

**PRESIDENT**

**Smt. Shobhatai D. More**

Tele Fax : Ph.02564-23268 5 (R)

**NAAC Accredited Grade "B"**

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**

**2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**

### 1. Experiential learning:

#### Hands on Training and Learning:

In addition to traditional talk and chalk method college strives for innovative teaching methodologies to enrich the learning capabilities of students by adopting student centric methods like experimental learning, participative learning and problem solving methodologies. Faculty has design various experiments according to the syllabus assign by KBCNMY Jalgaon University. Practical schedule as per schedule time, through the experiments student gain practical knowledge about handling of UV-Visible spectrophotometer, Digital microscope, compound microscope, HAP Model, Laminar air flow, dissolution test apparatus, ExPharm Series software etc



  
**PRINCIPAL**

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar



www.jijamatapharmacy.edu.in

# COLLEGE OF PHARMACY

Waghoda Road, P.B.No. 4, NANDURBAR-425412 (M.S.)

DTE Code - 5407 MSBTE Code - 0200

Email- jescp.ndb@gmail.com / jescp\_ndb@yahoo.co.in

## Jijamata Education Society's

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*Ravi*  
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Project Base Learning:

Date: - 29/12/2023

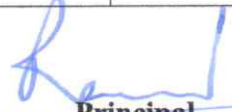
## Notice

All the Final Year B. Pharm Students are hereby informed that their Guide Allotment for the Project work is as follows. The students are informed that they should contact the respective Guide for the same.

Sr. No.	Student Name	Name of Guide	Sr. No.	Student Name	Name of Guide
01	Agrawal Shivani Ravindra	Dr. R. R. Patil	31	More Vaishnavi Rajendra	Mr. K. S. Rathi
02	Ahire Jayesh Santosh		32	Nerkar Jayshree Ratnadeep	
03	Ahire Mahesh Kailas		33	Nikam Saurav Sunil	
04	Ahire Rajvardhan Arvind	Dr. P. V. Gomase	34	Nikumbe Jagruti Raju	Ms. R. P. Patil
05	Bachhav Dipika Hiranman		35	Paradke Devashish Jamsing	
06	Chaudhari Isha Santosh		36	Patil Akshada Pramod	
07	Chaudhari Monalika C.	Dr. J. P. Gokhale	37	Patil Meghasham C.	Mr. V. V. Kalal
08	Chaudhari Om Sharad		38	Patil Rakshanda Sanjay	
09	Chaudhari Pranali Bharat		39	Pawar Jagruti Sarjerao	
10	Chavan Jayesh Narendra	Dr. I. T. Ansari	40	Pimpale Harshal Dhiraj	Mr. M. B. Kokani
11	Chavan Sunayana Karansing		41	Rajput Rajpal Devnathsing	
12	Chitte Devidas Yuvaraj		42	Ramkor Abhay Sambhaji	
13	Desale Harshal Satish	Ms. S. R. Valvi	43	Salunke Pushpanjali Jagdish	Ms. D. R. Mali
14	Gaikawad Hemant Ravindra		44	Savale Puja Sanjay	
15	Gharate Bhagyashree S.		45	Sayyed Zakwan Ali Javid Ali	
16	Javheri Sejal Manojkumar	Ms. J. J. Naik	46	Shimpi Sani Sadashiv	Ms. S. R. Valvi
17	Jaware Supriya Ravindra		47	Shinde Bharati Vitthal	
18	Khade Dhananjay Ravindra		48	Shivde Neha Sanjay	
19	Kokani Govind Hiranman	Mr. V. A. Chaure	49	Sonavane Suraj Jaydevbhai	Ms. J. J. Naik
20	Magare Kirtika Lahu		50	Sonawane Ganesh Prakash	
21	Magare Sohan Rajesh		51	Tamboli Purva Chidanand	
22	Mahajan Ajay Kantilal	Ms. M. K. Gavit	52	Thakare Chaitali Chunilal	Ms. M. K. Gavit
23	Mahajan Krunal Manohar		53	Thakare Pooja Manohar	
24	Mahajan Rahul Hilal		54	Thorat Yashdeep Suklal	
25	Mahajan Tejas Sunil	Ms. M. M. Patil	55	Valvi Jay Vinayak	Ms. M. M. Patil
26	Mahajan Vaibhavi Vilas		56	Valvi Suraj Jitendra	
27	Maheshwari Tejas R.		57	Wadile Hemlata Ramlal	
28	Mali Nishank Manoj	Mr. R. M. Kuwar	58	Patil Nayan Ravindra	Ms. R. P. Patil
29	Marathe Manish Pandurang				
30	Marathe Tejas Prakash				

  
Academic In-charge

  
IQAC Coordinator

  
Principal  
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Waghoda Road, Nandurbar



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**NAAC Accredited Grade "B"****FOUNDER PRESIDENT****Late. Dr. Dileep More****Project Base Learning****Project work Academic Year 2023-2024**

<b>Sr. No.</b>	<b>Title of Project</b>	<b>Name of Guide</b>	<b>Name of Student</b>
01	Formulation and Evaluation of Herbal Jelly for Cough and Cold	Dr. R. R. Patil	Agrawal Shivani Ravindra
02	Formulation and Evaluation of Herbal Jelly for Cough and Cold	Dr. R. R. Patil	Ahire Jayesh Santosh
03	Formulation and Evaluation of Herbal Jelly for Cough and Cold	Dr. R. R. Patil	Ahire Mahesh Kailas
04	Preparation And Evaluation of Herbal Face Scrub	Dr. P.V. Gomase	Ahire Rajvardhan Arvind
05	Preparation And Evaluation of Herbal Face Scrub	Dr. P.V. Gomase	Bachhav Dipika Hiraman
06	Preparation And Evaluation of Herbal Face Scrub	Dr. P.V. Gomase	Chaudhari Isha Santosh
07	Formulation And Evaluation of Herbal Hair Serum	Dr. J. P. Gokhale	Chaudhari Monalika Chandrashekar
08	Formulation And Evaluation of Herbal Hair Serum	Dr. J. P. Gokhale	Chaudhari Om Sharad
09	Formulation And Evaluation of Herbal Hair Serum	Dr. J. P. Gokhale	Chaudhari Pranali Bharat
10	A Comprehensive Review on Covid -19 Omicron Variant	Dr. I.T. Ansari	Chavan Jayesh Narendra
11	A Comprehensive Review on Covid -19 Omicron Variant	Dr. I. T. Ansari	Chavan Sunayana Karansing
12	A Comprehensive Review on Covid -19 Omicron Variant	Dr. I. T. Ansari	Chitte Devidas Yuvraj
13	Formulation And Evaluation of Herbal Powder Shampoo	Prof. S. R. Valvi	Desale Harshal Satish



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14	Formulation And Evaluation of Herbal Powder Shampoo	Prof. S. R. Valvi	Gaikwad Hemant Ravindra
15	Formulation And Evaluation of Herbal Powder Shampoo	Prof. S. R. Valvi	Gharate Bhagyashree Sadashiv
16	Formulation And Evaluation of Herbal Medicated Lozenges	Prof. J. J. Naik	Javheri Sejal Manoj Kumar
17	Formulation And Evaluation of Herbal Medicated Lozenges	Prof. J. J. Naik	Jaware Supriya Ravindra
18	Formulation And Evaluation of Herbal Medicated Lozenges	Prof. J. J. Naik	Khade Dhanjay Ravindra
19	Comprehensive Review of Spectro Photometric and Chromatographic Method for The Analysis of Spironolactone	Prof. V.A. Chaure	Kokani Govind Hiraman
20	Comprehensive Review of Spectro Photometric and Chromatographic Method for The Analysis of Spironolactone	Prof. V.A. Chaure	Magare Kirtika Lahu
21	Comprehensive Review of Spectro Photometric and Chromatographic Method for The Analysis of Spironolactone	Prof. V.A. Chaure	Magare Sohan Rajesh
22	Formulation And Evaluation of Herbal Tooth Powder	Prof. M.K. Gavit	Mahajan Ajay Kantilal
23	Formulation And Evaluation of Herbal Tooth Powder	Prof. M. K. Gavit	Mahajan Krunal Manohar
24	Formulation And Evaluation of Herbal Tooth Powder	Prof. M. K. Gavit	Mahajan Rahul Hilal
25	Formulation And Evaluation of Herbal Hair Oil	Prof. M. M. Patil	Mahajan Tejas Sunil
26	Formulation And Evaluation of Herbal Hair Oil	Prof. M. M. Patil	Mahajan Vaibhavi Vilas
27	Formulation And Evaluation of Herbal Hair Oil	Prof. M. M. Patil	Maheshwari Tejas R.

