



# KRUPANIDHI COLLEGE OF PHARMACY

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

**Experiential Learning**



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### STUDENT CENTRIC LEARNING METHODS

#### MODEL PREPARATION & PRESENTATION

The outcome-based education is articulated idea of what students are expected to know and be able to do, that is, what skills and knowledge they need to have, basically involves understanding, analysing and also what contribution they can give to the society out of their education. Here in Krupanidhi we inspire the students to be a part of various competent activities such as model making.



Model presentation competition held on world Pharmacist day 2020



*[Signature]*  
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Model concept in covid awareness 2020

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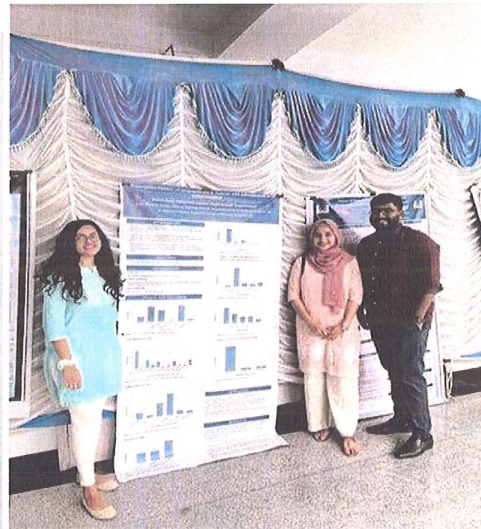
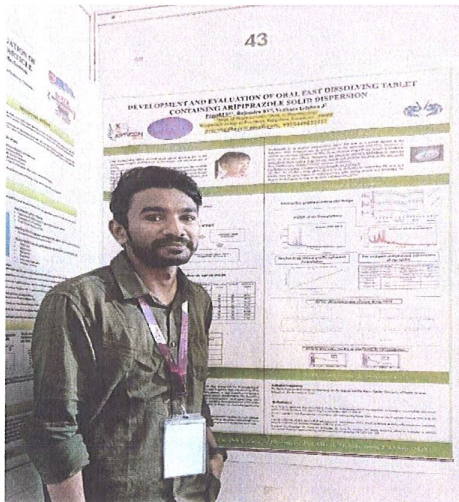
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### POSTER PRESENTATIONS

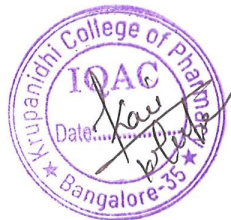
Krupanidhi College of pharmacy conducts 'International level conference 'Krupacon' and students of B.Pharm and M. Pharm are encouraged to present the short term research works, PG research work respectively and Pharm D students are encouraged to present their final year project work. In addition to this, students are motivated to participate and present their research work in various national and international level conferences.



Pharm D student at poster presentation in Krupacon 2019 Ms. Rumana Receiving best poster award



Students with their APTICON and MS Ramaiah University 2020



*C. K. Ramya*  
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### HANDS ON LEARNING (LABORATORY EXPERIMENTS)

As a part of curriculum enrichment gets opportunity to familiar with various laboratory instruments and hands on experience on operating methods. Students gets exposure on operations of IR Spectrometer, freeze dryer, Spray dryer, Tablet machines, dissolution test apparatus etc



Students on hands on training of IR spectrometer



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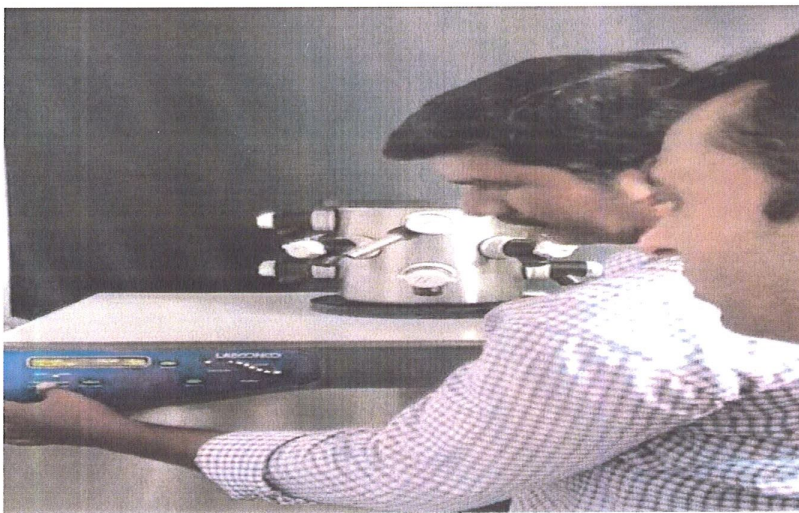


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**A Practical demo and hands on for the use of autoanalyser**



**Handn on operation of Freeze dryer**



*C. Srinivas*  
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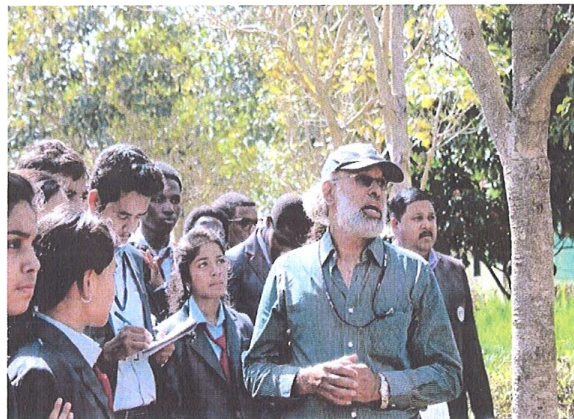
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### INDUSTRIAL TRAINING / INDUSTRIAL VISITS

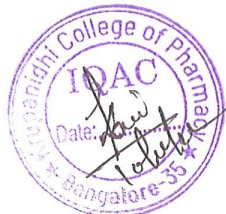
The gap exists between the academia and industry is managed by frequent visits to the industry which helps the students to understand various aspects of manufacturing, quality control, warehousing etc. And also, students are given chance to visit industries such as GKVK to have exposure to medicinal plants, and its preservation. The theoretical aspects of all these deliberated in the syllabus prescribed by RGUHS



An industrial visit to Himalaya drugs by M. Pharm students 2016-17



Final year B. Pharm Students in a visit to GKVK, Bangalore 2016-17

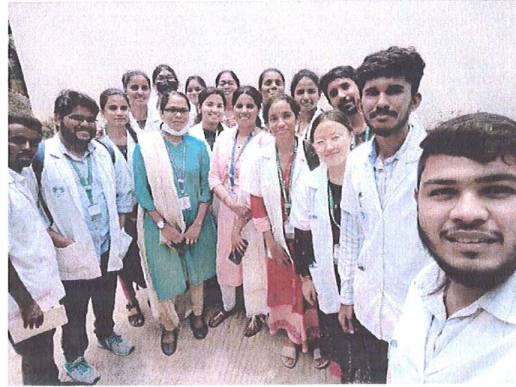


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An industrial visit by M.Pharm to Stabicon life sciences Ltd 2020



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### STUDENT ASSIGNMENTS

Assignments are part of credit-based system of syllabus and students are instructed to submit assignments from each unit of the course for each semester and a total of 5 marks are assigned for the same, which will be added to the internal assessment.

  
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KRUPANIDHI COLLEGE OF PHARMACY

NAME : RACHANA.C.

CLASS : 5<sup>th</sup> Sem B. PHARM

ROLL NO : 19P2217

SUBJECT : Industrial Pharmacy - I

TOPIC : COSMETICS



*Rachana C.*  
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### SUNSCREENS:

**Principle:** The purpose of sunscreen preparations is to minimize the harmful effects of sunburn.

Suntanning agents are those sunscreens which absorb a minimum of 85% ultra violet radiations of wavelength of 290-320nm, but transmits if exceeds 320nm and produce a light transient tan.

