webinar





	Vaccines. 26 <sup>th</sup> July, 2020.	
<b>Mr. Rohan Barse</b>	BVCE Organize, Faculty Program On NBA. 5 <sup>th</sup> August, 2020.	Faculty Program
<b>Ms. Parin S. Sidat</b>	PharmaCampus Organize, Pharma Video Competition: Theme Life of Pharmacy Students. 16 <sup>th</sup> July, 2020.	Video Competition
<b>Miss. Hirvita Bhatt</b>	KLECP Organize Webinar On, Trends, Advances & Applications of Chromatographic Techniques for Purification of Phytochemicals. 3 <sup>rd</sup> July, 2020.	Webinar
	NITTTR Organize, Webinar On, W2- Evolving & Aligning Teaching Learning Process For Implementing Engineering Curriculum. 9 <sup>th</sup> July, 2020.	Webinar
	GISIPS Organize Webinar On, Computer Aided Drug Designing: State of Art & Tool for Drug Discovery. 11 <sup>th</sup> July, 2020.	Webinar
	NITTTR Organize, Webinar On, W3-Course Outcomes & Domains of Learning. 14 <sup>th</sup> July, 2020.	Webinar
	Uka Tarsadia University Organize National Webinar On, Revised Assessment & Accreditation Process of NAAC for Higher Education. 10 <sup>th</sup> August, 2020.	Webinar
	DIT University Organize Webinar On, HPTLC: Techniques & Applications. 17 <sup>th</sup> August, 2020.	Webinar
	KIP Organize National Level Webinar On, Complex Product Development From Lab To Commercial: Case Study Considering Quality by Design Concept. 18 <sup>th</sup> August, 2020.	National Webinar
	NITTTR Organize, Webinar On, W9-Continuous Improvement, Institutional Governance & Support System. 18 <sup>th</sup> August, 2020.	Webinar
	NITTTR Organize, Webinar On, W5-Prepare Course & Programme Articulation Matrices. 23 <sup>rd</sup> July, 2020.	Webinar
	NITTTR Organize, Webinar On, W11-Planning Required During Visit & Post -Visit Activities. 25 <sup>th</sup> August, 2020.	Webinar
	GUJCOST & DST Sponsored National e-Seminar on, Role of IPR & Patent in Research & Innovation: Pharmaceutical Industry Perspectives. 18 <sup>th</sup> & 19 <sup>th</sup> September, 2020.	National Seminar
<b>Mrs. Dhara Vashi</b>	BVCE Organize Online Faculty Program On NBA. 5 <sup>th</sup> September, 2020.	Faculty Program



Ref. No.: IQAC/NAAC Webinar/E-Certificate/2020/013- 153



## Internal Quality Assurance Cell

Gujarat Technological University

E-Certificate of Participation

A Webinar on

**"NAAC Assessment and Accreditation Process"**

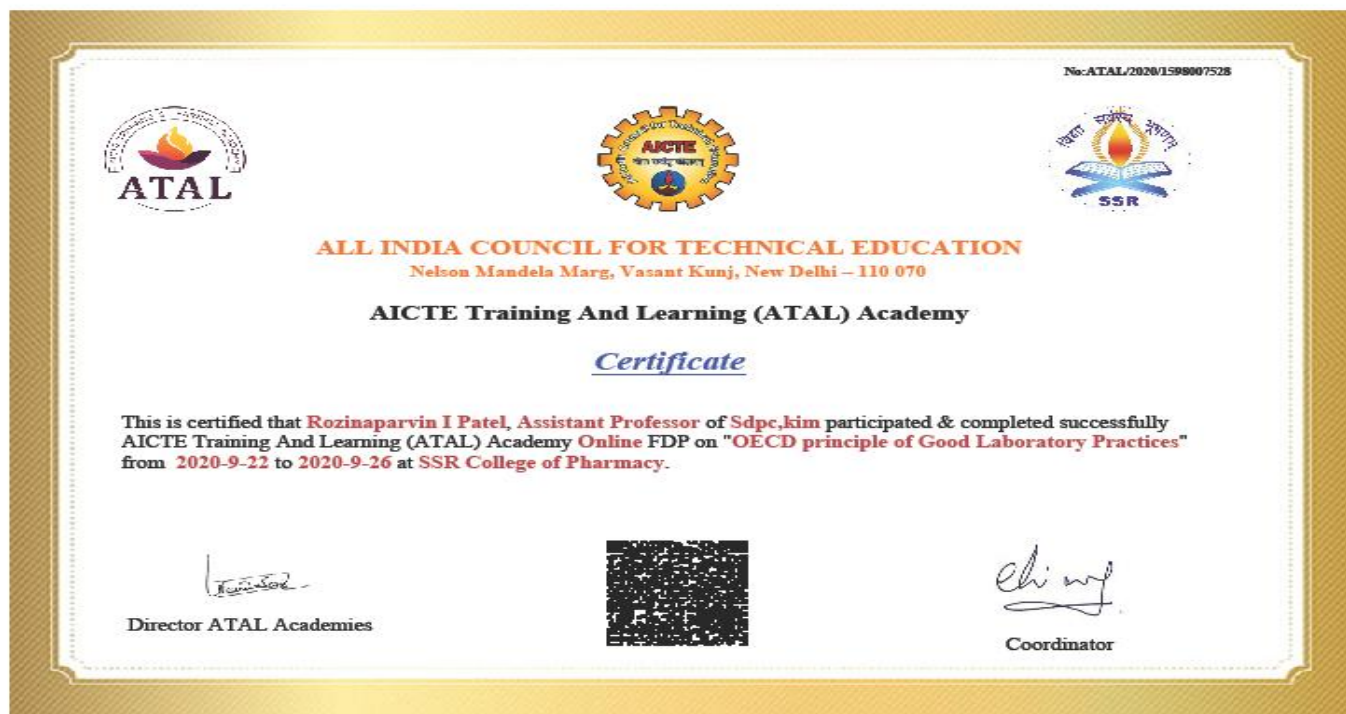
This is to certify that

**Dr. Pallavi K.J.**

has successfully participated in the webinar on "NAAC Assessment and Accreditation Process" organized by Internal Quality Assurance Cell, Gujarat Technological University on 5<sup>th</sup> August, 2020

Dr. Kaushal Bhatt  
Coordinator - IQAC

Dr. S. D. Panchal  
Head - IQAC







## Gujarat State Pharmacy Council

(Constituted Under The Pharmacy Act, 1948)

### ❖ CERTIFICATE ❖

This is to certify that Mr. / Mrs. / Ms. **MANISHKUMAR BABUBHAI GOYANI**, Registration No. : **G/24768** has participated in two days online Refresher Course for registered pharmacist held at Saraswati Institute of Pharmaceutical Sciences, Dhanap, Gandhinagar during 19<sup>th</sup> & 20<sup>th</sup> September of 2020 sponsored by the Gujarat State Pharmacy Council, Ahmedabad.

