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Recognized u/s 2(f) & 12(B) of the UGC Act, 1956, New Delhi, Recognized Research Center, JNTUA, Ananthapuramu,

1.3.2. PERCENTAGE OF STUDENTS UNDERTAKING PROJECT WORK/FIELD WORK/ INTERNSHIPS (DATA OF LATEST COMPLETED ACADEMIC YEAR)

DVV CLARIFICATION

1. **Highlight the syllabus showing project/field work/internship.**
2. **Kindly provide the consolidated list of number of students undertaking project work/ field work/ internships.**
3. **Kindly provide students internship certificates.**
4. **Kindly provide the report of project/ field work.**

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Ref.No.: ANCP/RIMS/Pharm.D/Hospital Internship/01-2020-21. Date: 28/02/2020.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE, FICCP, MISTE.
Principal.

To
The Superintendent,
Govt. General Hospital (RIMS),
Kadapa.

Sir,

Sub:- ANCP - Pharm.D and Pharm.D(PB) – Internship Posting Permission -- Req. -- Reg.
Ref:- 1. G.O.Ms No: 398 Health Medical family welfare (E1) Department dated 15-11-2008.
2. MOU b/w RIMS kadapa & ANCP Rajampet dated: 15-12-2014.
3. G.O.Ms.No 758 H M.&F.W.(K2) Department, Dated: 20/08/2004.
4. Office Rc.No.04/PA/suptdt/2010 dated.: 19-02-2010.

*****

With reference to the cited subject, the Annamacharya College of Pharmacy has started 6 years **Pharm.D course** from 2009-10 academic year with the approval of Pharmacy Council of India, New Delhi.

The course structure for Pharm.D is divided into two phases as per PCI regulation

Phase 1: consisting of 1st, 2nd, 3rd, 4th and 5th years of study.

Every student shall be posted in constituent hospital for a period of **not less than 30 hours** from 2nd year to 4th year and every student shall spend half a day in throughout **fifth year** to attending ward rounds.

Phase 2: consisting of internship training during 6th year involving posting in specialty units.

During ward rounds, Pharm.D students **required to join along with doctors** and other health care professionals to know about **Patient Case studies, drug monitoring studies and patient counseling &** improve the rational drug usages.

In this connection VI Pharm.D students of this institution are required to be posted in the hospital wards for academic year 2020-2021 in divided schedules for their internship program.

Besides we also render services on drug information to the destitute in the hospital through pharmacy practice department.

As per the references (3rd and 4th) cited, our institution is paying the fees for Rs. 25,000/- for each student.

So please grant the permission for our students for learning & Services in your esteemed institution.

Kindly issue the orders and support for the same.

Thanking you sir,

Yours faithfully

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29/2/2020
DESPATCH CLERK
Government General Hospital,
KADAPA.

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Encl: 1. Cheque bearing No.001421, Dt. 27/02/2020, for ₹.6,00,000/- (Pharm.D - 25 & Pharm.D (PB) - 5)
2. Schedule for Internship Hospital Postings.

Thallapaka Panchayat, New Boyanapalli (Post), Rajampet - 516126, Y.S.R. Kadapa District. A.P., India
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APPENDIX-B
(See regulation 9)
CONDITIONS TO BE FULFILLED BY THE ACADEMIC TRAINING INSTITUTION

1) Any authority or institution in India applying to the Pharmacy Council of India for approval of courses of study for Pharm.D. and Pharm.D. (Post Baccalaureate) under sub-section (1) of section 12 of the Pharmacy Act, 1948 shall comply with the infrastructural facilities as prescribed by the Pharmacy Council of India from time to time.

2) Pharm.D. and Pharm.D. (Post Baccalaureate) programmes shall be conducted only in those institutions which -

   a) are approved by the Pharmacy Council of India for B.Pharm course as provided under section 12 of the Pharmacy Act, 1948;

   b) have 300 bedded hospital attached to it.

   (i) Hospital Details

   1. Institution with their own hospital of minimum 300 beds.
   2. Teaching hospital recognised by the Medical Council of India or University, or a Government hospital not below the level of district headquarter hospital with 300 beds with clearly defined Memorandum of Understanding including housing pharmacy practice department with minimum carpet area of 30 square feet per student along with consent to provide the professional manpower to support the programme.
   3. Corporate type hospital with minimum 300 beds with clearly defined Memorandum of Understanding including housing pharmacy practice department with minimum carpet area of 30 square feet per student along with consent to provide the professional manpower to support the programme.
   4. Number of institutions which can be attached to one hospital shall be restricted by the student pharmacist to bed ratio of 1:10.

   (ii) Speciality

   a) Tertiary care hospitals are desirable

   b) Medicine[compulsory], and any three specialization of the following

      1. Surgery
      2. Pediatrics
      3. Gynecology and obstetrics
      4. Psychiatry
      5. Skin and VD
      6. Orthopedics

   (iii)Location of the Hospital

   Within the same limits of Corporation or Municipality or Campus with Medical Faculty involvement as adjunct faculty.

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iii) Every candidate shall be required, after passing the final Pharm.D. or Pharm.D. (Post Baccalaureate) examination as the case may be to undergo compulsory rotational internship to the satisfaction of the College authorities and University concerned for a period of twelve months so as to be eligible for the award of the degree of Pharm.D. or Pharm.D. (Post Baccalaureate) as the case may be.

