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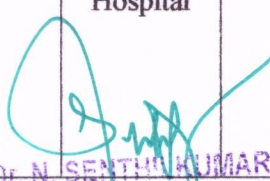
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## DVV Clarification

### 1.3.2 Details of Project Work / Field Work / Internships of the following students.

S. No	Reg.No	Name of the Student	Year	Project Work-Topic	Field work	Internship
1	381610401	AARTHY V	V	KNOWLEDGE, ATTITUDE, PRACTICE ON CAFFEINE, PREVELANCE AND AWARENESS ON CAFFINATED BENERAGES CONSUMPTION AMONG COLLEGE STUDENTS	-	-
2	561958002	AJITH KUMAR K	II	-	Maaruthi Medical Center and Hospital	-
3	381910403	ANCY B	II	-	Maaruthi Medical Center and Hospital	-
4	561958006	ANUSHIYA D D	II	-	Maaruthi Medical Center and Hospital	-



  
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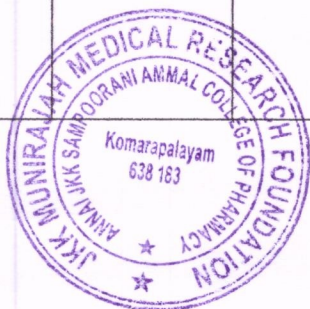
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5	561758012	I.T.BALAGURU	IV	SIMULTANEOUS ESTIMATION OF FLUOXETINE HCl AND OLANZAPINE IN BULK DRUG AND PHARMACEUTICAL FORMULATION BY USING UV-VISIBLE SPECTROSCOPY.	-	-
6	561958019	DHANABABU J	II	-	Maaruthi Medical Center and Hospital	-
7	381910407	DHILIP KUMAR M	II	-	Maaruthi Medical Center and Hospital	-
8	561958028	GUNAL R	II	-	Maaruthi Medical Center and Hospital	-
9	381710405	HARINI R	IV	-	Maaruthi Medical Center and Hospital	-
10	561758036	R.KABILAN	IV	STANDARDISATION OF AYURVEDIC FORMULATION – BRAHMI CHURNA	-	-



  
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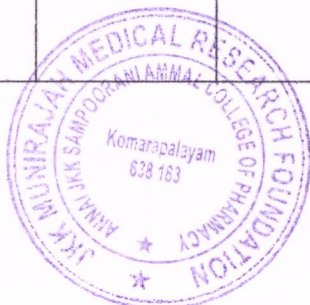
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11	381810415	KARTHIKA SREEKUMAR J	III	-	Maaruthi Medical Center and Hospital	-
12	261940554	LATHEESH G	II	A RETROSPECTI VE STUDY ON A DRUG UTILIZATION AND PRESCRIBING PATTERN IN THE MANAGEMENT OF COPD IN A TERTIARY CARE HOSPITAL IN ERODE DISTRICT USING ATC AND DDD CONCEPT	-	-
13	261925709	LOGANATHAN .D	II	EVALUATION OF ANTI- ASTHMATIC ACTIVITY OF AQUEOU SETHANOLIC EXTRACT OF <i>CISSUS QUADRANGUL ARIS LINN STEM</i>	-	-
14	381510411	MONICA	VI	-	-	Maaruthi Medical Center and Hospital



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15	561758062	MOULEESHWARAN M	III	-	Maaruthi Medical Center and Hospital	-
16	381810423	NAVEEN V	III	-	Maaruthi Medical Center and Hospital	-
17	561958057	NAVEENKUMAR P	II	-	Maaruthi Medical Center and Hospital	-
18	381910419	PRABHAT KUMAR GUPTA	II	-	Maaruthi Medical Center and Hospital	-
19	561858051	PRIYADHARSHINI M	III	-	Maaruthi Medical Center and Hospital	-
20	561958074	RAYYAN N P	II	-	Maaruthi Medical Center and Hospital	-
21	381510418	RITHUVAREN M K	VI	-	-	Maaruthi Medical Center and Hospital
22	261815604	S.SELVAPRABA	II	IN SILICO EVALUATION OF SELECTED PHYTOCHEMICALS FOR ANTI-NCOVID AND POTENTIAL BASED ON MOLECULAR DOCKING STUDIES AND THEIR	-	-



  
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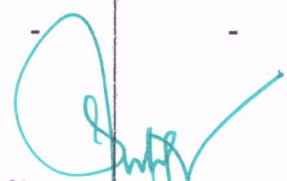


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				PHARMACOKINETICS AND DRUG-LIKENESS PREDICTIONS.		
23	561758081	P.SENTAMIL	IV	STANDARDISATION OF AYURVEDIC FORMULATION – BRAHMI CHURNA	-	-
24	561858076	SUBASH M	III	-	Maaruthi Medical Center and Hospital	-
25	381610424	SUBHASHINI A	V	A COMPARATIVE STUDY OF KNOWLEDGE, ATTITUDE AND PERCEPTION OF JAUNDICE, PARAMEDICAL AND NON-PARAMEDICAL STUDENTS	-	-
26	2615205075 14	SWAMINATHE N V M	I	-	Maaruthi Medical Center and Hospital	-
27	561758097	T.VIMALRAJ	IV	IN-VITRO ANTI-DIABETIC ACTIVITY OF <i>ECBOLIUM VIRIDE(FORSK)</i> ALSTON LEAVES	-	-



  
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28	381610430	YESHWANTH S	V	A COMPARATIVE STUDY OF KNOWLEDGE, ATTITUDE AND PERCEPTION OF JAUNDICE,PAR AMEDICAL AND NON- PARAMEDICAL STUDENTS	-	-
29	381710421	YOGAVARSHI NI K S	IV	-	Maaruthi Medical Center and Hospital	-
30	561858034	MADHAN KUMAR N	III	-	Maaruthi Medical Center and Hospital	-
31	5620507602	THAMILARAS AN R	II	-	Maaruthi Medical Center and Hospital	-
32	561758041	M.KARTHIKEY AN	IV	PHYTOCHEMIC AL SCREENING AND <i>IN-VITRO</i> ANTI- DANDRUFF ACTIVITIES OF LEAF EXTRACT OF <i>AZADIRACHTA</i> <i>INDICA</i> .	-	-



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KNOWLEDGE, ATTITUDE, PRACTICE ON CAFFEINE, PREVALENCE,  
AND AWARENESS ON CAFFEINATED BEVERAGES CONSUMPTION  
AMONG COLLEGE STUDENTS

*Dissertation submitted to*  
THE TAMILNADU Dr. M.G.R. MEDICAL  
UNIVERSITY  
CHENNAI - 32.

