



JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

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Thookanaickenpalayam, Gobichettipalayam (TK), Erode (DT) - 638506, Tamil Nadu.

1.3.2 LIST OF STUDENTS UNDERTAKING PROJECT WORK / FIELD WORK / INTERNSHIP FOR THE ACADEMIC YEAR 2022 – 2023

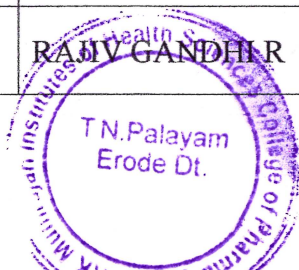
PROJECT BATCH LIST 2022 – 2023

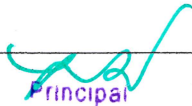
Name of Program: **B.Pharm**

Program Code: **56**

Year: **Final Year**

S. No	Register Number	Student Name	Project Title	Name of the Guide
1	561894059	KAMALAKANNAN K	ISOLATION OF CAPSAICIN FROM VARIOUS SPECIES OF CHILI PEPPERS	DR. P. PERUMAL
2	561994107	KANNAIAN G		
3	561894038	PRAVEEN A		
4	561894041	RAGUL KANNAN R.		
5	561894052	SURYA R		
6	561794055	VASANTHAKUMAR G	DEVELOPMENT OF NEW AND NOVEL ANALYTICAL METHODS OF AND ITS VALIDATION OF VALSARTAN IN PURE AND PHARMACEUTICAL DOSAGE FORM BY UV-SPECTROMETRY METHOD	DR. P. MOHANRAJ
7	561894028	MOHAMED SABEEL V		
8	561894031	NAKKEERAN S		
9	561894032	NAVEENKUMAR V		
10	561994104	GOWRISANKAR K.		
11	561894006	DINESH V	FORMULATION AND EVALUATION OF CLOPIDOGREL BISULPHATE LOADED CHITOSAN MICROSPHERES	DR. S. SELVARAJ
12	561894016	HARISH KUMAR E		
13	561994101	BASKARAN B		
14	561994103	DINESH KUMAR V		
15	561994114	RAJIV GANDHI R		



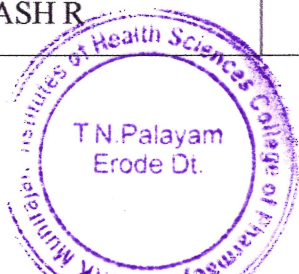

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S. No	Register Number	Student Name	Project Title	Name of the Guide
16	561894048	SELVI R	TO STUDY THE COMPARISON OF VARIOUS ANTIFUNGAL ASSAY METHODS USING KETOCONAZOLE CREAM	DR. KK. SENTHILKUMAR
17	561894053	TAMILAMUTHAN V		
18	561894055	UDHAYANITHI K		
19	561994115	SAMUVEL DAVID P		
20	561894008	GOKUL G	COMPARISON OF ANTIBACTERIAL ACTIVITY OF SECONDARY METABOLITE OF ACTINOMYCETES ISOLATED FROM LAKE SEDIMENTS OF TAMILNADU	Mr. S. KANNAN
21	561894017	INDHUMATHI P		
22	561994106	JAYASEELAN B		
23	561994110	NITHESHWAR H		
24	561994117	SHANKARADAS T		
25	561894029	NAGARAJ M	A STUDY ON SKIN PIGMENTATION IN ADULTS AND IT'S HERBAL TREATMENT - REVIEW	DR. J. PRIYA
26	561894054	THILAGAVARMAN S		
27	561894057	VIGNESHMOORTHY T		
28	561994108	KRISHNADEVI R		
29	561794009	BHARATHI P	A REVIEW ON INVESTIGATION OF VARIOUS FRUITS FROM UMBELLIFERAE FAMILY USED AS HERBAL MEDICINE	DR. S. GANDHIMATHI
30	561894004	ARUN SURYA M		
31	561894009	GOKUL J		
32	561894015	HARI PRASATH D		
33	561894036	PRAKASH R		




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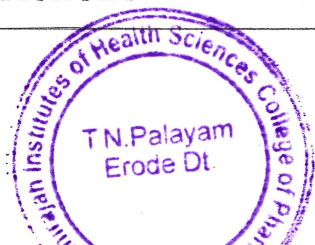
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34	561794004	ARULMURUGAN K	A REVIEW ON ANALYSIS OF ANTICONVULSANT ACTIVITY OF VARIOUS MEDICINAL PLANTS	DR. K. ABHENAYA
35	561894012	GOVINDARAJ A		
36	561894033	PRADEEP RAJ V		
37	561994118	SHEIK MOIDHEEN A		
38	561994120	VAITHEESHWARAN MK		
39	561794044	SABARISH M	FORMULATION AND IT'S EVALUTION OF NOVEL ANTI- AGING CREAM CONTAINING ETHYL ACETATE EXTRACTS OF MUCUNA SEEDS	Mr. G. M. SIVAKUMAR
40	561894024	LOKESHWARAN M		
41	561894026	MANOJ KUMAR S		
42	561894044	SANGEETHA B		
43	561894063	LOSHINI M		
44	561794022	HARISH G	FORMULATION AND EVALUATION OF ANTI ULCER SYRUP ON LEAVES OF PUNICA GRANATUS (L)	Ms. M. REVATHI
45	561894020	JIGNESH G		
46	561894022	KARTHICK N		
47	561894035	PRAKASH M		
48	561894060	KARTHIKEYAN S		
49	561894011	GOPINATH S	FORMULATION, DEVELOPMENT AND EVALUTION OF ANTIFUNGAL PRONISOMAL GEL FOR TOPICAL APPLICATION	Mr. K. GOBINATH
50	561894030	NAIDU SHREYA CHANDRASHEKHAR		
51	561994102	DEEPAKKUMAR D		
52	561994109	NIRMAL G		
53	561994113	RAGHUL P		



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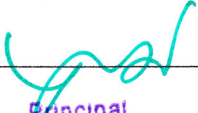


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S. No	Register Number	Student Name	Project Title	Name of the Guide
54	561894001	ABARNA A	A REVIEW ON EVALUATION OF THERAPEUTIC ACTIVITIES IN CORALLOCARPUS EPIGAEUS RHIZOMES	Mrs. K. AMUDHAVALLI
55	561894002	ADINATHAN R		
56	561994111	NITHISH B		
57	561894056	UMAMAHESHWARI S		
58	561894058	VIJAY R		
59	561794052	THAMARA KANNAN K	REVIEW OF RISK FACTOR PREVENTION, STRATEGIES AND MANAGEMENT APPROACHES OF CYCLOPHOSPHAMIDE IN CANCER TREATMENT	Dr. I. BALAJI
60	561894005	BARATH R		
61	561894021	KALYANKUMAR H		
62	561994100	ARUN KUMAR P		
63	561994105	JAGANATHAN S		
64	561894023	LALILKUMAR M	DETERMINATION AND VALIDATION OF GANAXOLONE BY USING DOUBLE BEAM UV SPECTROPHOTOMETER	Mrs. K. KANAGAPRIYA
65	561894025	MANIRAJ V		
66	561894064	PRAVEEN KUMAR R		
67	561994112	PRAPANCHAN G		
68	561994116	SANTHANAKUMAR B		
69	561894047	SELVAMANI R	A UPDATED REVIEW OF ANTIBIOTIC DRUGS	Mrs. K. SARANYA
70	561894050	SIVASRITHARAN M		
71	561894051	SUNDHARAMUKIL S		
72	561994119	SURYA A		
73	561994121	VIJAY S		




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College of Pharmacy, T.N. Palayam,
Gobi (Tk), Erode (Dt) - 638 506

ISOLATION OF CAPSAICIN FROM VARIOUS SPECIES OF CHILI PEPPERS

A Dissertation submitted to

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

In partial fulfillment of requirement for the award of degree of

BACHELOR OF PHARMACY

Submitted by

Mr. KAMALAKANNAN. K

REGISTER NO: 561894059

Mr. KANNAIAN. G

REGISTER NO: 561994107

Mr. PRAVEEN. A

REGISTER NO: 561894038

Mr. RAGUL KANNAN. R

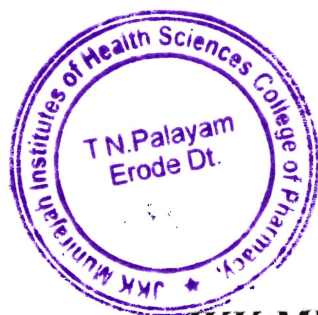
REGISTER NO: 561894041

Mr. SURYA. R

REGISTER NO: 561894052

UNDER THE GUIDANCE OF

Dr. P. PERUMAL, M. Pharm., Ph.D., FIC.,
Professor & Principal
HOD, Department of Pharmaceutical Chemistry



SEPTEMBER-2022

per

Principal

JKK Munirajah Institute of Health Sciences
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Gobi (Tk), Erode (Dt) - 638 506

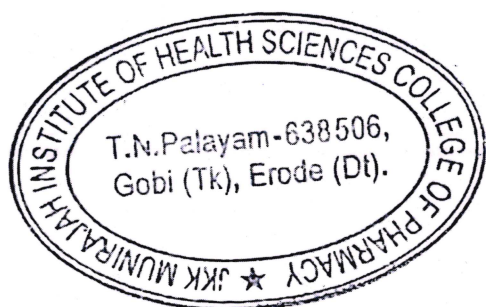
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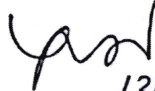
COLLEGE OF PHARMACY

T.N.PALAYAM, ERODE (DT), TAMILNADU-638 506

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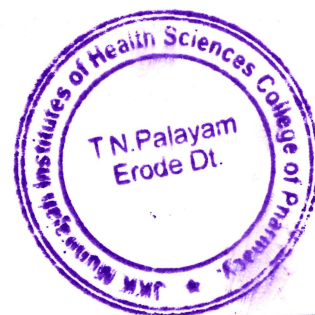



13/3/23
Dr. P. Perumal, M. Pharm, Ph.D., FIC.,
Principal,
JKK Munirajah Institute of Health Sciences
College of Pharmacy,
T.N. Palayam,
Erode 638506.

Place: T.N. Palayam

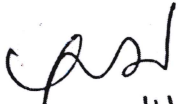
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Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N. Palayam,
Gobi (Tk), Erode (Dt) - 638 506




EVALUATION CERTIFICATE

This is to certify that the dissertation work entitled "ISOLATION OF CAPSAICIN FROM VARIOUS SPECIES OF CHILI PEPPERS" submitted by Reg.No: 561894038, 561894041, 561894052, 561894059 and 561994107 to the Tamil Nadu Dr. M.G.R Medical University, Chennai, in partial fulfillment for the award of Degree of Bachelor of Pharmacy is evaluated by us during the academic year 2021-2022.