Registrar

Gujarat State Pharmacy Council Ahmedabad



Course Director &

Principal or Head of the Institution

4/A, 3RD FLOOR, OLD NURSING COLLEGE BUILDING, GATE NO-6, CIVIL HOSPITAL CAMPUS, ASARWA, AHMEDABAD-380 016.

## Dr MANISH GOYANI

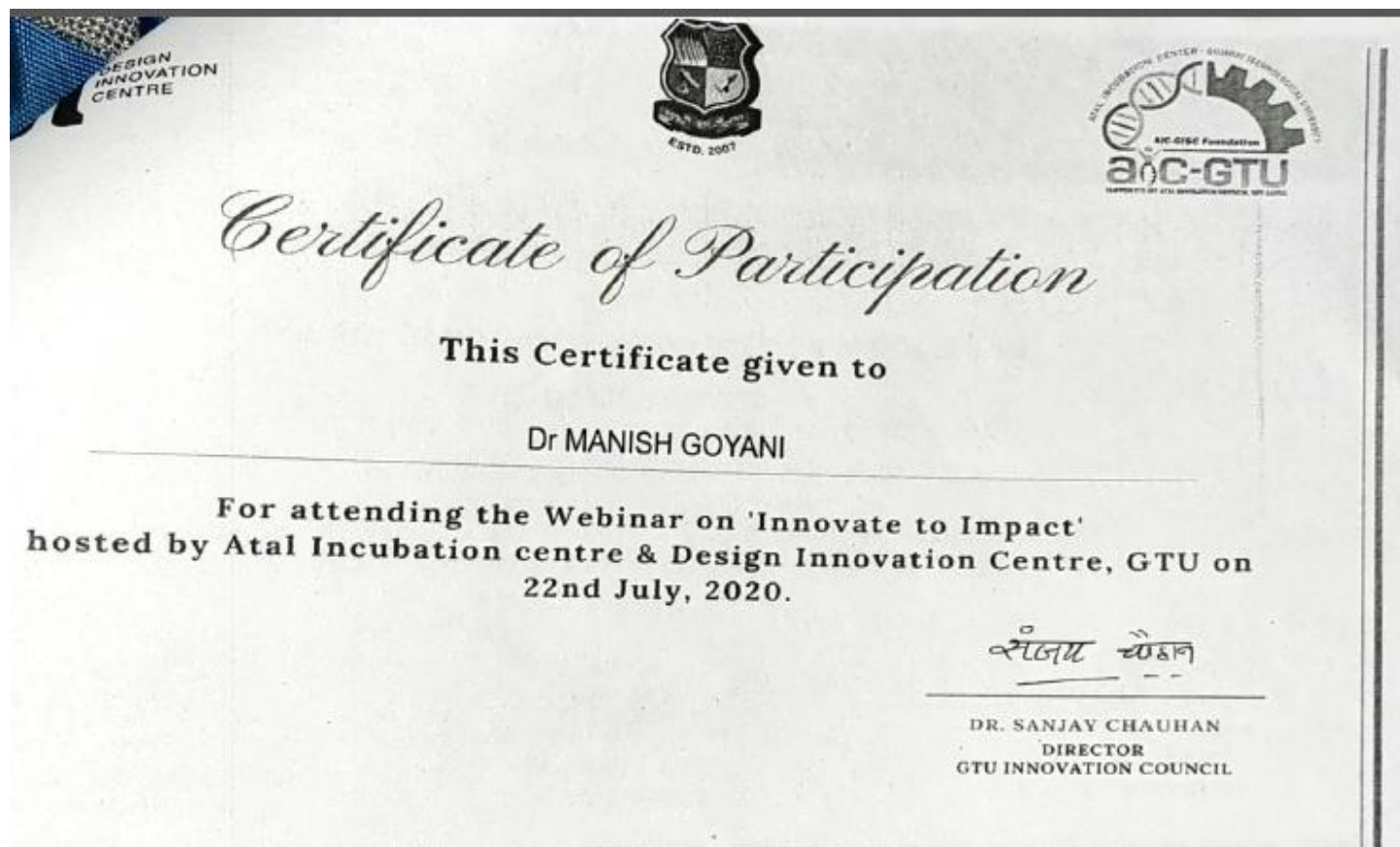
For online career guidance webinar on How to Face an Interview? named as, "7th Pharma Expert Talk" on 22nd August, 2020 organised by PharmaTutor Edu Labs.

Rajesh Vagh

FOUNDER & DIRECTOR,  
PHARMATUTOR EDU LABS

V68TFY-CE000527

WWW.PHARMATUTOR.ORG







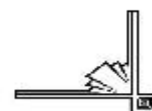
**CSIR-SUMMER RESEARCH TRAINING PROGRAM  
(CSIR-SRTP)2020 ONLINE**



**JUNE TO AUGUST, 2020**

**SL. NO.:** CSIR/SRTP/2020/NEIST/M/251

**NAME:** MR. MEGHRAJ VIVEKANAND  
SURYAWANSHI







IP Moment  
and  
Shree Ramkrishna Institute of Computer Education &  
Applied Sciences

M.T.B. College Campus, Athwalines, Surat-395 001. Ph : 2240172

Department of Environmental Science

and

Department of Biotechnology



## CERTIFICATE

This is to certify that **MR. MEGHRAJ VIVEKANAND SURYAWANSHI** of **Shree Dhanvantary Pharmacy College Kim Surat** has successfully completed the **Online Certificate Course in Patent Searching for Beginners**, jointly organized by IP Moment and Department of Environmental Science and Department of Biotechnology of SRKI college.

*P. C. Dave*

Dr. Paresh Dave  
Founder and MD  
IP Moment,  
New Delhi.