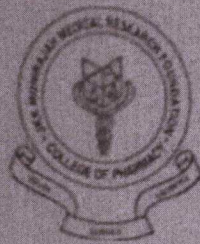
*In partial fulfillment for the award of the degree of*  
DOCTOR OF PHARMACY

Submitted by

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FEBA SHAJI	(Reg.No: 381610409)
HARISH. M	(Reg.No: 381410410)
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Under the Guidance of  
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OCTOBER-2021



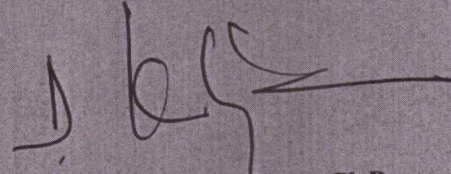
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This is to certify that the dissertation work entitled "KNOWLEDGE, ATTITUDE, PRACTICE ON CAFFEINE, PREVALENCE, AND AWARENESS ON CAFFEINATED BEVERAGES CONSUMPTION AMONG COLLEGE STUDENTS" is the bonafide work carried out by Ms. AARTHY.P (Reg.No: 381610401), Ms. FEBA SHAJI (Reg.No:381610409), Mr. HARISH. M (Reg.No: 381410410), Mr. AZAD VP(Reg.No: 381510402), Department of Pharmacy Practice, under the guidance of me and co-guidance of Dr. C.J. GLADY GLORIA GRANT, Pharm D, Assistant professor, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, Komarapalayam.

This is forwarded to the Tamil Nadu Dr.M.G.R Medical University, Chennai for the partial fulfillment of requirements for the degree of **Doctor of Pharmacy**.

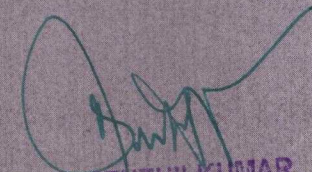


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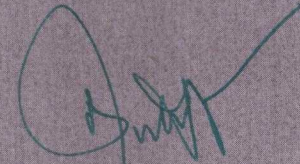
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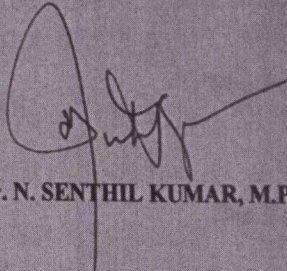
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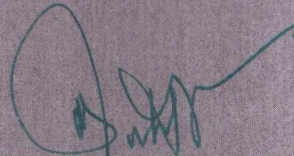
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CONCLUSION

Now a day, caffeine intake is increased among students especially 17-21 years in our study. They have more knowledge about caffeine and caffeinated beverages but not the safest amount. Caffeine has both beneficial effects and side effects. Due to stress, work tension, tiredness, and addiction some students believe that their caffeine consumption is increased over the years, and during exam time has been observed mostly in 17-21 years. Despite awareness, some of them were aware of caffeine-containing ingredients in energy and carbonated drinks. The majority of them were agreeing with the statement of coffee, that consumption of coffee decreases the quality of sleep.

Use of caffeinated beverages, most students experience side effects and withdrawal symptoms such as headache after suddenly stopping caffeine consumption. So they need more attention or to reduce the amount of caffeine daily intake.

Among these, the beneficial effect of caffeinated beverages is to maintain concentration and focus on their studies, to stay awake, and help to relax.

As a result, the possible way to avoid caffeine is to maintain a proper energy level by consuming an adequate level of water, proper nutrition, walking for at least 15-20minutes, yoga, and meditation will help relieve stress and addiction. Adequate sleep can help to relieve tiredness. The students need an awareness program to develop proper knowledge and also for beneficial to prevent future health-related problems.



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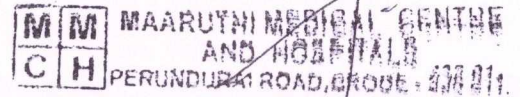
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5.	381910406	BHARATH M	20	381910421	RAMYA G K
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8.	381910409	GODWIN S	23	381910424	SOUNDHAR K
9.	381910410	JACKSON SELVIN Y	24	381910426	SURENDHARAN P
10.	381910411	JAYA PRIYA N	25	381910427	TAMILSELVAN S
11.	381910412	JEBIN MISHAEL DAVIS S	26	381910428	THOMAS JUDE RODRIGUES
12.	381910413	JEEVITHA M	27	381910429	VIGNESHWAR R
13.	381910414	JOSEPH CHINNAPPA RAJ J	28	381910430	VIMALRAJ G
14.	381910415	JOTHIMANI S	29	381810403	ABDULVASEEM A
15.	381910416	KIRUTHIGA O B			

Chairman cum Director

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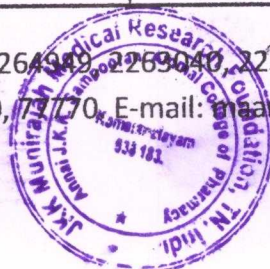
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18.10.2021

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This is to certify that below mentioned II<sup>nd</sup> B.Pharm students from JKKMMRF'S Annai JKK Sampoorani Ammal College Of Pharmacy, Komarapalayam, Namakkal has successfully completed 15 days (01.10.2021 to 15.10.2021) of Health Care Facility & Based Learning Hospital field training in Maaruthi Medical Center and Hospital, Erode.

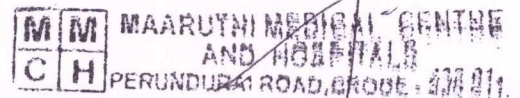
S.NO	REG.NO	NAME	S.NO	REG.NO	NAME
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2.	561958002	AJITH KUMAR K	12	561958012	BALAGANAPATHI V
3.	561958003	ANAND M	13	561958013	BALAJI J
4.	561958004	ANAND R	14	561958014	BHARANIDHARAN M
5.	561958005	ANBARASAN S	15	561958015	CHITRA S
6.	561958006	ANUSHIYA D D	16	561958016	DEEPA S
7.	561958007	ARUN M	17	561958017	DEEPIKA A
8.	561958008	ARUNA P	18	561958018	DEEPIKA C
9.	561958009	ASHOKMOHAN J	19	561958019	DHANABABU J
10.	561958010	ASLIN VENISKA V	20	561958021	DINESH J

  
**Dr. N. SENTHILKUMAR,**  
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☎ 0424-2264040, 2264949, 2263040, 2250517, 2266768.

📞 93627 - 33330, 44440, 55550, 77770. E-mail: maaruthimedicalcenter@gmail.com

**SIMULTANEOUS ESTIMATION OF FLUOXETINE HCL AND  
OLANZAPINE IN BULK DRUG AND PHARMACEUTICAL  
FORMULATION BY USING UV-VISIBLE SPECTROSCOPY  
METHOD**

*A Dissertation submitted to*

**THE TAMILNADU Dr.M.G.R MEDICAL UNIVERSITY,  
CHENNAI-32**

*In partial fulfillment of the requirement for the award of the degree of  
BACHELOR OF PHARMACY*

**Submitted by:**

S. AAKASH	561758001
S. AKILANDESWARAN	561758004
A. AMARNATH	561758005
<b>I. T. BALAGURU</b>	<b>561758012</b>
N. P. ESHWARAN	561758022

*Under the supervision & guidance of*

**Dr. A. CHITRA., M. PHARM., Ph. D**



**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY, DR. N. SENTHILKUMAR,  
PRINCIPAL,**

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**SEPTEMBER -2021**



*Evaluated  
18/9/21  
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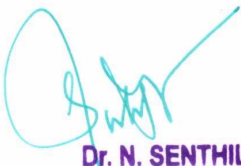
### CERTIFICATE

This is to certify that the words embodied in this Project work entitled "SIMULTANEOUS ESTIMATION OF FLUOXETINE HCL AND OLANZAPINE IN BULK DRUG AND PHARMACEUTICAL FORMULATION BY USING UV-VISIBLE SPECTROSCOPY METHOD". Submitted for the degree of BACHELOR OF PHARMACY in Pharmaceutical Chemistry, The Tamilnadu Dr.M.G.R Medical University, Chennai, is a bonafide work, which was carried out by

S. AAKASH	561758001
S. AKILANDESWARAN	561758004
A. AMARNATH	561758005
I. T. BALAGURU	561758012
N. P. ESHWARAN	561758022

under my Guidance and supervision during the Academic Year 2020-2021.