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28	Formulation And Evaluation of Cow Urine Soap	Prof. R.M. Kuwar	Mali Nishank Manoj
29	Formulation And Evaluation of Cow Urine Soap	Prof. R.M. Kuwar	Marathe Manish Pandurang
30	Formulation And Evaluation of Cow Urine Soap	Prof. R.M. Kuwar	Marathe Tejas Prakash
31	Formulation And Evaluation of Betel Leaf Herbal Eye Patch	Prof. K.S. Rathi	More Vaishani Rajendra
32	Formulation And Evaluation of Betel Leaf Herbal Eye Patch	Prof. K.S. Rathi	Nerkar Jayashree Ratnadeep
33	Formulation And Evaluation of Betel Leaf Herbal Eye Patch	Prof. K.S. Rathi	Nikam Saurav Sunil
34	Formulation And Evaluation of Gutika for PCOD Treatment	Prof. R. P. Patil	Nikumbe Jagruti Raju
35	Formulation And Evaluation of Gutika for PCOD Treatment	Prof. R. P. Patil	Patil Nayan Ravindra
36	Formulation And Evaluation of Gutika for PCOD Treatment	Prof. R. P. Patil	Paradke Devashis Jamsing
37	Herbal Nutraceuticals That Are Used to Treat Diseases	Pof. R. P. Patil	Patil Akshada Pramod
38	Formulation & Evaluation of Pain Relief Natural Balm by Using Herbal Extract	Prof. V.V. Kalal	Patil Meghashyam C.
39	Formulation & Evaluation of Pain Relief Natural Balm by Using Herbal Extract	Prof. V.V. Kalal	Patil Rakshanda Sanjay
40	Formulation & Evaluation of Pain Relief Natural Balm by Using Herbal Extract	Prof. V.V. Kalal	Pawar Jagruti Sarjerao
41	Clinical Trials Registered in Last Five Year for Covid -19	Prof. M.B. Kokani	Rajput Rajpal Devanthsing
42	Clinical Trials Registered in Last Five Year for Covid -19	Prof. M.B. Kokani	Pimpale Harshal Dhiraj
43	A Systemic Review on Post Covid-19 Symptoms	Prof. D.R. Mali	Salunke Pushpanjali



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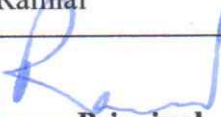
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			Jagdish
44	A Systemic Review on Post Covid-19 Symptoms	Prof. D.R. Mali	Savle Puja Sanjay
45	A Systemic Review on Post Covid-19 Symptoms	Prof. D.R. Mali	Sayyad Zakwan Ali Javid Ali
46	Formulation And Evaluation of Poly Herbal Paper Soap	Prof. S.R. Valvi	Shimpi Sani Sadashiv
47	Formulation And Evaluation of Poly Herbal Paper Soap	Prof. S.R. Valvi	Shinde Bharati Vital
48	Formulation And Evaluation of Poly Herbal Paper Soap	Prof. S.R. Valvi	Shivade Neha Sanjay
49	Formulation And Evaluation of Gutika for Arthritis Treatment	Prof. J.J. Naik	Tamboli Purva Chidanand
50	Formulation And Evaluation of Gutika for Arthritis Treatment	Prof. J.J. Naik	Sonwane Suraj Jaydevbhai
51	Formulation And Evaluation of Gutika for Arthritis Treatment	Prof. J.J. Naik	Sonwane Ganesh Prakash
52	Formulation And Evaluation of Herbal Soap by Moringa Oleifera as Main Active Constituent	Prof. M.K. Gavit	Thakare Chaitali Chunilal
53	Formulation And Evaluation of Herbal Soap by Moringa Oleifera as Main Active Constituent	Prof. M.K. Gavit	Thakare Pooja Manohar
54	Formulation And Evaluation of Herbal Soap by Moringa Oleifera as Main Active Constituent	Prof. M.K. Gavit	Thorat Yashdeep Sukalal
55	Herbal Toothpaste	Prof. M. M. Patil	Valvi Jay Vinayak
56	Herbal Toothpaste	Prof. M. M. Patil	Valvi Suraj Jitendra
57	Herbal Toothpaste	Prof. M. M. Patil	Wadile Hemlata Ramlal

  
IQAC Coordinator



  
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Industrial Learning

List of Industrial Training Report Academic Year 2023-2024

Sr No.	Name Of Student	Name Of Industry	Contact no of HR	Location
1	Agrawal Shivani Ravindra	Gelnova Laboratories Pvt. Ltd.	9764277721	Navi Mumbai
2	Ahire Jayesh Santosh	Ashtang Ayurvedic Pharmacy	9511264356	Dhule
3	Ahire Mahesh Kailas	Koral Pharma	9850730967	Nashik
4	Ahire Rajvardhan Arvind	Aculife Healthcare Pvt. Ltd.	7926839100	Ahmedabad
5	Bachhav Dipika Hiranman	Bharat Serum And Vaccine Limited	02245043456	Mumbai
6	Chaudhari Isha Santosh	Fulllife Healthcare Pvt Ltd	9420907602	Dheku Raigad
7	Chaudhari Monalika Chandrashekar	Enaltec Chemistry Pharma Pvt. Ltd	0226750700	Ambarnath
8	Chaudhari om Sharad	Ashtang Ayurvedic Pharmacy	9511264356	Dhule
9	Chaudhari Pranali Bharat	Koral Pharma	9850730963	Nashik
10	Chavan Jayesh Narendra	Geluola Laboratories Pvt Ltd	9527003213	Navi Mumbai
11	Chavan Sunayana Karansing	Shakti Herbal India	9850973824	Nashik
12	Chitte Devidas Yuvaraj	Teleios Pharma Pvt Ltd	8291974383	Navi Mumbai
13	Desale Harshal Satish	Alkem Laboratories Ltd	7620262618	
14	Gaikawad Hemant Ravindra	Geluola Laboratories Pvt Ltd	9527003213	Navi Mumbai
15	Gharate Bhagyashree Sadashiv	Koral Pharma	2532506962	Nashik
16	Javheri Sejal Manojkumar	Khandesh Ayurvedic Pharmacy	7249626369	Jalgaon
17	Jaware Supriya Ravindra	Khandesh Ayurvedic Pharmacy	7249626369	Jalgaon
18	Khade Dhananjay Ravindra	Farbe Firma	9834426256	Ankleshwar
19	Kokani Govind Hiranman	Farbe Firma	9834426256	Ankleshwar
20	Magare Krutika Lahu	Khandesh Ayurvedic Pharmacy	7249626369	Jalgaon
21	Magare Sohan Rajesh	Koral Pharma	9850730963	Nashik





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22	Mahajan Ajay Kantilal	Khandesh Ayurvedic Pharmacy	7249626369	Jalgaon
23	Mahajan Krunal Manohar	Khandesh Ayurvedic Pharmacy	7249626369	Jalgaon
24	Mahajan Rahul Hilal	Khandesh Ayurvedic Pharmacy	7249626369	Jalgaon
25	Mahajan Tejas Sunil	Koral Pharma	9850730963	Nashik
26	Mahajan Vaibhavi Vilas	Aculife Healthcare Pvt Ltd	7926839100	Ahemedabad
27	Maheshwari Tejas Rameshwar	Ashtang Ayurvedic Pharmacy	9511264356	Dhule
28	Mali Nishank Manoj	Koral Pharma	2532506962	Nashik
29	Marathe Manish Pandurang	Ashtang Ayurvedic Pharmacy	9511264356	Dhule
30	Marathe Tejas Prakash	Ashtang Ayurvedic Pharamcy	9511264356	Dhule
31	More Vaishnavi Rajendra	Blue Cross Laboratories	66638000	Nashik
32	Nerkar Jayshree Ratnadeep	Synzeal Reasearch Pvt Ltd	7575002050	Ahemedabad
33	Nikam Saurav Sunil	Aculife Healthcare	7926839100	Ahemedabad
34	Nikumbhe Jagruti Raju	Maxheal Laboratories Pvt Ltd	2267347718	Nashik
35	Paradke Devashish Jamsing	Aculife Healthcare	7926839100	Ahemedabad
36	Patil Akshada Pramod	Shakti Herbal India	9850973824	Nashik
37	Patil Meghasham Chandrakant	Koral Pharma	9850730963	Nashik
38	Patil Rakshanda Sanjay	Vadnere Laboratories	9765106135	Jalgaon
39	Pawar Jagruti Sarjerao	Aculife Healthcare	7926839100	Ahemedabad
40	Pimpale Harshal Dhiraj	Farbe Firma	9834426256	Ankleshwar
41	Rajput Rajpal Devnathsing	Farbe Firma	9834426256	Ankleshwar
42	Salunke Pushpanjali Jagdish	Aculife Healthcare	7926839100	Ahemedabad
43	Savale Puja Sanjay	Shakti Herbal India	9850973824	Nashik
44	Sayed Zakwan Ali Javid Ali	Farbe Firma	9834426256	Ankleshwar
45	Shimpi Sani Sadashiv	Ashtang Ayurvedic Pharmacy	9511264356	Dhule
46	Shinde Bharati Vitthal	Ashtang Ayurvedic Pharmacy	9511264356	Dhule
47	Shivde Neha Sajay	Koral Pharma	2532506962	Nashik