The plough cooperation to determine the relative effectiveness of sun-screen agents to protect the skin is known as sun protective factor (SPF)

SPF Value = Minimum erythema dose for protected skin (MEDP) / Minimum erythema dose for unprotected skin (MEDU)

**Ideal properties:**

- Resistant to water
- Be stable to heat, light and perspiration
- Be non-toxic, non-irritant, non-sensitizing.

Formula:

Formula 1

Glyceryl p-aminobenzoate	3.0%
Propylene glycol nicotinate	8.0%
Glycerin	10.0%
Alcohol	60.0%
Purified water to make	100.0%
Perfume and colour	q.s



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### SHAMPOO:

**Principle:** Shampoos are one which are designed to provide sufficient cleansing power to get adequate foam, to remove the oil from the hair is left with natural gloss, soft and in manageable conditions

**Ideal properties:**

- It should have a pleasant fragrance.
- It should be non-toxic and non-irritant to skin and eyes.
- It should be easily removable on rinsing of hair.

### Formula:

Formula - 1

Sodium lauryl sulfate (30%)	30% w/w
Fatty acid allanolate	2.0% w/w
PEG glycol 100 distearate	4.0% w/w
Magnesium stearate	2.5% w/w
Oleyl alcohol	0.75% w/w
Deionized water	60.75% w/w
Perfume, preservatives, colour	q.s



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### TOOTH PASTES:

**Principle:** These are preparations intended for use with a toothbrush for the purpose of cleaning the accessible surfaces of the teeth. In addition to enhancing personal appearance by maintaining cleaner teeth brushing with tooth paste, reduces tooth decay, helps maintain healthy gingiva, and reduce intensity of mouth odours. Good dental health increases the possibility of good general health.

**Ideal properties:**

- It must adequately clear teeth of stain, food debris and plaque.
- It should be non-toxic
- It must improve gums health.
- It must reduce teeth decay
- It should not damage tooth enamel because of its abrasiveness
- Must be easy to use
- Must remove bad odour of mouth cavity.



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After mixing flavours and detergents are added.  
In this method heat is not employed.

One must establish that binder can be adequately swelled during the mixing process of uniform paste with desired consistency.

Uses: • They promote oral hygiene

• It is an abrasive that aids in removing dental plaque and food from teeth, assists in suppressing halitosis.

2  
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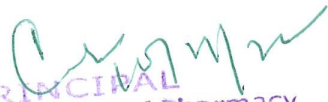
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### Practice school

As a part of VII SEM.B. Pharm Program, students must undergo practice school for 12 h per week. The students are giving option to choose the subjects of choice and they will be placed under the respective school under the guideship of respective faculty department wise. Once the complete practice school program is over, they should produce a report of the work they have carried out



  
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### A COMPREHENSIVE STUDY ON CURRENT CONCEPTS OF QA IN PHARMACEUTICAL INDUSTRY AND PHARMACEUTICAL PRODUCT DEVELOPMENT

**Project Report**

*Submitted by*

**KOGILESHWARIS**

**18P0485**

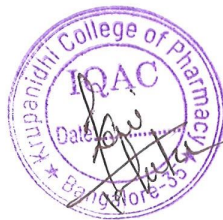
**BACHELOR OF PHARMACY**

**Practice School – Pharmaceutical Quality Assurance**



**KRUPANIDHI COLLEGE OF PHARMACY  
CHIKKABELLANDUR, CARMELARAM POST,  
VARTHUR HOBLI, BENGALURU-560035  
KARNATAKA, INDIA**

**2022**



*C. S. Srinivas*  
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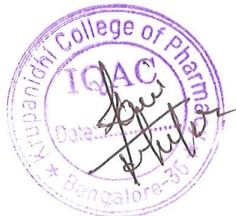
**Dr Kavitha AN**  
Professor,  
Krupanidhi College of Pharmacy  
Bengaluru  
Karnataka– 560035

#### CERTIFICATE

This is to certify that the Project report entitled “A COMPREHENSIVE STUDY ON CURRENT CONCEPTS OF QA IN PHARMACEUTICAL INDUSTRY AND PHARMACEUTICAL PRODUCT DEVELOPMENT” is a bonafide work of **Kogileshwari.S** (Roll No. 18P0485), Student of VII Semester B Pharm, Krupanidhi College of Pharmacy who carried out research under my co-supervision.

Signature of the Research Supervisor

Station: Bangalore  
Date:



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### CASE STUDY LEARNING

Students of Pharm D program has a vital role in health care field. The theoretical knowledge imbibed during their 5 years of their study period can be translated to the wellbeing of the human kind. Case studies are in depth details of a particular case and in this context, they are the record of clinical interactions which help the clinicians to preparer rigorous analysis of patient health status. This includes all historical backgrounds such as past, present social backgrounds and also allergic reactions etc. The students collect cases on case sheets subjects the cases to subjective objective analysis in accordance with the treatment guidelines prescribed. Case studies increases the participation learning in an enjoyable atmosphere. It brings innovative ideas, critical thinking and improves clinical outcomes.

  
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### PATIENT MEDICATION HISTORY INTERVIEW FORM

#### KRUPANIDHI COLLEGE OF PHARMACY

DEPARTMENT OF PHARMACY PRACTICE

Case No.

Chikka Bellandur, Carmelaram Post, Varthur Hobli, Bangalore-35

#### PATIENT DETAILS

Name: Mrs. X      IP no.: 511098      Date of admission: 22/01/2021  
Age: 80 years      Gender: Female  
Social status (marital status, number of kids): Married with 3 children  
DOB: 05/05/1940      Height: 156 cm      Weight: 45 kg  
Pregnancy Status: Not pregnant      Allergies: No allergy reported  
Address: ABC

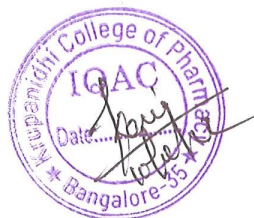
#### PRESCRIPTION MEDICATION HISTORY

Name/ strength	Directions	Start Date	Stop Date	Physician
TELMISARTAN (40 mg) + HYDROCHLOROTHIAZIDE (12.5 mg)	PO 1-0-0	2 years back	On medication	XYZ

**MEDICAL HISTORY:** Have you or any blood relative had (mark all that apply).

Self      Family members

High blood pressure



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Heart disease  
Stroke  
Lung Disease  
Asthma  
Diabetes  
Kidney disease  
Mental illness  
Depression  
Substance abuse  
Cancer  
Other

**Self medication practice:** Check conditions for which you have used a non-prescription medication.

- |                    |   |                        |
|--------------------|---|------------------------|
| > Headache         | ✓ | Diarrhea               |
| > Eye/ear problems |   | Hemorrhoids            |
| > Cold /flu        | ✓ | Muscles/ joint pain    |
| > Allergies        |   | Rash /itching/dry skin |
| > Sinus            |   | Heart burn / GI upset  |
| > Cough            |   | Vitamins               |
| > Sleeplessness    |   | Herbal products        |
| > Drowsiness       |   | Organic products       |
| > Weight loss      |   | Other                  |

### OVER-THE COUNTER MEDICATION HISTROY

Name/ strength	Directions	Purpose	How often	Effectiveness
ACETAMINOPHEN (650 mg)	PO SOS	Headache. cold, fever	Once/twice in times of headache/fever	Headache & fever gets cured



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### Social History

Please indicate your tobacco, alcohol, caffeine and dietary habits

Nicotine use: Current user:  Past User:  Never used:

\_\_\_\_\_ Packs per day for \_\_\_\_\_ years

Stopped \_\_\_\_\_ year(s) of age

Alcohol consumption: Current user:  Past User:  Never used:

### Occasional/social drinker:

\_\_\_\_\_ ml per day for \_\_\_\_\_ years

Stopped \_\_\_\_\_ year(s) of age

### DIET:

Veg:  Non-Veg:

Number of meals per day: 3 meals per day

Any Food restrictions (Y/N): No

If yes, explain:

### Other Information/ Comments:

K/C/O HTN X 2 years

Pharmacist Name with Signature

ABHIRAMI EBV

Date

29/01/2021

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Pharm D student Collecting patient history as a part of case studies



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Pharm D students collecting patient history as a part of case studies



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### CLINICAL POSTING (INTERNSHIP)

Clinical posting is essential part of Pharm D program. Students as a group on rotation will get adequate exposure to various departments in hospital which helps them to understand and solely handle clinical challenges.