3. ASSESSMENT OF INTERNSHIP :

i) The intern shall maintain a record of work which is to be verified and certified by the preceptor (teacher practioner) under whom he works. Apart from scrutiny of the record of work, assessment and evaluation of training shall be undertaken by an objective approach using situation tests in knowledge, skills and attitude during and at the end of the training. Based on the record of work and date of evaluation, the Dean or Principal shall issue certificate of satisfactory completion of training, following which the university shall award the degree or declare him eligible for it.

ii) Satisfactory completion of internship shall be determined on the basis of the following:-

(1) Proficiency of knowledge required for each case management SCORE 0-5

(2) The competency in skills expected for providing Clinical Pharmacy Services SCORE 0-5

(3) Responsibility, punctuality, work up of case, involvement in patient care SCORE 0-5

(4) Ability to work in a team (Behavior with other healthcare professionals including medical doctors, nursing staff and colleagues). SCORE 0-5

(5) Initiative, participation in discussions, research aptitude. SCORE 0-5

Poor	Fair	Below Average	Average	Above Average	Excellent
0	1	2	3	4	5

A Score of less than 3 in any of above items will represent unsatisfactory completion of internship.

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SCHEDULE FOR INTERNSHIP TRAINING OF PHARM D (P.B) III YEAR IN VARIOUS WARDS AT RIMS KADAPA FOR THE ACDEMIC YEAR – 2020-2021

S.No	Regd. No	Name of the Student	1st July & 31st August	1st September & 31st October	1st November & 31st December	1st January & 29th February	1st March & 30th April	1st May & 30th June
1.	18M175T0001	GLORY MARY RANI BELLAM	GMM 1 & 2	GMM 3 & 4	GMF 1 & 2	O & G	Surgical	Pediatrics

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Ref.No.: ANCP/Internship Certificate/23/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. BELLAM GLORY MARY RANI** *D/o* **Sri. B S C VIJAY KUMAR** bearing Regd.No.: **18M75T0001** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/06/2020** to **19/06/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Medicine	20/06/2020 To 19/12/2020 (6 Months)
2.	Pediatrics	20/12/2020 To 19/02/2021 (2 Months)
3.	Obstetrics & Gynecology	20/02/2021 To 19/04/2021 (2 Months)
4.	General Surgery	20/04/2021 To 19/06/2021 (2 Months)

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VI PHARM D SCHEDULE FOR INTERNSHIP 2020-2021

S.No.	Regd. No.	Name of the Student	1st March-April 30	1st May-June 30th	1st July-August 31st	1st September-October 31	1st November – December 31st	1st January– Feb 28th
1.	15M71T0001	Afreen Shaik	GMM 1 & 2	GMM 3 & 4	GMF 1 & 2	O & G	Surgical	Pediatrics
2.	15M71T0003	Balaji M						
3.	15M71T0004	Chaitanya Jyothi K						
4.	15M71T0005	Chanti Naik Mude						
5.	15M71T0006	Durga Prasad C	O & G	Surgical	Pediatrics	GMM 1 & 2	GMM 3 & 4	GMF 1 & 2
6.	15M71T0007	Glory Pravallika K						
7.	15M71T0008	Gnaneswari R						
8.	15M71T0009	Kalpana P						
9.	15M71T0010	Lakshmi Narasimha G	Surgical	Pediatrics	O & G	GMF 1 & 2	GMM 1 & 2	GMM 3 & 4
10.	15M71T0011	Lakshmi Prasanna P						
11.	15M71T0012	Lathapriya N						
12.	15M71T0013	Mahesh P A						
13.	15M71T0015	Nagasai Charan B	Pediatrics	O & G	Surgical	GMM 3 & 4	GMF 1 & 2	GMM 1 & 2
14.	15M71T0016	Nigar Syed						
15.	15M71T0017	Nissi Christina Dara						
16.	15M71T0019	Prasanthi Bhuthuru						
17.	15M71T0020	Rajitha Pallarapu	GMF 3 & 4	GMM 1 & 2	GMM 3 & 4	Surgical	Pediatrics	O & G
18.	15M71T0021	Rajitha P						
19.	15M71T0022	Reddy Santhosh C						
20.	15M71T0024	Sukanya Koppala	GMF 1 & 2	GMF 3 & 4	GMM 1 & 2	Pediatrics	O & G	Surgical
21.	15M71T0026	Sunaina Valluri						
22.	15M71T0027	Venkatesh Ummaka						

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Ref.No.: ANCP/Internship Certificate/01/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. SHAIK AFREEN** *D/o* **Sri. SHAIK ABDUL MUJEER** bearing Regd.No.: **15M71T0001** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020** to **19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Medicine	20/01/2020 To 19/03/2020 (2 Months) 20/06/2020 To 19/10/2020 (4 Months)
2.	Obstetrics & Gynecology	20/10/2020 To 19/12/2020 (2 Months)
3.	General Surgery	20/12/2020 To 19/02/2021 (2 Months)
4.	Pediatrics	20/02/2021 To 19/04/2021 (2 Months)

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Ref.No.: ANCP/Internship Certificate/02/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. M BALAJI** *S/o* **Sri. M KONDAPPA** bearing Regd.No.: **15M71T0003** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020** to **19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Medicine	20/01/2020 To 19/03/2020 (2 Months) 20/06/2020 To 19/10/2020 (4 Months)
2.	Obstetrics & Gynecology	20/10/2020 To 19/12/2020 (2 Months)
3.	General Surgery	20/12/2020 To 19/02/2021 (2 Months)
4.	Pediatrics	20/02/2021 To 19/04/2021 (2 Months)

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Ref.No.: ANCP/Internship Certificate/03/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that Dr. KATREDDY CHAITANYA JYOTHI *D/o* Sri. KATREDDY BALA DASTHAGIRI REDDY bearing Regd.No.: 15M71T0004 of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. MOU with Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa, Andhra Pradesh has successfully done the Internship in the following Units/Departments from 20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021 as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Medicine	20/01/2020 To 19/03/2020 (2 Months) 20/06/2020 To 19/10/2020 (4 Months)
2.	Obstetrics & Gynecology	20/10/2020 To 19/12/2020 (2 Months)
3.	General Surgery	20/12/2020 To 19/02/2021 (2 Months)
4.	Pediatrics	20/02/2021 To 19/04/2021 (2 Months)