*RATNA TRIVEDI*

Dr. Ratna Trivedi  
Head of Department,  
Department of Environmental Science,  
SRKI, Surat, Gujarat-395001

*JAY BERGI*

Dr. Jay Bergi  
Head of Department,  
Department of Biotechnology,  
SRKI, Surat, Gujarat-395001

Certificate ID: IP0088

6/9/2020 0:03:20



## CERTIFICATE OF APPRECIATION

THIS IS PRESENTED TO

**Mr. Meghraj Suryawanshi**  
(Assistant Professor and Placement Coordinator  
Shree Dhanvantary Pharmacy College, Surat)

For giving webinar on:  
"HOW TO GRAB POST COVID-19 OPPORTUNITY FOR  
PHARMACY GRADUATES?"

Aug 08 (Saturday), 2020



## KLE COLLEGE OF PHARMACY, NIPANI



# Certificate

*This is certify that Mr./Ms./Dr.*

**Dr. Uttam A. More**



has attended webinar on **"Boosting Immune System and Stages Involved in the Development of Vaccines"** organised by Dept. of Pharmaceutical Chemistry, KLE College of Pharmacy, Nipani on 26th July 2020.

**Mr. Ramesh V.**

**Programme Coordinator**

**Dr. J. K. Saboji**

**Chief Coordinator & Principal**



**GUJARAT  
TECHNOLOGICAL  
UNIVERSITY**

Certificate Sr. No.: ...202021/0634...

## E-CERTIFICATE OF PARTICIPATION

This E-Certificate is presented to

*Dr. Uttam A More*

from

*Shree Dhanvantary Pharmacy College*

has successfully participated in

**3 Days Online YOGA Workshop on**

**"Yoga for Concentration & Usefulness"**

organized by

**Gujarat Technological University,  
on 24<sup>th</sup> to 26<sup>th</sup> August, 2020.**

**Dr. A. H. Gohil**  
Sports Officer

-sd-

**Dr. K. N. Kher**  
Registrar





## Bharati Vidyapeeth College of Engineering



(Permanently affiliated to Mumbai University, Approved by AICTE, New Delhi and NBA Accredited)  
Sector-7, CBD, Belapur, Near Kharghar Railway Station, Navi Mumbai-400614. [www.bvcoenm.edu.in](http://www.bvcoenm.edu.in)

### CERTIFICATE OF APPRECIATION

This certificate declares that Dr./Prof. **Rohan K Barse**

**Shree Dhanvantary Pharmacy College** has successfully completed online

### Faculty Program on NBA

on 5/10/2020, with a passing score of 70%  
organized by Bharati Vidyapeeth College Of Engineering, Navi Mumbai - 400614.

Certificate ID T3IWH-CE001435

**Prof. H. B. Sale**  
Coordinator

**Dr. S. D. Jadhav**  
Principal

PHARMA  
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### CERTIFICATE OF EXCELLENCE

Certificate Id: NHT-PCW20-COE02

This certificate is hereby awarded to  
**PARIN SALIM SIDAT**

In appreciation of his participation in 'Pharma Video Competition';  
which was conducted on **16th July 2020**.

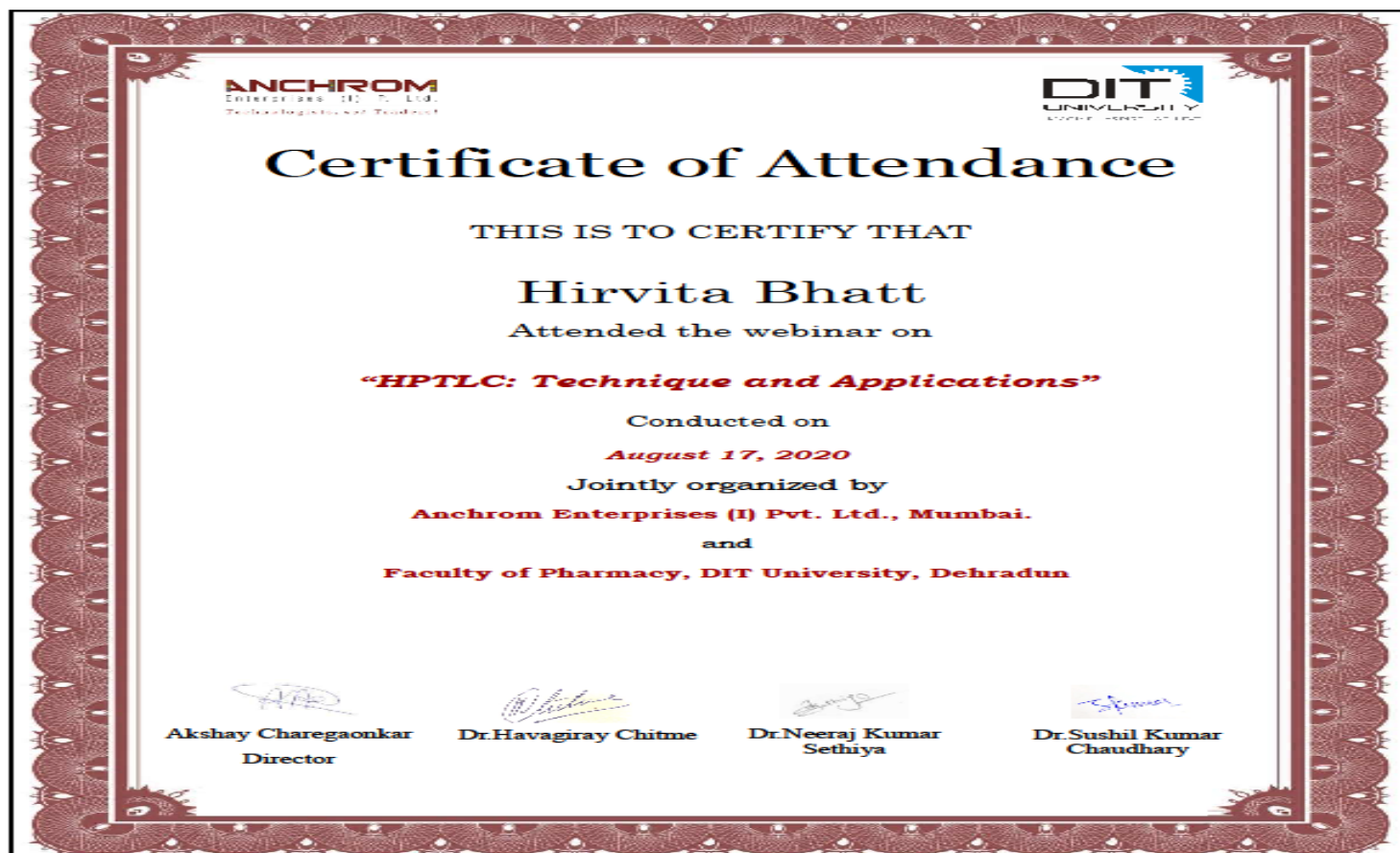
His/her creative work under the theme '**Life of a pharmacy student**'; was much appreciated.