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Signature of Internal Examiner


11/4/23

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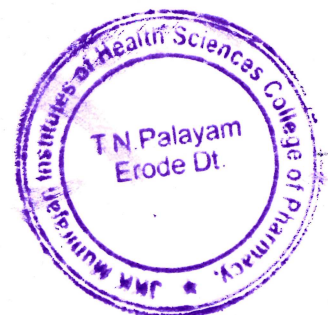
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College of Pharmacy, T.N.Palayam,
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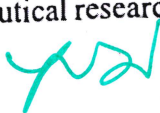
8. CONCLUSION

The study concluded that the content of capsaicin in capsicum was influenced by the difference of species. These capsaicinoids are mainly capsaicin and dihydrocapsaicin and to have an organic extract that can be used for food applications they should be extracted with acetone and/or ethanol. The developed method is a efficient, and accurate method for the estimation of capsaicin from chili peppers. The method can be used for the large-scale estimation of capsaicin from chili peppers for various industrial and medicinal applications. Determination of capsaicin from peppers typically involves several steps, including, extraction and estimation.

UV spectrophotometry is a widely used method for the estimation of capsaicin in chili peppers and other capsaicin-containing products. The estimation of capsaicin from chili peppers is a crucial step in the production and formulation of capsaicin-based products. The traditional methods for the estimation of capsaicin are time-consuming and labor-intensive. Measurements of the concentration of capsaicin in the extracts were evaluated through their absorbencies measured at 280nm. A simple linear regression curve was plotted using standard capsaicin. A stock solution of 1mg/ml capsaicin was prepared and different concentrations from 0.2- 1.2 μ g/ml were prepared from the stock solution. The absorbencies for standard dilutions were also measured and used to prepare the linearity curve presented.

Various Agricultural varieties of Chili samples subjected are Andhra chili, Ramnad chili and Samba variety chili. Capsaicinoid concentrations in the samples were estimated calculated using capsaicin linear regression equation. The capsaicinoid content was found to be Andhra chili variety (1.142%), Ramnad chili variety (1.071%) and Samba chili variety (0.871%) respectively.

In conclusion, the isolation of capsaicin using acetone as a solvent and determination of capsaicin using UV spectrophotometer is an essential method for pharmacy research theses. The successful isolation and quantification of capsaicin can lead to the development of this compound. The use of acetone as a solvent and UV spectrophotometry for capsaicin determination are simple, reliable, and cost-effective methods that can provide valuable information for pharmaceutical research.


Principal

**Development of new and novel analytical methods of and its
validation of Valsartan in pure and pharmaceutical dosage
form by UV-spectrometry method**

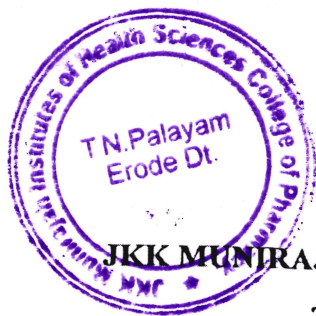
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UNIVERSITY CHENNAI-600 032**

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

Submitted by

Mr. VASANTHAKUMAR.G	REGISTER NO: 561794055
Mr. MOHAMED SABEEL.V	REGISTER NO: 561894028
Mr. NAKKEERAN.S	REGISTER NO: 561894031
Mr. NAVEENKUMAR.V	REGISTER NO: 561894032
Mr. GOWRISANKAR.K	REGISTER NO: 561994104

**Under the guidance of
Dr. P. MOHANRAJ, M.Pharm,Ph.D.,
Professor Department of
Pharmaceutical chemistry**



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JKK Murirajah Institute of Health Sciences
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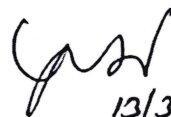
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T.N. PALAYAM, GOBI, ERODE Dt, TAMILNADU-638506

SEPTEMBER 2022

CERTIFICATE

This is to certify that the dissertation entitled "*Development of new and novel analytical methods and its validation for the estimation of a valsartan in pure and pharmaceutical dosage form by UV-spectrometry method*" is the bonafide work of Mr.VASANTHAKUMAR.G, Mr.MOHAMED SABEEL.V, Mr. NAKKEERAN.S, Mr.NAVEENKUMAR.V, Mr.GOWRISANKAR.K, and this work was carried out in the Department of Pharmaceutical analysis, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode under the direct supervision and guidance of Dr.P.MOHANRAJ, M.Pharm,Ph.D., Professor. This dissertation is submitted to The TamilNadu Dr.M.G.R Medical University, towards partial fulfillment of requirement for the award of Bachelor of Pharmacy during the academic year 2021-2022.


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Prof. Dr.P. Perumal, M. Pharm, Ph.D., FIC,

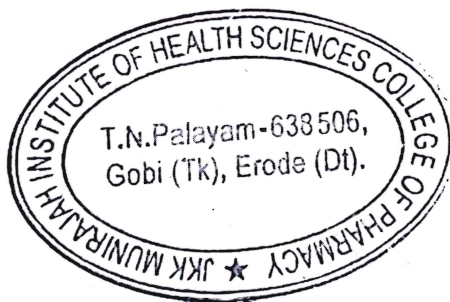
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Jkk Munirajah Institute of Health

Sciences College of Pharmacy,

T.N. Palayam,

Erode - 638506.



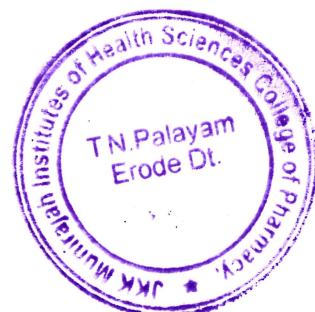
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Date: 13/3/22




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Dr.P.MOHANRAJ, M.Pharm, Ph.D,

Professor,

Jkk Munirajah Institute of Health

Sciences College of Pharmacy,

T.N. Palayam,

Erode - 638506.

Place: T.N.Palayam

Date: 11.4.2023



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7. SUMMARY AND CONCLUSION

UV SPECTROMETRY METHOD:

It reports a UV Spectrophotometric method for the estimation of Valsartan in pure and pharmaceutical dosage form.

In standardization of method, initially the solvent and wavelength were selected. After that different concentration solutions were prepared and scanned in the UV region between 200-400nm and the absorbance maxima was found at 250.0 nm. By Using the absorbance values against concentrations calibration curve was plotted. From the graph it was found that Valsartan obeys Beer's law between 10- 60 μ g/ml.

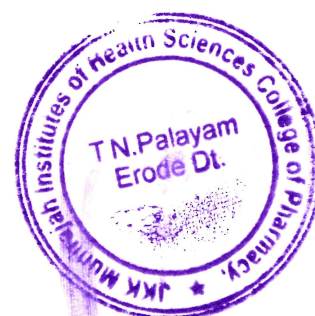
The brand of formulation shows the percentage purity values range from 104.45 to 110.37% w/w. The percentage deviation values were found to be between ± 4.4 to ± 3.3 .

The repeatability values vary from 100.75 to 102.37% w/w. The results obtained in repeatability test expresses the precision of the given method.

The recovery values vary from 102.3 to 105.0% w/w. This serves as a good index of accuracy and reproducibility of the study.



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Submitted by

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Mr. E. HARISH KUMAR	REGISTER.NO: 561894016
Mr. B. BASKARAN	REGISTER.NO: 561994101
Mr. V. DINESH KUMAR	REGISTER.NO: 561994103
Mr. R. RAJIV GANDHI	REGISTER.NO: 561994114

Under the Guidance of

DR. S. SELVARAJ, M.Pharm., Ph.D.,

Professor & HOD

Department of Pharmaceutics



Principal

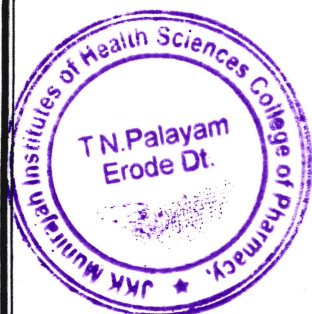
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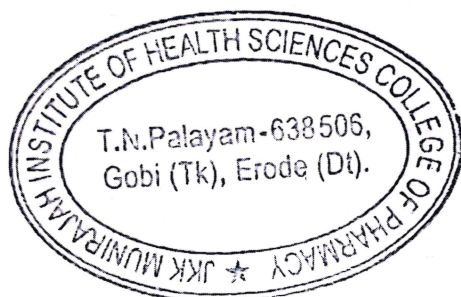
T.N.PALAYAM, GOBI (TK), ERODE (DT) – 638506

September-2022



CERTIFICATE

This is to certify that the work embodied in this dissertation entitled "FORMULATION AND EVALUATION OF CLOPIDOGREL BISULPHATE LOADED CHITOSAN MICROSPHERES" is a bonafide project work of Mr. V. DINESH (561894006), Mr. E. HARISH KUMAR (561894016), Mr. B. BASKARAN (561994101), Mr. V. DINESH KUMAR (561994103), Mr. R. RAJIV GANDHI (561994114) in the Department of Pharmaceutics, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi(TK), Erode(DT) under the guidance and direct supervision of DR. S. SELVARAJ, M.Pharm., Ph.D, Professor & HOD, Department of Pharmaceutics. This dissertation is submitted to The Tamil Nadu Dr.M.G.R Medical University towards partial fulfillment of requirements for the award of Bachelor of Pharmacy during the academic year 2021-2022.




13/03/2023
DR. P. PERUMAL, M. Pharm., Ph.D., FIC.,

Principal,

JKK Munirajah Institute of Health Sciences

College of Pharmacy,

T.N.Palayam, Gobi(TK),

Erode(DT) – 638506.

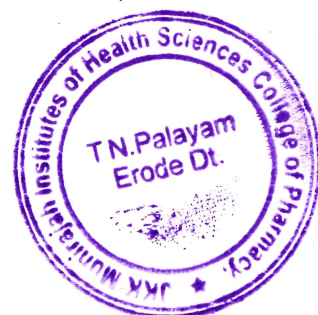
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JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



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INTERNAL EXAMINAR



EXTERNAL EXAMINAR

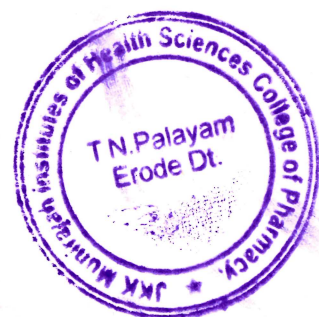
Place: T. N. Palayam

Date: 11/4/23



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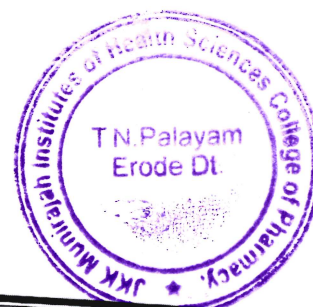
10. CONCLUSION

The present study reported that the development of clopidogrel bisulphate loaded chitosan microspheres were prepared by emulsion cross-linking method. The mean particle size, micromeritic properties, morphological characteristics, percentage yield, encapsulation efficiency and loading capacity of the microspheres appear to depend on the concentration of polymer. The *in-vitro* release profile of a clopidogrel bisulphate from microspheres has shown a slow controlled release following zero order kinetic with Non-Fickian diffusion mechanism. The accelerated stability of the microspheres was studied after 90 days in which it showed no interaction based on temperature, humidity and light. The results demonstrated the effective use of clopidogrel bisulphate loaded chitosan microspheres as a controlled release preparation for treatment of coronary artery diseases.