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Ref.No.: ANCP/Internship Certificate/04/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. MUDE CHANTI NAIK** *S/o* **Sri. MUDE RAMU NAIK** bearing Regd.No.: **15M71T0005** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020** to **19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Medicine	20/01/2020 To 19/03/2020 (2 Months) 20/06/2020 To 19/10/2020 (4 Months)
2.	Obstetrics & Gynecology	20/10/2020 To 19/12/2020 (2 Months)
3.	General Surgery	20/12/2020 To 19/02/2021 (2 Months)
4.	Pediatrics	20/02/2021 To 19/04/2021 (2 Months)

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M. chanti naik

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Ref.No.: ANCP/Internship Certificate/05/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. CHERUVU DURGA PRASAD** *S/o* **Sri. CHERUVU NAGESWARA RAO** bearing Regd.No.: **15M71T0006** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU with Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020** to **19/03/2020** & **20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	Obstetrics & Gynecology	20/01/2020 To 19/03/2020 (2 Months)
2.	General Surgery	20/06/2020 To 19/08/2020 (2 Months)
3.	Pediatrics	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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Ref.No.: ANCP/Internship Certificate/06/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. KOTHAMASI GLORY PRAVALLIKA** *D/o* **Sri. KOTHAMASI RATNAKAR** bearing Regd.No.: **15M71T0007** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU with Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	Obstetrics & Gynecology	20/01/2020 To 19/03/2020 (2 Months)
2.	General Surgery	20/06/2020 To 19/08/2020 (2 Months)
3.	Pediatrics	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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Ref.No.: ANCP/Internship Certificate/07/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. REGATI VENKATA GNANESWARI** *D/o* **Sri. R V SUBBA REDDY** bearing Regd.No.: **15M71T0008** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU with Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	Obstetrics & Gynecology	20/01/2020 To 19/03/2020 (2 Months)
2.	General Surgery	20/06/2020 To 19/08/2020 (2 Months)
3.	Pediatrics	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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Ref.No.: ANCP/Internship Certificate/08/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that Dr. PAMAYYAGARI KALPANA *D/o* **Sri. PAMAYYAGARI SRINIVASULU REDDY** bearing Regd.No.: **15M71T0009** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	Obstetrics & Gynecology	20/01/2020 To 19/03/2020 (2 Months)
2.	General Surgery	20/06/2020 To 19/08/2020 (2 Months)
3.	Pediatrics	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

P.Kalpana
27/5/2022

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Ref.No.: ANCP/Internship Certificate/09/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. GUNTURU LAKSHMI NARASIMHA** *S/o* **Sri. GUNTURU VENKATA NAGENDRA** bearing Regd.No.: **15M71T0010** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Surgery	20/01/2020 To 19/03/2020 (2 Months)
2.	Pediatrics	20/06/2020 To 19/08/2020 (2 Months)
3.	Obstetrics & Gynecology	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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Ref.No.: ANCP/Internship Certificate/10/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. PARAMESUGALLA LAKSHMI PRASANNA** *D/o* **Sri. P BALARAJU** bearing Regd.No.: **15M71T0011** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Surgery	20/01/2020 To 19/03/2020 (2 Months)
2.	Pediatrics	20/06/2020 To 19/08/2020 (2 Months)
3.	Obstetrics & Gynecology	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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Ref.No.: ANCP/Internship Certificate/11/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that Dr. NARAYANASWAMY GARI LATHAPRIYA *D/o* **Sri. GANGAPPAGARI NARAYANASWAMY** bearing Regd.No.: **15M71T0012** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. MOU with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020** to **19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Surgery	20/01/2020 To 19/03/2020 (2 Months)
2.	Pediatrics	20/06/2020 To 19/08/2020 (2 Months)
3.	Obstetrics & Gynecology	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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Ref.No.: ANCP/Internship Certificate/12/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. P A MAHESH** *S/o* **Sri. P S APPADURAI** bearing Regd.No.: **15M71T0013** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Surgery	20/01/2020 To 19/03/2020 (2 Months)
2.	Pediatrics	20/06/2020 To 19/08/2020 (2 Months)
3.	Obstetrics & Gynecology	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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P. A. Mahesh

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Ref.No.: ANCP/Internship Certificate/13/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. T MUBEENABHUMIREDDY NAGASAI CHARAN** *S/o* **Sri. BHUMIREDDY RAMAMURTHY** bearing Regd.No.: **15M71T0015** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	Pediatrics	20/01/2020 To 19/03/2020 (2 Months)
2.	Obstetrics & Gynecology	20/06/2020 To 19/08/2020 (2 Months)
3.	General Surgery	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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Ref.No.: ANCP/Internship Certificate/14/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. SYED NIGAR** *D/o* **Sri. SYED SHABBEER AHAMAD** bearing Regd.No.: **15M71T0016** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU with Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	Pediatrics	20/01/2020 To 19/03/2020 (2 Months)
2.	Obstetrics & Gynecology	20/06/2020 To 19/08/2020 (2 Months)
3.	General Surgery	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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Ref.No.: ANCP/Internship Certificate/15/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. DARA NISSI CHRISTINA** *D/o* **Sri. D J VINEEL KUMAR** bearing Regd.No.: **15M71T0017** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU with Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	Pediatrics	20/01/2020 To 19/03/2020 (2 Months)
2.	Obstetrics & Gynecology	20/06/2020 To 19/08/2020 (2 Months)
3.	General Surgery	20/08/2020 To 19/10/2020 (2 Months)
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Ref.No.: ANCP/Internship Certificate/16/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. BHUTHURU PRASANTHI** *D/o* **Sri. BHUTHURU RAGHUNATH REDDY** bearing Regd.No.: **15M71T0019** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU with Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	Pediatrics	20/01/2020 To 19/03/2020 (2 Months)
2.	Obstetrics & Gynecology	20/06/2020 To 19/08/2020 (2 Months)
3.	General Surgery	20/08/2020 To 19/10/2020 (2 Months)
4.	General Medicine	20/10/2020 To 19/04/2021 (6 Months)