The video competition was organized by **PharmaCampus**- India's  
first e-learning Platform for Pharma Students. The video entry got  
selected as 'second runner-up' under the viewer's choice.

**GAURAV MEENA**  
Co-ordinator

**KETAKI CHATOLE**  
Founder and Director







Certificate Id: Y7SD50-CE000008





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REACCREDITED AT 'A' LEVEL BY NAAC (SECOND CYCLE), PLACED IN 'A' CATEGORY BY MHRD (GoI)  
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This is to certify that Dr./Mr./Ms.

**Hirvita Bhatt**

has Attended Webinar on "Trends, Advances and Applications of Chromatographic Techniques for purification of Phytochemicals" organized by Dept. of Pharmacognosy, KLE College of Pharmacy, Belagavi, Karnataka on 3<sup>rd</sup> July 2020.

  
Dr. Satish A. Kavathegimath  
Program Co-ordinator

  
Dr. M. B. Patil  
Convener  
Vice-Principal, KLE COP, BGU

  
Dr. Sunil S. Jalalpura  
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[kip\\_kalol@yahoo.co.in](mailto:kip_kalol@yahoo.co.in)

Ahmedabad-Mehsana Highway, Op. Sindabad Hotel, Kalol - 382721, Ta-Kalol, Dist-Gandhinagar, Gujarat, India.

### CERTIFICATE OF APPRECIATION

We are honored to present this certificate to

**Ms. Hirvita Bhatt**

For Attending A National Level Weninar of  
"Complex product development  
from lab to commercial: Case study considering quality by design concept"  
Oragnised by Kalol Institute of Pharmacy, Kalol, held on 18<sup>th</sup> August 2020.

Dr. S.T.Prajapati  
(Prinicipal)

Dr. Deepa Patel  
(Coordinator)

Dr. Keyur Patel  
(Co- Coordinator)

FUQZKI-CE000109







Regd. No.  
W3/2020-2021/11347



ID No.  
W-00295

# National Institute of Technical Teachers' Training and Research, Bhopal

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This certificate is awarded to

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for attending webinar

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Dr. C. Thangaraj  
Director, NITTTR, Bhopal

Dr. R.K. Dixit  
Coordinator, Accreditation Webinar Series

Dr. Sanjay Agrawal  
Coordinator, Webinar

Regd. No.  
W9/2020-2021/19840



ID No.  
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Dr. R.K. Dixit  
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Dr. R.K. Dixit  
Coordinator, Webinar





Regd. No.  
W11/2020-2021/24191



ID No.  
W-10473

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### Certificate of Participation


This certificate is awarded to


**HIRVITA BHATT**

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**Dr. R.K. Dixit**  
Coordinator, Accreditation Webinar Series

  
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Coordinator, Webinar



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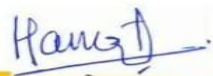
This certificate declares that Dr./Prof. **Dhara Vashi**

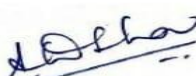
Shree Dhanvantary pharmacy college Kim has successfully completed online

### Faculty Program on NBA

on 5/9/2020, with a passing score of 65%  
organized by Bharati Vidyapeeth College Of Engineering, Navi Mumbai - 400614.

Certificate ID T3IWHA-CE001281

  
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Coordinator

  
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SDPC

E-BULLETIN

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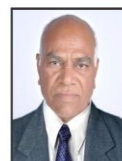
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## Armed Forces Day Celebration

**सशस्त्र सेना झंडा दिवस**



**7 दिसम्बर – 7 DECEMBER**  
**ARMED FORCES FLAG DAY**



*A. G. G. G.*

**ICICI Bank**  
SURAT VARACHHA Branch  
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RTGS / NEFT IFS Code : ICIC0000584

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Pay Collector & President AFED Fund Account Or Bearer  
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Rupees रुपये Ten thousand one only—


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A/c No. खाता नं. 058401003846


SBTAS CBS  
3/4/18 PERSONAL BANKING : SAVINGS ACCOUNT  
000510X058401003846000510X058401003846000510X058401003846  
Payable at par at all branches of ICICI Bank Limited in India

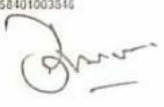
FOR SHREE DHANVANTARY PHARMACY COLLEGE-FUND














AUTHORISED SIGNATORY  
Please sign above

⑈000510⑈ 395229006⑈ 003846⑈ 3⑈

**Event:** Armed Forces Flag Day

**Date:** 07/12/2020

**Day:** Monday

**Participants:** Pharm D. And B.Pharm Students , Teaching and Non-Teaching Staff

**Venue:** SDPC Campus, Kim,

# Organ Donation Awareness Webinar

Zoom Leave Recording

### Organs and Tissues for Donation

Shatayu

**Organs:**

- Heart
- Lung
- Liver
- Kidney
- Intestine
- Pancreas

**Tissues:**

- Cornea
- Voice
- Spinal Nerve
- Bone
- Skin
- Heart



Unmute Start Video Share Participants More

Close Participants (100)

GS	Gaurav satasiya		>
GM	Gondaliya mrigisha		>
JJ	Jadav Jaynalsinh		>
K	Khelan Rakholiya		>
	Mamta Gupta		>
MR	Megha rajput		>
NS	Nishant Sinha		>
PR	Patel Richi		>
PK	PURANCHAND KUMAR		>
SS	SAMEE SHAIKH		>

Zoom Leave Recording

### Difference between Brain Death & Coma

Shatayu

Coma	Brain Death
A state of deep unconsciousness	An irreversible condition
Brain still functions and the person is alive	Brain stops functioning completely
Hospitals declare the brain is injured to some degree	Hospitals declare the brain is injured by total injury, brain death, stroke