### MVJ MEDICAL COLLEGE AND RESEARCH HOSPITAL

Dandupalya Village, Kolathur Post, NH-75, Hosakote Taluk, Bengaluru Rural District- 562114

No: MVJMC & RH/MSO/2021-22/Krupanidhi/199

27.12.2021

To,  
The Prof & HOD  
Dept. of OBG  
MVJ MC & RH

Sir / Madam,

This is to inform you that the following Pharm D Interns (6<sup>th</sup> Year) for academic year 2021-2022 from Krupanidhi College of Pharmacy would be posted in the OBG Department for clinical activities.

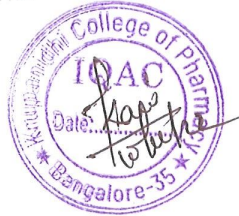
I request you to kindly permit them for ward rounds. The Interns details are as per the list enclosed.

**Copy with Compliments to:**

The Chairman, MVJ MC & RH,  
The Chief Executive Officer, MVJ MC & RH  
The Principal, MVJ MC & RH

**Copy to:**

- 1) Nursing Superintendent
- 2) Dr. Beulah Milton, Professor  
Krupanidhi College of Pharmacy  
DIC In-Charge and Preceptor  
MVJ Medical College & Research Hospital  
Hoskote.



Medical Superintendent  
27/12/21  
Medical Superintendent,  
MVJ MC & RH  
Hoskote, Bangalore

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12/1, CHIKKA BELLANDUR, CARMELARAM POST, VARTHUR HOBLI, BANGALORE - 560 035

### OBG Department

The following are the details of Interns from Krupanidhi College for academic year 2021-2022

Sl.No.	Names	Duration of Month	Duration (Monday to Saturday)	Year of Student
01	SUBHIKSHA. V	Two	27.12.2021 to 26.02.2022	6 <sup>th</sup> year
02	TRIVENI L	Two	27.12.2021 to 26.02.2022	6 <sup>th</sup> year
03	PHARIDA THUBRU	Two	27.12.2021 to 26.02.2022	6 <sup>th</sup> year
04	ELIZABETH JACOB	Two	27.12.2021 to 26.02.2022	6 <sup>th</sup> year
05	THENDRAL. R	Two	27.12.2021 to 26.02.2022	6 <sup>th</sup> year
06	PAVAN. M	Two	27.02.2022 - 26.04.2022	6 <sup>th</sup> year
07	PAVAN N	Two	27.02.2022 - 26.04.2022	6 <sup>th</sup> year
08	RAJESH KUMAR DUTTA	Two	27.02.2022 - 26.04.2022	6 <sup>th</sup> year
09	SIDHARTH	Two	27.02.2022 - 26.04.2022	6 <sup>th</sup> year
10	LANISH WILSON	Two	27.02.2022 - 26.04.2022	6 <sup>th</sup> year
11	MAHAMMAD ASIR.M	Two	27.02.2022 - 26.04.2022	6 <sup>th</sup> year
12	ABHIRAMI EBY	Two	27.08.2022-26.10.2022	6 <sup>th</sup> year
13	ELEENA BIJO	Two	27.08.2022-26.10.2022	6 <sup>th</sup> year
14	ELSA JACOB	Two	27.08.2022-26.10.2022	6 <sup>th</sup> year
15	MERLIN MARY SABU	Two	27.08.2022-26.10.2022	6 <sup>th</sup> year
16	SHIJI JOHN	Two	27.08.2022-26.10.2022	6 <sup>th</sup> year
17	SHYNO ABRAHAM	Two	27.08.2022-26.10.2022	6 <sup>th</sup> year
18	ARATHI	Two	27.10.2022-26.12.2022	6 <sup>th</sup> year
19	B.DEFRIA ZENETH	Two	27.10.2022-26.12.2022	6 <sup>th</sup> year
20	MAMILLAPALLY LOUKYA	Two	27.10.2022-26.12.2022	6 <sup>th</sup> year
21	AKHIL ARUN	Two	27.10.2022-26.12.2022	6 <sup>th</sup> year
22	BULLA KARUNYA	Two	27.10.2022-26.12.2022	6 <sup>th</sup> year

  
Medical Superintendent  
MVA MO 3 / RH  
Bangalore, Bangalore



  
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### MVJ MEDICAL COLLEGE AND RESEARCH HOSPITAL

Dandupalya Village, Kolathur Post, NH-75, Hosakote Taluk, Bengaluru Rural District- 562114

No: MVJMC & RH/MSO/2021-22/Krupanidhi/003

01.01.2022

To,  
The Prof & HOD  
Dept. of General Medicine, Ophthalmology, Orthopaedics,  
Dermatology, Paediatrics, ENT  
MVJ MC & RH

Sir / Madam,

This is to inform you that the following Pharm D Students (5<sup>th</sup> Year) for academic year 2021-2022 from Krupanidhi College of Pharmacy would be posted to your departments for clinical activities.


I request you to kindly permit them for ward rounds. The students details are as per the list enclosed.


**Copy with Compliments to:**

The Chairman, MVJ MC & RH,  
The Chief Executive Officer, MVJ MC & RH  
The Principal, MVJ MC & RH

**Copy to:**

- 1) Nursing Superintendent
- 2) Dr. Beulah Milton, Professor  
Krupanidhi College of Pharmacy  
DIC In-Charge and Preceptor  
MVJ Medical College & Research Hospital  
Hoskote.

  
Medical Superintendent  
01/01/22  
Medical Superintendent  
MVJ MC & RH  
Hoskote, Bangalore

  
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REF.:NO:MVJMC&RH/MSO/2022/Krupa/