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Gobi (Tk), Erode (Dt) - 638 506



**“TO STUDY THE COMPARISON OF VARIOUS ANTIFUNGAL ASSAY
METHODS USING KETOCONAZOLE CREAM.”**

A Dissertation submitted to

THE TAMILNADU Dr. M.G.R.MEDICAL UNIVERSITY, CHENNAI-600032

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

BACHELOR OF PHARMACY

SUBMITTED BY

Ms. SELVI. R REGISTER NO: (561894048)

Mr. TAMILAMUTHAN.V REGISTER NO: (561894053)

Mr. UDHAYANITHI.K REGISTER NO: (561894055)

Mr. SAMUVEL DAVID.P REGISTER NO: (561994115)

UNDER THE GUIDANCE OF

Dr.K.K.SENTHILKUMAR, M.Pharm, Ph.D.,

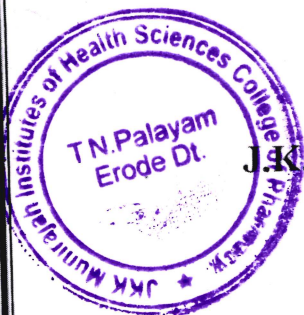
HOD & Associate Professor,

Department of Pharmaceutical Analysis



SEPTEMBER-2022

Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N. Palayam,
Gobi (Tk), Erode (Dt) - 638 506



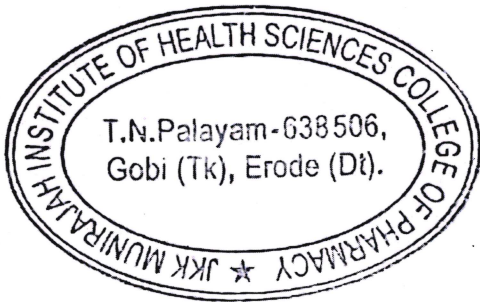
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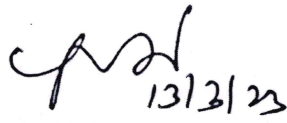
COLLEGE OF PHARMACY

T.N.PALAYAM,ERODE(Dt) TAMILNADU-638506

CERTIFICATE

This is to certify that the dissertation entitled “ TO STUDY THE COMPARISON OF VARIOUS ANTIFUNGAL ASSAY METHODS USING KETOCONAZOLE CREAM.” Submitted to the Tamil Nadu Dr.M.G.R Medical University, Chennai is a bonafide project work of Reg.No: 561894048, 561894053, 561894055 and 561994115 carried out in the Department of Pharmaceutical Analysis, JKK Munirajah Institute of Health Science College of Pharmacy, T.N-Palayam, Gobi, Erode for the partial fulfilment for the degree of Bachelor of Pharmacy under the guidance of Dr.K.K.SenthilKumar, M.Pharm, Ph.D., HOD & Associate professor, Department of Pharmaceutical Analysis, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N Palayam, Gobi, Erode during the academic year 2021-2022.




13/3/23
Dr.P.Perumal, M.Pharm, Ph.D.,FIC,
Principal,
JKK Munirajah Institute of health
Sciences College of Pharmacy,
T.N.Palayam, Gobi,
Erode -638506.

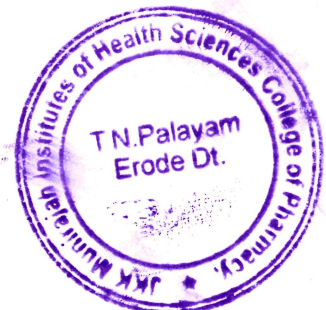
Place: T.N Palayam, Gobi

Date : 13/03/2023




Principal


JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



EVALUATION CERTIFICATE


This is to certify that the dissertation work entitled "TO STUDY THE COMPARISON OF VARIOUS ANTIFUNGAL ASSAY METHODS USING KETOCONAZOLE CREAM." Submitted by Reg.no:561894048, 561894053, 561894055 and 561994115 carried out in the Department of Pharmaceutical Analysis, JKK Munirajah institute of Health sciences College of Pharmacy, T.N.Palayam, Gobi, Erode. To the Tamil Nadu Dr.M.G.R Medical university, Chennai. In partial fulfilment for the award of degree of Bachelor of Pharmacy is evaluated by us during the academic year 2021-2022


11/4/23
Signature of Internal Examiner


11/4/23
Signature of External Examiner

Place: T.N Palayam, Gobi

Date: 11/4/23


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Gobi (Tk), Erode (Dt) - 638 506



CONCLUSION

We made an attempt to study the effect of Ketoconazole 2% cream in various micro-organism like

- Candida albicans
- Aspergillus parasiticus
- Aspergillus niger
- Aspergillus fumigatus

From the above work we conclude the Ketoconazole 2% cream is an effective against the micro-organism,

- Cup plate method (highest zone of inhibition of about)
- Disc plate method (highest zone of inhibition of about)
- Turbidimetric method (transmitted variation of about)

From these three methods, we conclude that the “**TURBIDIMETRIC METHOD**” is the best method. Because, it takes 8 hours to study the effect of antifungal while other methods takes 72 hours



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Gobi (Tk), Erode (Dt) - 638 506



**COMPARISON OF ANTIBACTERIAL ACTIVITY OF SECONDARY METABOLITE OF
ACTINOMYCETES ISOLATED FROM LAKE SEDIMENTS OF TAMILNADU**

A dissertation submitted to

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

In partial fulfillment of requirement for the award of degree of

BACHELOR OF PHARMACY

Submitted by

Mr. GOKUL G	REGISTER NO: 561894008
Ms. INDHUMATHI P	REGISTER NO: 561894017
Mr. JEYASEELAN B	REGISTER NO: 561994106
Mr. NITHESHWAR H	REGISTER NO: 561994110
Mr. SHANKARADAS T	REGISTER NO: 561994117

Under the guidance of

Mr. KANNAN S, M.Pharm.,

Associate Professor,

Department of Pharmaceutics.



JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

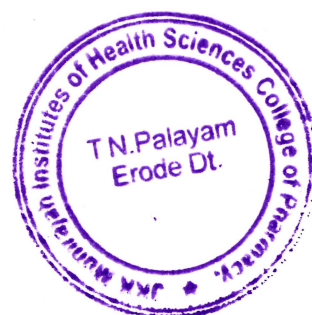
T.N. PALAYAM, GOBICHETTIPALAYAM (TK), ERODE (DT),

TAMILNADU - 638506.

SEPTEMBER - 2022

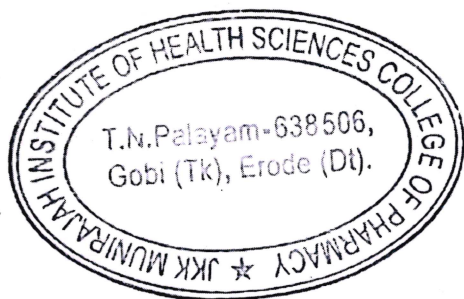
Principal

JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



CERTIFICATE

This is to certify that the dissertation entitled “*COMPARISON OF ANTIBACTERIAL ACTIVITY OF SECONDARY METABOLITE OF ACTINOMYCETES ISOLATED FROM LAKE SEDIMENTS OF TAMILNADU*” is a bonafide project work of Reg no: 561894008, 561894017, 561994106, 561994110, 561994117 this work were carried out in the Department of Pharmaceutics, JKK.Munirajah Institute of Health Sciences College of Pharmacy, T.N Palayam, Gobi, Erode, under direct supervision and guidance of Mr. S. Kannan, M.Pharm., Associate Professor, Department of Pharmaceutics. This dissertation is submitted to The Tamil Nadu Dr.M.G.R Medical University towards partial fulfillment of requirements for the award of Bachelor of Pharmacy during the academic year 2021-2022.



[Handwritten Signature]
13/3/23

Prof. Dr. P. Perumal, M.Pharm, Ph.D., FIC,

Principal,

JKK Munirajah Institute of Health

Sciences College of Pharmacy,

T.N.Palayam,

Erode - 638506.

Place: T.N.Palayam

Date: 13/3/2023

[Handwritten Signature]

Principal

JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



EVALUATION CERTIFICATE

This is to certify that the dissertation entitled "*COMPARISON OF ANTIBACTERIAL ACTIVITY OF SECONDARY METABOLITE OF ACTINOMYCETES ISOLATED FROM LAKE SEDIMENTS OF TAMILNADU*" submitted by Reg.no: 561894008, 561894017, 561994106, 561994110, 561994117 to The Tamil Nadu Dr.M.G.R Medical University, Chennai and this work was carried out in the partial fulfillment of requirement for the Degree of Bachelor of Pharmacy is a record of bonafide work carried out by the candidates at the Department of Pharmaceutics, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode and was evaluated by us during the academic year 2021-2022.


Signature of Internal Examiner

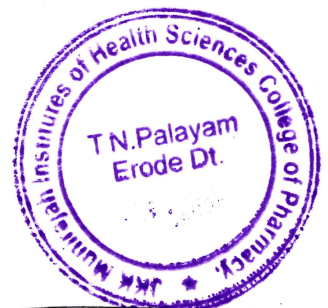

Signature of External Examiner

Place: T.N.Palayam

Date:



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JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



7. SUMMARY AND CONCLUSION

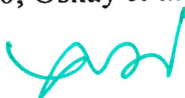
7.1. Diversity of actinomycetes

In the present study, totally three strains of actinomycetes were isolated from lake sediment samples environmental location of Erode (Gunderipallam), Salem (Paniyeri) and Viruthunagar (Muraneri) Districts of Tamilnadu in India. In the present investigation, among three isolates of actinomycetes, only one actinomycete isolated from Erode (Gunderipallam) was identified as potential antibiotic producer with antimicrobial activity against Gram-positive and Gram-negative species by cross streak method. These results confirmed the presence of immense potential in screening and characterization of new compounds for therapeutic purposes. Thus, the present study was undertaken to identify new drugs from marine microorganisms against human pathogens.

7.2. Morphological and biochemical characterization

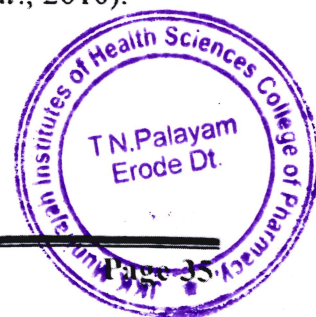
Identification of *S. hygroscopicus* species could be confirmed by morphological, cultural and biochemical characteristics. Colony formation, vegetative and aerial mycelium, structure of sporophores and spores are the most important features of identification of *Streptomyces*. Colour of aerial aerial and substrate mycelium is considered to be an important character for the grouping and identification of actinomycetes (Pridham and Tresner, 1974). In the present study chalky white coloured and gray coloured isolated were noted. Such a dominance of members of gray series has already been reported in different soils (Pridham and Tresner, 1974; Kim *et al.*, 1999; Ndonde and Semu, 2000).