Unmute Start Video Share Participants More

Close Participants (100)

PM	parth Mengukiya		>
PA	Patel aanshi		>
PA	Patel akanksha		>
PH	Patel harni Nileshbhai		>
PM	Patel Meet		>
PT	Pooja Thapa		>
PN	Prasad nisha kumari shree...		>
PS	Prasad Simran		>
	PREM BHATT		>





**Event:** Organ Donation Awareness Webinar

**Date:** 22/12/2020

**Day:** Tuesday

**Participants:** Pharm D. And B.Pharm Students , Teaching staff

**Mode:** online

**Platform :** zoom

**Venue:** SDPC Campus, Kim,



## Workshop /Seminar /FDP Attended By Faculty

Sr no	Name of faculty	Title
1	Dr. Anand Deshmukh	JECR Organize One Week FDP Program on, Stress & Anger Management. 15 <sup>th</sup> To 19 <sup>th</sup> December, 2020
2	Ms. Rozinaparvin Patel	AICTE Training And Learning (ATAL) Academy Organize FDP On, on "Chromatography: Advancements in Instrumentation and Applications". 12- 16 October, 2020.
3	Mr. Meghraj Suryawanshi	ISDCA Organize International Conference On Theme, Research, Development & Innovations for Global Healthcare. 17 <sup>th</sup> October, 2020.
		ATAL Organize FDP On, Design Thinking. 23 <sup>rd</sup> To 27 <sup>th</sup> November, 2020.
		SIPS Organize, National Level STTP On, Application of Outcome Based Learning in Pharmacy & Process of NBA. 7- 9 October, 2020.
4.	Dr. Uttam A. More	AICTE & DST-GUJCOST Sponsored International E-Conference PHARMATECH-2020 Exploring myriads of Pharma in Pharmaceuticals & Pharmaceutical Technology. 28 <sup>th</sup> To 30 <sup>th</sup> October 2020
		Prin. K.m.Kundnani college of pharmacy, Webinar on Authoring & Proctoring Tools for Academics. 21 <sup>st</sup> November 2020.
5.	Mr. Harshil M. Patel	Nanotechnology And It's Advances, 25 <sup>th</sup> October, 2020
		Ndma Impurity In Medicine: A Source Of Bewilderment For The Patients, 1 <sup>st</sup> November, 2020
		Role Of Pharmacist In Preventing Drug Abuse', 8 <sup>th</sup> November, 2020
		Role Of Pharmacists For Best Therapeutic Outcomes, 29 <sup>th</sup>



		November,2020
		Web-Based Educational Tools For Computer-Aided Drug Design,Scope And Importance, 4 <sup>th</sup> December,2020
6.	Ms. Urvashi B.Patel	Web-Based Educational Tools For Computer-Aided Drug Design,Scope And Importance, 4 <sup>th</sup> December,2020
		Academic Delivery And Assessment During Covid Pandemic Vis-A-Vis National Education Policy, 20 <sup>th</sup> December,2020
7.	Mrs. Monika Kakadiya	PU Organize, National Workshop on, Web-Based Educational Tools for Computer Aided Drug Design, Scope & Importance. 4 <sup>th</sup> December, 2020





No.ATAL/2020/1598007580

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This is certified that **Rozinaparvin I Patel**, Assistant Professor of **Sdpc,kim** participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "**Chromatography: Advancements in Instrumentation and Applications**" from **2020-10-12 to 2020-10-16** at **Dr D Y Patil Institute of Pharmaceutical Sciences and Research**.

Director ATAL Academies



Coordinator



One Week TEQIP-III Sponsored  
**FACULTY DEVELOPMENT PROGRAMME**  
on  
**STRESS & ANGER MANAGEMENT**

Organised By  
Rajasthan Technical University, Kota &  
Jaipur Engineering College and Research Centre, Jaipur

**Certificate**

Ref No.: RTU/TEQIP III/F(56)/2020-21/5581-87/JECRC(SAM)/211

This is to certify that Dr. Anand S. Deshmukh of  
Shree Dhanvantary Pharmacy College has  
participated in the one week **Faculty Development Programme** on "**Stress & Anger Management**" held from  
**15 / 12 / 2020 to 19 / 12 / 2020** at **Jaipur Engineering College and Research Centre, Jaipur**.

Ms. Chitra Khandelwal  
Coordinator, JECRC, Jaipur

Prof. Vinay Kumar Chandna  
Principal, JECRC, Jaipur

Dr. B. D. Gidwani  
Coordinator, RTU, Kota



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In collaboration with School of Health Science Professions, College of Pharmacy, Office of the Research, Extension and Linkages  
and International Journal of Science and Pharma Innovation, India

This

# CERTIFICATE OF PARTICIPATION

is presented to

**Meghraj Suryawanshi**  
Assistant Professor, Department of Pharmaceutics, Shree Dhanvantary Pharmacy College,  
Kim, Surat, Gujarat, India

to certify that he/she has attended the International Scientific Drug Conference of Asia 2020 (ISDCA 2020) with  
the theme **"Research, Development and Innovations for Global Healthcare"** delivered via DominiConnect on  
October 17, 2020 at St. Dominic Complex, E. Aguinaldo Highway, City of Bacoor, Cavite, Philippines as

## PRESENTER

of the research entitled

**"Preparation and Estimation of Continuous Release Matrix Pellets of Lornoxicam by Using Basil Seed  
Mucilage."**

  
ISDCA009/2020

  
**PROF. ANTHONY R. MARIN, RPh, MS Pharm**  
Chairman of ISDCA 2020  
Program Chair, College of Pharmacy  
St. Dominic College of Asia, Philippines

  
**DR. NILDA W. BALSICAS**  
Vice President for Research, Extension and Linkages  
Research, Innovation and Development Office  
St. Dominic College of Asia, Philippines



No:ATAL/2020/1598195104

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This is certified that **Meghraj Vivekanand Suryawanshi**, Assistant Professor of **Shree Dhanvantary Pharmacy  
College Kim** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online FDP on "**  
**Design thinking"** from **2020-11-23 to 2020-11-27** at **Anand Pharmacy College**.