01.01.2022

### POSTING ORDER

#### POSTING OF 5TH PHARM D STUDENTS OF KRUPANIDHI COLLEGE OF PHARMACY

Batch No	Sl.No.	Name of the Student	Departments	Posting Date
BATCH I	1	ABID RAZA	GENERAL MEDICINE	04.01.2022 - 28.02.2022
	2	BENISON BINNY	OPHTHALMOLOGY	01.03.2022 - 30.04.2022
	3	DAFNEY VIOLA SEQUEIRA	ORTHOPEDECS	01.05.2022 - 30.06.2022
	4	RUMANA KHATUJA	DERMATOLOGY	01.07.2022 - 31.08.2022
	5	DEEPIKA KARKI	PEDIATRICS	01.09.2022 - 31.10.2022
	6	SUIKRITI SHARMA	ENT	01.11.2022 - 31.12.2022
	7	NAMEERAH JAVED		
BATCH II	8	GANTA ALEX KUMAR	ENT	04.01.2022 - 28.02.2022
	9	VEDLA HRIDAY KAMAL	GENERAL MEDICINE	01.03.2022 - 30.04.2022
	10	MEGHANA M R	OPHTHALMOLOGY	01.05.2022 - 30.06.2022
	11	UDIT SAGAR	ORTHOPEDECS	01.07.2022 - 31.08.2022
	12	KANIVI JULITTA	DERMATOLOGY	01.09.2022 - 31.10.2022
	13	KELHOUKHRIENUO SUOKHRTE	PEDIATRICS	01.11.2022 - 31.12.2022
BATCH III	14	C L RAMDINPUH	OPHTHALMOLOGY	04.01.2022 - 28.02.2022
	15	PARASH PAMEGAM	ORTHOPEDECS	01.03.2022 - 30.04.2022
	16	TEENA ROSE D C	DERMATOLOGY	01.05.2022 - 30.06.2022
	17	SANDHYA B	PEDIATRICS	01.07.2022 - 31.08.2022
	18	LALRINFELI PACHUAU	ENT	01.09.2022 - 31.10.2022
	19	ANJALI VIJAY MENON	GENERAL MEDICINE	01.11.2022 - 31.12.2022
BATCH IV	20	AMEENA SADAF H S	ORTHOPEDECS	04.01.2022 - 28.02.2022
	21	SIMRAN KHANUM	DERMATOLOGY	01.03.2022 - 30.04.2022
	22	HARSHA C K	PEDIATRICS	01.05.2022 - 30.06.2022
	23	ATHULYA ABRAHAM	ENT	01.07.2022 - 31.08.2022
	24	RASHMI N Y	GENERAL MEDICINE	01.09.2022 - 31.10.2022
	25	BHUVANESHWARI A	OPHTHALMOLOGY	01.11.2022 - 31.12.2022
BATCH V	26	SAVITHA M	DERMATOLOGY	04.01.2022 - 28.02.2022
	27	HEMASRI V	PEDIATRICS	01.03.2022 - 30.04.2022
	28	THEJAS YADAV K N	ENT	01.05.2022 - 30.06.2022
	29	MEGAN ELITA D SA	GENERAL MEDICINE	01.07.2022 - 31.08.2022
	30	MEGHANA G	OPHTHALMOLOGY	01.09.2022 - 31.10.2022
	31	SRUTHI VEMANA	ORTHOPEDECS	01.11.2022 - 31.12.2022

Medical Superintendent

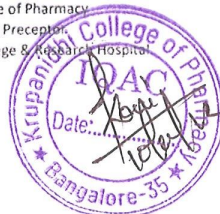
Medical Superintendent  
MVJ MC & RH  
Hoskote, Bangalore

c.c. to The Chairman, MVJMC & RH - for information only  
The CEO, MVJMC&RH -do-  
The Principal, MVJMC&RH -do-

Copy to HODs - General Medicine, Dermatology, Pediatrics  
ENT, Ophthalmology, Orthopedics, Nursing Superintendent

Copy to: Nursing Supdt.

Dr. Beulah Milton, Professor  
Krupanidhi College of Pharmacy  
DIC In-Charge and Preceptor  
MVJ Medical College & Research Hospital  
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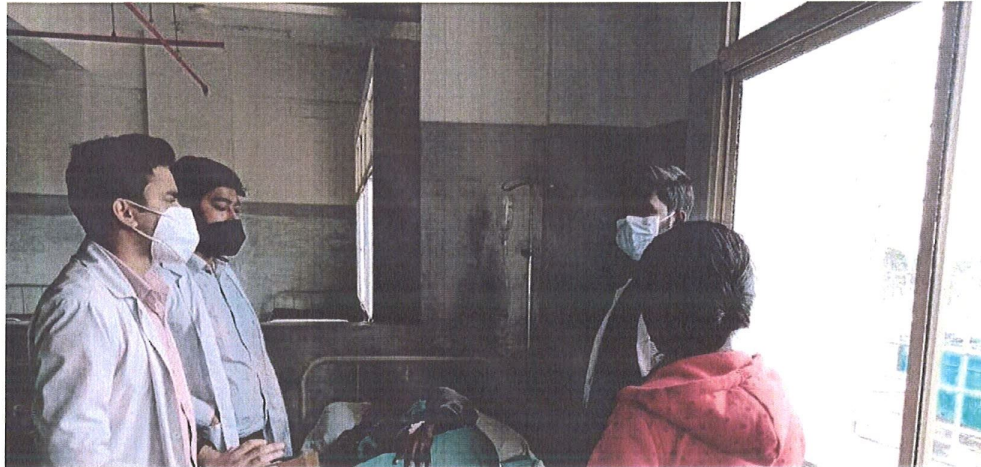


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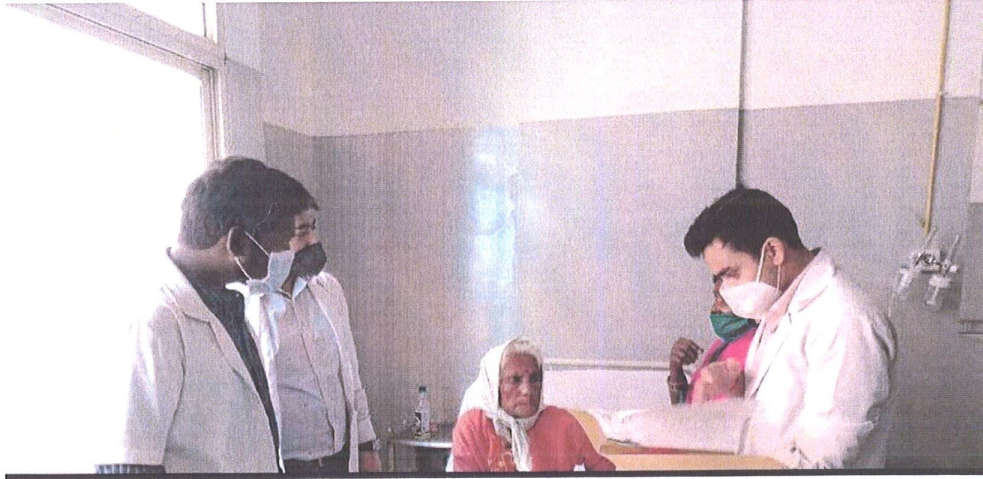


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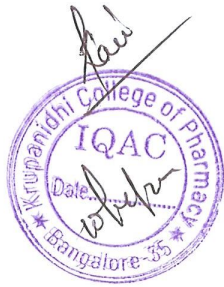


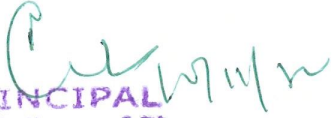
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Pharm D interns at clinical posting in various departments



  
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Ref. No.:

Date: 20/06/2022

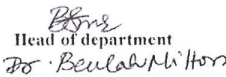
### CERTIFICATE OF INTERNSHIP


This is to certify that Mr. Akash Ashok Manvibearing university register number 15Q0802 from Krupanidhi College of Pharmacy located at 12/1 Chikkabellandur, Carmelaram Post, Bangalore-560035 has successfully completed the internship in a virtual mode as prescribed under regulation 16 and Appendix C of Pharm. D. Regulations 2008.

Department	Date (dd/mm/yyyy)		Total Duration [Months]	Mode of Internship Offline / Virtual
	From	To		
General Medicine [Six month compulsory]	01/08/2020	31/08/2020	6 Months	Virtual
	01/10/2020	28/02/2021		Virtual
Any 3 of the following departments [Two months /Department]				
Dermatology	01/03/2021	30/04/2021	2 Months	Virtual
Orthopaedics	01/05/2021	30/06/2021	2 Months	Virtual
Psychiatry	01/07/2021	31/08/2021	2 Months	Virtual

Online internship permitted as per PCI advisory vide 14-218/2013-PCI dated 2.5.2020 and 14-218/2013-PCI/8284 dated 28.01.2021 had decided the virtual learning in the view of COVID pandemic.