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From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. PALLARAPU RAJITHA** *D/o* **Sri. PALLARAPU VENU** bearing Regd.No.: **15M71T0020** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

S.No.	Department	Total Duration (in months)
1.	General Medicine	20/01/2020 To 19/03/2020 (2 Months) 20/06/2020 To 19/10/2020 (4 Months)
2.	General Surgery	20/10/2020 To 19/12/2020 (2 Months)
3.	Pediatrics	20/12/2020 To 19/02/2021 (2 Months)
4.	Obstetrics & Gynecology	20/02/2021 To 19/04/2021 (2 Months)

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Ref.No.: ANCP/Internship Certificate/18/2020-21. Date: 24.06.2021.

From
Dr. D. Swarnalatha,
M.Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

CERTIFICATE OF INTERNSHIP

This to certify that **Dr. PEDDAKALVAPALLI RAJITHA** *D/o* **Sri. P SIDDI RAMULU** bearing Regd.No.: **15M71T0021** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

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This to certify that **Dr. CHEENE PALLI REDDY SANTHOSH** *S/o* **Sri. C ANAND** bearing Regd.No.: **15M71T0022** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. MOU with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

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This to certify that **Dr. KOPPALA SUKANYA** *D/o* **Sri. KOPPALA SUBRAHMANYAM** bearing Regd.No.: **15M71T0024** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU** with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

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CERTIFICATE OF INTERNSHIP

This to certify that **Dr. VALLURI SUNAINA** *D/o* **Sri. VALLURI ALLABAKASH** bearing Regd.No.: **15M71T0026** of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. **MOU with Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following **Units/Departments** from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

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Principal.

CERTIFICATE OF INTERNSHIP

This to certify that Dr. UMMAKA VENKATESH *S/o* Sri. UMMAKA SUBBA RAMAIAH bearing Regd.No.: 15M71T0027 of Annamacharya College of Pharmacy, New Boyanapalli, Rajampeta, Kadapa District, Andhra Pradesh. MOU with **Rajiv Gandhi Institute of Medical Sciences General Hospital, Kadapa**, Andhra Pradesh has successfully done the **Internship** in the following Units/Departments from **20/01/2020 to 19/03/2020 & 20/06/2020 to 19/04/2021** as prescribed under regulation 16 and Appendix C of Pharm.D Regulation 2008.

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13. Certificate of passing examination.— Every student who has passed the examinations for the Pharm.D. (Doctor of Pharmacy) or Pharm.D. (Post Baccalaureate) (Doctor of Pharmacy) as the case may be, shall be granted a certificate by the examining authority.

14. Hospital posting.— Every student shall be posted in constituent hospital for a period of not less than fifty hours to be covered in not less than 200 working days in each of second, third & fourth year course. Each student shall submit report duly certified by the preceptor and duly attested by the Head of the Department or Institution as prescribed. In the fifth year, every student shall spend half a day in the morning hours attending ward rounds on daily basis as a part of clerkship. Theory teaching may be scheduled in the afternoon.

15. Project work.—

(1) To allow the student to develop data collection and reporting skills in the area of community, hospital and clinical pharmacy, a project work shall be carried out under the supervision of a teacher. The project topic must be approved by the Head of the Department or Head of the Institution. The same shall be announced to students within one month of commencement of the fifth year classes. Project work shall be presented in a written report and as a seminar at the end of the year. External and the internal examiners shall do the assessment of the project work.

(2)Project work shall comprise of objectives of the work, methodology, results, discussions and conclusions.

16. Objectives of project work.— The main objectives of the project work is to—

(i)Show the evidence of having made accurate description of published work of others and of having recorded the findings in an impartial manner; and

(ii) Develop the students in data collection, analysis and reporting and interpretation skills.

17. Methodology.— To complete the project work following methodology shall be adopted, namely:—

(i)Students shall work in groups of not less than two and not more than four under an authorised teacher;

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(ii)Project topic shall be approved by the Head of the Department or Head of the Institution;

(iii)Project work chosen shall be related to the pharmacy practice in community, hospital and clinical setup. It shall be patient and treatment (Medicine) oriented, like drug utilisation reviews, pharmacoepidemiology, pharmacovigilance or pharmacoeconomics;

(iv)Project work shall be approved by the institutional ethics committee;

(v)student shall present at least three seminars, one in the beginning, one at middle and one at the end of the project work; and

(vi)two-page write-up of the project indicating title, objectives, methodology anticipated benefits and references shall be submitted to the Head of the Department or Head of the Institution.

18. Reporting.—

(1) Student working on the project shall submit jointly to the Head of the Department or Head of the Institution a project report of about 40-50 pages. Project report should include a certificate issued by the authorised teacher, Head of the Department as well as by the Head of the Institution

(2) Project report shall be computer typed in double space using Times Roman font on A4 paper. The title shall be in bold with font size 18, sub-tiles in bold with font size 14 and the text with font size 12. The cover page of the project report shall contain details about the name of the student and the name of the authorised teacher with font size 14.

(3) Submission of the project report shall be done at least one month prior to the commencement of annual or supplementary examination.

19. Evaluation.— The following methodology shall be adopted for evaluating the project work—

(i)Project work shall be evaluated by internal and external examiners.