  
Director ATAL Academies



  
Coordinator





**NATIONAL LEVEL VIRTUAL SHORT TERM TRAINING PROGRAM (vSTTP)**



**CERTIFICATE OF APPRECIATION**

This is to Certify that

Dr. / Mr./Ms./Mrs. Mr. MEGHRAJ VIVEKANAND SURYAWANSHI

has successfully completed National Level Virtual Short Term Training Program as Delegate on  
**"APPLICATION OF OUTCOME BASED LEARNING IN PHARMACY & PROCESS OF NBA"**  
Sponsored by Gujarat Council on Science and Technology (GUJCOST), and Department of Science  
and Technology (DST), Government of Gujarat  
Organized by Saraswati Institute of Pharmaceutical Sciences, Gandhinagar, Gujarat,  
during 07 – 09 October, 2020".

**SHRI K. G. PATEL**

Patron

**DR. S. K. SHAH**

Convener

**DR. ANKIT B. CHAUDHARY**

Coordinator



**CERTIFICATE**

This is to certify that

Prof./Dr./Mr./Ms. UTTAM A. MORE

Has Participated as Delegate at

**AICTE and DST-GUJCOST Sponsored International E-Conference**  
**"PHARMTECH 2020 - Exploring myriads of Pharma in Pharmaceuticals and**  
**Pharmaceutical Technology"**

Organized by

**L.M. College of Pharmacy, Ahmedabad during 28<sup>th</sup> to 30<sup>th</sup> October 2020.**

**Dr. Mahesh T. Chhabria**  
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Certificate No: LMCP/2020/843

**Dr. Yamini D. Shah**  
Organizing Secretary









Reg. no. SPSR/Webinar/1481




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This certificate is awarded to

**DR. HARSHILKUMAR MANUBHAI PATEL**

for participating in the SPSR National Webinar on '**NDMA IMPURITY IN MEDICINE: A SOURCE OF BEWILDERMENT FOR THE PATIENTS**' organized by Society of Pharmaceutical Sciences and Research (SPSR) on 1st November 2020

  
Mrs. Monika Sabharwal  
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organized by School of Pharmacy, Parul University held on 4th December 2020.

**Dr. Abhay Dharamsi**  
Dean, Faculty of Pharmacy

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Principal, School of Pharmacy

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organized by School of Pharmacy, Parul University held on 4th December 2020.

**Dr. Abhay Dharamsi**  
Dean, Faculty of Pharmacy

**Dr. Lalit Lata Jha**  
Principal, School of Pharmacy

**Mr. Vinod Kumar Gurjar**  
Coordinator







## Paper Publication By Faculty

Sr No.	Authors name & title of publication	Journal	Month/ Year	Volume	Page no.	DOI	Publisher /ISSN/ISBN No.	Whether Peer Reviewed/ Impact Factor
<b>Dr. M. N. Noolvi</b>								
1.	<b>Estimation of four drugs: Ambroxol hydrochloride, Levocetirizine hydrochloride, Phenylephrine hydrochloride and Paracetamol by RP-HPLC in tablet dosage form</b>	International Journal of Pharmaceutical Chemistry and Analysis	December 2020	5(1)	31-38	10.18231/2394-2797.2018.0006	Innovative Publication Pvt. Ltd.  ISSN: 2394-2789	-
2.	<b>Synthesis, anti-microbial and anti-oxidant activity novel triazolo-quinazolines.</b>	International Journal of Pharmaceutical Research	December 2020	12(3)	863-870	10.31838/ijpr/2020.SP3.118	Advanced Scientific Research  ISSN: 0975-2366	-
3.	<b>Synthesis and biological evaluation of novel Triazolyl quinazolin-4-one derivatives as anticancer agents</b>	European Journal of Molecular Clinical Medicine	2020	7(11)	5201-5214		ISSN: 2515-8260	-
<b>Mr. Meghraj Suryawanshi</b>								
1.	A Systematic Review of Antiviral Drugs for the Treatment of the COVID-19 Pandemic.	Manipal Journal of Pharmaceutical Science	Nov-2020	6(2)	109-113		ISSN: 2455-3735	Peer Reviewed IF:3.746
2.	COVID-19 Awareness, Prevention, Diagnosis, and Treatment: A Review.	Manipal Journal of Pharmaceutical Science	Nov-2020	6(2)	101-104		ISSN: 2455-3735	Peer Reviewed IF:3.746

## Estimation of four drugs: Ambroxol hydrochloride, Levocetirizine hydrochloride, Phenylephrine hydrochloride and Paracetamol by RP-HPLC in tablet dosage form

Devangi K. Patel<sup>1</sup>, Amit J. Vyas<sup>2</sup>, M. N. Noolvi<sup>3</sup>, Ashok B. Patel<sup>4</sup>, Nilesh K. Patel<sup>5</sup>

<sup>1</sup>M. Pharm (QA), <sup>2,3,4,5</sup>PhD Student, <sup>1,2,4,5</sup>B. K. Mody Government Pharmacy College, Rajkot, Gujarat, <sup>3</sup>Shree Dhanvantari College of Pharmacy, Kim, Surat, Gujarat, India

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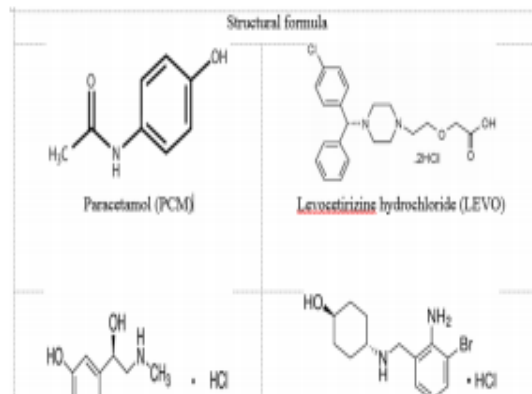
### Abstract

A simple, specific, precise, accurate and economic isocratic RP-HPLC method was developed for the simultaneous determination of Ambroxol hydrochloride, Levocetirizine hydrochloride, Phenylephrine hydrochloride and Paracetamol in bulk and tablet dosage form. A reverse phase Nucleosil C<sub>18</sub> column (250 mm x 4.6 mm x 5  $\mu$ m) with mobile phase consisting of Methanol: Sodium Phosphate dibasic anhydrous Buffer (65:35 V/V) having (pH of buffer 7.0  $\pm$  0.02 adjusted with ortho phosphoric acid) was used. The flow rate was 1.0 mL/min and the effluents were monitored at 230 nm. The retention times of Paracetamol, Levocetirizine hydrochloride, Phenylephrine hydrochloride and Ambroxol hydrochloride were found to be 3.117, 4.925, 6.217 and 12.308 min. respectively. The method was validated in terms of linearity, range, specificity, accuracy, precision and robustness. The proposed method was successfully applied for the estimation of paracetamol, levocetirizine hydrochloride, phenylephrine hydrochloride and ambroxol hydrochloride in combined tablet dosage form.