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48	Sonavane Suraj Jaydevbhai	Gelnova Labs	9764277728	Navi Mumbai
49	Sonawane Ganesh Prakash	Teleios Pharma Pvt Ltd	8308282765	Navi Mumbai
50	Tamboli Purva Chidanand	Maxheal Laboratories Pvt Ltd	2267347718	Nashik
51	Thakare Chaitali Chunilal	Medioint Lifescience Pvt Ltd	9673445000	
52	Thakare Pooja Manohar	Ashtang Ayurvedic Pharmacy	9975845460	Dhule
53	Thorat Yashdeep Suklal	Koral Pharma Pvt Ltd	9850730963	Nashik
54	Valvi Jay Vinayak	Forbe Firma	9834426256	Ankleshwar
55	Valvi Suraj Jitendra	Forbe Firma	9834426256	Ankleshwar
56	Wadile Hemlata Ramlal	Koral Pharma	2532506962	Nashik
57	Patil Nayan Ravindra	Koral Pharma	9850730963	Nashik

  
IQAC Coordinator

  
Training & Placement In-charge

  
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## 4. Participative Learning

Avishkar Participation 2023-2024

Participation in Avishkar District/ University Level

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

District Level Avishkar Registration – 2023 PHASE-I

Sr. No.	Name of Students	Title of Presentation
<b>S. Y. B. Pharm UG Category</b>		
01	Sonar Hiral Ambadas	Development of <i>In-vitro</i> model for screening of vascular Angiogenesis using Chicken Eggs <b>NUGP5- 182</b>
02	Patil Vipul Nimba,	
03	Kalyani Pramod Badgular	Preclinical Evaluation of the effect of Adult dental pulp stem cells in diabetic wound healing in wistar rats <b>NUGP5- 193</b>
04	Neha Manoj Chaudhari	
05	Mansi Vinod Chaudhari	Composite of <i>Zingiber officinale</i> (AEZO) and hydroalcoholic extract of <i>Brassica oleracea</i> (HAEO) papain induced osteoarthritis in wistar rats <b>NUGP5- 194</b>
06	Pratiksha Jagadish Marathe	
07	Om Vasant Kodag	Snake venoms use AS LIFE SAVING DRUG(Anti-venoms) <b>NUGP5- 199</b>
08	Mansi Chavan	Evaluation of Herbal blend of bio-actives for the management of Rheumatoid arthritis in wistar rats <b>NUGP5- 202</b>
09	Rutuja Marathe	
<b>T. Y. B. Pharm UG Category</b>		
10	Prachi Nandakishor Pote	ANTHELMINTIC ACTIVITY OF NYCTANTHES ARBORTRIS LEAVES ON INDIAN EARTH WORMS <b>NUGP5- 161</b>
11	Aakanksha Chandrakant Bhoi	
12	Mansi Arun Mahajan	Formulation & Evaluation of Herbal Capsule Containing Withania coagulants & Syzygium cumini for the treatment of Diabetes & wound healing <b>NUGP5- 169</b>
13	Srushti Bharat Mali	
14	Ritik Gulab Ahire	<i>In-silico</i> Molecular docking studies of Phytoconstituents found in <i>Nigella sativa L</i> against 1V4S as an Antidiabetic agent <b>NUGP5 170</b>
15	Mayur Rajmal Chavan	Preparation of herbal hair oil <b>NUGP5- 171</b>
16	Paresh Sopan Patil	
17	Nikita Ravindra Sonawane	n-silico Molecular Docking and ADMET study of selected Phytoconstituents of on OTR Receptor (6TPK) as Anti-urolithiotic Agent <b>NUGP5- 172</b>

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18	Gauri Prakash Marathe	Synthesis and Evaluation of Natural Herbal
19	Arshiya Javid Mirza	Hair dye using cocos nucifera (Cocnut Husk) <b>NUGP5- 173</b>
20	Malviya Divya Manoj	OATS MOISTURIZING SHINE Gel
21	Patil Bhumika Dilip	<b>NUGP5- 174</b>
22	Karan Vijay Marathe	Formulation and Evaluation of herbal hand wash by using natural ingredients NUGP5-175
23	Hitanshu Narottam Marathe	
24	Harshada Bharat Vasaikar	A systematic correlation between wound healing and diabetes NUGP5- 176
25	Trupti Subhash Tayade	
26	Jignesh Mahesh Sonawane	3D PRINTING IN MEDICINE: A REVOLUTION IN HEALTHCARE NUGP5- 177
27	Ketan Gopal Shintre	
28	Supriya Magan Thakrae	Determination of Soil PH and Conductivity NUGP5- 178
29	Pratiksha Santosh Thakare	
30	Khushbu Juber Tamboli	Identification of Structural Scaffold from interbioscreen (IBS) database to inhibit 3CLpro, of SARS-CoV-2 using molecular docking and dynamic simulation studies NUGP5- 180
31	Khushi Jay Shinde	
32	Wani Aayush Vijay	FREEZE DRYING OF PARENTAL PRODUCTS NUGP5- 181
33	Sonar Nilesh Chudaman	
34	Patil Sagar Vinayak	Formulation and Evaluation of Face Serum Containing Curcumin Extract and Alovera Gel NUGP5- 183
35	Pardeshi Virendra Rajemdrasing	
36	Diksha Sunil Bramhane	FORMULATION AND EVALUATION OF HERBAL HAND SANITIZER GEL FROM ORGANO OIL NUGP5- 184
37	Chetana Anandrao Karankal	
38	Vaibhav Kalyan Patil	Formulation, Development and Evaluation of Antifungal Betel Leaf Polyherbal Soap NUGP5 185
39	Nilesh Prabhakar Patil	
40	Ajay Pravin Gurav	DEVELOPMENT AND EVALUATION OF HERBAL HAIR OIL NUGP5- 186
41	Dhruv Vilas Somvanshi	
42	Saloni Prabhakar Ishi	Formulation and Evaluation of Herbal Hair Colorant Oil NUGP5- 187
43	Bhagyashri Sanjay Pawar	
44	Neha Jagdish Pursnani	Formulation and Evaluation of Floating Herbal Tablet in Treatment of Peptic Ulcer NUGP5- 188
45	Gayatri Shubhash Pardeshi	
46	Kanishka Jayendra Ahire	PHARMACEUTICAL EXCIPIENTS FROM AGRICULTURAL WASTE PRODUCT NUGP5- 189
47	Pooja Digamber Chavan	
48	Ms. Gitanjali N. Patil	Formulation and Evaluation of Mucoadhesive Buccal Patch of Gingerol NUGP5- 156
49	Ms. Priyanka R. Marathe	

IQAC Coordinator




Principal



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Final Year B. Pharm UG Category		
50	Sejal Manojkumar Javheri	Swiss albino mice treated with a combination of bioactive extracts showed antidepressant action <b>NUGP5- 190</b>
51	Chaitali Chunilal Thakare	
52	Shivani Ravindra Agrawal	Preparation and Evaluation of hair spray for treatment of Sanjay Shinde scalp psoriasis <b>NUGP5- 192</b>
53	Hemangi Sanjay Shinde	
54	Jayshree R Nerkar	Evaluation of herbal composite (HC) for its activity against Anti-Cancer drug (Cyclophosphamide) induced hepatotoxicity in wistar Rats <b>NUGP5- 217</b>
55	Vaishnavi R More	
56	Shimpi Sani Sadashiv	FORMULATION AND EVALUATION OF METRONIDAZOLE OPHTHALMIC IN-SITU GEL IONIC GELATION TECHNIQUE <b>NUGP5- 179</b>
57	Marathe Manish pandurang	
58	Tejas Prakash Marathe	Formulation and Evaluation of Herbal Shampoo <b>NUGP5- 205</b>
59	Jayesh Santosh Ahire	

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

**District Level Avishkar Registration – 2023 PHASE-I**

Sr. No.	Name of Participants	Title of Presentation
<b>TH Category</b>		
01	Ms. Manisha Manilal Patil	Development and Validation of A HPLC Analytical Assay Method for Sunitinib Capsule <b>NPPGP5- 235</b>
02	Ms. Rina P. Patil	Hepatosselective GK Activator to treat Type-2 Diabetes Mellitus without causing Hypoglycemia <b>NPPGP5- 236</b>

IQAC Coordinator



Principal

**PRINCIPAL**  
Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar

**JES**

www.jijamatapharmacy.edu.in

**Jijamata Education Society's**

# COLLEGE OF PHARMACY

Waghoda Raod, P.B.No. 4, NANDURBAR-425412 (M.S.)