(ii) Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of four students).

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(iii)Three seminars presented by students shall be evaluated for twenty marks each and the average of best two shall be forwarded to the university with marks of other subjects.

(iv)Evaluation shall be done on the following items: Marks

a) Write up of the seminar	(7.5)
b) Presentation of work	(7.5)
c) Communication skills	(7.5)
d) Question and answer skills	(7.5)
Total	(30 marks)

(v)Final evaluation of project work shall be done on the following items: Marks

a) Write up of the seminar	(17.5)
b) Presentation of work	(17.5)
c) Communication skills	(17.5)
d) Question and answer skills	(17.5)
Total	(70 marks)

Explanation.— For the purposes of differentiation in the evaluation in case of topic being the same for the group of students, the same shall be done based on item numbers b, c and d mentioned above.

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PROJECT WORK ALLOTMENT FOR THE V PHARM D STUDENTS 2021-22

S. No	Reg. No	Student names	Guide	Clinical guide	Title of the work
1.	17M71T0022	Sireesha Sirigiri	Dr. D. Swarnalatha	Dr. M. Madhan Mohan Rao	Pharmacovigilance of antibiotics in the department of general medicine – a prospective study.
	16M71T0017	Ruby Huldah Jasper Pauline Mangamoori			
	17M71T0029	Vineela Hasiny Rachoori			
	17M71T0013	Madhuvani Jyothi			
2.	17M71T0015	Lakshmi Manideep Royal .S	Dr. D. Giri Raja Sekhar	Dr. B. Prathap	Safety and efficacy of anti – hypertensive drugs in patients with multiple co–morbidities – a prospective study.
	16M71T0016	Pooja .M			
	16M71T0007	Jyotshna .V			
	17M71T0008	Hari priya .G			
3.	17M71T0009	Kalpana .M	Dr. Meriga Pramod Kumar	Dr. M. V. Sureswara reddy	Creatinine clearance as a tool for dosage adjustment among renal failure patients.
	17M71T0028	Mude. Venkatesh Naik			
	17M71T0021	Thappeta Sailaja			
	17M71T0001	Afreen .S			
4.	17M71T0005	Chenna kesavulu .C	Dr. Mallela Sireesha	Dr. R. Venkata Ramudu	Pharmacovigilance on psychiatric patients treated with different anti-psychotic medications.
	17M71T0006	Gangadhar reddy .K			
	17M71T0017	Nagasudha .E.R			

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	17M71T0018	Rajeswari .P			
5.	17M71T0002	Amrin .S.K	Dr. Meriga Pramod Kumar	Dr. K. Leela Prasad babu	Evaluation of antibiotic resistance pattern in respiratory tract infections and urinary tract infections in tertiary care hospital.
	17M71T0020	Sai Charan .P			
	17M71T0023	Swapna .B			
	17M71T0026	Vaishnavi .CH			
6.	17M71T0019	Ramya .K	Dr. Chappidi Suryaprakash reddy	Dr. R. Venkata Ramudu	A multi-dimensional study to estimate the behaviour of general public during covid-19 pandemic.
	17M71T0012	Madhavi .G			
	17M71T0010	Kartheek .D			
	17M71T0003	Anil kumar .T			
7	17M71T0024	Swetha .M	Mr. V. Chinni krishnaih	Dr. K. Leela Prasad babu	Implementation of START and STOPP criteria to promote appropriate use of medicines among geriatrics with common cardiovascular and respiratory disorders.
	17M71T0004	Aravind .K			
	17M71T0027	Vaishnavi .K			
	17M71T0014	Maneesha .M			
8	17M71T0011	Leelamani .Chama	Dr. D. Giri Raja Sekhar	Dr. M. Madhan Mohan Rao	Assessment of knowledge about medication use and achievement of medication adherence through structured patient education in patients with diabetes mellitus.
	17M71T0030	Yaswanth raju .Somalaraju			
	17M71T0025	Swetha .Pasupuleti			
	17M71T0007	Harini .Gadhiraju			

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PHARMACOVIGILANCE OF ANTIBIOTICS IN THE DEPARTMENT OF GENERAL MEDICINE -A PROSPECTIVE STUDY

A THESIS

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTHAPUR

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

DOCTOR OF PHARMACY

Submitted by

RUBY HULDAH JASPER PAULINE. MANGAMOORI (16M71T0017)

MADHUVANI. JYOTHI (17M71T0013)

SIREESHA. SIRIGIRI (17M71T0022)

VINEELA HASINY. RACHOORI (17M71T0029)

Under the guidance of

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DEPARTMENT OF PHARMACY PRACTICE

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Approved by PCI, AICTE, NBA (U.G), New Delhi

MAY-2022

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CERTIFICATE

This is to certify that the thesis entitled " **PHARMACOVIGILANCE OF ANTIBIOTICS IN THE DEPARTMENT OF GENERAL MEDICINE -A PROSPECTIVE STUDY** " is a bonafide research work done by **RUBY HULDAH JASPER PAULINE. MANGAMOORI (16M71T0017), MADHUVANI. JYOTHI (17M71T0013), SIREESHA. SIRIGIRI (17M71T0022), VINEELA HASINY. RACHOORI (17M71T0029)**, in partial fulfillment of the requirement for the award of degree of **Doctor of Pharmacy** in **Department of Pharmacy Practice**. The research work was carried out in Government General Hospital and submitted to Jawaharlal Nehru Technological University Anantapur, under the supervision and guidance of **Dr. D. SWARNALATHA M.Pharm, Ph.D., Professor and Principal, Annamacharya College of Pharmacy, Rajampet** during the academic year 2021 – 2022. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