Various biochemical parameters of the *Streptomyces* were used for their identification (Gottlieb, 1961; Jones and Bradley, 1964; Manfio *et al.*, 2003). The production of citrase and oxidase are considered for characterizing *Streptomyces* (Nitsch and Kutzner, 1969; Gotoh *et al.*, 1982). In the present study it was found that citrase was produced by *S. hygroscopicus*. Hydrolysis of starch and casein were also considered for characterizing the *Streptomyces* spp. The ability to degrade many of such compounds by the species of *Streptomyces* has also been reported by many workers (Waksman, 1957; 1959; 1961; Mishra, 1980; Oskay *et al.*, 2004; Sallam *et al.*, 2010).



Principal

JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



**A STUDY ON SKIN PIGMENTATION IN ADULTS AND
IT'S HERBAL TREATMENT-REVIEW**

A dissertation submitted to
**THE TAMILNADU Dr. M.G.R MEDICAL
UNIVERSITY CHENNAI-600 032**

In partial fulfillment of the requirements for the award of degree of
BACHELOR OF PHARMACY

Submitted by

Mr. NAGARAJ.M	REGISTER NO: 561894029
Mr. THILAGAVARMAN.S	REGISTER NO: 561894054
Mr. VIGNESHMOORTHY.T	REGISTER NO: 561894057
Ms. KRISHNADEVI.R	REGISTER NO: 561994108

Under the guidance of
DR. J.PRIYA, M. Pharm, PhD.,
Associate Professor,
Department of Pharmaceutical chemistry



Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N. Palayam,
Gobi (Tk), Erode (Dt) - 638 506

JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

TN PALAYAM, GOBI, ERODE Dt, TAMILNADU-638506

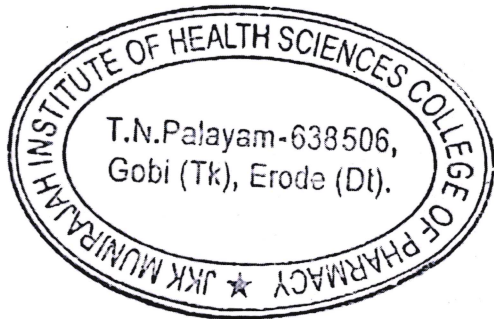
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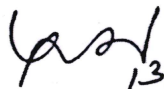
CERTIFICATE

This is to certify that the dissertation entitled "*A Study on Skin Pigmentation In Adults and it's Herbal Treatment – Review*" is the bonafide work of Mr. NAGARAJ.M, Mr. THILAGAVARMAN.S, Mr. VIGNESHMOORTHY.T, Ms. KRISHNADEVI.R and this work was carried out in the Department of Pharmaceutical Chemistry, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode under the direct supervision and guidance of DR. J. PRIYA, M.Pharm, Ph.D. Associate Professor. This dissertation is submitted to The TamilNadu Dr.M.G.R Medical University, towards partial fulfillment of requirement for the award of Bachelor of Pharmacy during the academic year 2021-22.

Place: T.N.Palayam

Date: 13/3/23

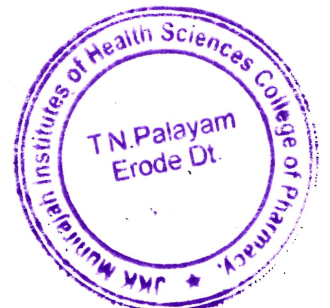



13/3/23
Prof. DR. P. Perumal, M. Pharm, Ph.D., FIC,
Principal,

Jkk Munirajah Institute of Health
Sciences College of Pharmacy,
T.N.Palayam,
Erode - 638506.



Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



DECLARATION

We, Mr. NAGARAJ.M, Mr. THILAGAVARMAN.S, Mr. VIGNESHMOORTHY.T, Ms .KRISHNADEVI.R, solemnly declare that this dissertation entitled, is a original research work done by us in the Department of Pharmaceutical Chemistry, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode under the guidance and direct supervision of DR.J. PRIYA , M. Pharm , PhD., Associate Professor . We also declare that neither the full thesis nor a part of the thesis is submitted for any publication or incorporation in any other project . This dissertation is submitted to The TamilNadu Dr .M.G.R Medical University , towards partial fulfillment of requirement for the award of Bachelor of Pharmacy during the academic year 2021-22.

N. Nagaraj

Mr. NAGARAJ.M
(561894029)

Thilagavaman

Mr. THILAGAVAMAN.S
(561894054)

Vigneshmoorthy

Mr. VIGNESHMOORTHY.T
(561894057)

Krishnadevi

Ms. KRISHNADEVI.R
(561994108)

Place: T.N.Palayam

Date: 11.4.2023

[Signature]
11/4/23

Signature of Internal Examiner

[Signature]
11/4/23

Signature of External Examiner

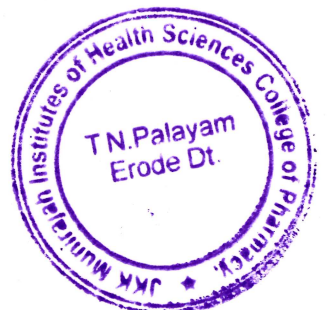
Date of Examination

11/04/23

[Signature]

Principal

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College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



RESULT AND DISCUSSION:

Best formulations taken from the market, three formulations has been selected and reviewed for having efficient Pharmacological activity against Hypo and Hyper pigmentation. Comparisons between the selected three formulations have been done. Based on the Graph A) Erythema index B) Melanin C) Sebum.

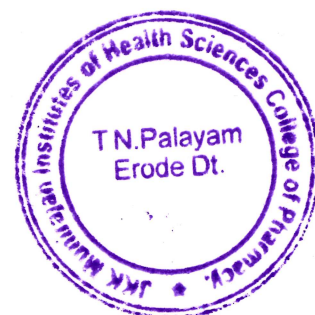
For Hyper Pigmentation Formulation three, high no. of active ingredients present in the a) cucumber extract b) Tamarind c) Lemon d) Aloe Vera e) Castor Oil. These five active ingredients play main role in the treatment of melasma by decreasing the erythema, melanin, sebum content in the skin.

For Hypo Pigmentation no. of active ingredients present in the formulation three a) Solanum Nigrum, b) Psoralea Corylifolia, c) Nigella Sativa. These three active ingredients play important role in the decrease of erythema, melanin, sebum content in the skin and reduce the vitiligo.



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JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



*A REVIEW ON INVESTIGATIONS OF VARIOUS FRUITS FROM UMBELLIFERAE
FAMILY USED AS HERBAL MEDICINES*

A dissertation submitted to

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

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

Submitted by

Mr. BHARATHI. P

REGISTER NO: 561794009

Mr. ARUN SURYA. M

REGISTER NO: 561894004

Mr. GOKUL. J

REGISTER NO: 561894009

Mr. HARI PRASATH. D

REGISTER NO: 561894015

Mr. PRAKASH. R

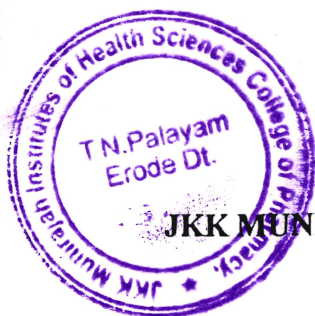
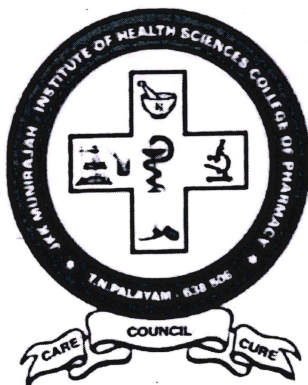
REGISTER NO: 561894036

Under the guidance of

DR. S. GANDHIMATHI, M. Pharm, Ph.D.

Associate Professor,

Department of Pharmacognosy



SEPTEMBER - 2022

Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N. Palayam,
Gobi (Tk), Erode (Dt) - 638 506

**JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF
PHARMACY**

T.N. PALAYAM, GOBICHETTIPALAYAM (TK), ERODE (DT),

TAMILNADU-638 506

CERTIFICATE

This is to certify that the dissertation entitled "A REVIEW ON INVESTIGATIONS OF VARIOUS FRUITS FROM UMBELLIFERAE FAMILY USED AS HERBAL MEDICINES" submitted to the Tamil Nadu Dr. M.G.R Medical University, Chennai, is the bonafide work of Mr. BHARATHI. P, Mr. ARUN SURYA. M, Mr. GOKUL. J, Mr. HARIPRASATH. D, Mr. PRAKASH. R, and carried out in the Department of Pharmacognosy, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N. Palayam, Gobi, Erode, for the partial fulfillment for the degree of Bachelor of Pharmacy under the guidance of DR. S. GANDHIMATHI, M. Pharm, Ph. D., Associate Professor, Department of Pharmacognosy, J.K.K. Munirajah Institute of Health Sciences College of Pharmacy, T.N. Palayam, Gobi, Erode. during the academic year 2021-2022.

Place: T.N. Palayam

Date: 7/3/23

Prof. DR. P. PERUMAL. M. Pharm, Ph. D., FIC,

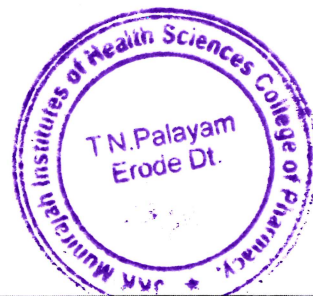
PRINCIPAL

JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



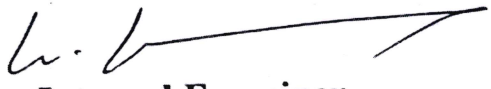
Principal

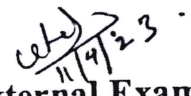
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



EVALUATION CERTIFICATE

This is to certify that the dissertation work entitled "A REVIEW ON INVESTIGATIONS OF VARIOUS FRUITS FROM UMBELLIFERAE FAMILY USED AS HERBAL MEDICINES" submitted by Reg. no: 561794009, 561894004, 561894009, 561894015, 561894036 to the Tamil Nadu Dr. M.G.R Medical University, Chennai, In the partial fulfillment for the award of degree of Bachelor of Pharmacy is evaluated by us during the academic year 2021-2022.