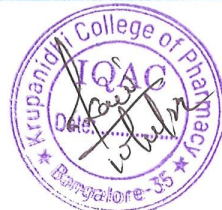
  
Preceptor  
Samuel Gideon George


  
Head of department  
Dr. Beulah Milton

  
Head of institution  
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Rajendra S.V



No.12/1, Chikkabellandur, Carmelaram Post, Varthur Hobli, Bangalore- 5600 35.  
Ph: +91 99000 83457 | Fax: 080-25535751 | Admission Helpline: +91 7848 000 123  
Email Id: info@krupanidhi.edu.in | www.krupanidhi.edu.in



  
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Ref. No.: 01262

Date:


Date: 28/09/2020

## CERTIFICATE OF INTERNSHIP

This is to certify that Ms. Apoorva G L bearing university register number 14Q0804 from Krupanidhi College of Pharmacy located at 12/1 Chikkabellandur, Carmelaram Post, Bangalore-560035 has successfully completed the Internship in the following units/departments of MVJ Medical College and Research Hospital located at Hoskote-562 114, Karnataka, as prescribed under regulation 16 and Appendix C of Pharm. D. Regulations 2008.

Department	Date (dd/mm/yyyy)		Total Duration [Months]
	From	To	
General Medicine [Six months compulsory]	17/09/2019	16/03/2020	6 Months
Any 3 of the following departments [Two months/Department]			
Skin and Venereal diseases	17/07/2019	16/09/2019	2 Months
Psychiatry	17/03/2020	16/05/2020	2 Months
Orthopedics	-	-	-
Surgery	-	-	-
Paediatrics	17/05/2020	16/07/2020	2 Months
Obstetrics and Gynecology	-	-	-


  
Preceptor

  
Head of the Department

  
Head of the Institution



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### - RESEARCH & PROJECT BASED LEARNING

Project based learning is an instructional approach helps the students to acquire the knowledge and skill by engaging in real time projects which gives an opportunity for problem solving and practical challenges in the real time scenarios. Problem solving usually initiates with a question develops the intrinsic curiosity, critical thinking, collaboration, creativity and answer for the questions. The courses offer project-based learning includes VIII Semester of B. Pharm, second year of post graduate course 5<sup>th</sup> year of pharm D program. The student's carryout the research work under the guides allotted to them. At the end of the stipulated time period (one year for post graduate programmes) and stipulated number of hours (B.Pharm and Pharm D), university level evaluation of the project presentation and viva voce would be carried out.

#### M. Pharm project list 2020-22 Batch

SL NO	TITLE OF THE PROJECT	NAME OF THE STUDENT	REGISTE R NUMBER	GUIDE	Department
1	Development and evaluation of self microemulsifying drug delivery system of Brexpiprazole	Darshan P R	20PU039	Dr. preethi sudheer	Pharmaceutics
2	Formulation and evaluation of glycerosomes of terbinafine HCL	Shaanya Johl	20PU047	Dr. Sayani Bhattacharyy a	Pharmaceutics
3	Formulation and characterization of soft deformable nanovesicles of Famciclovir for enhanced transdermal delivery	Kalai tamil selvi	20PU041	Dr. Sayani Bhattacharyy a	Pharmaceutics
4	Design development and evaluation of nano cocrystals based oral film of Rivaroxaban	J venkata krishna	20PU040	Dr preethi sudheer	Pharmaceutics
5	Formulation and evaluation of NLC loaded oro-	Kavitha H K	20PU042	Dr. Sayani Bhattacharyy a	Pharmaceutics



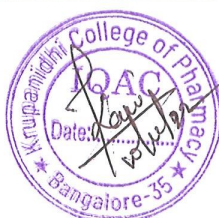
  
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	mucousal adhesive films of Tenofovir				
6	Formulation and evaluation of liquisolid compact of Artemether using novel carriers	Archana M	20PU038	Dr. Sayani Bhattacharyya	Pharmaceutics
7	Development and evaluation of hydrogel beads of Nizatidine for management of gastrointestinal ulcers	Umesh Kumar Singh	20PU051	Dr. Preethi sudheer	Pharmaceutics
8	Formulation and evaluation of nanoemulsion based in-situ gel incorporating Moxifloxacin Hydrochloride for Ophthalmic drug delivery	Soumik Roy	20PU049	Dr. Preethi sudheer	Pharmaceutics
9	Design development and evaluation of Doxorubicin Hydrochloride loaded transferosomes for transdermal delivery.	Smriti Adhikari	20PU048	Dr. Preethi sudheer	Pharmaceutics
10	Solid dispersion of Mesalamine in novel carriers of mesoporous Silica.	Rajnish Prajapati	20PU044	Dr. Sayani Bhattacharyya	Pharmaceutics
11	Development, optimization, and evaluation of Dorzolamide HCL nanoparticle ladden contact lens	Sagar Koirala	20PU046	Mrs. Ashwini ALur	Pharmaceutics



  
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	for Glucoma				
12	Development, optimization, and evaluation of intranasal Rizatriptan nanoparticles loaded in situ gel	Sachin Dey	20PU045	Mrs. Ashwini ALur	Pharmaceutics
13	Formulation, optimization and evaluation of Bazedoxifene nanoparticles for Osteoporosis	Nilayam Chettri	20PU043	Mrs. Ashwini ALur	Pharmaceutics
14	Development and characteristization of supersaturated self-microemulsifying drug delivery system of Telmisartan	Syed Abbas Hussain	20PU050	Mrs. Ashwini ALur	Pharmaceutics
15	Development, optimization and evaluation of Naftifine HCL loaded nanoemugel for the treatment of onychomycosis	Tejashwini R	20PU394	Mrs. Ashwini ALur	Pharmaceutics
	Preclinical evaluation of anxiolytics activity of methanol extract of dried leaf of Leucadia cephalotes (dronapushpi) in Swiss albino mice	Chetankumar N Bhovi	20PP026	Mrs. Keserla Bhavani	Pharmacology
	Evaluation of Anti-anemic and Anti-thrombocytopenic activity of Cyphomandra betacea fruit	Kapisha Thapa Manger	20PP027	Dr. Rajendra S.V.	Pharmacology



*C. C. 10/1/22*  
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	(Tamarillo) in Phenylhydrazine induced hemolytic anemia in rats				
	Anti-Rheumatoid arthritic activity of ethanolic extract of Cassia tora in Freund's complete adjuvant-induced arthritis in wistar rats.	Mukesh Lekhak	20PP029	Mrs. Jyothi Y	Pharmacology
	Antihyperlipidemic activity of Solanum lycopersicum var. Cerasiforme fruit (cherry tomato) in high fat diet induced hyperlipidemia in rats	Neisanuo Tsira	20PP030	Dr. Rajendra S. V	Pharmacology
	Antidiabetic Effect Of Curcuma Caesia Rhizome Extract On Alloxan Induced Diabetic Rats.	Savi BiswaKarma	20PP032	Mrs. Keserla Bhavani	Pharmacology
	Evaluation of anti-ulcer activity of curly kale (brassica oleracea var. Sabellica) using wister rats	Seema BR	20PP033	Mrs.Jyothi Y	Pharmacology
	Neuroprotective Effect of Pistia Stratiotes Against Aluminium Chloride Induced Neurotoxicity in Wistar Rats	Shweta R Mane	20PP034	Mrs. Jyothi Y	Pharmacology
	Evaluation of antiulcer activity of combined extracts of Murrya koenigii and	Tayum Yana	20PP035	Mrs. Keserla Bhavani	Pharmacology