DTE Code - 5407 MSBTE Code - 0200

Email- jescp.ndb@gmail.com / jescp\_ndb@yahoo.co.in

**PRESIDENT**

**Smt. Shobhatai D. More**

Tele Fax : Ph.02564-232685 (R)

**NAAC Accredited Grade "B"**

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**



**IQAC Coordinator**

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*Handwritten signature*  
Principal

**PRINCIPAL**

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar

**लोकमत**

**आविष्कार स्पर्धेत जिजामाता बी. फार्मसीचे यश**

लोकमत न्यूज नेटवर्क  
नंदुरबार : शहादा येथील वसंतराव नाईक महाविद्यालय व क्वथित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ जळगाव यांच्या संयुक्त विद्यमाने झालेल्या जिल्हास्तरीय आविष्कार २०२२ स्पर्धेत येथील जिजामाता औषधनिर्माणशास्त्र महाविद्यालयातील विद्यार्थिनीनी यश मिळविले.

या स्पर्धेत जिजामाता औषधनिर्माणशास्त्र महाविद्यालयातील विद्यार्थिनी रोहिणी मुरलीधर कोळी, तुप्ती सुरेश कानखडे व निकीता सोनवणे यांनी उत्कृष्ट पोस्टर प्रदर्शन केले. या विद्यार्थिनींची विद्यापीठस्तरावर आविष्कार स्पर्धेसाठी निवड झाली आहे. यशस्वी विद्यार्थ्यांचे जिजामाता शिक्षण संस्थेच्या अध्यक्षा शोभा दिलीपराव

मोरे, उपाध्यक्ष डॉ. विक्रान्त मोरे, सचिव डॉ. अभिजित मोरे, महाविद्यालयाचे प्राचार्य डॉ. आर. आर. पाटील, डॉ. पी. व्ही. गोमासे, डॉ. जे. पी. गोखले, प्रा. आय. टी. अन्सारी, प्रा. जे. जे. नाईक, प्रा. एम. के. गावित, प्रा. व्ही. ए. चौर, प्रा. एम. एम. पाटील, प्रा. के. एस. राठी, प्रा. आर. एम. कुंवर, प्रा. आर. पी. पाटील, प्रा. व्ही. व्ही. कलाल व कर्मचाऱ्यांनी कौतुक केले.

Hello Nandurbar  
Page No. 4, Oct 30, 2022

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

**University Level Avishkar Registration – 2023 PHASE-II**

**KBCNMU, JALGAON**

Sr. No.	Shortlisted Participants	Title of Presentation
<b>Third &amp; Final Year B. Pharm UG</b>		
01	Prachi Nandakishor Pote	ANTHELMINTIC ACTIVITY OF NYCTANTHES ARBORTRIS LEAVES ON INDIAN EARTH WORMS NUGP5- 161
02	Aakanksha Chandrakant Bhoi	
03	Gitanjali Nana Patil	Formulation and Evaluation of Mucoadhesive Buccal Patch of Gingerol NUGP5- 156
04	Priyanka Rakesh Marathe	
05	Gauri Prakash Marathe	Synthesis and Evaluation of Natural Herbal Hair dye using cocos nucifera (Coconut Husk) NUGP5- 173
06	Arshiya Javid Mirza	
07	Karan Vijay Marathe	Formulation and Evaluation of herbal hand wash by using natural ingredients NUGP5- 175
08	Hitanshu Narottam Marathe	
09	Patil Sagar Vinayak	Face Containing Curcumin Extract and Alovera Gel NUGP5- 183
10	Pardeshi Virendra Rajemdrasing	
11	Shivani Ravindra Agrawal	Preparation and Evaluation of hair spray for treatment of scalp psoriasis NUGP5- 192
12	Hemangi Sanjay Shinde	
Ms. Rina P. Patil		<b>Team Leader Phase – II</b>
Mr. M. B. Kokani		<b>Team Leader Phase – II</b>

IQAC Coordinator



Principal  
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**Late. Dr. Dileep More**



*[Signature]*  
IQAC Coordinator



*[Signature]*  
**Principal**  
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**Late. Dr. Dileep More**

## Activity Report-2023-24

**Title of Activity/Event:** Guest Lecture On Life Style Management And Cardiac Disease

**Date(s):**05/10/2023

**Time:** 10:00 am to 11:00 am

**Venue:** Jijamata Education Society's College of Pharmacy, Nandurbar

**In Charge of Activity:** Dr. J. P. Gokhale

**Objective of Activity:** Awareness about the life style management and cardiac diseases


**No. Of Students Participated:** 54

**Description of Events:** On 05/10/2023 we have conducted the guest lecture on life style management and cardiac disease. We invited Cardiologist Dr. Prasad Andhare as resource person. They guide about life style management and cardiac diseases and give information about cardiovascular diseases, its preventive measures to maintain a good and healthy lifestyle. The main aim of this day was to shatter barriers and empower individuals to control of their well being.

**Outcome of Events:** Students know about signs and symptoms of cardiac diseases to avoid further complication to make healthy life style to completely enjoy the highest standard of physical health.

**Photo:**



  
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**News:**

**लोकमत**

## जिजामाता बी.फार्मसीमध्ये आरोग्याबाबत मार्गदर्शन

लोकमत न्यूज नेटवर्क  
नंदुरबार : शहरातील जिजामाता शिक्षण संस्थेच्या औषधनिर्माणशास्त्र महाविद्यालयात झालेल्या कार्यक्रमात विद्यार्थ्यांना मार्गदर्शन करण्यात आले. यावेळी डॉ. प्रसाद अंधारे यांनी मार्गदर्शन केले. ते म्हणाले की, बदलत्या जीवनशैलीमुळे आपल्या आयुष्यात अनेक समस्या निर्माण झाल्या आहेत. रक्तदाब, मधुमेह, हृदयविकार, सांधेदुखी, मानसिक ताणतणाव अशा प्रकारचे आजार वाढू लागले आहेत. या आजारांशी कसा मुकाबला करावा, याबाबत त्यांनी विद्यार्थ्यांना मार्गदर्शन केले. रोजच्या जीवनचक्रात विमान अर्धा तास व्यायाम करा. जंक फूड, चायनीज पदार्थ आहारातून दूर करा. शक्यतो हिरव्या पालेभाज्या खा, धूम्रपान

टाळावे. पाश्चात्य देशात जंक फूड खाण्यामुळे जो आघात होत आहे, तो भविष्यात आपल्या भारतात येऊ नये, यासाठी सर्वांनी काळजी घेणे आवश्यक असल्याचे त्यांनी सांगितले.  
कार्यक्रमास महाविद्यालयाचे प्राचार्य डॉ. आर. आर. पाटील, डॉ. पी. व्ही. गोमासे, डॉ. सी. जयंती गोंखले, प्रा. ललित शहा, प्रा. व्ही. एम. वोरसे, डॉ. आय. टी. अन्सारी, प्रा. सरोज वाळवी, प्रा. जयश्री नाईक, प्रा. मनीषा गावित, प्रा. विनोद चौर, प्रा. मनीषा पाटील, प्रा. किशोर राठी, प्रा. राजेश कुवर, प्रा. रीना पाटील, प्रा. विशाल कलाल, प्रा. मनेश कोकणी, प्रा. दीपाली माळी, प्रा. राहुल गांगुर्डे, प्रा. भाग्यश्री मोरे, प्रा. विनीता मराठे यांच्यासह कर्मचारी व विद्यार्थी उपस्थित होते.

**दिलीप मराठी**

धुळे सिटी 09-10-2023

## बदलत्या जीवनशैलीमुळे शहरी जीवनात आल्या अनेक समस्या

औषध निर्माण शास्त्र महाविद्यालयात डॉ. प्रसाद अंधारेचे प्रतिपादन

**प्रतिनिधी | नंदुरबार**

बदलत्या जीवनशैलीमुळे आपल्या शहरी आयुष्यात अनेक समस्या निर्माण झाल्या आहेत. ज्यामुळे अस्वस्थतेचे असे रक्तदाब, मधुमेह, हृदयविकार, सततले सांधेदुखी, मानसिक ताणतणाव व अशा प्रकारचे आजार वाढू लागले आहे, असा आजारही कसा मुकाबला करावा, याबाबत डॉ. प्रसाद अंधारे कॉलेजोर्नालमध्ये यांनी जिजामाता शिक्षण संस्थेच्या औषध निर्माण शास्त्र महाविद्यालयात आयोजित एका कार्यक्रमात विद्यार्थ्यांना मार्गदर्शन करताना केले.  
या वेळी मंचावर महाविद्यालयाचे प्राचार्य डॉ. आर. आर. पाटील हे होते. ते पुढे म्हणाले

रोजच्या जीवन चक्रात रोज किमान अर्धा तास व्यायाम जंक फूड चायनीज पदार्थ आहारातून दूर करा. शक्यतो हिरव्या पालेभाज्या खा. धूम्रपान टाळावे. पाश्चात्य देशात जंक फूड खाण्यामुळे जो आघात होत आहे तो भविष्यात आपल्या भारतात येऊ नये त्यासाठी काळजी घेणे आवश्यक आहे. डॉ. पी. व्ही. गोमासे, डॉ. जयंती गोंखले, प्रा. ललित शहा, प्रा. व्ही. एम. वोरसे, डॉ. आय. टी. अन्सारी, प्रा. सरोज वाळवी, प्रा. जयश्री नाईक, प्रा. मनीषा गावित, प्रा. विनोद चौर, प्रा. मनीषा पाटील, प्रा. किशोर राठी, प्रा. राजेश कुवर, प्रा. रीना पाटील, प्रा. विशाल कलाल, प्रा. मनेश कोकणी, प्रा. दीपाली माळी, प्रा. राहुल गांगुर्डे, प्रा. भाग्यश्री मोरे, प्रा. विनीता मराठे उपस्थित होते.