  
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PRINCIPAL,  
JKK MUMRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
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NAMAKKAL DISTRICT, TAMILNADU.

Associate Professor,  
Department of Pharmaceutical Chemistry,

Place: Komarapalayam

Date: 16/4/22





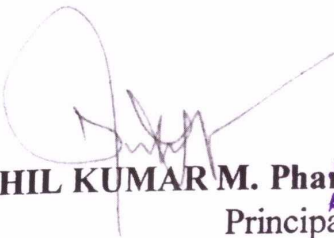
**Dr. N. SENTHILKUMAR, M. Pharm., Ph.D.,**  
Principal & HOD,  
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<b>S. AKILANDESWARAN</b>	<b>561758004</b>
<b>A. AMARNATH</b>	<b>561758005</b>
<b>I. T. BALAGURU</b>	<b>561758012</b>
<b>N. P. ESHWARAN</b>	<b>561758022</b>

for the degree of BACHELOR OF PHARMACY in Pharmaceutical  
Chemistry under the Guidance of **Dr. A.CHITRA., M.Pharm., Ph.D.**  
Associate Professor, Department of Pharmaceutical Chemistry,  
JKKMMRF'S Annai JKK Sampoorani Ammal college of Pharmacy,  
Komarapalayam, during the Academic Year 2020-2021.

  
**Dr. N. SENTHIL KUMAR M. Pharm., Ph.D.**  
Principal & HOD

  
**Dr. N. SENTHILKUMAR,**  
PRINCIPAL,

JKKMMRF'S Annai JKK Sampoorani Ammal

College of Pharmacy.

Place: Komarapalayam

Date: 

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ANNAI JKK SAMPoorani AMMAL COLLEGE OF PHARMACY,  
ETHIRMEBU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



## 7.SUMMARY AND CONCLUSION

Simple, rapid, economic, precise and accurate UV-Spectrophotometric method were developed as per ICH guidelines for the estimation of Fluoxetine HCl and Olanzapine in tablet dosage form.

From the solubility profile, methanol was chosen as a common solvent for the estimation of the fluoxetine HCl and olanzapine. The sample solution of 10µg/ml of fluoxetine and olanzapine in methanol prepared individually and the solutions were scanned in UV region in the wavelength range from 200-400nm by using methanol as a solvent. The overlay spectra of fluoxetine HCl and olanzapine were recorded. From the spectra, Fluoxetine HCl shows maximum absorption at 164nm and Olanzapine shows maximum absorption at 252nm. By the overlaid spectrum of Fluoxetine HCl and Olanzapine in the UV spectrophotometer 233nm is selected as a isobestic point.

In simultaneous equation method, we chosen 10µg/ml of standard stock solution of Fluoxetine HCl and Olanzapine were used to determine the absorption at 264nm and 252nm.

In absorption ratio method, we chosen 10µg/ml of standard stock solution of Fluoxetine HCl and Olanzapine were used to determine the absorption at 264nm and 233nm (Isobestic point).

By the overlaid spectrum of Fluoxetine HCl and Olanzapine, in the UV spectrophotometer 233nm was selected as a isobestic point.

The percentage label claim present in tablet formulation was found to be 99.6% and 97.25% for Fluoxetine HCl and Olanzapine respectively. The percentage recovery was found to be in the range of 97.43-99.37% for Fluoxetine HCl and 99.25-100.34% for Olanzapine.

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Kumarapalayam - 638 183,  
Namakkal District, Tamilnadu.



In absorption ratio method, the wavelength ranges between 264nm and 252nm and 233nm were selected for the estimation of Fluoxetine HCl and Olanzapine respectively. The percentage label claim present in formulation was found to be  $99.49 \pm 1.5894$  and  $100.36 \pm 1.0945$  for Fluoxetine HCl and Olanzapine respectively. The percentage recovery was found to be in the range of 98.15-99.19% for Fluoxetine HCl and 99.71-100.01% for Olanzapine.

The proposed UV spectrophotometric methods showed good agreement at estimated concentration of both the active ingredients with declared label claims. Both the estimated methods were showed good recoveries close to 100% and percentage coefficient variation was less than 2.0% for both Fluoxetine HCl and Olanzapine. The developed methods were simple, accurate, precise, reproducible, economical, which would be used to estimate fluoxetine HCl and Olanzapine in their combined in dosage form in routine analysis.



**Dr. N. SENTHILKUMAR,  
PRINCIPAL,**

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# MAARUTHI MEDICAL CENTRE HOSPITAL

564, PERUNDURAI ROAD, ERODE - 638011



18.10.2021

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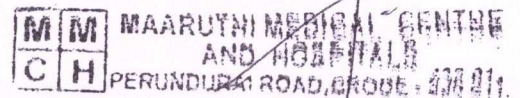
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564, PERUNDURAI ROAD, ERODE - 638011



14.02.2022

## HOSPITAL FIELD TRAINING

This is to certify that the following II<sup>nd</sup> Pharm.D students from JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam, Namakkal have successfully completed **50 days** of Health Care Facility & Based Learning Hospital field training in Maaruthi Medical Center and Hospital, Erode (05.10.2021 to 11.02.2022).

S.NO	REG.NO	NAME	S.NO	REG.NO	NAME
1.	381910402	ALSHADA SHARF	16	381910417	MAHALAKSHMI M
2.	381910403	ANCY B	17	381910418	NAVEENA S
3.	381910404	ARCHANA B	18	381910419	PRABHAT KUMAR GUPTA
4.	381910405	BALAJI S	19	381910420	PRADESH C
5.	381910406	BHARATH M	20	381910421	RAMYA G K
6.	381910407	DHILIP KUMAR M	21	381910422	SHANMUGAPRIYA D
7.	381910408	DONY D	22	381910423	SILAMBARASAN M
8.	381910409	GODWIN S	23	381910424	SOUNDHAR K
9.	381910410	JACKSON SELVIN Y	24	381910426	SURENDHARAN P
10.	381910411	JAYA PRIYA N	25	381910427	TAMILSELVAN S
11.	381910412	JEBIN MISHAEL DAVIS S	26	381910428	THOMAS JUDE RODRIGUES
12.	381910413	JEEVITHA M	27	381910429	VIGNESHWAR R
13.	381910414	JOSEPH CHINNAPPA RAJ J	28	381910430	VIMALRAJ G
14.	381910415	JOTHIMANI S	29	381810403	ABDULVASEEM A
15.	381910416	KIRUTHIGA O B			

Chairman cum Director



MAARUTHI MEDICAL CENTRE AND HOSPITALS  
PERUNDURAI ROAD, ERODE - 638 011.