*C. Keserla*  
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	Momordica charantia in rats.				
	Evaluation of antidepressant activity of ethanolic extract of "phyllanthus niruri" on chronic unpredictable stress (CUS) induced depression in wistar albino rats	Vivek Aradhya M V	20PP036	Mrs. Jyothi Y	Pharmacology
	Effect of melatonin in amelioration of piroxicam induced liver and renal oxidative stress in rats	Vivek H S	20PP037	Mrs. Keserla Bhavani	Pharmacology
	Antigenotoxicity study of aerial parts of leucas cephalotes in cyclophosphamide induced genotoxicity : in vitro and in vivo	Jothi A	20PP248	Dr. Rajendra S.V.	Pharmacology
	Qbd Assisted Development Of Fast Dissolving Buccal Film Of Ivabradine	Anusree S Kumar	20PQ001	Kavitha A N	Quality Assurance
	Development And Characterization Of Clindamycin Hydrochloride Oral Fast Dissolving Film In A Qbd Framework	Pavan B	20PQ002	Anjali Nayak	Quality Assurance
	Development And Characterization Of Proniosomal Transdermal Delivery Of Olmesartan Medoxomil In A	Prajwala S	20PQ003	Kavitha A N	Quality Assurance



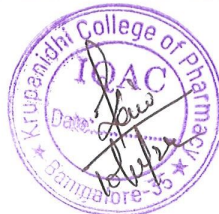
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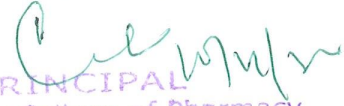


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Quality By Design Paradigm					
Development And Characterization Of Tapentadol Hydrochloride Loaded Transdermal Pharmacosomal Gel Based On Quality By Design Approach	Prasanth Kumar C	20PQ004	Anjali Nayak	Quality Assurance	
Stability Indicating Assay Method Development And Validation For The Determination Of Rivaroxaban By Uv & High Performance Liquid Chromatography In Bulk And Marketed Formulation	Punith Kumar V	20PQ005	Anjali Nayak	Quality Assurance	
Sequential Development Of Dolutegravir Loaded Solid Self Micro-Emulsifying Drug Delivery System In A Qbd Paradigm	Ramya Shree Pr	20PQ006	Kavitha A N	Quality Assurance	
Stability Indicating Assay Method Development And Validation For The Determination Of Brexpiprazole By Uv And High Performance Liquid Chromatography In Bulk And Marketed Formulation	Swapna G	20PQ007	Anjali Nayak	Quality Assurance	



  
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Qbd Approach On Conceptualization And Characterization Of Orally Disintegrating Tablets Of Montelukast Sodium	Tangku Lepcha	20PQ008	Kavitha A N	Quality Assurance
Design, docking studies, synthesis and anti-tubercular evaluation of some novel 1,3,4-oxadiazole derivatives	Ramya A	20PC017	Dr.Paramita Das	Pharma. Chemistry
Molecular docking, synthesis and alzheimer's activity of novel prodrug of nsaid	Rashu raju	20PC018	Dr.Paramita Das	Pharma. Chemistry
Docking studies, synthesis and antituberculosis activity of pyridine-4-carboxamide derivatives.	Anmol	20PC019	Dr.Paramita Das	Pharma. Chemistry
Molecular docking studies, synthesis and antimicrobial activity of 1,3,4-triazazole derivatives	Tejashwini	20PC020	Dr.Paramita Das	Pharma. Chemistry
<b>Development and validation of a stability indicating ultra performance liquid chromatography method for simultaneous determination of</b>	Nayan Kumar R	20PA001	Dr. P. D. Chaithanya Sudha	Pharmaceutical Analysis



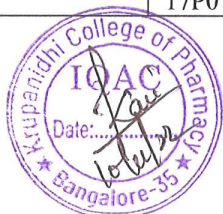
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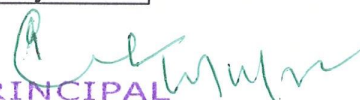


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	<b>bempedoic acid and ezetimibe in bulk and pharmaceutical dosage forms</b>				
	<b>Development and validation of a stability indicating ultra performance liquid chromatography method for simultaneous determination of azelnidipine and telmisartan in bulk and marketed formulation</b>	Shaik Sadhiya Tabasum	20PA002	Dr. P. D. Chaithanya Sudha	Pharmaceutical Analysis
	<b>Development and validation of a novel stability indicating ultra performance liquid chromatography method for simultaneous analysis of fixed dose combination containing bilastine and montelukast in bulk and pharmaceutical dosage forms</b>	V.Navya	20PA003	Dr. P. D. Chaithanya Sudha	Pharmaceutical Analysis
	The molecular docking and admet studies of mangiferin as anti-inflammatory activity in rat		17P0752 17P0763 17P0790 17P0811 17P0760	Dr Paramita Das	Pharmaceutical Chemistry
	2. Molecular Modelling Technique On		17P0773 17P0775 17P0779	Dr Paramita Das	Pharmaceutical Chemistry



  
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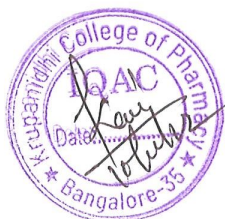




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	Interactivity Betwixt Human Carbonic Anhydrase 1 and Mangifera For Antiulcer Activity		17P0798 17P0799		
	3. Pharmacological and computational evaluation of mangiferin as hepatoprotective activity		17P0777 17P0802  17P0797 18P0549	Mrs. Anjali Nayak	Pharmaceutical Chemistry
	1. Evaluation oif antiinflammatory activity of Avipatikkar churna by using Caragennan induced paw edema method in rats		17P0761 17P0762 17P0805 17P0780 18P0552	Dr. Rjendra S.V.	Pharmacology
	2. Anxiolytic activity of ashwagandha churna in swiss albino mice		17P0781 17P0800 17P0806 17P0809	Mrs. Jyothi.Y	Pharmacology
	3. Evaluation of anti ulcer activity of avipatkar churna by ethanol induced model in rats		17P0766 17P0834 17P0837 18P0546 18P0551	kesserla Bhavani	Pharmacology
	1. Comparative phytochemical screening and antimicrobial activity of different parts of mimosa pudica l.		17P0756 17P0754 17P0755 17P0759 17P0769	Dr. Kuntal Das	Pharmacognosy
	2. Comparative phytochemicals and estimations of constituents present in the leaves of decalepis species through		17P0772 17P0774 17P0782 17P0786 17P0789	Dr. Kuntal Das	Pharmacognosy



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	hplc				
	3. Comparative phytochemical screening and evaluation of in vitro anti-inflammatory activity of Euphorbia hirta leaves and roots		17P0784 17P0792 17P0796 17P0813 17P0808	Dr. Kuntal Das	Pharmacognosy
	4. Comparative phytochemicals and estimation of constituents present in Stevia leaves through HPLC method		17P0816 17P0829 17P0831 18P0547	Dr. Kuntal Das	Pharmacognosy
	1. Marketing strategy for a newly developed product for stress related disorders due to this pandemic		17P0822 17P0821 17P0757 18P0553 17P0783	Dr. Ravikumar	Pharmaceutical Marketing
	2. Market scope of nanomedicines and nanotechnology including medical devices		17P0768 17P0764 17P0836 18P0550	Dr. Ravikumar	Pharmaceutical Marketing
	Disproportionality Analysis of Remdesivir adverse event data reported in FAERS Database		17P0753 17P0823 17P0824 17P0825	Dr Samuel Gideon George P	Pharmaceutical Marketing
	1. To Assess the Knowledge Attitude and Practice Regarding Covid 19 Vaccination Among Students In South India & The reports of early adverse drug		17P0815 17P0776 17P0758 17P0833 18P0548	Mr Vinod K Mathew	Pharmacovigilance