*Rand*  
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**PRESIDENT**

**Smt. Shobhatai D. More**  
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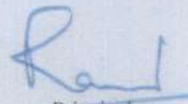


Date:- 04/10/2023

**Notice**

All the students of are hereby, informed that, our college is arranging guest lecture on life style management and cardiac disease for Awareness about signs and symptoms of cardiac diseases to avoid further complication to make healthy life style to completely enjoy the highest standard of physical health on 05/10/2023 at J.E.S's College of Pharmacy, Nandurbar .

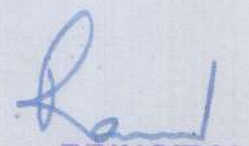
All should note the same & present for the Guest Lecture.

  
Principal

Dr. R. R. Patil  
**PRINCIPAL**

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar



  
**PRINCIPAL**

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar

**Jijamata Education Society's College of Pharmacy, Nandurbar****Attendance**Name of Activity :- Guest Lecture on Life style management  
and cardiac disease

Date :- 5/10/2023

Venue :- JES's college of pharmacy Nandurbar

Year :- 2023-24

Sr. No.	Name of Students	Signature
1)	Dhiraj Anil Chaudhari	
2)	Prayush Anil Sawney	
3)	Chetan Bhagwat Sagar	
4)	Bayaan Rehman Shaikh Shakir	
5)	Bagate Shubham Dilip	
6)	Agawal Sujal Manish	
7)	Gita Khadka valvi	
8)	Priya Virsing valvi	
9)	Divyangi Shivram Valvi	
10)	Yashvi Mangesh Desai	
11)	Chaudhari Neha Manoj	
12)	Bodgayan Kalyani Pramod	
13)	Chaudhari Mansi Vinod	
14)	Ansh Vinayak Valvi	
15)	Chaudhari Radhika Mayur	
16)	Rutuja Prakash Morathe	
17)	Rupai Sunesh Bhai	
18)	Borase Sayali Gokul	
19)	Mansi Premendra Patil	
20)	Aakanksha Pundarikand mandlik	
21)	Mansi Vijay Chavan	
22)	Purva Chidanand Tamle	
23)	Jagruti Raju Nikumbe	
24)	Dr. Vasant Kedar	
25)	Kumbhar Girish Gopichand	
26)	Deshmukh Jitendra Saurabh	
27)	Borindra Jalsing Todavi	



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**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**

**Jijamata Education Society's College of Pharmacy, Nandurbar**

**Attendance**

Name of Activity :- Guest Lecture on Life style management and cardiac disease

Date :- 5/10/2023

Venue :- JES's College of Pharmacy Nandurbar

Year :- 2023-24

Sr. No.	Name of Students	Signature
28)	Niranjan Galyanarayan Bhamare	Bhamare
29)	Dipraj Anand Karpurkar	Dipraj
30)	Ahire Rajvardhan Arvind	Rajvardhan
31)	Salunke Pushpanjali Jagdish	Salunke
32)	Mali pranali shahaji	Mali
33)	Patel Ashwini Krishana	Patel
34)	Mali Ruchita Bhagwan	Mali
35)	disha Yogesh Mishra	Mishra
36)	Jatwan Sayyed	Jatwan
37)	Ade Tejswini kiran	Ade
38)	Nikita Ashok Ahire	Ahira
39)	Harshita Jitankumar Ahire	Ahira
40)	Dipali Totiram Bhal	Bhal
41)	Sayali Aatmanam Bhoi	Sayali
42)	Jaguthi Hemant Lad	Lad
43)	Kalyani Tibhau Deshmukh	Kalyani
44)	Archana Anandadas Gavit	Archana
45)	Vinod Krishnarao Patil	Patil
46)	Nandana Bhikaji Padui	Padui
47)	Hemanshu Vinod kumar	Hemanshu
48)	Divya Rajesh Bari	Divya
49)	Kanchana Prabhakar Prabhakar	Kanchana
50)	Divya Dnyaneshwar Borane	Divya
51)	Patil Purnima Pravin	Patil
52)	Ajay Pravin Ghorav	Ajay
53)	Dheev-Vilas Somavanshi	Dheev
54)	Rohit Bhagvan Bedekar	Bedekar



*[Signature]*  
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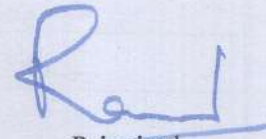
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All should note the same & present for the Guest Lecture.



  
Principal

Dr. R. R. Patil  
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**PRESIDENT**

**Smt. Shobhatai D. More**

Tele Fax : Ph. 02564 - 232685 (R)

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**

Ref. No. -Jes/Cop/

Date :-

To,  
**Dr. Prasad Andhare**  
MD, Cardiologist,  
Andhare Clinic Nandurbar.

Sub :- Acknowledging your Guest Lecturer on life style management and cardiac disease....

Respected Sir,

I take privilege to thank you for your valuable time in giving the lecture on life style management and cardiac disease on date 05/10/2023, Student found the lecture very beneficial with respective health awareness, I am Sure of further co-operation for such lecture in future and our association.

Thanking You....

Yours Sincerely

**Dr. R. R. Patil**

**PRINCIPAL**

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Waghoda Road, Nandurbar



## PRESIDENT

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Tele Fax : Ph.02564-232685 (R)

## FOUNDER PRESIDENT

Late. Dr. Dileep More

## Activity Report- 2023-2024

**Title of activity/ event:** Hands on training on UV-VIS spectrophotometer

**Date:** 05-12-2023

**Time:** 03.00 pm – 5.00 pm

**Venue:** JES's college of Pharmacy, Nandurbar

**In-charge of activity:** Dr. J. P. Gokhale

**Resource person:** Mr. Rinkesh Modi, Technician, Systronics (India) LTD., Ahmedabad, Gujarat.

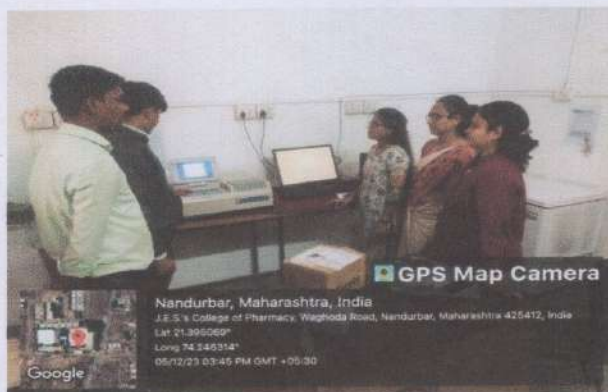
**Objective of activity:** Demonstration of software and hands on training on UV-VIS spectrophotometer to the faculty members

**No. of faculty members participated:** 15

**Description of event:** The College has organized hands on training programme for the faculty members in the college. The aim behind the programme was to give demonstration of software and hands on training to the faculty members. The resource person was Mr. Rinkesh Modi, Technician, Systronics (India) Ltd., Ahmedabad. In this programme, information about instrumentation and working of UV-VIS spectrophotometer was given. The demonstration of software and hands on training was also given. All the teaching and non-teaching staff have collectively put their efforts under the leadership of co-coordinator Dr. J. P. Gokhale and made the programme successful.

**Outcome of the activity:** The faculty members were made aware about software and instrument handling.

## Photo:



*Kam*  
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Jijamata Education Society's  
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Waghoda Road, Nandurbar





**PRESIDENT**

**Smt. Shobhatai D. More**  
Tele Fax : Ph.02564-232685 (R)

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**



**PRESIDENT**

**Smt. Shobhatai D. More**  
Tele Fax : Ph. 02564 - 232685 (R)

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**

Ref. No. -Jes/Cop/ 6125A/2023-24

Date :- 05/12/2023

To,  
**Mr. Rinkesh Modi**  
Technician,  
Systronics (India) Ltd.  
Gujarat, M.S.

**Subject:** Acknowledgment for conducting hands on training on UV-VIS spectrophotometer

Respected sir,

I take privilege to thank you for sharing your valuable time in conducting the one day workshop/hands on training on UV-VIS spectrophotometer on date 05-12-2023, for the faculty members of our institute.

The faculty members found the training very beneficial and important for their studies and development. I am sure of further cooperation for such workshop in future and our association.