300 Bed Multispeciality Hospital

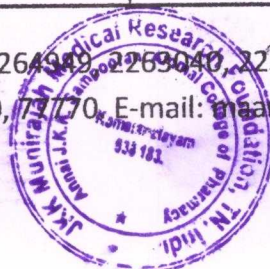
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S.NO	REG.NO	NAME	S.NO	REG.NO	NAME
1.	561958022	DINESH M	11	561958032	JEEVANANTHAM S
2.	561958023	GOKULKANNAN S K	12	561958033	JEGANPATHY S
3.	561958024	GOWRISHANKAR G	13	561958034	KALAIVASAN M N
4.	561958025	GOWTHAM D	14	561958035	KARTHI L
5.	561958026	GOWTHAMAN R	15	561958036	KARTHI V
6.	561958027	GUGAN ESWAR N	16	561958037	KARTHICK M
7.	561958028	GUNAL R	17	561958038	KARTHIKA M
8.	561958029	GUNASEKAR K	18	561958039	KAVIN P
9.	561958030	HARI MAGESH P B	19	561958040	KAVINRAJ K
10.	561958031	HARIKRISHNAN M	20	561958041	KAVIPRASANTH S

Dr. N.SENTHILKUMAR,  
PRINCIPAL

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


28.02.2022

## HOSPITAL FIELD TRAINING

This is to certify that the following IV<sup>th</sup> Pharm.D students from JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam, Namakkal have successfully completed 60 days of Health Care Facility & Based Learning Hospital field training in Maaruthi Medical Center and Hospital, Erode (05.10.2021 to 25.02.2022).

S.NO	REG.NO	NAME	S.NO	REG.NO	NAME
1.	381710401	ANDLY CHEDRICK C	18	381710419	TAMIL SELVAN S
2.	381710402	ASHA M	19	381710420	VEDIYAPPAN V
3.	381710403	ASHRITHA D N	20	381710421	YOGAVARSHINI K S
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11.	381710412	NATHIYA A	28	381710429	SAMUEL BABU
12.	381710413	PREETHI T	29	381710430	NAIVIN D ALMEDA
13.	381710414	PUSHPARAJ A	30	381510328	RAVEENA A
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**STANDARDISATION OF AYURVEDIC FORMULATION  
BRAHMI CHURNA**

*Dissertation submitted To,*

**THE TAMILNADU Dr.M.G.R. MEDICAL UNIVERSITY,  
CHENNAI – 32.**

*In partial fulfillment of the requirements for the award of the  
degree of*

**BACHELOR OF PHARMACY**

*Submitted by,*

<b>R. KABILAN</b>	<b>561758036</b>
<b>M. MEENAKSHI</b>	<b>561758055</b>
<b>J. MOHAMED AZARUDEEN</b>	<b>561758057</b>
<b>D. SAMYUKTA</b>	<b>561758075</b>
<b>P. SENTAMIL</b>	<b>561758081</b>

*Under the Guidance of*

**Dr. E. THILAGAM, M.Pharm., Ph.D.,**

**Professor and Head of Department of Pharmacognosy**



**DEPARTMENT OF PHARMACOGNOSY**

**JKKMMRF's – ANNAI JKK SAMPOORANI AMMAL**

**COLLEGE OF PHARMACY**

**KOMARAPALAYAM - 638183**

**SEPTEMBER – 2021**



**Dr. N. SENTHILKUMAR,  
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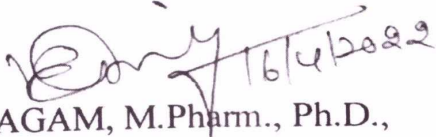
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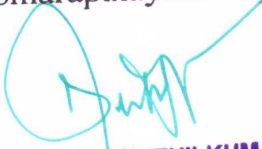
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M.Pharm., Ph.D.**, Professor and Head of the department of Pharmacognosy.  
JKKMMRF's – Annai JKK Sampoorani Ammal College of Pharmacy.

  
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Komarapalayam – 638 183.

Place: Komarapalayam

Date: 16/4/2022

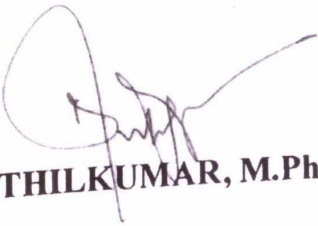


  
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NAMAKKAL DISTRICT, TAMILNADU.**

### SUMMARY AND CONCLUSION

- Experiment for standardization parameters such as morphological studies, physico-chemical parameters, phytochemical screening, pharmaceutical parameters, powder microscopy, fluorescence analysis were performed for the marketed product.
- These standardization parameters confirm its identity and determination of its quality and purity of Brahmi churna.
- It ensure the uniformity of Brahmi churna.
- The quality control standards of herbal formulation are important in view of commercialization of formulation.

### OUTCOME OF THE RESEARCH :

- An initiative for the development of traditional drug system was taken and the analytical methods were introduced into the ancient system of medicine.
- This will serve as a key for the upcoming researchers to standardise the other formulation which have not been standardised yet.

### FUTURE PERSPECTIVE :

- Pre formulation studies and formulation of tablets from Brahmi churna can be done to improve the patient compliance.
- Qualification of the phytoconstituents of the Brahmi churna using the standard biomarkers with the help of HPTLC technique can be done.



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23.02.2022

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**A RETROSPECTIVE STUDY ON DRUG UTILIZATION AND PRESCRIBING PATTERN  
IN THE MANAGEMENT OF COPD IN A TERTIARY CARE HOSPITAL  
IN ERODE DISTRICT USING ATC AND DDD CONCEPT**

**A Dissertation submitted to  
THE TAMILNADU Dr. M.G.R. MEDICAL UNIVERSITY  
CHENNAI – 600032**

**In partial fulfillment for the award of the degree of  
MASTER OF PHARMACY  
IN  
PHARMACY PRACTICE**

**Submitted by**

**LATHEESH G**

**Reg. No: 261940554**

**Under the Guidance of  
Dr. N.Senthilkumar, M Pharm, Ph.D**

**Principal**

*Evaluated by*

*19/10/22*

*17/10/22*



**DEPARTMENT OF PHARMACY PRACTICE  
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**OCTOBER 2021**




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### CERTIFICATE


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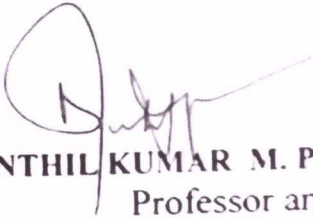
  
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This is forwarded to The Tamil Nadu Dr. M. G. R. Medical University, Chennai in the partial fulfillment of requirements for the degree of master of Pharmacy in Pharmacy Practice.

  
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## 9. CONCLUSION

This study was undertaken in a tertiary care hospital which gives insight in to the day to day functioning status of our health care delivery system and this study showed that valuable information can be obtained by using the DDD methodology on a retrospective basis. Because DDD calculations are independent of dosage form, the calculation of DDDs makes it possible to study national and international data respectively.