Internal Examiner
DR. M. PERIASAMY


External Examiner

Place: T.N. Palayam

Date: 11/04/2023



Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



CONCLUSION

From the present study we conclude that the preliminary phytochemical analysis of umbelliferae fruit contains proteins, polyphenol, alkaloids, terpenoids, volatile oil, etc. Owing to the specific pharmacological activity like anticancer, antioxidant, antibacterial, anti-inflammatory activity, etc possessed by the different phytoconstituents present in the fruits of umbelliferae family so after a thorough investigations we conclude that the fruits of umbelliferae family is used in formulation and production of herbal medicines and also in cosmetics as skin care products. This is the relevant reason why we are selecting these fruits from umbelliferae as the main family for our review.

According to the above revealed results

In our study anise, cumin, limonenes, carvone and linalool was found to possess anti infective, anti-diabetic, antioxidant, antimicrobial and antifungal activity respectively. Parallely the combination of α,β - pinene and anethole have a significant role in kidney and urinary stone.

The above studies paves a way to enhance the novelty of this review in future by producing a very good marketing herbal medicinal product with less side effects, and low cost.



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JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



**A REVIEW ON ANALYSIS OF ANTICONVULSANT ACTIVITY OF
VARIOUS MEDICINAL PLANTS**

A dissertation submitted to

THE TAMILNADU Dr. M.G.R MEDICAL

UNIVERSITY CHENNAI-600 032

In partial fulfilment of the requirements for the award of degree of
BACHELOR OF PHARMACY

Submitted by

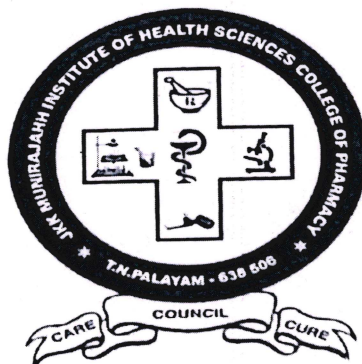
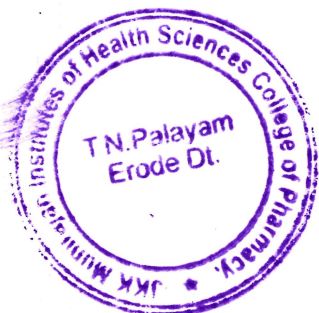
Mr.ARULMURUGAN.K	REGISTER NO: 561794004
Mr.GOVINDARAJ.A	REGISTER NO: 561894012
Mr.PRADEEP RAJ.V	REGISTER NO: 561894033
Mr.SHEIK MOIDEEN.A	REGISTER NO: 561994118
Mr.VAITEESHWARAN.M.K	REGISTER NO: 561994120

Under the guidance of

Mrs. Dr. K. ABHENAYA, M. Pharm, Ph. D.,

Associate Professor

Department of Pharmaceutical chemistry



Principal

**JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N. Palayam,
Gobi (Tk), Erode (Dt) - 638 506**

JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

TN PALAYAM, GOBI, ERODE DT, TAMILNADU-638506

SEPTEMBER-2022

CERTIFICATE

This is to certify that the dissertation "A REVIEW ON ANALYSIS OF ANTICONVULSANT ACTIVITY OF VARIOUS MEDICINAL PLANTS" is the bonafide work of Mr. ARUL MURUGAN. K, Mr. GOVINDARAJ. A, Mr. PRADEEPRAJ. V, Mr. SHEIK MOIDHEEN. A, Mr. VAITHEESHWARAN. M. K, work of and this work was carried out in the Department of Pharmacueutical chemistry, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode under the direct supervision and guidance of Mrs. DR. K. ABHENAYA, M.Pharm, Ph.D., Associate Professor, Department of Pharmacueutical chemistry, this dissertation is submitted to The Tamil Nadu Dr.M.G.R Medical University, towards partial fulfilment of requirement for the award of Bachelor of Pharmacy during the academic year 2021-2022.

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13/3/23

Prof. DR. P. PERUMAL, M. Pharm, Ph.D., FIC,

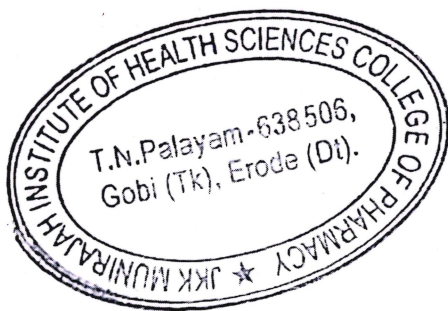
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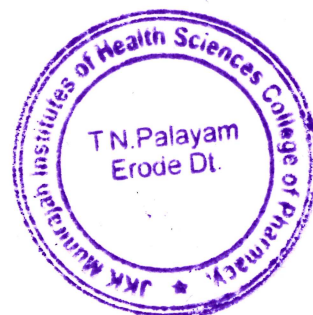
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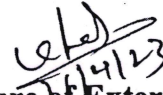


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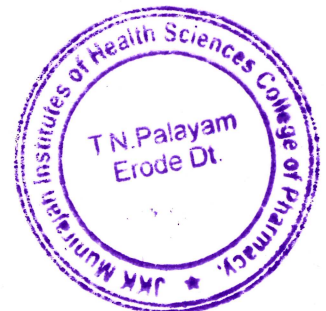
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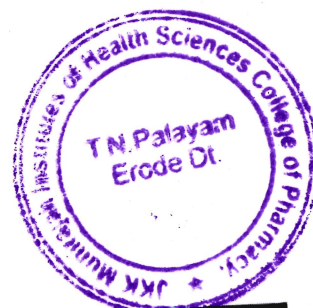
8. CONCLUSION

- From the review we conclude that the preliminary phytochemical analysis of certain medicinal plants *Citrus sinensis*, *vetiveria zizanioides*, *ocimum sanctum*, *Azima tetracantha*, *syzygium aqueum*, *mimosa pudica root linn*, *moringa oleifera*, *Curcuma longa*, *drosera burmanni*, *glycyrrhiza glabra*, *withania somnifer*, *verbena officinalis* contains Flavonoids, carbohydrates, alkaloids, glycosides, terpenoids, tannins and saponins.
- Most common active constituent of randomly selected medicinal plants has flavonoids and terpenoids. This phytoconstituents possess the anticonvulsant property which has the ability to reduce convulsions.
- To review the investigation of in-vivo anticonvulsant activity of *Citrus sinensis*, *vetiveria zizanioides*, *ocimum sanctum*, *Azima tetracantha*, *syzygium aqueum*, *mimosa pudica root linn*, *moringa oleifera*, *Curcuma longa*, *drosera burmanni*, *glycyrrhiza aglabra*, *withania somnifer*, *verbena oficinalis*. By the following methods Maximum electro shock seizure (MES) and pentylenetetrazole (PTZ).
- From this review we concluded the medicinal plant *glycyrrhiza glabra* was found to be inhibition of convulsant (83.33%) because of Facilitation of GABA mediated chloride channel opening more significantly as compared to other plants in this review.
- From this review to find out the phytoconstituents and in-vivo anticonvulsant activity of various medicinal plants. Further studies can be carried out in the future to development and evaluation of poly herbal formulation of various medicinal plant in anticonvulsant clinical studies to establish its efficacy in humans.



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**FORMULATION AND IT'S EVALUATION OF NOVEL ANTI-AGING
CREAM CONTAINING ETHYL ACETATE EXTRACTS OF MUCUNA
SEEDS**

A dissertation submitted to

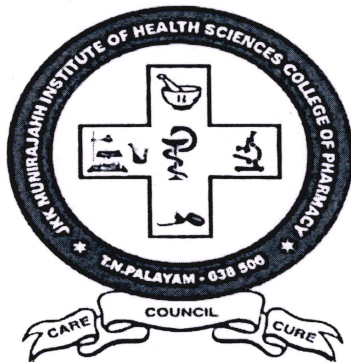
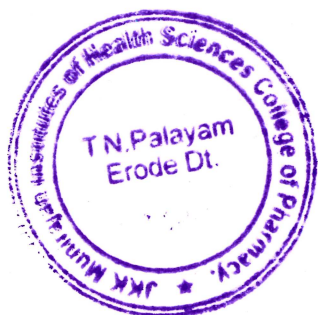
**THE TAMILNADU Dr. M.G.R MEDICAL
UNIVERSITY CHENNAI-600 032**

In partial fulfilment of the requirements for the award of degree of
BACHELOR OF PHARMACY

Submitted by

Mr. SABARISH. M	REGISTER NO: 561794044
Mr. LOKESWARAN. M	REGISTER NO: 561894024
Mr. MANOJ KUMAR. S	REGISTER NO: 561894026
Ms. SANGEETHA. B	REGISTER NO: 561894044
Ms. LOSHINI. M	REGISTER NO: 561894063

Under the guidance of
Mr. G.M. SIVAKUMAR, M.PHARM.,
Associate Professor
Department of Pharmacology



Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

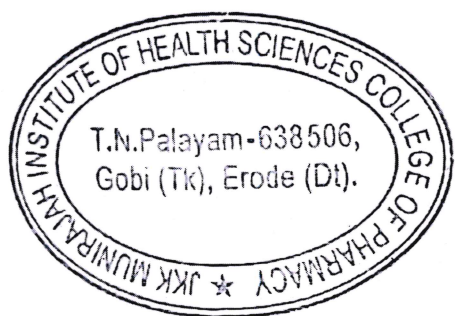
JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

T.N. PALAYAM, GOBI, ERODE DT, TAMILNADU-638506

SEPTEMBER-2022

CERTIFICATE

This is to certify that the dissertation "FORMULATION AND ITS EVALUATION OF NOVEL ANTI-AGING CREAM CONTAINING ETHYL ACETATE EXTRACTS OF MUCUNA SEEDS" is the bonafide work of Mr. SABARISH. M, Mr. LOKESWARAN. M, Mr. MANOJ KUMAR. S, Ms. SANGEETHA. B, Ms. LOSHINI. M, work of and this work was carried out in the Department of Pharmacology, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode under the direct supervision and guidance of Mr. G. M. SIVAKUMAR, M.Pharm, Associate Professor, Department of Pharmacology, this dissertation is submitted to The Tamil Nadu Dr.M.G.R Medical University, towards partial fulfilment of requirement for the award of Bachelor of Pharmacy during the academic year 2021-2022.



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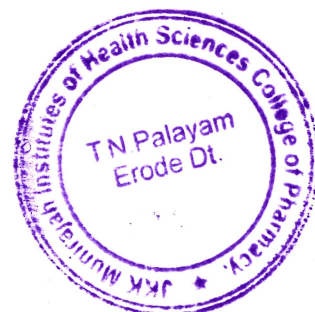
Prof. DR. P. PERUMAL, M. Pharm, Ph.D., FIC,
Principal,
JKK Munirajah Institute of Health Sciences,
College of Pharmacy,
T.N. Palayam, Gobi
Erode - 638506.

Place: T.N. Palayam

Date: 11 / 04 / 2022

A handwritten signature in green ink, appearing to be "P. Perumal".

Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



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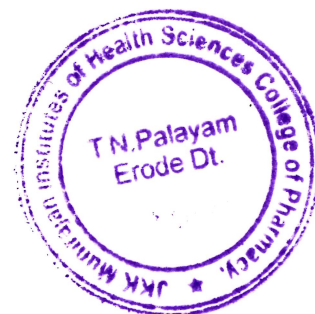

Signature of External Examiner

Place: T.N. Palayam

Date: 11 / Oct / 2022



Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



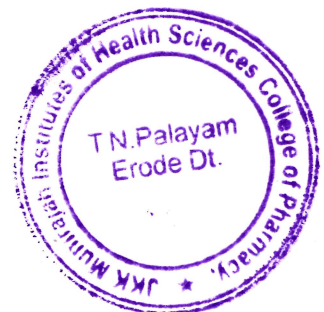
8. CONCLUSION

From the present study, it can be concluded that the evaluation of novel anti-aging cream containing ethyl acetate extracts of mucuna seeds. Anti-aging cream properties of ethyl acetate extracts of mucuna seeds all the Parameters evaluated like pH, viscosity, spreadability test, appearance and antioxidant activity. Formulation F3 antioxidant activity have shown best results when compared to standard ascorbic acid.



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College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



FORMULATION AND EVALUATION OF ANTI ULCER SYRUP ON
LEAVES OF *Punica granatum* (L)

A dissertation submitted to

THE TAMILNADU Dr. M.G.R MEDICAL

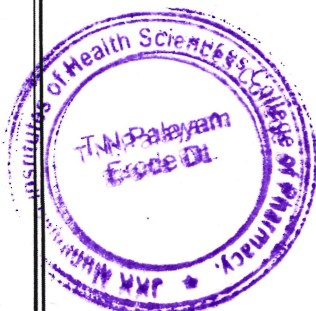
UNIVERSITY CHENNAI-600 032

In partial fulfillment of the requirements for the award of degree of
BACHELOR OF PHARMACY

Submitted by

Mr.HARISH.G	REGISTER NO: 561794022
Mr.JIGNESH.G	REGISTER NO: 561894020
Mr.KARTHICK.N	REGISTER NO: 561894022
Mr.PRAKASH.M	REGISTER NO: 561894035
Mr.KARTHIKEYAN.S	REGISTER NO: 561894060

Under the guidance of
Ms.M. REVATHI, M.Pharm.,
Assistant Professor
Department of Pharmacology



Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

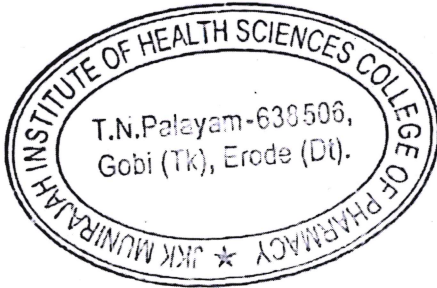
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Perumal
13/3/23

Dr.P.Perumal, M.Pharm, Ph.D.,FIC,

Principal,

Jkk Munirajah Institute of Health
Sciences College of Pharmacy,

T.N.Palayam, Gobi,

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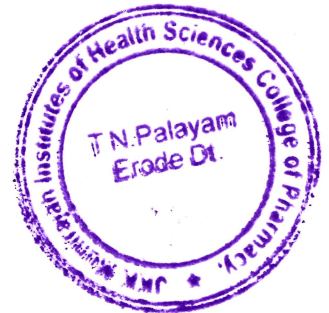
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JKK Munirajah Institute of Health Sciences
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Signature of Internal Examiner
DR. M. PERIASAMY

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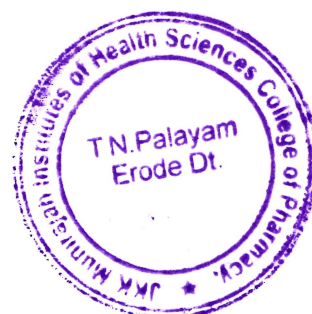
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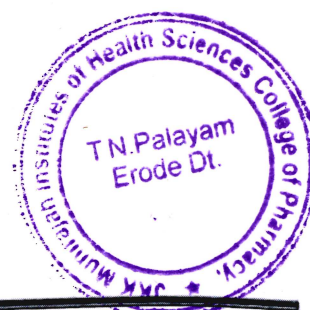
8. CONCLUSION

- ❖ From the present study we conclude that the preliminary phytochemical analysis of decoction of leaves on *Punica granatum* (L) indicated the presence of alkaloids, flavonoids, tannin, terpenoids, steroids, saponin and carbohydrates.
- ❖ The anti-ulcer activity may be attributed to the presence of different phytoconstituents present in the decoction of leaves on *Punica granatum* (L) especially tannin, flavonoids and Saponin. This phytoconstituents possess the antioxidant property to reduce the development of ulcer. The tannin posses the astringent properties. Tannins have been shown to promote tissue repair, exhibit anti *Helicobacter pylori* effects and they are involved in gastrointestinal tract anti-inflammatory processes.
- ❖ The *in-vitro* anti-ulcer activity of decoction of leaves on *Punica granatum* (L) was evaluated by acid neutralizing capacity. From this study we conclude that decoction of leaves on *Punica granatum* (L) was significant reduction of ulcer at the dose of 500 mg/ml to be neutralize acid more significantly as compared to standard and acid neutralizing capacity was showed significant ANC₅₀ ulcer at the dose of 75mg/ml.
- ❖ Physicochemical parameters of *Punica granatum* (L) herbal syrup was evaluated. Physicochemical parameters help to assess the quality of the formulation. Physicochemical parameters of *Punica granatum* (L) herbal syrup like orange colour, aromatic odour, sweet taste, pH 5.8, density 1.07gm, specific gravity 0.5289kg/m³ and viscosity 0.0582 poise.
- ❖ Further studies can be carried out in the future to *in-vivo* anti-ulcer activity and elucidate the mechanism of action of *Punica granatum* (L) herbal syrup. This may be followed and clinical studies to establish its efficacy in humans.



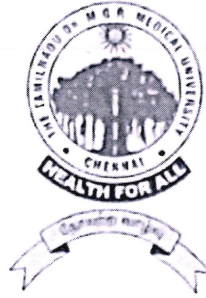
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FORMULATION, DEVELOPMENT AND EVALUATION OF ANTIFUNGAL
PRONIOSOMAL GEL FOR TOPICAL APPLICATION

A 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

by

Mr. GOPINATH S

Reg.No: 561894011

Ms. NAIDU SHREYA CHANDRASHEKHAR

Reg.No: 561894030

Mr. DEEPAKKUMAR D

Reg.No: 561994102

Mr. NIRMAL G

Reg.No: 561994109

Mr. RAGHUL P

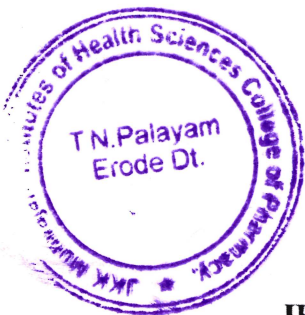
Reg.No: 561994113

Under the guidance of

Mr. K. GOBINATH, M.Pharm.,

Assistant Professor,

Department of Pharmaceutics.



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JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N. Palayam,
Gobi (Tk), Erode (Dt) - 638 506

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Date : 13/08/2023.

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13/3/23

Prof. Dr. P. PERUMAL, M.Pharm., Ph.D., FIC.,

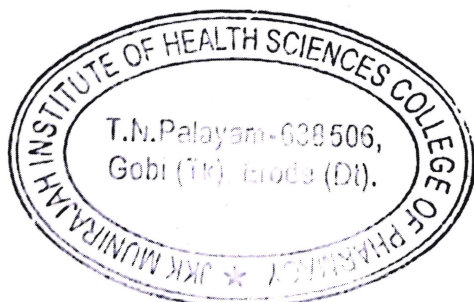
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JKK Munirajah Institute of Health Sciences

College of Pharmacy,

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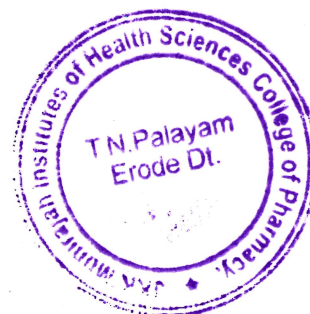
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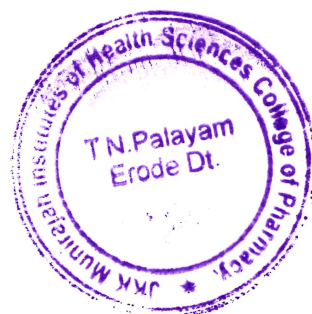
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This work is original and has not been submitted in part or full for the award of any other degree or diploma of any university and the dissertation represent entirely and independent work on the part of candidate.


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10. SUMMARY AND CONCLUSION

Terbinafine proniosomes was successfully prepared by coacervation phase separation technique. This method of manufacturing was found to be simple, did not require specialized equipments and has scale – up feasibility. The proniosomes was converted into dry powder by lyophilization in order to increase its stability.

From the reports, maximum absorbance (λ max) of terbinafine hydrochloride was found to be 283 nm which was used for quantitative analysis. In FT-IR study, there was no discriminable shift / disappearance / appearance of peaks in combined spectra that indicates good drug-excipients compatibility and no chemical interaction between terbinafine hydrochloride and excipients.

Based the drug-excipient compatibility studies move to further process of preparation of various terbinafine hydrochloride proniosomes formulations (F1, F2 and F3) was successfully prepared by coacervation phase separation method using soya lecithin and cholesterol as membrane stabilizer for increase the stability and permeability respectively. Cetostearyl alcohol, tween 80 and poloxamer 188 as non-ionic surfactant for increase the drug flux rate across skin. Ethanol as solvent, work penetration agent. After that all proniosome formulation was lyophilized using 1% manitol solution as cryoprotectant.

The particle size and zeta potential values were measured immediately after preparation of proniosomes. The particle size of the proniosomes is homogenous in size and size distribution. All the formulation showed lower particle sizes from 100.6 to 275.0 (d.nm). All the formulation showed low polydispersibility index, indicate that good homogeneity.

Zeta potential is an indication of the stability of the proniosomes. The Zeta potential of all formulation was found to be ranges from -2.47 to -4.18 mV around ± 20 mV. The zeta potential of best formulation (F3) indicating good quality.