**Keywords:** Paracetamol (PCM), Levocetirizine hydrochloride (LEVO), Phenylephrine hydrochloride (PHEN), Ambroxol hydrochloride (AMB), Isocratic; RP-HPLC.

### Introduction

Paracetamol is analgesic and antipyretic chemically it is N-(4-hydroxyphenyl) acetamide. Phenylephrine hydrochloride chemically is (1R)-1-(3hydroxy-phenyl)-2-(methylamino) ethanol hydrochloride and is sympathomimetic (descongestants). Levocetirizine hydrochloride chemically 2-[2-[4-[(R)-(4 chlorophenyl)-phenylmethyl] piperazin-1yl] ethoxy] acetic acid; dihydrochloride and is antihistaminic and Ambroxol hydrochloride is chemically trans- 4-[(2-amino-3, 5





## Research Article

# Synthesis, anti-microbial and anti-oxidant activity novel triazolo-quinazolines.

NILESH KHAIRNAR<sup>1</sup>, MALLESHAPPA NOOLVI<sup>2</sup>, AVINASH PATIL<sup>\*1</sup><sup>1</sup>Department of Pharmaceutical Chemistry, S.S. Patil College of Pharmacy, Chopda, Dist. Jalgaon 425107, Maharashtra, India.<sup>2</sup>Department of Pharmaceutical Chemistry, Shree Dhanvantary Pharmacy College (SDPC), Kim (E), Surat-394110, Gujarat, India.

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Received: 28.10.20, Revised: 26.11.20, Accepted: 25.12.20

**ABSTRACT**

The synthesis of 3-[substituted-2,4 triazolyl]-2-phenithrazoline-4[3H]-one and the biological evaluation of them as anti-microbial and antioxidant agents have been recorded in the present study in an attempt to classify new groups of antifungal agents. In the series synths, antimicrobial potential against numerous bacteria, including *Staphylococcus aureus*, *Bacillus subtilis*, was evaluated for aeruginosa-pseudomonas and fungi; *Candida albicans* and *Aspergillus niger*, and chloramphenicol and amphotericin-B. Similarly, antioxidant function was also examined in these compounds with DPPH monitoring. Of the nine synthesized compounds, 7e contained an active compound against gramme positive (*S. aureus*) and gramme negative bacteria (*P. vulgaris*). Similarly, 7b (88.23 percent) and 7e (89.23 percent) showed strong anti-oxidant activity as opposed to standard ascorbic acid (94 percent).

**Keywords:** Synthesis; quinazolin-4[3H]-one; anti-microbial activity; anti-oxidant activity.**INTRODUCTION**

Because of the combination of emerging infectious diseases and a growing number of MPRs[1-4], such as *Staphylococcus aureus*, *Staphylococcus aureus* methicillin-resistant, *Streptococcus pneumoniae*, and Penicillin Resistant to vancomycin[1-4], management of infections attributable to bacteria, fungi and viruses remains a serious and overwhelming challenge. To treat bacterial infections, a wide variety of antibiotics have been developed. Bacteria become resistant to antibiotics, resulting, after years of antibiotic misuse and overuse, in a potentially global health crisis[7]. Amoxicillin, Norfloxacin and Ciprofloxacin[8] are the antibiotics most frequently used for multiple types of bacterial infections. Ideally, if this side effect and the progression of drug resistance are to be solved, new drugs should consist of chemical characteristics that distinctly vary from existing agents. Heterocycle, as a fragment of a number of drugs on the market, is one of the most important components of anti-microbial activity. In current drug discovery[9, 10], 1,2,4-triazole

pharmacological properties, including anti-cancer [13,14], anti-viral [15,16], anti-tuberculosis [17,18], anti-fungal [19,20] and anti-bacterial [21,22] activity. Various antibiotics and antiviral drugs, such as tazobactam, ravuconazole, cefatrizine, fluconazole, tavist, myleazole, valacyclovir, also have triazole mobility in the structure. In medicinal chemistry, quinazolinones and quinazolines are also known as having broad-spectrum, anti-bacterial, anti-fungal [23-28], anti-inflammatory [29,31], anti-HIV [32,33], anti-viral [32,33] and inhibitory effects on thymidylate synthase [35,36], poly[ADP-ribose] [PARP] [37-39] polymers. [23] Tuberculosis [23,34], and also anti-inflammatory medicines [29,30]. Several licenced quinazoline-structured medications, including prazosin, mesilate doxazosin and terazosin hydrochloride[42,43], have been released on the market. The careful use of the quinazolinone core to produce and synthesise new antibacterial agents has recently received significant attention[44-45]. Studies of structure-activity relationships in various literature have shown that replacement at positions 2 and 3 may improve their antimicrobial activity[46-49].

# SYNTHESIS AND BIOLOGICAL EVALUATION OF NOVEL TRIAZOLYL QUINAZOLIN-4-ONE DERIVATIVES AS ANTICANCER AGENTS

<sup>1</sup>N. S. Khairnar, <sup>2</sup>A. V. Patil, <sup>3</sup>M. N. Noolvi

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## ABSTRACT

A novel series of triazolylquinazolin-4-one derivatives have been synthesized and characterized by TLC, melting point, FT-IR, <sup>1</sup>H NMR and mass spectroscopy data. The synthesized series of title compounds were subjected for docking studies using Schrodinger Glide software, evaluated for their potential to inhibit enzyme EGFR-tyrosine kinase followed by in-vitro anticancer activity by SRB assay method on HeLa, MCF-7, A-549 cell lines. The series of compounds shows anticancer activity probably by inhibiting the enzyme EGFR-tyrosine kinase.

**KEYWORDS:** Anticancer activity, EGFR, Molecular Docking, SRB assay, Synthesis, Tyrosine Kinase, triazolylQuinazolin-4-ones.