From the above study it was concluded that, the prescribing patterns were not in accordance with WHO guidelines. It is thus necessary to make physicians aware about the use of drugs, importance of prescribing drugs with generic names, safety of prescribing drugs from EDL and that the DDD methodology is useful technique to measure and compare drug consumption data nationally and internationally.



A handwritten signature in blue ink, appearing to read "Dr. N. Senthilkumar".

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**“EVALUATION OF ANTI-ASTHMATIC ACTIVITY OF  
AQUEOUS ETHANOLIC EXTRACT OF *CISSUS  
QUADRANGULARIS* LINN STEM”**

**Dissertation submitted to**

THE TAMILNADU DR.M.G.R. MEDICAL

UNIVERSITY, CHENNAI-600 032

**In partial fulfillment of the requirements for the  
award of the Degree of**

**MASTER OF PHARMACY**

**IN**

**PHARMACOLOGY**

Submitted by

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*Under the guidance of*

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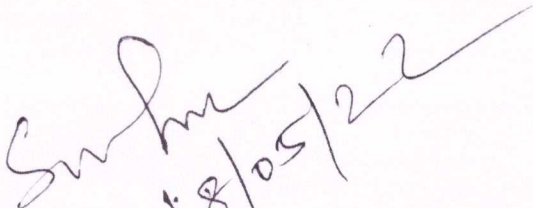
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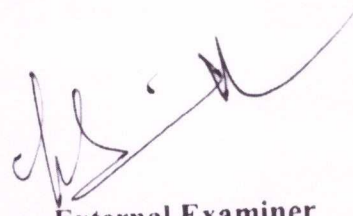
## EVALUATION CERTIFICATE

This is to certify that the dissertation entitled ""EVALUATION OF ANTI-ASTHMATIC ACTIVITY OF AQUEOUS ETHANOLIC EXTRACT OF *CISSUS QUADRANGULARIS* LINN STEM" Submitted by Mr D. LOGANATHAN. (Reg. No. 261925709) to the Tamilnadu Dr. M.G. R Medical University, Chennai, in partial fulfilment for the degree of **MASTER OF PHARMACY in Pharmacology**, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, under the guidance and supervision of **DR.N.SENTHIL KUMAR M.Pharm.,Ph.D.**, Principal, Department of Pharmacology, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, during the academic year of 2020-2021

Internal Examiner

  
18/05/22

External Examiner



Convener of Examination

Examination centre : Annai Jkk Sampoorani Ammal College of Pharmacy  
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**Dr. N. SENTHILKUMAR,**  
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## CERTIFICATE

This is to certify that the works embodied in this dissertation entitled "EVALUATION OF ANTI- ASTHMATIC ACTIVITY OF AQUEOUS ETHANOLIC EXTRACT OF *CISSUS QUADRANGULARIS* LINN STEM" submitted to Tamilnadu Dr. M.G.R Medical University, Chennai, is a bonafide work which was carried out by **Mr. LOGANATHAN. D (Reg:261925709)** in partial fulfilment for the degree of **MASTER OF PHARMACY in Pharmacology** under the guidance and supervision of **Dr. N.SENTHIL KUMAR, M.Pharm.,Ph.D.,** Principal, Department of Pharmacology, J.K.K.Munirajah Medical Research Foundation's - Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam, during the academic year 2020-2021

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12/13/21

Place: Komarapalayam



## 8 CONCLUSION

This work will be useful to find new anti asthmatic drug with help of in vitro and in vivo models. Aqueous Ethanolic extract will be possess highly substantial anti-asthmatic activity by significantly inhibited the histamine induced bronchoconstriction of guinea pig representing its H1 receptor antagonistic activity and support the plants by its anti-asthmatic properties.

Histamine induced bronchoconstriction is the traditional immunological model of antigen induced airway obstruction. Histamine when inhaled causes hypoxia and leads to convulsion in Guinea pigs and causes very strong smooth muscle contraction, profound hypotension, and capillary dilation in cardiovascular system. A prominent effect caused by histamine leads to severe bronchoconstriction in the Guinea pigs that causes asphyxia and death. Bronchodilators can delay the occurrence of these symptoms . The results of the study confirmed the bronchodilator properties of the plant, justifying its traditional claim in the treatment of asthma. The results will be obtained in the study to be provide basic data for further progress and application of plant.



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29.11.2021

DOCTOR OF PHARMACY

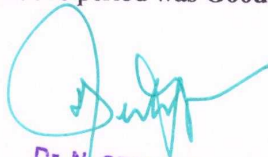
ROTATORY INTERNSHIP CERTIFICATE

This is to certify that, Ms. **MONICA S**, Pharm D Intern from JKKMMRF'S Annai JKK Sampoorani Ammal College Of Pharmacy, Komarapalayam, Namakkal has been successfully completed 7 months 17 days of Compulsory Rotatory Internship as per pharmacy council of India regulations in Maaruthi Medical Center and Hospital, Erode.

NAME OF THE HOSPITAL	DEPARTMENT	DATE		TOTAL DURATION
		FROM	TO	
MMCH, Erode	Surgery	16/10/2020	18/12/2020	2 Months
	Orthopaedics	20/12/2020	27/02/2021	2 Months
	Break	28/02/2021 23/03/2021	04/03/2021 26/03/2021	
	Paediatrics	05/03/2021 01/04/2021	22/03/2021 31/04/2021	17 Days 1 Month
	General Medicine	06/06/2021	31/06/2021	1 Month
	General Medicine	03/10/2021	11/11/2021	1 Month

During the above period, her conduct and character was **Good**

Her work during the above period was **Good**.



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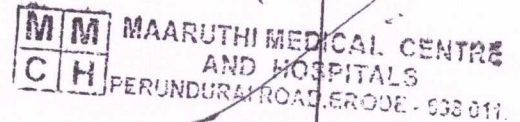
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4.	561758078	SATHISHKUMAR M	14	561858009	CHANDRASEKAR R
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6.	561758095	VASANTH M	16	561858011	DEEPIKA P
7.	561858001	ACHUKA LORRAINE KWAMBOKA	17	561858013	DHINESH KARTHIK P
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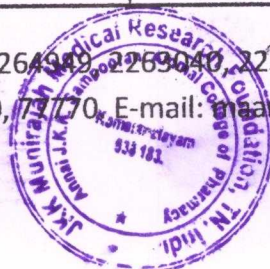
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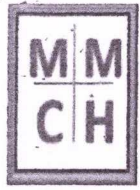
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03.12.2021

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This is to certify that the following III<sup>rd</sup> B.Pharm students from JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam, Namakkal have successfully completed 15 days of Health Care Facility & Based Learning Hospital field training in Maaruthi Medical Center and Hospital, Erode (17.11.2021 to 02.12.2021).