*[Signature]*  
**Principal**

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar



*[Signature]*  
**PRINCIPAL**

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar



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Jijamata Education Society's

**COLLEGE OF PHARMACY**

Waghoda Road, P.B.No.4, NANDURBAR - 425 412 (M.S)

DTE Code - 5407 MSBTE Code -0200

email : jescp\_ndb@yahoo.co.in / jescp.ndb@gmail.com

**PRESIDENT**

**Smt. Shobhatai D. More**

Tele Fax : Ph. 02564 - 232685 (R)

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**

Ref. No. -Jes/Cop/ 6125A/2023-24

Date :- 05/12/2023

To,  
**Mr. Rinkesh Modi**  
Technician,  
Systronics (India) Ltd.  
Gujarat, M.S.

**Subject:** Acknowledgment for conducting hands on training on UV-VIS spectrophotometer

Respected sir,

I take privilege to thank you for sharing your valuable time in conducting the one day workshop/hands on training on UV-VIS spectrophotometer on date 05-12-2023, for the faculty members of our institute.

The faculty members found the training very beneficial and important for their studies and development. I am sure of further cooperation for such workshop in future and our association.



**Principal**

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar

**PRESIDENT**

**Smt. Shobhatai D. More**

Tele Fax : Ph.02564-232685 (R)

NAAC Accredited Grade "B"

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**

**Activity Report: 2023-24**

**Title of Activity/Event:** Field Visit at Rakaswada PHC Hospital

**Date(s):** 31/01/2024

**Time:** 10:00 am to 12:00 pm

**Venue:** PHC Hospital, Rakaswada.

**In Charge of Activity:** Mr. Vinod A. Chaure

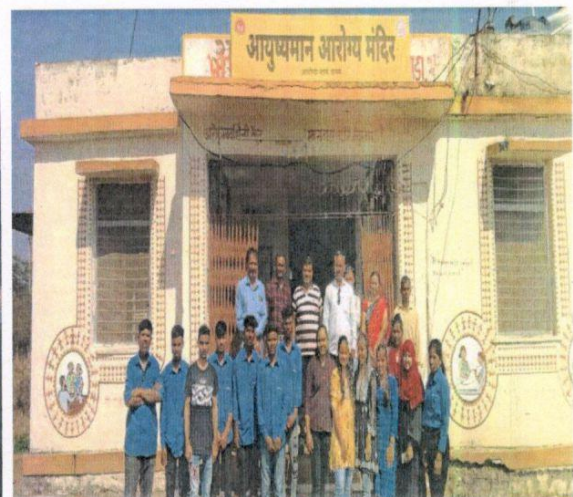
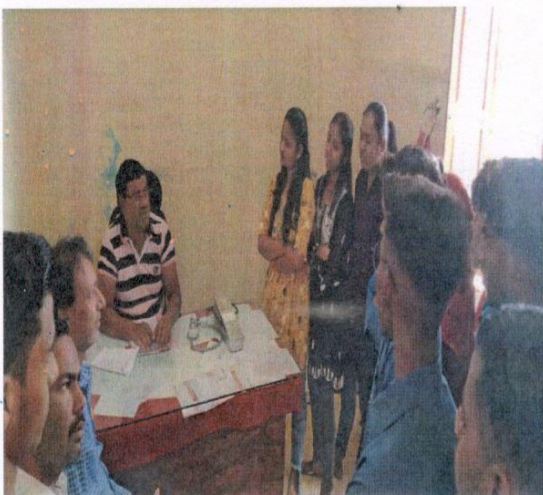
**Objective of Activity:** To promote awareness among the students about functionaries involved in Health and Hospital Management.

**No. of Students Participated:** 24

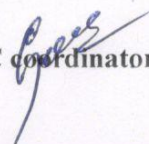
**Description of Events:** Jijamata Education Society's College of Pharmacy, Nandurbar organized one day Hospital visit for students. 24 students visited to Rakaswada PHC Hospital under the guidance of Mr. Vinod A. Chaure. During this visit training, students received information related to different functionaries and also discussed their working Principle in health and Hospital management. Also disused primary treatments and their medication.


**Outcome of Events:** Students understood working Principle and functionaries involved in Hospital management.

**Photo:**



IQAC coordinator



  
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Waghoda Road, Nandurbar



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Jijamata Education Society's

# COLLEGE OF PHARMACY

Waghoda Raod, P.B.No. 4, NANDURBAR-425412 (M.S.)

DTE Code - 5407 MSBTE Code - 0200

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**PRESIDENT**

**Smt. Shobhatai D. More**

Tele Fax : Ph.02564-232685 (R)

**NAAC Accredited Grade "B"**

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**



Jijamata Education Society's  
College of Pharmacy, Nandurbar.  
At Post: Waghoda Shivar, Tal. & Dist: Nandurbar 425412



Date: 30/01/2024

### Notice

All the students are hereby informed that, Institute is going to organize "Field Visit at Rakaswada PHC Hospital" on 31<sup>st</sup> Jan 2024 at 10:00 AM.

Supporting staff:

1) Mr. V. A. Chaur

2) Ms. M. M. Patil

3) Mr. M. B. Kokani

*[Handwritten signatures of supporting staff]*

*[Handwritten signature of Principal]*  
Principal

IQAC *[Handwritten signature]* Coordinator

*[Handwritten signature of Principal]*  
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**Late. Dr. Dileep More**

**Letter**

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**FOUNDER PRESIDENT**  
Late. Dr. Dileep More

NAAC Accredited "B" Grade

Ref No. Jes / cop / /2023-2024

Dt.10/01/2024

प्रति,  
मा.वैद्यकीय अधिकारी,  
प्राथमिक आरोग्य केंद्र,  
राकसवाडा, ता.जि. नंदुरबार

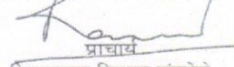
विषय - रुग्ण समुपदेशनासाठी परवानगी मिळणेबाबत...

महोदय,

आमच्या जिजामाता शिक्षण संस्थेचे औषधनिर्माणशास्त्र महाविद्यालयातील विद्यार्थ्यांना रुग्ण समुपदेशन या विषयावर प्रकल्प तयार करावयाचा आहे. तरी कृपया आम्हांस त्यासाठी परवानगी व तुमच्या सोयीनुसार दिनांक व चेठ द्यावा, ही विनंती.

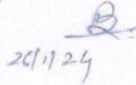
कळावे...

अप्रीता विश्वासू,




प्राचार्य  
जिजामाता शिक्षण संस्थेचे  
औषधनिर्माणशास्त्र महाविद्यालय,  
नंदुरबार, ता.जि. नंदुरबार

MOFHL  
Rakswada

  
20/1/24

  
IQAC Coordinator

  
PRINCIPAL

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar





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COLLEGE OF PHARMACY

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PRESIDENT

Smt. Shobhatai D. More

Tele Fax : Ph.02564-232685 (R)

NAAC Accredited Grade "B"

FOUNDER PRESIDENT

Late. Dr. Dileep More

### Activity Report: 2023-24

**Title of Activity/Event:** Field Visit at Civil Hospital 2024

**Date(s):** 28/02/2024

**Time:** 10:00 am to 12:00 pm

**Venue:** Civil Hospital, Nandurbar

**In Charge of Activity:** Mr. Vinod A. Chaure

**Objective of Activity:** To promote awareness among the students about functionaries involved in Health and Hospital Management.

**No. of Students Participated:** 34

**Description of Events:** Jijamata Education Society's College of Pharmacy, Nandurbar organized one day Hospital visit for students. 34 students visited to Civil Hospital under the guidance of Mr. Vinod A. Chaure. During this visit training, students received information related to different functionaries and also discussed their working Principle in health and Hospital management.

**Outcome of Events:** Students understood working Principle and functionaries involved in Hospital management.

**Photo:**

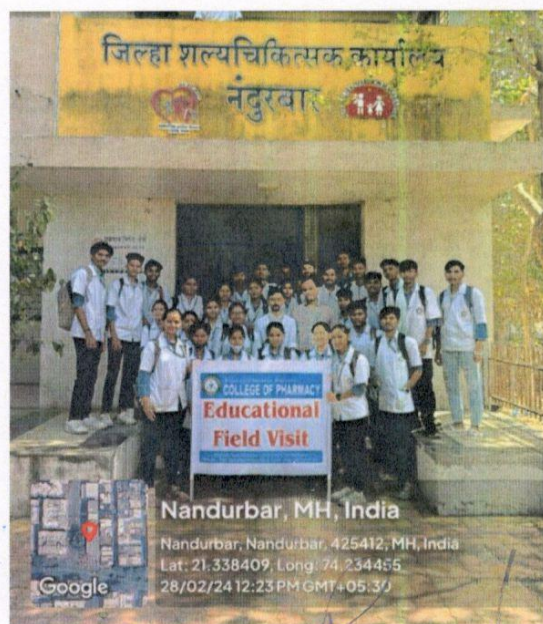


Nandurbar, MH, India

Nandurbar, Nandurbar, 425412, MH, India

Lat: 21.338135, Long: 74.234716

28/02/24 12:09 PM GMT+05:30




Nandurbar, MH, India

Nandurbar, Nandurbar, 425412, MH, India

Lat: 21.338409, Long: 74.234455

28/02/24 12:23 PM GMT+05:30

IQAC Coordinator

  
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Waghoda Road, Nandurbar





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Jijamata Education Society's

COLLEGE OF PHARMACY

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NAAC Accredited "B" Grade

FOUNDER PRESIDENT

Late. Dr. Dileep More

Ref No. Jes / cop / 1738 / 2023-2024

Dr.10/01/2024

प्रति,  
मा.जिल्हा शल्य चिकित्सक सो.,  
जिल्हा रुग्णालय,  
नंदुरबार, ता.जि. नंदुरबार

विषय - रुग्णालय भेटीसाठी परवानगी मिळणेबाबत.