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	reactions based on e-survey study				
	2. Knowledge, Attitude And Practice of pharmacovigilance Among the Pharmacy Students in South india(Bangalore): A Cross-Sessional Study.		18P0545 17P0751 17P0826 17P0817 17P0787	Mr Vinod K Mathew	Pharmacovigilance
	First-generation Antipsychotics Use and Reduced Risk of Pneumonia: Clinical Implications in SARS-CoV2 Treatment	Abhirami Elsa Jacob	16Q0801 16Q0809	Dr. Samuel Gideon George P	Pharmacovigilance
	Comparative study of attitudes related to mental illness in teachers and college-going students across South India using BMI scale	Merlin Mary Sabu Eleena Bijo	16Q0813 16Q0807	Vinod K Mathew	Pharm D
	Assessment of knowledge, perception and prevalence of PCOS in young female adults	Elizabeth Jacob Pharida Thubru	16Q0808 16Q0816	Dr. Anju Sara Mathews	Pharm D
	Effect of variations in ABCC2, CYP2C9, CYP2C19 and SCN2A genes on treatment response to anticonvulsants- a systematic	Defria Zeneth B Mamillapally Loukva	16Q0806 16Q0812	Dr. Samuel Gideon George P	Pharm D



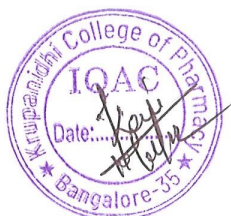
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	review and meta-analysis of genetic association studies				
	Determinants of medication non adherence during Covid-19 pandemic: cross sectional analysis on Patient specific factors	Lanish Wilson Mahammad Asir M	16Q0810 16Q0811	Dr. Abisha Mable Priya A	Pharm D
	A cross-sectional study assessment of knowledge, attitude and practice of Covid-19 among general public in urban area in Bengaluru	Pavan M Pavan N Rajesh Kumar Dutta	16Q0814 16Q0815 16Q0817	Dr. Anju Sara Mathews	Pharm D
	Effect of Human Carboxylesterase 1 (hCES1) Genetic Variations on Treatment Response to Dabigatran Etxilate and Clopidogrel in Patients with Thromboembolic Disorders	Shyno Abraham Shiji John	16Q0819 16Q0818	Dr. Samuel Gideon George P	Pharm D
	Study on knowledge and concern towards acceptance of Covid-19 vaccination among health care professionals and general population	Triveni L Subhiksha V	16Q0821 16Q0824	Dr. Binay Gupta	Pharm D
	Epidemiologic determinants of covid-19 infection- A cross sectional	Thendral R Siddharth	16Q0823 16Q0820	Dr. Abisha Mable Priya A	Pharm D



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	study in South Indian population				
	Assessment of quality of life (QOL) and prevalence of depression among healthcare and non-healthcare workers during Covid19 pandemic- a nation-wide cross sectional study	B. Karunya Akhil Arun Arathi M	19B0011 19B0012 16Q0803	Dr. Beulah Milton	Pharm D



  
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### FORMULATION AND EVALUATION OF MOXIFLOXACIN HYDROCHLORIDE LOADED NANOPARTICULATE *IN SITU* GEL FOR OPHTHALMIC DRUG DELIVERY

BY

**JANANI P**

Reg. No: 19PU273

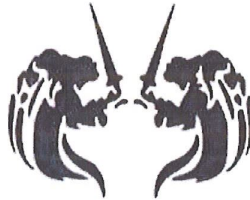
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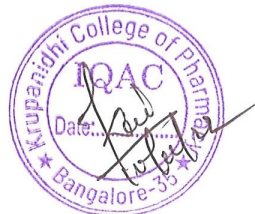
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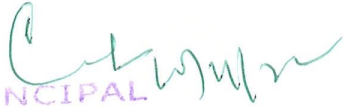
### MASTER OF PHARMACY IN PHARMACEUTICS

Under the guidance of  
**Dr. PREETHI SUDHEER**



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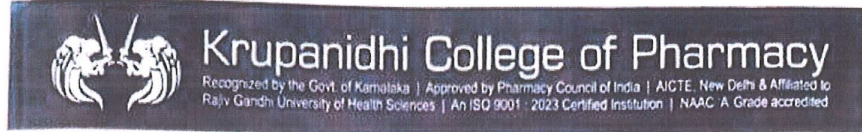


  
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Date: 09/08/2021

Place: Bengaluru

Dr Preethi Sudheer

Professor

Department of Pharmaceutics

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### DESIGN DEVELOPMENT AND EVALUATION OF ORAL DISINTEGRATING TABLET OF ARIPIRAZOLE

By

**RUDHRAN N**

Reg. No: 19PU279

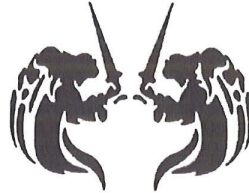
*Dissertation submitted to the  
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*In partial fulfillment of the requirements for the degree of*

### MASTER OF PHARMACY IN PHARMACEUTICS

Under the guidance of  
**Dr. PREETHI SUDHEER**



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Date: 09/08/2021

Place: Bengaluru

Dr. Preethi Sudheer

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EVALUATION OF ANXIOLYTIC ACTIVITY OF ASHWAGANDHA CHURNA  
IN SWISS ALBINO MICE

By

PRATHIMA .H .N (17P0806)

RACHANA .G (17P0809)

NIMISHA RIMAL CHHETRI (17P0800)

Project Work Submitted to the  
Rajiv Gandhi University of Health Sciences, Karnataka, Bengaluru



In partial fulfillment  
of the requirements for the degree of

**BACHELOR OF PHARMACY**  
in  
**EXPERIMENTAL PHARMACOLOGY**

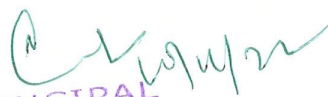
Under the guidance of

Mrs. Jyothi Y.

Associate Professor

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Mrs. Jyothi Y

M.Pharm

Associate Professor

Department of Pharmacology

Date: 25/10/2024

Place: Bangalore



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MARKETING FEASIBILITY REPORT FOR A NEWLY DEVELOPED NANOMEDICINE

# MARKETING FEASIBILITY REPORT FOR A NEWLY DEVELOPED NANOMEDICINE

by

*RC Labruatkimi (Registration Number – 18P0550)*

Dissertation Submitted to the  
Rajiv Gandhi University of Health Sciences, Karnataka, Bengaluru



In partial fulfillment  
of the requirements for the degree of

**Bachelor of Pharmacy**

in

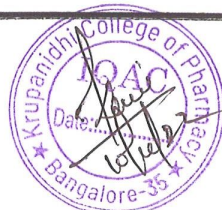
**Pharmaceutical Marketing Management**

Under the guidance of  
Prof. Prakash Mallya



Krupanidhi College of Pharmacy  
Bangalore

2020-2021



*Prakash Mallya*  
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MARKETING FEASIBILITY REPORT FOR A NEWLY DEVELOPED NANOMEDICINE

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Date: 09/07/2022


  
Signature of the Supervisor

Name: Prof. Prakash Mallya

Designation & Department: Director of

Marketing Department



  
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### Effect of Human Carboxylesterase 1 (hCES1) Genetic Variations on Treatment Response to Dabigatran Etexilate and Clopidogrel In Patients with Thromboembolic Disorders

*A Dissertation submitted to the  
Faculty Of Pharmacy, Rajiv Gandhi University of Health Sciences,  
Bengaluru, Karnataka.*



By

**SHYNO ABRAHAM (16Q0819)**

**SHIJI JOHN (16Q0818)**

*In Partial Fulfillment for the Award of Degree Of*

### DOCTOR OF PHARMACY

Under the guidance of  
**Dr. SAMUEL GIDEON GEORGE P,**  
Pharm-D, Assistant Professor,  
Krupanidhi College of Pharmacy, Bangalore



**Krupanidhi College of Pharmacy**  
Carmelaram Post, Varthur Hobli, Bengaluru, Karnataka  
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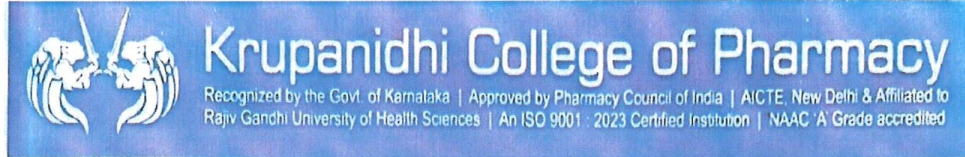


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This is to certify that **Shyno Abraham** and **Shiji John** have satisfactorily completed the dissertation entitled - **"Effect of Human Carboxylesterase 1 (hCES1) Genetic Variations on Treatment Response to Dabigatran Etxilate and Clopidogrel in Patients with Thromboembolic Disorders"** as prescribed by Pharmacy Council of India and **Rajiv Gandhi University of Health Sciences, Bangalore** for **Fifth year, Doctor of Pharmacy (Pharm-D)** program during the academic year 2020-2021 under my guidance. This work has not been submitted earlier to any university either in part or in full for the award of any degree.