S.NO	REG.NO	NAME	S.NO	REG.NO	NAME
1.	561858041	NISHAL NIXSON N N	11	561858051	PRIYADHARSHINI M
2.	561858042	PARTHIBAN N	12	561858052	PRIYANKA S
3.	561858043	PRADEEP R	13	561858053	RAJA V M
4.	561858044	PRAKASH G	14	561858054	RANJITH R
5.	561858045	PRAKASHRAJ M	15	561858055	RISHI E
6.	561858046	PRAKASHRAJ V	16	561858056	ROHINI V
7.	561858047	PRASANTH K	17	561858057	ROHIT SUNDHAR S
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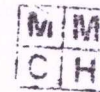
S.NO	REG.NO	NAME	S.NO	REG.NO	NAME
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2.	561958063	PRAVEEN T	12	561958073	RAVIN R
3.	561958064	PRAVEEN MATHESAN	13	561958074	RAYYAN N P
4.	561958065	PRAVEENKUMAR K	14	561958075	ROHITH S
5.	561958066	PRIYA D	15	561958076	SACHIN KUMAR K
6.	561958067	RAGUL DRAVID G	16	561958077	SAIFULLAH K
7.	561958068	RAHUL V	17	561958078	SANTHOSH KUMAR R
8.	561958069	RANGANATHAN C	18	561958079	SEDUPATHI K
9.	561958070	RANJITH J	19	561958080	SHABEEB ANJALAN
10.	561958071	RATHESH G T	20	561958081	SHANKAR B

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# MAARUTHI MEDICAL CENTRE AND HOSPITALS



Perundurai Road, Erode-638 011.

29.11.2021

## DOCTOR OF PHARMACY

### ROTATORY INTERNSHIP CERTIFICATE

This is to certify that, **Mr. RITHUVAREN M KRISHNAN**, Pharm D Intern from JKKMMRF'S Annai JKK Sampoorani Ammal College Of Pharmacy, Komarapalayam, Nammakkal has been successfully completed 11 months of Compulsory Rotatory Internship as per pharmacy council of India regulations in Maaruthi Medical Center and Hospital, Erode.

NAME OF THE HOSPITAL	DEPARTMENT	DATE		TOTAL DURATION
		FROM	TO	
MMCH, Erode	Orthopaedics	19/10/2020	18/12/2020	2 Months
	Paediatric	20/12/2020	27/2/2021	2 Months
	Break	28/02/2021	04/03/2021	
		23/03/2021	26/03/2021	
	General Medicine	05/03/2021	22/03/2021	17 Days
	General Medicine	01/04/2021	30/04/2021	1 Month
Surgery	03/09/2021	11/11/2021	2 Months,8 Days	

During the above period, his conduct and character was **Good**

His work during the above period was **Good**.



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,


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Dr. M.N. SADASIVAM. M.S..D.O.  
Reg. No: 35597, CHAIRMAN  
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*"In silico* EVALUATION OF SELECTED PHYTOCHEMICALS FOR  
ANTI-COVID POTENTIAL BASED ON MOLECULAR DOCKING STUDIES  
AND THEIR PHARMACOKINETICS AND DRUG-LIKENESS PREDICTIONS"

*Dissertation submitted to*

THE TAMILNADU Dr. M.G.R. MEDICAL  
UNIVERSITY CHENNAI-32

*In partial fulfillment of the requirements*

*For the award of the degree of*

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

Submitted By

**S. SELVAPRABA**

Reg. No: 261815604

*Under the guidance of*

Dr.T. VENKATACHALAM, M. Pharm., Ph.D.,

Professor

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY



JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL

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APRIL - 2021

  
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Professor,

Department of Pharmaceutical Chemistry,

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**CERTIFICATE**

This is to certify that the dissertation work entitled "*In silico* EVALUATION OF SELECTED PHYTOCHEMICALS FOR ANTI-nCOVID POTENTIAL BASED ON MOLECULAR DOCKING STUDIES AND THEIR PHARMACOKINETICS AND DRUG-LIKENESS PREDICTIONS" submitted to the Tamil Nadu Dr. M.G.R Medical University, Chennai, is a Bonafide work, which was carried out by SELVAPRABA. S (Reg. No. 261815604) for the partial fulfillment for the degree of MASTER OF PHARMACY in Pharmaceutical chemistry under my guidance during the academic year 2018 - 2021.

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8/2/21

Place: Komarapalayam



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Evaluated

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**STANDARDISATION OF AYURVEDIC FORMULATION  
BRAHMI CHURNA**

*Dissertation submitted To,*

**THE TAMILNADU Dr.M.G.R. MEDICAL UNIVERSITY,  
CHENNAI – 32.**

*In partial fulfillment of the requirements for the award of the  
degree of*

**BACHELOR OF PHARMACY**

*Submitted by,*

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<b>J. MOHAMED AZARUDEEN</b>	<b>561758057</b>
<b>D. SAMYUKTA</b>	<b>561758075</b>
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*Under the Guidance of*

**Dr. E. THILAGAM, M.Pharm., Ph.D.,**

**Professor and Head of Department of Pharmacognosy**



**DEPARTMENT OF PHARMACOGNOSY**

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**SEPTEMBER – 2021**



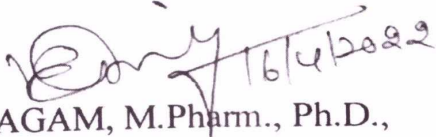
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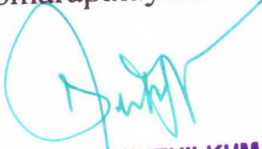
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CHURNA”** is a bonafide work carried out by, **R. KABILAN, M.  
MEENAKSHI, J. MOHAMED AZARUDEEN, D. SAMYUKTA,  
P.SENTAMIL** and submitted in the partial fulfillment for the degree of  
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University, Chennai, under the guidance and supervision of **Dr. E. THILAGAM,  
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Place: Komarapalayam

Date: 16/4/2022

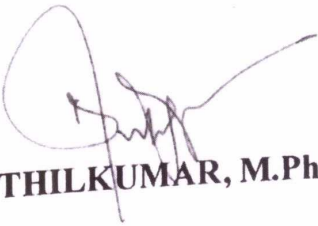


  
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### SUMMARY AND CONCLUSION

- Experiment for standardization parameters such as morphological studies, physico-chemical parameters, phytochemical screening, pharmaceutical parameters, powder microscopy, fluorescence analysis were performed for the marketed product.
- These standardization parameters confirm its identity and determination of its quality and purity of Brahmi churna.
- It ensure the uniformity of Brahmi churna.
- The quality control standards of herbal formulation are important in view of commercialization of formulation.

### OUTCOME OF THE RESEARCH :

- An initiative for the development of traditional drug system was taken and the analytical methods were introduced into the ancient system of medicine.
- This will serve as a key for the upcoming researchers to standardise the other formulation which have not been standardised yet.

### FUTURE PERSPECTIVE :

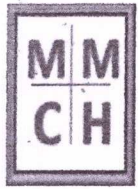
- Pre formulation studies and formulation of tables from Brahmi churna can be done to improve the patient compliance.
- Qualification of the phytoconstitents of the Brahmi churna using the standard biomarkers with the help of HPTLC technique can be done.