Dr. D. SWARNALATHA
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Viva voce conducted through Online mode on 11/05/22
By
Dr. V. Shanmugam
Associate Professor
Sri Padmavathi School of Pharmacy, Tirupathi

Examiner 1

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Examiner 2

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7.CONCLUSION

- From the study, it was concluded that Cephalosporin antibiotics are the most common class of antibiotics responsible for causing adverse drug reactions and the most affected organ system is Gastro Intestinal System.
- The suspected ADRs were reported and the same were processed for further evaluation
- Clinical pharmacist could have a greater influence at preventing, by early detection and resolution of ADRs resulting in maintaining patient compliance.
- One important breakthrough conquered in our institution during the study period was that the participation of clinical pharmacist in daily clinical activities in inpatient units. Therefore it was essential to complement the activities of clinical pharmacist
- The present study concludes that early detection, prompt reporting of the detected ADRs to adverse reaction monitoring center (AMC) helps to improve the pharmacovigilance system in India and also would be more useful for the future studies.
- However in order to prevent ADRs, it is recommended to advise patients to carry a card or note in their wallets which gives information on drug allergies or intolerances and this could help Health Care Providers to prevent ADRs in emergency situations.

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ASSESSMENT OF KNOWLEDGE ABOUT MEDICATION USE AND ACHIEVEMENT OF MEDICATION ADHERENCE THROUGH STRUCTURED PATIENT EDUCATION IN PATIENTS WITH DIABETES MELLITUS

A THESIS

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

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

DOCTOR OF PHARMACY

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This is to certify that the thesis work entitled "ASSESSMENT OF KNOWLEDGE ABOUT MEDICATION USE AND ACHIEVEMENT OF MEDICATION ADHERENCE THROUGH STRUCTURED PATIENT EDUCATION IN PATIENTS WITH DIABETES MELLITUS" is a bonafide thesis work done by HARINI.GADHIRAJU (17M71T0007), LEELA MANI. CHAMA (17M71T0011), SWETHA. PASUPULETI (17M71T0025), YASWANTH RAJU. SOMALARAJU (17M71T0030) in partial fulfillment of the requirement for the award of the degree of **Doctor of pharmacy** in **Department of Pharmacy Practice.** The thesis work was carried out in **Government General Hospital, Kadapa,** and ANNAMACHARYA COLLEGE OF PHARMACY and submitted to Jawaharlal Nehru and technological university Anantapur, under my supervision and guidance of Dr. D.GIRI RAJASEKHAR PHARM-D (Ph.D.), during the academic year 2021-2022.The results embodied in this thesis have not been submitted to any other university or institute for the award of any degree or diploma.

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7. CONCLUSION

We conclude effective medications that meet individual patient needs with proper health education can improve diabetic patient's knowledge with increased awareness.

Health education is suitable for different levels of age ,gender and education . The key success was the use of a standard approach in patient education with dispensing covers, pamphlets or leaflets had an impact of health education on diabetic patients.

Education can be considered as an integral part of the treatment which helps to make treatment plan for each patient for his/her education

Accessibility of clinical pharmacist or health care professional to diabetic patients should be made easy which help to raise the awareness about diabetes and prevent further complications.

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CREATININE CLEARANCE AS A SCREENING TOOL FOR DOSAGE ADJUSTMENT AMONG RENAL FAILURE PATIENT

A THESIS

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CONCLUSION

In the present study we conclude that dosage adjustment is done in majority of the cases in availability of clinical calculators to estimate renal function of CKD patients in which GFR and CCR should be assessed.

Ranitidine and tranexamic acid were the drugs identified in the present study where dosage adjustment is required.

As a Clinical pharmacist we can play an important role in dosage adjustment among renal impaired patients.

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PHARMACOVIGILANCE ON PSYCHIATRIC PATIENTS TREATED WITH DIFFERENT ANTI-PSYCHOTIC MEDICATIONS

A THESIS

Submitted to

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8. CONCLUSION

Clinical pharmacists could have a greater influence at preventing, early detection and resolution of ADR resulting in maintaining patient compliance. One important breakthrough conquered during our study period is, identification of different ADRs associated with different Anti-Psychotic medications, monitoring and reporting of adverse drug reactions.

Based on our study results we conclude that, Psychosis was the most common Psychiatric disease affected in the patients. Majority of the study population experienced Gastro-Intestinal Tract related ADRs. Olanzapine induced increased appetite & Weight gain were the most common ADRs identified and reported. Long term is required to treat such medical problems associated with Psychiatric disorders. ADRs to anti-psychotic medications is common problem encountered in the pharmacotherapy of different psychiatric disorders.

Initial identification of these adverse effects is important to minimise long term adverse effects and associated complications. In order to counteract these adverse effects, appropriate measures like optimal dosing, starting with low doses, dose titrations, alternative drug choices and Cognitive Behavioural Therapy can be recommended.

Regular monitoring of new signs and symptoms during treatment should be considered. Occurrence of ADR had largely affected hospital stay of patients indirectly influencing economic burden on patients. ADR are often poorly identified and reported in day to day medical practice. As we collect more and more information about ADRs, we need an active surveillance system regarding identification and reporting of ADRs with antipsychotic drugs.

Furthermore, the process of medication use is a dynamic process and thus ensuring better safety, efficacy and cost effectiveness therapy is also very important from time to time. This study can also be more useful to the future researchers about detailed note about ADRs which

are commonly occurring in psychiatric patients and to plan some of risk minimization strategies related to ADRs.