महोदय,

आमच्या जिजामाता शिक्षण संस्थेतील औषधनिर्माणशास्त्र महाविद्यालयातील विद्यार्थ्यांना रुग्णालयातील वेगवेगळे विभाग, Drug Distribution, औषध भंडार या विषयांवर प्रत्यक्ष कृतीशील माहिती घ्यावयाची आहे. तरी कृपया आपण सोयीनुसार कुठलाही एक दिवस आमच्या विद्यार्थ्यांना भेटीसाठी परवानगी द्यावी, ही विनंती.

कळावे...



आपला विश्वासू,

जिजामाता शिक्षण संस्था संचालित  
औषधनिर्माणशास्त्र महाविद्यालय,  
नंदुरबार, ता.जि. नंदुरबार

Patil (P.o.)  
Received  
26/1/24

IQAC Coordinator

PRINCIPAL  
Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar



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# COLLEGE OF PHARMACY

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## Jijamata Education Society's

**PRESIDENT**

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NAAC Accredited Grade "B"

**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**

News

## पुण्य नगरी

### जिजामाता औषधनिर्माणच्या विद्यार्थ्यांनी जिल्हा रुग्णालयाला दिली भेट



नंदुरबार: जिजामाता शिक्षण संस्थेच्या औषधनिर्माणशास्त्र महाविद्यालयातील विद्यार्थ्यांनी जिल्हा सामान्य रुग्णालय येथे शैक्षणिक भेट दिली. यावेळी जिल्हा शल्य चिकित्सक डॉ. जे.ए. पाडवी यांच्या मार्गदर्शनाखाली औषधनिर्माण अधिकारी चुनकर यांनी विद्यार्थ्यांना औषध भांडारसह विविध विभागातील तंत्रज्ञानाविषयी माहिती दिली. तसेच रुग्णांनीदेखील विद्यार्थ्यांनी संवाट साधल्या

यावेळी महाविद्यालयातील विद्यार्थी-विद्यार्थिनी तसेच प्रा.एल.जी.शहा, प्रा.व्ही.एम.बोरसे, प्रा.आर.बी.गंगुडे, प्रा.भाग्यश्री मोरे, प्रा.विनिता मराठे, प्रा.दिग्विजय पाटील उपस्थित होते

Smart Nandurbar Edition  
Mar 17, 2024 Page No. 4  
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Jijamata Education Society's

College of Pharmacy, Nandurbar.

At Post: Waghoda Shivar, Tal. & Dist: Nandurbar 425412



Date: 27/02/2024

### Notice

All the students are hereby informed that, Institute is going to organize "Field Visit at Civil Hospital, Nandurbar" on 28<sup>th</sup> Feb 2024 at 11:00 AM.

Supporting staff:

- 1) Mr. V. A. Chaure
- 2) Ms. M. M. Patil
- 3) Mr. M. B. Kokani

*(Handwritten signatures of supporting staff)*

*(Handwritten signature of Principal)*  
Principal

**PRINCIPAL**

IQAC coordinator

Jijamata Education Society's  
College of Pharmacy  
Waghoda Road, Nandurbar



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# COLLEGE OF PHARMACY

Waghoda Raod, P.B.No. 4, NANDURBAR-425412 (M.S.)

## Jijamata Education Society's

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Tele Fax : Ph.02564-232685 (R)

NAAC Accredited Grade "B"

**FOUNDER PRESIDENT**

Late. Dr. Dileep More

### Attendance:

Jijamata Education Society's College of Pharmacy, Nandurbar.MS

Attendance

Name of Activity: Field visit at civil Hospital

Academic Year: 2023-24

Date: 28/02/2024

Venue: Civil Hospital, Nandurbar.

Sr. No	Name of Students/ Staff	Signature
01	Amale Nilesh Arun	
02	Birle Vaibhav Vivek	
03	Ishar Mahesh Dnyaneshwar	
04	Bhavesh Jyesh Patil	
05	Phamare Jaydip Anuman	
06	Shinde Kushal Manoj	
07	Chavre Surita Subhendra	
8	Ahine Kavishka Jayendra	
9	Ahinson Manojit Komal Singh	
10	Bani Mitali Resant Kumar	
11	Makhe Anuraj Prakash	
12	Murza Anshya Javir	
13	Bagul Jagruti Jotising	
14	Jagruti Ramkesh Jagde	
15	Pratiksha Darshu Anant	
16	Anjusha Mahesh Shinde	
17	Abhiksha Arjun Shirsath	
18	Aakunsha Kulkarni Salunke	
19	Hirad Ambekar Sonar	
20	Chaudhari Neha Manoj	
21	Kalyani Premod Padgajal	
22	Chaudhari Manoj Vinod	
23	Dhiraj Anil Chaudhari	
24	Om Vasant Kadam	
25	Patil Pratik Subhendra	
26	Patil Pooja Harin	
27	Sonar Nilesh Chinadaman	
28	Somvanshi Dhruv Vilas	
29	Gurav Ajay Pravin	

IQAC Coordinator  Principal

IQAC Coordinator

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Waghoda Road, Nandurbar







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**Smt. Shobhatai D. More**

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**FOUNDER PRESIDENT**

**Late. Dr. Dileep More**

**Publication:**

**Name of Supervisor: Dr. Pravin Vasant Rao Gomase**

**Name of Students:** Harshada Vasant Birhade , Girish Chhagan Bhadane, Archana Shalik Bramahane

**Class: Final Year B. Pharm**

**Title: FORMULATION AND EVALUATION OF MUCOADHESIVE BUCCAL PATCH OF GINGEROL**

**ABSTRACT**

Oral mucosal drug delivery system is widely applicable as novel site for administration of drug for immediate and controlled release action by preventing first pass metabolism. Ginger is a complex substance consisting of more than 60 compounds. Ginger is a popular herb for its culinary and medicinal value. Ginger is antiemetic by multiple mechanisms, ginger ethanolic extraction acted by inhibiting central and peripheral muscarinic and histamine-1 receptors, 5-HT<sub>3</sub> receptor antagonist. Buccal patches were prepared with Gingerole with polymers such as Hydroxy Propyl Methyl Cellulose in a respective solvent such as Ethanol with Propylene glycol as the plasticizer and Sorbitol Liquid as sweetening agent. Buccal patches were successfully formulated by solvent casting technique with several concentrations of polymers and those prepared patches were characterized in terms of film thickness, film weight, color, surface texture, folding endurance, surface pH, swelling behavior and percentage of moisture loss.

**Keyword:** Ginger, Antiemetic, Gingerol, Mucoadhesive Buccal Patch

**INTRODUCTION**

Traditional Indian medicine is one of the oldest medical sciences in the world. Ayurveda, the most widely used system in traditional Indian medicine, emphasizes holistic medicine, which takes the body, mind, and spirit as a whole. It is based on the principle that human beings achieve physical, mental, and emotional health through harmonious coexistence with nature.<sup>1</sup>

Oral mucosal drug delivery system is widely applicable as novel site for administration of drug for immediate and controlled release action by preventing first pass metabolism and enzymatic



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Late. Dr. Dileep More

degradation due to GI microbial flora. Oral mucosal drug delivery system provides local and systemic action. The buccal mucosa lines the inner cheek, and buccal formulations are placed in the mouth between the upper gingivae (gums) and cheek to treat local and systemic conditions.<sup>2</sup>

In comparison to the skin, the buccal mucosa offers higher permeability and faster onset of drug delivery; whereas the key features which help it score over the other mucosal route, the nasal delivery system, include robustness, ease of use, and avoidance of drug metabolism and degradation.<sup>2</sup>

In comparison to TDDS, mucosal surfaces do not have a stratum corneum. Thus, the major barrier layer to transdermal drug delivery is not a factor in oral mucosal routes of administration. Hence oral mucosal systems exhibit a faster initiation and decline of delivery than transdermal patches.<sup>2</sup>

Ginger (*Zingiber officinale* Roscoe) belongs to the family *Zingiberaceae* and genus *Zingiber*. Other names of ginger are African ginger, Black ginger, Cochin ginger, GanJiang, Gegibre, Ingwer, Jamaican Ginger, and Race ginger.<sup>3</sup>