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17.12.2021

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4.	561858064	SENTHIL KUMAR S	14	561858075	SRINIVASAN R
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10.	561858071	SRIDHAR C	20	561858081	THARANESH S


  
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**A COMPARATIVE STUDY OF KNOWLEDGE, ATTITUDE  
AND PERCEPTION OF JAUNDICE AMONG PARAMEDICAL  
AND NON-PARAMEDICAL STUDENTS**

**Dissertation submitted to  
THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY  
CHENNAI - 32.**

**In partial fulfilment for the award of the degree of  
DOCTOR OF PHARMACY**

**Submitted by**

**MONITTA ROBINSON. D (Reg.No : 381610415)**

**SHEEBA S KOSHY (Reg.No : 381610423)**

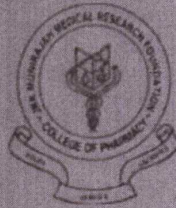
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**Under the Guidance of**

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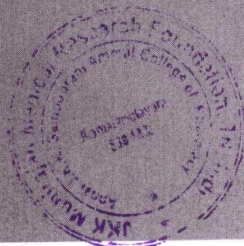
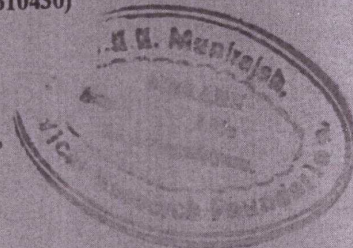
**Associate Professor**



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**OCTOBER - 2021**

*Evaluated By,  
1-7-21  
24/11/21*



*[Handwritten signature]*

**Dr. N. SENTHILKUMAR,  
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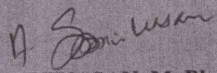
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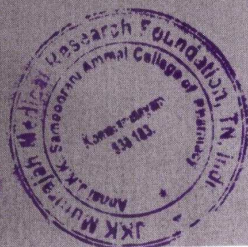
This is to certify that the dissertation work entitled "A COMPARATIVE STUDY OF KNOWLEDGE, ATTITUDE AND PERCEPTION OF JAUNDICE AMONG PARAMEDICAL AND NON-PARAMEDICAL STUDENTS" is the bonafide work carried out by Ms. MONITTA ROBINSON.D (Reg.No: 381610415), Ms. SHEEBA S KOSHY (Reg.No: 381610423), Ms. SUBHASHINI. A (Reg.No: 381610424), Mr. YESHWANTH. S (Reg.No: 381610430), under my guidance and supervision in the Department of Pharmacy Practice, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY, Komarapalayam.

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Place: Komarapalayam

Date: 22.01.22



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

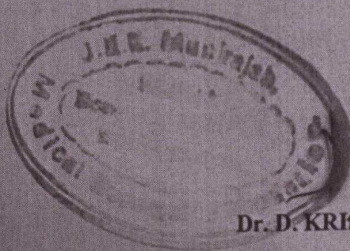
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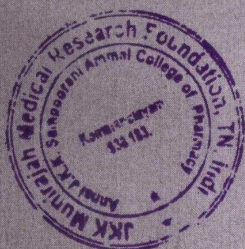
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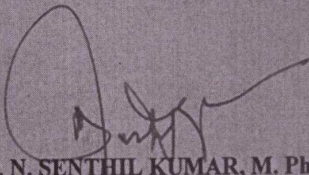


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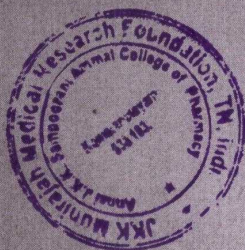
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CONCLUSION

- This study concluded that Paramedical students had better knowledge and attitude than non-paramedical students. The majority of students reported that they heard about jaundice. The paramedical students had better knowledge in types, signs and symptoms, causes, diagnosis of jaundice than non-paramedical students. So, we are recommending many awareness programs, seminars, and workshops and need to be conducted for all the students especially non-paramedical students to enhance their knowledge and attitude on Jaundice.
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- In traditional medicine, Keelanelli (gale of the wind) and Karisalankanni (yellow false daisy) was predominantly preferred by both paramedical students and



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non-paramedical students. The Karisalankanni (*Eclipta prostrata L.*) and Keelanelli (*Phyllanthus amarus*) are the most commonly used hepatoprotective herb in the Indian system of medicine. In Karisalankanni, Coumestans (wedelolactone and demethylwedelolactone) have been mentioned as the important components for the hepatoprotective effect. The plants of Keelanelli have been used as a natural remedy for Jaundice and Hepatitis.

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**INVITRO ANTI-DIABETIC ACTIVITY OF *ECBOLIUM VIRIDE*  
(FORSK) ALSTON LEAVES**

*Dissertation submitted to*

THE TAMIL NADU Dr.MGR MEDICAL UNIVERSITY  
CHENNAI -32

*In partial fulfillment for the award of the degree of*

**BACHELOR OF PHARMACY**

*Submitted by*

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SEETHARAM.M	(561758079)
SURESHMANI.S	(561758089)
<b>VIMALRAJ.T</b>	<b>(561758097)</b>
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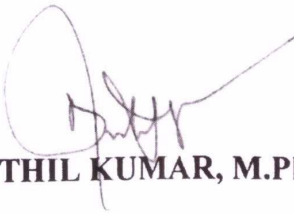
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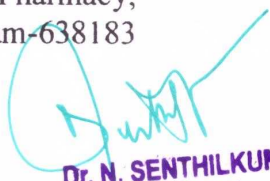
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## 9. SUMMARY AND CONCLUSION

*Ecbolium viride* leaves is one of the Indian traditional drugs widely used in the southern parts of India for treatment of diabetics. In addition, this drugs was said to effective in the treatment of diabetics related complications.

The Preliminary Phytochemical investigation of different extracts were compared. It shows good co-relation between them. The *invitro* antidiabetic investigation shows good co-relation between them.

Finally it conclude *Ecbolium viride* leaves is good biomarker for diabetic patients.



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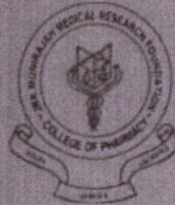
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Submitted by

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Evaluated By  
V. V. S. D  
24/11/21



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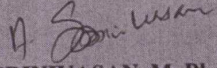
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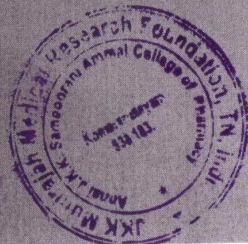
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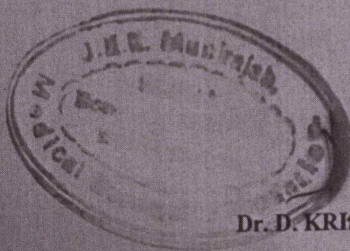
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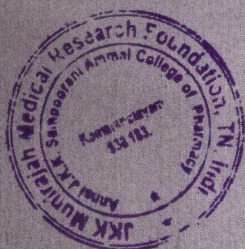
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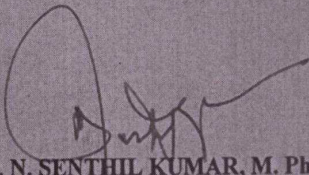
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