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EVALUATION OF ANTIBIOTIC RESISTANCE PATTERN IN RESPIRATORY TRACT INFECTIONS AND URINARY TRACT INFECTIONS IN TERTIARY CARE HOSPITAL

A THESIS

Submitted to

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7. CONCLUSION

- Our study reveals that most common isolated resistant microorganism in both respiratory tract infections and urinary tract infections was gram negative bacteria (in Urinary tract infections – E. coli, in Respiratory tract infections – Klebsiella species).
- Our study reveals that Ceftriaxone shows more resistance than other antibiotics in respiratory tract infections and Azithromycin is mostly prescribed drug as an empirical therapy for subjects in respiratory tract infections.
- Cefperazone + Salbactum shows more resistance in urinary tract infections and Nitrofurantoin is an empirical drug therapy for subjects in Urinary tract infections.
- The report of the present study is submitted to the Infection Control Committee (ICC) of hospital to take necessary preventive measures to reduce the resistance cases of E. coli in Urinary tract infections and Klebsiella species in Respiratory tract infections.
- We concluded that although decreasing trends in antibiotic resistance among E. coli and Klebsiella species isolates were observed in recent years, it cannot be ruled out that the trends might increase again which shows the importance of longitudinal surveillance data to detect changes in antibiotic resistance trends

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A MULTI-DIMENSIONAL STUDY TO ESTIMATE THE BEHAVIOUR OF GENERAL PUBLIC DURING COVID - 19 PANDEMIC.

A THESIS

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7. CONCLUSION

Our study showed that anxiety, stress, and depression were most prevalent in the study population in Kadapa during the Covid-19 lockdown.

Our survey showed that females, uneducated respondents, experienced depression, anxiety, and stress. Married and employed respondents experienced anxiety and stress. The respondents who experienced depression, anxiety, and stress also reported poor sleep quality. There is a remarkable relation between psychological and physiological health. Psychological health affected the respondent's physiological health and was the dominant domain in health.

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IMPLEMENTATION OF START/STOPP CRITERIA TO PROMOTE APPROPRIATE USE OF MEDICINES AMONG GERIATRICS WITH COMMON CARDIOVASCULAR AND RESPIRATORY DISORDERS.

A THESIS

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7. CONCLUSION

In the present study we conclude that clinical pharmacist mediated implementation of START&STOPP criteria can potentially resolve different drug related problems like PIM's, PPO's, DDI's, ADR's, TD's.

Advanced age is one of the major factors that is responsible for changes in pharmacokinetic & pharmacodynamic properties of drug, as a predisposing factor for development of ADR's.

Polypharmacy, decline in renal function, comorbidities along with other factors can influence pharmacokinetic & pharmacodynamic properties of the drug which are responsible for drug – drug interactions.

Prescribing appropriately as per standard treatment protocols can minimize the above problems.

Physicians and clinical pharmacists should be aware of potential drug related problems among geriatrics to improve their quality of life and provide safe and effective treatment.

Our study concluded that it may be beneficial to educate healthcare teams about these criteria to reduce the prescribing of PIMs.

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SAFETY AND EFFICACY OF ANTI – HYPERTENSIVE DRUGS IN PATIENTS WITH MULTIPLE COMORBIDITIES – A PROSPECTIVE STUDY

A THESIS

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CERTIFICATE

This is to certify that the thesis entitled "SAFETY AND EFFICACY OF ANTI – HYPERTENSIVE DRUGS IN PATIENTS WITH MULTIPLE COMORBIDITIES – A PROSPECTIVE STUDY" is a bona fide research work done by V. JYOTSHNA (16M71T0007), M. POOJA (16M71T0016), G. HARI PRIYA (17M71T0008), S. LAKSHMI MANIDEEP ROYAL (17M71T0015) in partial fulfillment of the requirement for the award of degree of **Doctor of Pharmacy** in **Department of Pharmacy Practice**. The research work was carried out in Government General Hospital and submitted to Jawaharlal Nehru Technological University Anantapur, under supervision and guidance **Dr. D. GIRI RAJA SEKHAR Pharm.D, (Ph.D), Associate Professor, Department of Pharmacy Practice, Annamacharya College of Pharmacy, Rajampet,** during the academic year 2021 – 2022. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

Dr. D. Giri Raja Sekhar,
Pharm.D, (Ph.D),
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Checked via online on 10/05/22
By
Dr. P. Balaji
Examiner 1

Examiner 2

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7. CONCLUSION

Based on our study results we conclude that that angiotensin receptor blockers (ARBs) and calcium channel blocker (CCB) can reduce systolic blood pressure (SBP) and diastolic blood pressure (DBP) more effectively when compared to other classes of antihypertensives in different comorbidities like Diabetes Mellitus (DM), Cardio vascular accident (CVA) and chronic kidney disease (CKD).

As per our study results, we conclude telmisartan is safer than amlodipine, as the number of suspected adverse drug reactions were little high.

Poly pharmacy can cause many ADRs and predispose hypertensive patients to various DRPs. As per the standard treatment protocol like implementation of JNC 8 can reduce pill burden and promote safe use of drugs.

DUR can help physicians to prescribe rationally. All the hypertensives prescribed in our study were rational and less than the standard value of WHO Define Daily Dose.

Clinical pharmacist should work in collaboration with physicians to promote safe and effective pharmacotherapy in chronic diseases like hypertension which intern improves patient's health.

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B.PHARMACY PROJECT WORK SYLLABUS

1. Synthesis, characterization and biological evaluation of fused heterocyles for various activities
2. Design, characterization and biological evaluation of fused heterocyles for various activities
3. Insilico and invitro evaluation of various synthesized aryl fused heterocycles
4. Insilico screening of biological activities, toxicities, physicochemical properties and
5. Absorption, distribution, metabolism and excretion of structural analogs.
6. Rational drug design, synthesis, characterization and biological evaluation of metal complexes of synthesized compounds
7. Formulation and evaluation of various dosage forms such as tablets, capsules, patches, microspheres, nanoparticles, niosomes.
8. Formulation and evaluation of controlled drug delivery systems.
9. Formulation and evaluation of conventional drug delivery systems.
10. Formulation and evaluation of cosmetic products such as dentifrices, creams etc.
11. Antimicrobial activity of various leaf, stem, root, bark and other plant products.
12. Anti-inflammatory activity of various flowers, leaf, stem, root, bark and other plant products.
13. Anti-cancer, Anti-oxidant and Anti-diabetic activity.
14. Method development and validation of pharmaceutical dosage forms by U.V Spectroscopy.
15. Calorimetric estimation of various pharmaceutical dosage forms.
16. Estimation of functional groups of pharmaceutical dosage forms by I.R Spectroscopy.