**Dr. Samuel Gideon George P**

Assistant Professor,  
Department of Pharmacy Practice,  
Krupanidhi College of Pharmacy,  
Bengaluru, Karnataka



Head of the Department

Professor

Krupanidhi College of Pharmacy  
Bengaluru, Karnataka

Place: Bengaluru

Date:



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### Effect of Human Carboxylesterase 1 (hCES1) Genetic Variations on Treatment Response to Dabigatran Etexilate and Clopidogrel in Patients with Thromboembolic Disorders

*A Dissertation submitted to the  
Faculty Of Pharmacy, Rajiv Gandhi University of Health Sciences,  
Bengaluru, Karnataka.*



By

**SHYNO ABRAHAM (16Q0819)**

**SHIJI JOHN (16Q0818)**

*In Partial Fulfillment for the Award of Degree Of*

### DOCTOR OF PHARMACY

Under the guidance of  
**Dr. SAMUEL GIDEON GEORGE P,**  
Pharm-D, Assistant Professor,  
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**Krupanidhi College of Pharmacy**  
Carmelaram Post, Varthur Hobli, Bengaluru, Karnataka  
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### ENDORSEMENT BY GUIDE

This is to certify that **Abhirami Eby** and **Elsa Jacob** have satisfactorily completed the dissertation entitled "**First-generation Antipsychotics Use and Reduced Risk of Pneumonia-Clinical Implications in SARS-CoV2 Treatment**" as prescribed by the Pharmacy Council of India and Rajiv Gandhi University of Health Sciences, Bangalore for **V year Doctor of Pharmacy (Pharm D)** program during the academic year 2020-2021 under my guidance. This work has not been submitted earlier to any university either in part or in full for the award of any degree.

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# Formulation and evaluation of transdermal ultradeformable vesicles of aspirin

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## ABSTRACT

Transfersomes are incredibly elastic and deformable vesicles composed of phospholipids and edge activators. This study proposed aspirin-loaded transfersomes for transdermal administration to prevent gastrointestinal side effects, boost drug permeation rate, and extend drug action. The formulations were prepared via the thin-film hydration method using soy lecithin as a vesicle forming agent and tween 80 as an edge activator. The formulation trials were optimized by 'Custom design' JMP SW13. The optimum formulation yielded a vesicle size of 74.4 nm, a zeta potential of -27.4 mV, and a % entrapment efficiency of  $90.5\pm 0.25$  with a drug release of  $88.65\pm 0.34$ . A 1% carbopol gel incorporated the optimum formula. The homogeneous gel had a drug content of  $95.8\pm 1.5\%$ , a viscosity of 1762cP, a pH of  $5.74\pm 0.78$ , and % a drug release of  $85.5\pm 0.85$ . The study concluded that transdermal transfersomes would be a promising approach to treating angina.

**Keywords:** Transfersomes, Ultra-deformable, Vesicles, Phospholipids, Optimization

## INTRODUCTION

Classically, angina (or angina pectoris) refers to a pressure-like substernal chest discomfort brought on by physical or emotional stress. It is the most acute symptom of ischemic heart disease. Angina can be acute or chronic. A restriction in coronary blood flow due to coronary artery spasm, obstructive

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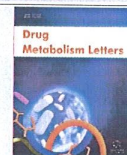


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## RESEARCH ARTICLE



## Amorphous Solid Dispersion Based Oral Disintegrating Film of Ezetimibe: Development and Evaluation



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**Abstract: Background:** Ezetimibe is a cholesterol-lowering agent with an oral bioavailability of 50% by virtue of its poor solubility and extensive hepatic and intestinal metabolism.

**Objective:** The study aimed to overcome low bioavailability issues of ezetimibe by formulating an oral disintegrating film.

**Methods:** The low solubility of ezetimibe was undertaken, preparing solid dispersions using mannitol,  $\beta$ -cyclodextrin, and urea. The mannitol solid dispersion assimilated oral disintegrating film was prepared and optimized using 2<sup>3</sup> factorial design, where the concentration of film formers hydroxypropyl methylcellulose (K5 & K15) (X1 and X2) and super disintegrant, sodium starch glycolate (X3) was used as factors on the response disintegration time (Y). The films were evaluated for physical properties, time of disintegration, and drug release profiles.

**Results:** Mannitol solid dispersion (1:2 ratio) based on the superior drug content, solubility and *in vitro* release profile was preferred in film formation. The low crystalline nature of the solid dispersion was very evident by the absence of prominent peaks in the X-Ray diffraction pattern and the reduced peak intensity of melting endotherms. The correlation coefficient (R<sup>2</sup>) and statistical parameter analysis of variance specify the implication of linear factors on responses, which is apparent from confidence intervals (P-values) less than 0.05. The *in vitro* release profile of all the eight formulations (F1-F8) in a phosphate buffer solution of pH 6.8 revealed a significant increment in comparison to ezetimibe.

**Conclusion:** The study revealed that the formulation approach could overcome the biopharmaceutical challenge of solubility as well as low bioavailability issues of ezetimibe.

**Keywords:** Ezetimibe, HPMC, ODF, solid dispersion, BCS, mannitol, *in vitro* release, factors.

### 1. INTRODUCTION

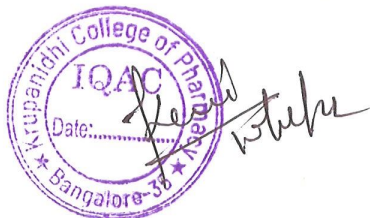
Ezetimibe is an anticholesteremic drug used to treat high cholesterol levels, which is generally given in combination with statins. The drug belongs to the Class II biopharmaceutics classification system (BCS). It is poorly water-soluble in nature, and its oral bioavailability ranges from 35% to 65% due to extensive first-pass & intestinal metabolism [1]. To overcome the bioavailability problem of the drug, an alternate drug delivery system that can deliver the drug directly add into the systemic circulation is required. Orally disintegrating film (ODF) is a novel drug delivery system derived based on transdermal patch technology [2].

ODF is a drug delivery system of typically the size of a postage stamp which, when placed on the tongue or any oral

mucosal tissue, instantly hydrates by soaking in saliva and adheres onto the site of application, followed by a rapid disintegration and/or dissolution process that pharmaceutical agent from the dosage form. The advantages of ODF include quick disintegration or dissolution, self-administration, no water usage required, no need for chewing, no risk of choking, suitable for children and geriatric, disabled patients in vomiting conditions, Parkinson's disease, dysphagia, etc. The acceptability of the ODF lies in its mouthfeel, texture, and size [3-5].

As a poorly soluble API, ezetimibe requires the employment of some solubilisation method for formulating into an ODF. Solid dispersion is one of the promising techniques, which reduces the degree of crystallinity of low soluble drugs and results in its solubilisation. Solid dispersion is a stoichiometric mixture of API and hydrophilic agents in solid-state. They increase the solubility and dissolution rate of poorly soluble drugs due to their reduced particle size, reduced agglomeration tendency, higher porosity, and increased wettability. Moreover, it is proved that oral disinte-

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