28.02.2022

## HOSPITAL FIELD TRAINING

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2.	381710402	ASHA M	19	381710420	VEDIYAPPAN V
3.	381710403	ASHRITHA D N	20	381710421	YOGAVARSHINI K S
4.	381710404	DEEPIKA K	21	381710422	AHAMMED KABEER
5.	381710405	HARINI R	22	381710423	AMRUTHA M.K
6.	381710406	JAYAPRAKASH U	23	381710424	CHANDNA THERASA MATHEW
7.	381710407	JEBISH G S	24	381710425	DEBORAH ROSE
8.	381710408	JEMISHA J	25	381710426	HELENNA M
9.	381710409	KAVINKISHORE S	26	381710427	MUNEER T
10.	381710411	MUKILAN M	27	381710428	NISSY ESTHER JOHN
11.	381710412	NATHIYA A	28	381710429	SAMUEL BABU
12.	381710413	PREETHI T	29	381710430	NAIVIN D ALMEDA
13.	381710414	PUSHPARAJ A	30	381510328	RAVEENA A
14.	381710415	RAGHUL G	31	381510414	OBINCHU N ONGUBO ROBIN
15.	381710416	SHANGEETHA S	32	381510426	STALIN ANTONY
16.	381710417	SUDHARSAN V	33	381610425	TAMILSELVAN N
17.	381710418	SULIMAN B			

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03.12.2021

## HOSPITAL FIELD TRAINING

This is to certify that the following III<sup>rd</sup> B.Pharm students from JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam, Namakkal have successfully completed 15 days of Health Care Facility & Based Learning Hospital field training in Maaruthi Medical Center and Hospital, Erode (17.11.2021 to 02.11.2021).

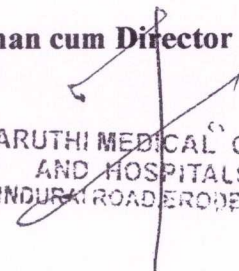
S.NO	REG.NO	NAME	S.NO	REG.NO	NAME
1.	561858017	GAUTHAM G	11	561858028	KARAN M
2.	561858018	GOKULPRIYA M	12	561858029	KAVI PRIYA M
3.	561858019	HARISH A	13	561858030	KAVIARASU G
4.	561858020	INBAKUMAR K	14	561858031	KAVIN P
5.	561858022	JAYAPRAKASH D	15	561858032	KAVIN S
6.	561858023	JEEVA S	16	561858034	MADHAN KUMAR N
7.	561858024	JISHAN M.K	17	561858036	MOHANDAS N
8.	561858025	JOHN PAUL E	18	561858037	MUTHUKUMAR E
9.	561858026	KALAISELVAN P	19	561858039	NARMATHA S
10.	561858027	KALIRAJ S A	20	561858040	NAZIM M K

  
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17.11.2021

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This is to certify that below mentioned II<sup>nd</sup> B.Pharm students from JKKMMRF'S Annai JKK Sampoorani Ammal College Of Pharmacy, Komarapalayam, Namakkal has successfully completed 15 days (02.11.2021 to 16.11.2021) of Health Care Facility & Based Learning Hospital field training in Maaruthi Medical Center and Hospital, Erode.

S.NO	REG.NO	NAME	S.NO	REG.NO	NAME
1.	561958082	SHARMA SMITH L	11	561958093	UMA MAHESWARI M
2.	561958083	SHRI HARIDHA K	12	561958094	UTHAYAKUMAR T
3.	561958084	SIVANANDHAN P	13	561958095	VIDHYA DHARSHNI V
4.	561958085	SOWMIYA R	14	561958096	VIGNESHWARAN B
5.	561958086	SUDEEP CHANDRAN	15	561958097	VIJAYA DEVAN G
6.	561958087	SUDHARSAN S	16	561958098	VIJAYJEBASTIN T
7.	561958088	SUMITHA M	17	561958099	VIKNEESH R
8.	561958090	SUSANTHKUMAR R	18	561958100	VISHNUPRIYAN R
9.	561958091	TAMILSELVAN J	19	560020507600	JAYAPRASHTH M
10.	561958092	TAMILSELVAN M A	20	560020507601	JESTIN JOSEN P
			21	560020507602	THAMILARASAN R

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**PHYTOCHEMICAL SCREENING AND *IN VITRO* ANTI DANDRUFF  
ACTIVITIES OF LEAF EXTRACT OF *AZADIRACHTA INDICA***

*Dissertation submitted to*

THE TAMILNADU Dr. M.G.R.MEDICAL UNIVERSITY  
CHENNAI- 600 032

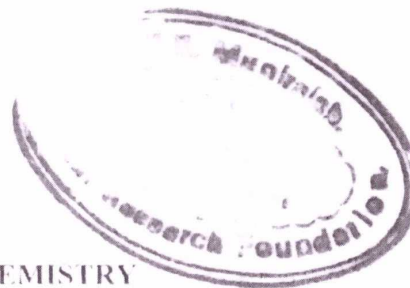
*In partial fulfillment of the requirements for the award of the degree of*  
**BACHELOR OF PHARMACY**  
IN  
**PHARMACEUTICAL CHEMISTRY**

**Submitted by:**

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<b>KARTHIKEYAN.M</b>	<b>(REG.NO.561758041)</b>
KAVINRAJ.G	(REG.NO.561758044)
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**Dr.K.SUMATHI,M.Pharm., Ph.D.,**



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### CERTIFICATE

This is to certify that the dissertation entitled **PHYTOCHEMICAL SCREENING AND IN VITRO ANTI DANDRUFF ACTIVITIES OF LEAF EXTRACT OF AZADIRACHTA INDICA** is a bonafide work done by,

DINESHKUMAR.B	(REG.NO.561758019)
KARTHIKEYAN.M	(REG.NO.561758041)
KAVINRAJ.G	(REG.NO.561758044)
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UDHAYABALAJI.R	(REG.NO.561758093)

Under my guidance and supervision in the department of Pharmaceutical Chemistry, **JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy Komarapalayam** in a partial fulfillment of requirements for the Degree of Pharmacy and this is forwarded to the **Tamil Nadu Dr. MGR. Medical University, Chennai.**



**Dr. N. SENTHILKUMAR,**  
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Date:



**Dr.K.SUMATHI,M.Pharm., Ph.D.,**  
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<b>DINESHKUMAR.B</b>	<b>(REG.NO.561758019)</b>
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B.Pharm (Final Year) JKKMMRF's Annai JKK Sampoorani Ammal College of Pharmacy, Komarapalayam, Submitting the dissertation work in partial fulfillment for degree of Bachelor of Pharmacy of The Tamil Nadu Dr.M.G.R Medical University, Chennai, Under the guidance and supervision of **Dr.K.SUMATHI.,M.Pharm., Ph.D.,** Associate Professor, Department of Pharmaceutical Chemistry, during the academic year 2020-2021.

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Date: 18/4/22



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6.CONCLUSION :

Both ethanolic and aqueous extracts of *A. indica* showed the presence of significant anti-dandruff activity against two malassezia species such as (*M. globosa* and *M. restricta*), compare to other three tested extracts. Therefore, *A. indica* was established good anti-dandruff activity.

This work will give background record to use *A. indica* as a potential therapeutic anti-dandruff drug and curing the fungal-related diseases.



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