## 1. INTRODUCTION

Cancer is a disease category in which unregulated cells in the body form, spreading between organ and other body bodies, according to the World Health Organization (WHO). In India as well as internationally, cancer is the leading cause of death. Cancer diagnosis and care remain a significant health concern in low- and middle-income countries. In several cell phases including metabolism, cell proliferation, apoptosis, and survival, tyrosine kinases are essential. Cancer is commonly observed in all ages and gender[1]. Tyrosine kinase's overexpression triggers the development of the tumour [2]. The best approach in designing modern cancer therapies is blocking tyrosine kinases. The main targets for cancer inhibition are EGFR, VEGFR, HER2, PDGFR, mTOR, HGF, FGFR [3]. Quinazolin-4-ones have a range of pharmacological potentials, including antimicrobial, antifungal, anticonvulsant, antifungal, anti-oxidant, alpha glucosidase inhibitor[4-7]. Nitrogen, which comprises five chemicals, is known as anti-Page 11 of 14  
In our current study, we have synthesised 9 replacements. TLC. Melting point.

**Review Article**

## A Systematic Review of Antiviral Drugs for the Treatment of the COVID-19 Pandemic

D S Bhagat, Meghraj Suryawanshi\*, Indranil Suryawanshi

Email: suryawanshimeghraj917@gmail.com

### Abstract

The present outbreak of Corona Virus Disease-19 (COVID-19) is a challenge to human existence and act as a threat to humanity as a whole. It spread very fast from one country to another and has now affected almost the whole world. As of now, there is no definite curative medicine for this pandemic but there is a hope of discovery of an effective treatment for this viral infection. According to scientific literature and clinical researcher, there are many antiviral drugs namely Chloroquine, Hydroxychloroquine, Remdesivir, Ribavirin, Lopinavir, Umifenovir, Favipiravir, and Dexamethasone that are prominently used in the treatment of COVID-19. This review article gives a brief idea regarding these antiviral drugs and how they are effective in this pandemic and their role in future discovery.

**Key Words:** Antiviral, COVID-19, Infection, Pandemic, Self-isolation, Virus, WHO

### Introduction

In December 2019, a group of peoples were identified as pneumonia patients in Wuhan city, Hubei, China. Among them, some had health problems like fever, cough, nausea, headache, and lung infiltration. The Chinese Centre for disease control (CCDC) found out that these health issues are related to intake of bat, snake, and marmot. The CCDC concluded that this is because of a virus which is a powerful variant of Severe Acute Respiratory Syndrome (SARS). The newly found virus was named SARS-CoV-2, and

WHO renamed it as COVID-19. COVID-19 was declared as a pandemic on 11 March 2020 by the World Health Organization (WHO).<sup>1</sup>

COVID-19 is a type of Severe Acute Respiratory Syndrome. It belongs to a virus family named coronaviridae. In medical sciences, to prevent a viral infection, antiviral drugs are prescribed for treatment. Antiviral drugs are the medicines that cure virus infection. The scientific survey states that there are many antiviral medicines which are being used for the treatment of various viruses, and such medicines are also used as a preliminary treatment for this pandemic.<sup>2</sup>

Chloroquine, Hydroxychloroquine, Favipiravir, Remdesivir, Umifenovir, Lopinavir/Ritonavir, Ribavirin, and dexamethasone are currently undergoing phases of a clinical trial to test if they are effective and safe to be used against COVID-19.<sup>3</sup>

### Antiviral drug and their role in COVID-19 treatment

**Chloroquine phosphate and Hydroxychloroquine**

**D S Bhagat<sup>1</sup>, Meghraj Suryawanshi<sup>2,\*</sup>, Indranil Suryawanshi<sup>4</sup>**

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<sup>2</sup> Department of Pharmaceutics, Shree Dhanvantary Pharmacy College, Kim, Surat, Gujarat -394110

<sup>3</sup> School of Pharmaceutical Sciences, Jaipur National University, Jaipur, Rajasthan - 302017

<sup>4</sup> Department of Forensic Chemistry and Toxicology, Government Institute of Forensic Science, Aurangabad, Maharashtra - 431004



**Review Article****COVID-19 Awareness, Prevention, Diagnosis, and Treatment: A Review**

Indranil Suryawanshi, Meghraj Suryawanshi\*, Pankaj Shirsath

Email: suryawanshimeghraj917@gmail.com

**Abstract**

The recent pandemic of Corona Virus Disease-19 (COVID-19) is a challenge to human existence and is a threat to humanity. It is spreading rapidly from one country to another and has almost affected the whole world. Currently, there is no precise treatment for this pandemic, but a hope of discovery expected from our great scientist and doctor. This article provides a brief detail regarding awareness, prevention, diagnosis, and treatment of COVID-19 pandemic and the future aspiration.

**Key words:** COVID-19, Pandemic, RT-PCR, Virus, WHO

**COVID-19 and its outbreak**

According to scientific literature, in December of 2019, a group of people were identified as pneumonia patients in Wuhan city, Hubei, China, with health issues like fever, cough, lung infiltration etc.<sup>1</sup> Chinese centre for disease control (CCDC) found out that these health issues are related to the intake of animals such bat, snake, and marmot. CCDC predicted that this is because of a virus which is a husky variant of Severe Acute Respiratory Syndrome (SARS). World Health Organization (WHO) renamed the virus SARS-CoV-2 as COVID-19.<sup>2</sup>

In the second week of January 2020, there was a COVID-19 outbreak in the Wuhan city and the Chinese government set forth for a lockdown of the

city. It was suspected as contagious and considered as an epidemic.<sup>3</sup> In the last week of January 2020, WHO declared COVID-19 a global emergency as it was spreading throughout the world and was starting to become a pandemic. All the countries were warned and the organisation tried to control the pandemic.

**History and origin**

According to literature, the first case of coronavirus was reported as unsympathetic in 1960. As claimed by the Canadian investigation in 2001, around 500 patients were recognized with a flu-like coordination, out of which, 17 to 18 cases were established as infected by coronavirus. In 2003, a few people in USA, Hong Kong, Singapore, Thailand, Vietnam, and Taiwan were diagnosed with a severe respiratory syndrome.<sup>4</sup>

**Microbiology**

Coronavirus is the family of viruses causing respiratory tract infection. They belong to order *Nidovirales* and family *Coronaviridae*. It is an unsegmented, single-stranded, positive-stranded RNA virus. It has a projection like arrangement on the outer surface, identical to a crown (in Greek "corona" means crown). They are polymorphic and circular, having dimensions 50-150 nm. The current

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