Ginger is an integral part of ayurveda, the traditional medicine of India, and is known as sunthi in Ayurveda. It was also used as a digestive aid and antinausea remedy and to treat bleeding disorders, rheumatism, baldness, toothache, snakebite, and respiratory conditions.<sup>3</sup>

Ginger is a complex substance consisting of more than 60 compounds. The ginger rhizome contains an essential oil and resin known collectively as oleoresin. The composition of the essential oil varies according to the geographical origin, but the chief constituents are sesquiterpene hydrocarbons, which are responsible for the characteristic aroma. Gingerole is the main phenolic compound and once degraded gives shogaols, zingerone, and paradol.<sup>3</sup>

Ginger (rhizome of *Zingiber officinale*) is a popular herb for its culinary and medicinal value. The pungent principles are gingerol, shogaol, zingerone and paradol. [6]-Gingerol and [6]-Shogaol are the major active components for ginger's pharmacological effects and pungency respectively.<sup>4</sup>

Ginger has been used since antiquity both as a spice and as a herbal medicine to treat a variety of primarily gastrointestinal ailments, such as nausea, vomiting (emesis), diarrhea, and dyspepsia, and also diverse ailments, including arthritis, muscular aches, and fever., ginger capsules have been available in UK for more than 40 years as a remedy for motion sickness and as a



carminative. The rhizome of ginger contains a wide variety of biologically active secondary metabolites. The rhizome comprises 1%–4% of volatile oils and an oleoresin.<sup>5</sup>

Herbal medicines have been shown to be effective antiemetics, and among the various plants studied, the rhizome of *Zingiber officinale*, commonly known as ginger, has been used as a broad-spectrum antiemetic in the various traditional systems of medicine for over 2000 years. Various preclinical and clinical studies have shown ginger to possess antiemetic effects against different emetogenic stimuli.<sup>6</sup>

## MATERIAL AND METHODS

### Chemical and Equipments:

Ethanolic extracts of Ginger, Hydroxy Propyl Methyl Cellulose (HPMC), Propylene glycol, Ethanol, Sorbitol liquid were used and several equipments employed in the formulation of herbal patches were, Petridish, Electronic balance, Beaker, Stirrer, Gravimetry Bottle, Funnel, Water Bath.

### Plant Material:

The ginger rhizome was purchased from local market of Nandurbar. The material were cleaned & dried under shade & then placed in oven at 20-40 °C. The dried rhizomes were weighed and stored in desiccators.

### Isolation of Gingerol from Ginger:

Dry ginger was crushed to a coarse powder and extracted with 95% ethanol by simple maceration process. Solvent was evaporated by distillation to obtain thick pasty mass. The thick pasty mass was suspended in water. The Ginger resin precipitates in water which was removed by filtration and the residue obtained was dried under vacuum.<sup>7</sup>

### Preparation of Mucoadhesive Buccal Patches:

The technique employed for preparing mucoadhesive buccal patches was solvent casting technique. They were prepared by dissolving several concentrations of HPMC polymers such as 150mg, 300mg and 500mg in 5ml of ethanol and calculated amount of the ginger extract (40mg) was dissolved in another 5ml of ethanol and this mixture was added to the polymer mixture followed by the addition of 0.5ml of sweetening agent. Then 0.5ml of the plasticizer was added



to all formulations. Then they were transferred to a petridish and allowed to dry under room temperature by placing a funnel in an inverted position over the petridish for 48 hours. After that all the patches were studied for further characterizations.<sup>7</sup> Composition of all patches is shown in Table 1.

**Table 1: Composition of Mucoadhesive Buccal Patches**

Sr. No	Ingredients	F1	F2	F3
1	Ginger Extract	40mg	40mg	40mg
2	Hydroxy Propyl Methyl Cellulose	600mg	300mg	150mg
3	Ethanol	10ml	10ml	10ml
4	Propylene Glycol	0.5ml	0.5ml	0.5ml
5	Sorbitol Liquid	0.5ml	0.5ml	0.5ml

**Characterizations of formulated Mucoadhesive Buccal patches<sup>7</sup>**

✓ **Patch weight:**

All patches were weighed on a digital weighing balance and their weights were noted.

✓ **Patch thickness :**

Film thickness was measured using vernier callipers from all sides at different position and the average value was noted.

✓ **Surface texture :**

Surface texture of all the patches were noted by touching the surface of the films.

✓ **Colour :**

Colour of all the formulated patches was noted visually and they were reported finally.

✓ **Folding endurance :**

Folding endurance of buccal patches was determined by folding each patch at the same place repeatedly until it breaks. Number of times the patches can be folded until it breaks gives the value of folding endurance and the average value was noted

✓ **Surface pH :**



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Patches of 1 cm<sup>2</sup> each were allowed to swell in 2% agar solution in a clean, dry petridish for two hours consecutively. Surface pH of patches was determined by placing pH paper on the surface of patches

✓ Swelling behavior :

Each patches of size (1 cm x 1cm) was cut and their initial weight was noted. Then they were allowed to swell for 5 min in 20 ml of distilled water. Patches were than taken out, dried and weighed. Percentage of swelling was noted using the following formula:

Swelling Index (SI) = Final weight - Initial weight/Initial weight x 100

✓ Percentage Moisture Loss (PML) :

All patches of size 1 cm x 1 cm was initially weighed. They were placed in a dessicator containing Calcium chloride and the internal humidity was maintained. After 72 hours, all patches were collected back and reweighed. Average value was noted using the following formula:

Percentage Moisture Absorption (PML) = Initial weight - Final weight/Initial weight x 100

RESULTS AND DISCUSSION:

Table 2(a): Characterizations of Mucoadhesive Buccal Patches

Sr.no	Formulation	Patch Weight	PatchThickness	Surface Texture	Colour
1	F1	0.04±001mg	0.10mm	Smooth	Yellow
2	F2	0.04±0.01mg	0.09mm	Smooth	Yellow
3	F3	0.02±0.01mg	0.08mm	Smooth	Yellow

✓ Patch weight :

Overall patches weights were found in the range of 0.02 to 0.04 mg

✓ Patch thickness :

Patch thickness were found in the Range of 0.10-0.08 mm



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✓ **Surface texture:**

Surface texture were found to be smooth for all the patches.

✓ **Colour:**

Colour of all the patches were uniformly found to be yellow.

✓ **Folding endurance:**

Folding endurance of all the patches were found to be flexible exceptionally F2 was less flexible than F1 & F3

✓ **Surface pH :**

Surface pH of all the patches were found almost neutral i.e 7-8.

✓ **Swelling behavior :**

Overall swelling index of all the patches were found to be negligible.

✓ **Percentage Moisture Loss (PML) :**

Percentage of moisture loss were found to be for F1 50% and F2 , F3 75%

**Table 2(b): Characterizations of Mucoadhesive Buccal patches**

Sr. No	Formulation	Folding endurance	Surface pH	Swelling behavior	Percent moisture loss
1	F1	**	7	2.5%	50%
2	F2	*	7	Negligible	75%
3	F3	**	7	Negligible	75%

\*Flexible \*\*Very flexible

**CONCLUSIONS:**

Ginger extract loaded mucoadhesive buccal patches were successfully formulated by several concentrations of Hydroxy Propyl Methyl Cellulose (HPMC) polymers and with propylene glycol plasticizer and with an organic solvent ethanol and were characterized. From this novel approach, it can be concluded that herbal drugs in the form of extracts can also be employed in formulating mucoadhesive patches in contrast with the usage of allopathic drugs in accordance with their appropriate concentrations and doses.



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May be concluding that F1 containing Polymer HPMC was observed in preparation of mucoadhesive buccal patch of ginger extract (Gingerol). So the F1 has good polymer concentration to carry the mucoadhesive drug delivery of herbal constituent gingerol, in which is isolated from *Zingiber officinale*.

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**REFERENCES:**

1. Yushi, Chao Zhang, Xiaodong Li, Traditional medicine in India, Journal of Traditional Chinese Medical Science (2021) 551-553.
2. Bhati Radha and Raja K. Nagrajan. A detailed review on oral mucosal drug delivery system. International Journal of pharmaceutical sciences and research 3.3 (2012): 659.
3. Neeru Bhatt, Mostafa I. Waly, Mohamed M Essa, and Amanat Ali. Ginger: A functional herb.
4. Anant Ali, Anwarul Hassan Gilani. A Medicinal Value of ginger with focus on its use in nausea and vomiting of pregnancy
5. The Effectiveness of Ginger in the Prevention of Nausea and Vomiting during Pregnancy and Chemotherapy Inaki Lete and Jose Allue
6. Palatty PL, Haniadka R, Valder B, Arora R, Baliga MS. Ginger in the prevention of nausea and vomiting: a review. Crit Rev in Food Sci Nutr. 2013;53(7):659-69
7. Dr. Gaikwad DD, Shinde Sachin K, Kawade Ashwini V, Dr. Jadhav SJ and Dr. Gadhave MV Isolation and standardization of gingerol from ginger rhizome by using TLC, HPLC, and identification tests The Pharma Innovation Journal 2017; 6(2): 179-18