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College of Pharmacy, T.N.Palayam
Gobi (Tk), Erode (Dt) - 638 506

**A REVIEW ON EVALUATION OF THERAPEUTIC ACTIVITIES IN
*CORALLOCARPUS EPIGAEUS RHIZOMES***

A dissertation submitted to

Faculty of Pharmacy

THE TAMILNADU Dr. M.G.R MEDICAL

UNIVERSITY CHENNAI-600 032

In partial fulfillment of the requirements for the award of degree of
BACHELOR OF PHARMACY

Submitted by

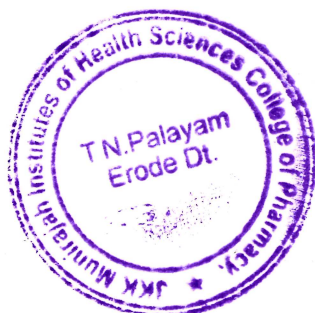
Ms. ABARNA.A	REGISTER NO: 561894001
Mr. ADINATHAN.R	REGISTER NO: 561894002
Mr. NITHISH.B	REGISTER NO: 561994111
Ms. UMAMAHESHWARIS	REGISTER NO: 561894056
Mr. VIJAY.R	REGISTER NO: 561894058

Under the guidance of

Mrs. AMUDHAVALLI.K, M.PHARM.,

Assistant Professor

Department of Pharmaceutical chemistry



Principal

JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

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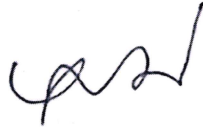
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Place: T.N. PALAYAM

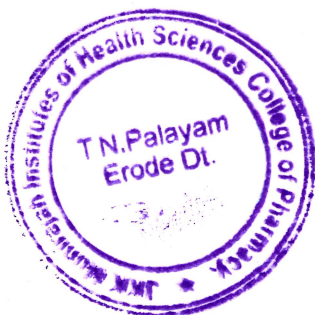
Date: 13.03.2023



Prof. Dr.P.Perumal, M. Pharm, Ph.D., FIC,
Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506
JKK Munirajah Institute of Health

Sciences College of Pharmacy

T.N. Palayam,

Erode-638506




Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

DECLARATION

We are here by declared that the dissertation work entitled "A REVIEW ON EVALUATION OF THERAPEUTIC ACTIVITIES IN *CORALLOCARPUS EPIGAEUS RHIZOMES*" is submitted by us in partial fulfillment of the requirement for the award of the degree of bachelor of pharmacy at JKK Munirajah Institute of Health Sciences College of Pharmacy, is the result of our original and independent research work carried out under the guidance of Mrs.K.Amuthavalli, M.Pharm, Assistant professor, department of pharmaceutical chemistry. during the academic year 2021-2022.

Place: T.N. Palayam

SIGNATURE OF THE CANDIDATES

Date: 13.03.2023



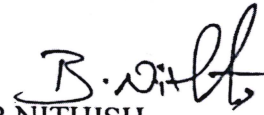
A.ABARNA

Register No (561894001)



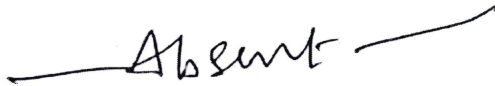
R.ADINATHAN

Register No (561894002)



B.NITHISH

Register No (561994111)



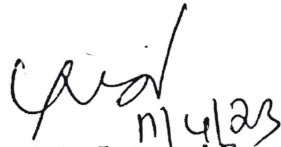
S.UMAMAHESHWARI

Register No (561894056)



R.VIJAY

Register No (561894058)



Signature of the Internal Examiner



Signature of the External Examiner

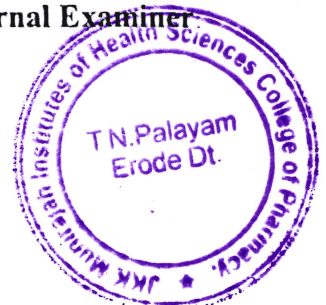
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RESULT AND CONCLUSION

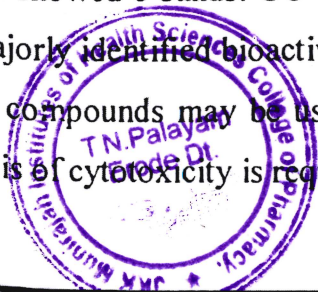
The different extract of *C. epigaeus* rhizomes was found in valuable levels total free phenol, tannins and flavonoid which is promising antioxidant activity. The extract of extract of *C. epigaeus* rhizomes exhibits potential anti-inflammatory effect. The extract is almost compared with the standard indomethacin. The present study supports the traditional medicine system, of the rhizome for their use in antioxidant and anti-inflammation.


Hence the present study concluded that methanolic extract of *Corallocarpus epigaeus* tubers possess analgesic, pyrexia and inflammatory activities may be due to the presence of flavonoids.

The methanol extract and its different fractions from root of *S. grossus* displayed significant peripheral analgesic potential and antipyretic property. The central antinociceptive activity was absent. Since this is a pioneer work further studies are necessary to validate this result and other detailed studies on compound identification and isolation and underlying mechanism for the observed effect are essential to guarantee its clinical use.

The result of present study clearly indicates that, the preliminary phytochemical analysis in tuber extracts of *Corallocarpus epigaeus* (Rottl. and Willd.) Hook. f. shows presence of rich amount of metabolites like Carbohydrates, Saponins, Tannins, Flavonoid, Alkaloids, Glycosides, Phytosterol, Steroids, Phenols, and Terpenoids. Tuber extract of *Corallocarpus epigaeus* in benzene and ethyl acetate showed good antibacterial activity and it may be attributed due to the presence of phytochemicals and may be used as antimicrobial agents.

In the evaluation of the anthelmintic activity of the *C. epigaeus*, extraction was done using organic solvents namely methanol, chloroform, ethyl acetate, and hexane against *Pheretima posthuma*. The result depicted that the ethyl acetate extract showed the finest activity. The minimum inhibition concentration was found out to be 12.5 mg/ml. The preliminary phytochemical qualitative analysis of the ethyl acetate extract showed the presence of alkaloid, flavonoid, saponin, phenol, tannins, and steroids. HPTLC analysis of ethyl acetate extract showed 6 bands. GC-MS results analysis of ethyl acetate extract showed 6 peaks and the majorly identified bioactive compounds were n-hexadecanoic acid and octadecanoic acid. These compounds may be useful for the treatment of the helminthiasis. Prior using, further analysis of cytotoxicity is required.

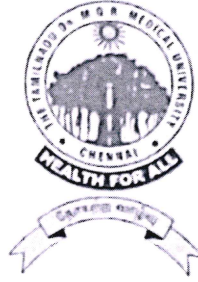



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REVIEW OF RISK FACTORS, PREVENTION, STRATEGIES AND MANAGEMENT
APPROACHES OF CYCLOPHOSPHAMIDE IN CANCER TREATMENT

A 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

by

Mr. THAMARA KANNAN K

Reg.No: 561794052

Mr. BARATH R

Reg.No: 561894005

Mr. KALYANKUMAR H

Reg.No: 561894021

Mr. ARUN KUMAR P

Reg.No: 561994100

Mr. JAGANTHAN S

Reg.No: 561994105

Under the guidance of

Dr. I. BALAJI, Pharm. D.,

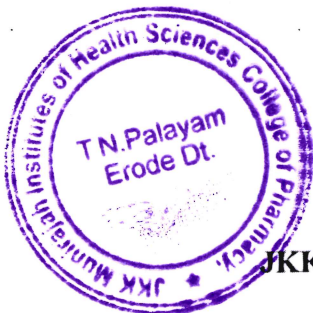
Associate professor,

Department of pharmacy practice.



Principal

JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



JKKM MUNIRAJAH INSTITUTE OF HEALTH SCIENCES

COLLEGE OF PHARMACY

T.N.PALAYAM, GOBI-638 506

TAMIL NADU

YEAR-2023

CERTIFICATE

This is to certify that the dissertation entitled "REVIEW OF RISK FACTORS, PREVENTION, STRATEGIES AND MANAGEMENT APPROACHES IN ADVERSE EFFECTS OF CYCLOPHOSPHAMIDE IN CANCER TREATMENT" is the bonafide work of Mr. THAMARAIKANNAN. K (561794052), Mr. BARATH.R (561894005), Mr. KALYANKUMAR.H (561894021), Mr. ARUN KUMAR.P (561994100) and Mr. JAGANATHAN.S (561994105) and carried out in the Department of Pharmacy Practice, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode, for the partial fulfillment for the degree of Bachelor of pharmacy under the guidance of Dr. I. BALAJI, Pharm. D, Associate Professor, Department of Pharmacy Practice. This dissertation is submitted to The Tamil Nadu Dr M.G.R Medical university Chennai, towards as partial fulfillment of requirement for award of Degree of Bachelor of Pharmacy during the academic year 2023.

Place:T.N.Palayam

Date :



Prof. Dr. P. PERUMAL, M.Pharm., PhD., FIC.,

Principal,

JKK Munirajah Institute of Health sciences

College of Pharmacy,

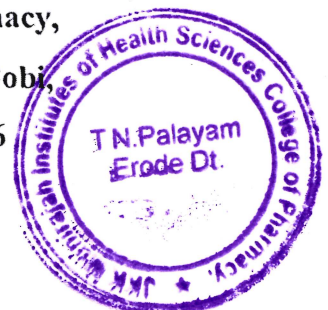
T.N.Palayam, Gobi,

Erode-638 506



Principal

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College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



EVALUATION CERTIFICATE

This is to certify that work embodies dissertation work entitled "REVIEW OF RISK FACTORS, PREVENTION, STRATEGIES AND MANAGEMENT APPROACHES IN ADVERSE EFFECTS OF CYCLOPHOSPHAMIDE IN CANCER TREATMENT" is an original research work carried out by Mr. THAMARA KANNAN.K (561794052), Mr. BARATH.R (561894005), Mr. KALYANKUMAR.H (561894021), Mr. ARUN KUMAR.P (561994100) and Mr. JAGANATHAN.S (561994105) in the Department of Pharmacy Practice, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode Under the guidance and direct supervision of Dr. I. BALAJI, Pharm. D, Associate Professor, Department of Pharmacy Practice. This dissertation is submitted to The Tamil Nadu Dr M.G.R Medical University, Chennai, towards partial fulfillment of requirement for the award of Degree of Bachelor of Pharmacy during the Academic year 2023.

This work is original and has not been submitted in part or full for the award of any other degree or diploma of any university and the dissertation represent entirely and independent work on the part of candidate.

M.Y.
19/9/23

INTERNAL EXAMINER

J. S. L. Y
19.9.23.

EXTERNAL EXAMINER

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JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



8. CONCLUSION

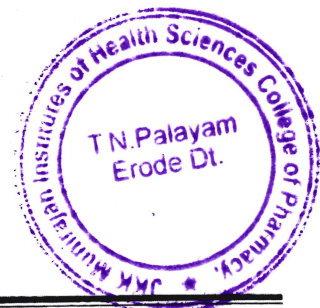
Cyclophosphamide is a valuable chemotherapeutic agent used in the treatment of various cancers. However, it is associated with a range of adverse effects that can impact patient well-being and treatment outcomes. By understanding the risk factors, implementing prevention strategies, and employing appropriate management approaches, healthcare professionals can minimize the impact of these adverse effects and improve patient care.

The individualized management of adverse effects is essential, considering patient characteristics, treatment protocols, and the severity of adverse reactions. Regular monitoring, open communication, and patient education play crucial roles in mitigating the adverse effects of cyclophosphamide and ensuring optimal treatment outcomes.

Further research and advancements in supportive care strategies are needed to enhance the management of adverse effects associated with cyclophosphamide. By addressing these challenges, healthcare providers can maximize the therapeutic benefits of cyclophosphamide while minimizing its potential risks, ultimately improving the quality of life for cancer patients undergoing treatment.



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Gobi (Tk), Erode (Dt) - 638 506



DETERMINATION AND VALIDATION OF GANAXOLONE BY USING DOUBLE
BEAM UV SPECTROPHOTOMETER

A Dissertation submitted to

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

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

BACHELOR OF PHARMACY

SUBMITTED BY

Mr. LALILKUMAR .M

REGISTER NO:561894023

Mr .MANIRAJ.V

REGISTER NO:561894025

Mr. PRAVEEN KUMAR.R

REGISTER NO:561894064

Mr. PRAPANCHAN. G

REGISTER NO:561994112

Mr. SANTHANAKUMAR.B

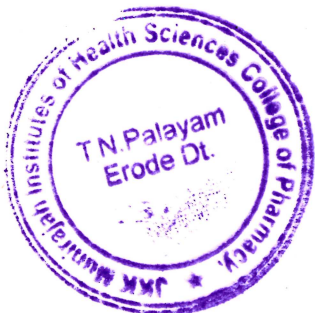
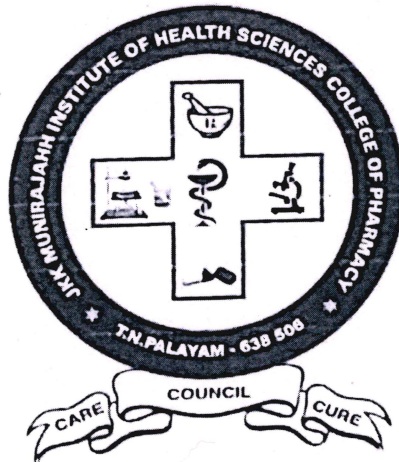
REGISTER NO:561994116

Under the guidance of

Mrs.K.KANAGAPRIYA,M.Pharm.,

Assistant professor

Department of pharmaceutical Analysis.



Principal

JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

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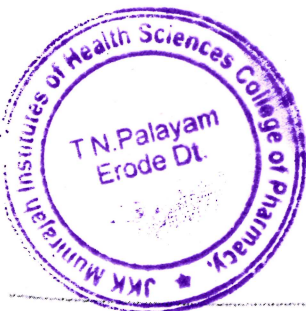
CERTIFICATE


This is to certify that the dissertation entitled "DETERMINATION AND VALIDATION OF GANAXOLONE BY USING DOUBLE BEAM UV SPECTROPHOTOMETER" submitted to The Tamil Nadu Dr. M.G.R Medical University, Chennai, is the bonafide project work of Mr. LALILKUMAR.M(561894023), Mr. MANIRAJ.V (561894025), Mr. PRAVEN KUMAR.R(561894064), Mr. PRAPACHAN.G (561994112), Mr. SANTHNAKUMAR.B (561994116) and carried out in the Department of Pharmaceutical Analysis, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N-Palayam, Gobi, Erode, for the partial fulfillment for the degree of Bachelor of pharmacy under the guidance of Dr. K.K. SENTHIL KUMAR, M.Pharm,Ph.D., Associate Professor, Department of Pharmaceutical Analysis, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N-Palayam, Gobi, Erode. during the academic year 2023.

Place: T.N.Palayam

Date:



Prof. DR. P. Perumal, M. Pharm, Ph.D., FIC,




Principal
JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

EVALUATION CERTIFICATE

This is to certify that the dissertation work entitled "DETERMINATION AND VALIDATION OF GANAXOLONE BY USING DOUBLE BEAM UV SPECTROPHOTOMETRY" by Mr. LALILKUMAR.M (561894023), Mr. MANIRAJ.V (561894025), Mr. PRAVEN KUMAR.R (561894064), Mr. PRAPACHAN.G (561994112), Mr. SANTHNAKUMAR.B (561994116) carried out in the Department of Pharmaceutical Analysis, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N-Palayam, Gobi, Erode, to The Tamil Nadu Dr.M.G.R Medical University, Chennai. In the partial fulfillment for the award of Degree of Bachelor of Pharmacy is evaluated by us during the academic year 2023.


19/09/23

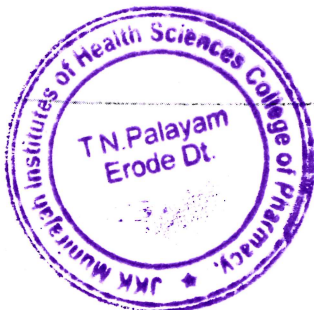
Signature of Internal Examiner

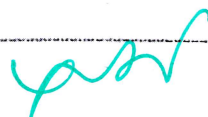

19.7.23.

Signature of External Examiner

Place: T.N.Palayam

Date: 19-09-2023





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College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

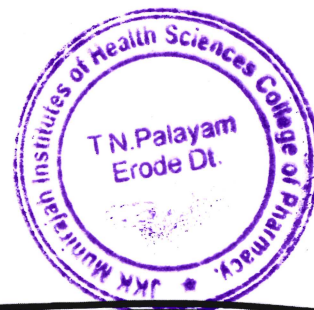
CONCLUSION

It could be concluded that the stability studies and validation of ganaxolone by uv spectrophotometric method is simple definite, reproducible, and economical. The values of accuracy, precision, robustness, ruggedness, LOD and LOQ were within the limits. Ganaxolone is very sensitive so it is unstable in alkaline, acidic, oxidative, photo light but is thermally stable. Statistical analysis for the results clearly demonstrate that the method is suitable for the determination of Ganaxolone by UV spectrophotometric method interference from the degradation products, and it is endorsed for routine use in quality control industry laboratories.



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College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506



AN UPDATED REVEIW OF ANTIDIABETIC DRUGS

A dissertation submitted to

THE TAMILNADU Dr. M.G.R MEDICAL

UNIVERSITY CHENNAI-600 032

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

BACHELOR OF PHARMACY

Submitted by

Mr. SELVAMANI.R

REGISTER NO: 561894047

Mr. SIVASRITHARAN.M

REGISTER NO: 561894050

Ms. SUNDHARAMUKIL.S

REGISTER NO: 561894051

Mr. SURYA.A

REGISTER NO: 561994119

Mr. VIJAY.S

REGISTER NO: 561994121

Under the guidance of

Mrs. K. Saranya M.Pharm.,

Assistant Professor

Department of Pharmacology



Principal

JKK Munirajah Institute of Health Sciences
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

JKK MUNIRAJAH INSTITUTE OF HEALTH SCIENCES COLLEGE OF PHARMACY

TN PALAYAM, GOBI, ERODE Dt, TAMILNADU-638506

SEPTEMBER-2022-2023

CERTIFICATE

This is to certify that the dissertation entitled "AN UPDATED REVEIW OF ANTIDIABETIC DRUGS" is the bonafide work of Mr.SELVAMANI.R (561894047), Mr. SIVASRITHARAN.M (561894050), Ms.SUNDHARAMUKIL (561894051) Mr.SURIYA. (561994119), Mr.VIJAY.S (561994121) and this work was carried out in the Department of Pharmacology, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N. Palayam, Gobi, Erode under the direct supervision and guidance of Mrs. K.SARANYA M.Pharm., Assistant Professor, Department of Pharmacology. This dissertation is submitted to The Tamil Nadu Dr.M.G.R. Medical University, toward spartial fulfillment of requirement for the award of Bachelor of Pharmacy during the academic year 2022-2023.

Place: T.N.Palayam

Date: 19.09-2023

Prof. DR. P. Perumal, M. Pharm, Ph.D., FIC,
Principal,

Jkk Munirajah Institute of Health
Sciences College of Pharmacy,

T.N. Palayam,

Erode - 638506.




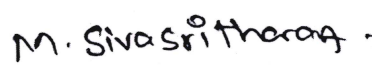

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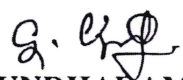
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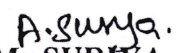
DECLARATION

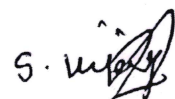
We ,Mr.SELVAMANIR (561894047) ,Mr.SIVASRITHARAN.M (561894050), Ms.SUNDHARAMUKIL (561894051) Mr.SURIYA.A (561994119) ,Mr.VIJAY.S (561994121) solemnly declare that this dissertation entitled, is a original research work done by us in the Department of Pharmacology, JKK Munirajah Institute of Health Sciences College of Pharmacy, T.N.Palayam, Gobi, Erode under the guidance Mrs. K.Saranya, M.Pharm., Assistant Professor, Department of Pharmacology . We also declare that neither the full thesis nor a part of the thesis is submitted for any publication or incorporation in any other project. This dissertation is submitted to The TamilNadu Dr.M.G.R Medical University, towards partial fulfillment of requirement for the award of Bachelor of Pharmacy during the academic year 2022-2023.


Mr. SELVAMANIR
(561894047)


Mr.SIVASRITHARAN.M
(561894050)

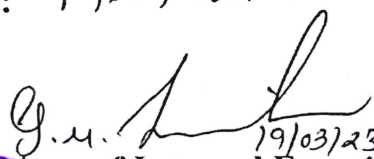

Ms.SUNDHARAMUKIL.S
(561894051)

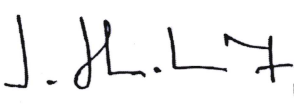

Mr.SURIYA.A
(561994119)


Mr.VIJAY.S
(561994121)

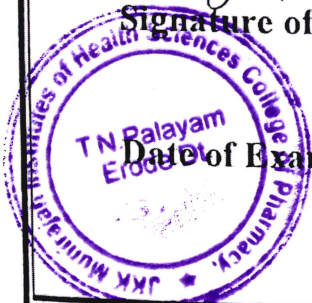
Place: T.N.Palayam


Date: 19.09.2023


Signature of Internal Examiner


Signature of External Examiner

Date of Examination 19.09.2023




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JKK Munirajah Institute of Health Science
College of Pharmacy, T.N.Palayam,
Gobi (Tk), Erode (Dt) - 638 506

CONCLUSION

Diabetes is caused by a lack of insulin production by the pancreas or a lack of insulin responsiveness by the cells in the body. There are two types of diabetes: type 1 and type 2. The two kinds of diabetes are Type 1 Diabetes and Type 2 Diabetes. Type 1 diabetes, which is an autoimmune illness, causes insulin deficiency and hyperglycemia. Insulin is a hormone generated by the pancreas that helps glucose enter the body's cells for energy usage. Diabetes prevalence in India has increased from 7.1% in 2009 to 8.9% in 2019. IGT is estimated to affect 25.2 million adults by 2045, with that figure rising to 35.7 million. Diabetes afflicted 1.3 billion Indians, according to the World Health Organization.



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JKK Munirajah Institute of Health Science:
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Gobi (Tk), Erode (Dt) - 638 506