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17. screening of plant extracts for anti-diabetic, anti-oxidant activities.
18. Invitro pharmacological studies on yeast metabolised plant extracts.
19. hypoglycaemic and immunomodulatory activity of plant extracts.

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B PHARMACY 2018 BATCH PROJECT TITLE

S.NO	ROLL NUMBER	NAME OF THE STUDENT	NAME OF THE GUIDE	TITLE
1	18M71R0082	SYED THASLIMAA	Mr. S. Sudhakar	IN VITRO ANTICANCER, ANTIOXIDANT AND ACID NEUTRALIZING CAPACITY OF ETHANOLIC EXTRACT OF STERCULIA URENS LEAVES.
	18M71R0042	SYED MUSTAQ AHAMED		
	18M71R0026	S JYOTHI		
	18M71R0017	RAGIRI CHANIKYA		
	18M71R0054	JALA PRASANTHI		
2	18M71R0004	VALLURU AFRIN	Mr. V. Chinni Krishnaiah	INSILICO AND INVITRO EVALUATION OF CHRYSIN AS MULTI TARGET DIRECTED LIGAND FOR THE TREATMENT OF NEURODEGENRATIVE DISORDERS.
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	18M71R0061	BHUMIREDDY SAI CHANDANA		
	18M71R0050	KALAKUNTA PAVITHRA		
	18M71R0095	S ZARINA KOUSAR		
3	18M71R0011	SYED AYESHA	Mrs. A. Sushmitha	A COMPARATIVE STUDY OF ACID NEUTRALISING CAPACITY OF VARIOUS BRANDS OF ANTACID POWDERS.
	18M71R0021	MOOLI GOURI SANKAR REDDY		
	18M71R0084	INTURI USHARANI		
	18M71R0031	KANCHANA MADHUSUDHAN REDDY		
	18M71R0010	BANDARU ASHASHAINY		
4	18M71R0002	SHAIK AFIYA PARVEEN	Mr. E. Gireesh Kumar	DEVELOPMENT OF A MOBILE APPLICATION ON PREGNANCY SAFERY INDEX.
	18M71R0078	THALLA SUBBARAYUDU		
	18M71R0051	BANDI POOJA		
	18M71R0088	GOSANI VENKATA SRIDHAR		
	18M71R0006	KOTHAKOTA AMARNATH		
5	18M71R0039	PODALAKURU MOUNIKA	Dr. K. Adinarayana	INVITRO PHARMACOLOGICAL STUDIES ON YEAST METABOLISED PLANT EXTRACTS (BAUHINIA PURPUREA BARK AND FLOWER).
	18M71R0045	AKULA ARASIMHADHANAKISHORE		
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	18M71R0024	MUCHUKOTA JAYAPRAKASH REDDY		
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6	18M71R0013	MOORA BHAVANAPRATHYUSHA	Mr. V. Sarovar Reddy	FORMULATION AND EVALUATION OF ANTIBACTERIAL TOOTH POWDER.
	18M71R0079	GUDISAY SUJIL KRISHNA		
	18M71R0014	PIDUGU BHAVITHA		
	18M71R0086	KUNDA VENKATA GOPI CHANDRA		
	18M71R0001	PESALEDDULA ABRAHAM JOSEPH		
7	18M71R0073	NAGOOR SHIHAM AL WAFA	Mr. Y. Pradeep Kumar	GREEN SYNTHESIS, CHARACTERIZATION AND IN-VITRO ANTI-INFLAMMATORY & ANTI TUBERCULAR ACTIVITY OF NEW CHALCONE DERIVATIVES.
	18M71R0059	KONISETTY REDDAIAH		
	18M71R0058	NARLA RAJESWARI		
	18M71R0080	NANNURI SUNIL KUMAR		
	18M71R0028	YEDDULA KEERTHI		
8	18M71R0076	NAGENDLA SREELAKSHMI	Dr. C. Suryaprakash Reddy	FORMULATION AND EVALUATION OF GASTRORETENTIVE FLOATING TABLETS OF LOVASTATIN BY USING DIFFERENT POLYMERS.
	18M71R0081	REDDY SURESH GOUD		
	18M71R0068	THUPAKULA SANDHYA		
	18M71R0072	B N SHASHANK KUMAR REDDY		
	18M71R0056	MADASULA PREETHI DARSHINI		
9	18M71R0018	CHALLA DHARANI	Mr. M. Madhu	DEVELOPMENT AND VALIDATION OF UV SPECTROSCOPIC METHOD FOR ESTIMATION OF GEFITINIB IN BULK AND TABLET DOSAGE FORM.
	18M71R0052	GUDISI PRADEEP KUMAR		
	18M71R0064	MANTI SAILEELA		
	18M71R0046	MALPATEL NAVEEN KUMAR REDDY		
	18M71R0065	SHAIK SANA SAMRIN		
10	18M71R0043	NAMA NAGA JYOTHI	Mrs. B. Nirmala Devi	IN-VITRO ANTI-UROLITHIATIC ACTIVITY OF STERCULIA URENS.
	18M71R0048	PANGA PAVAN KUMAR		
	18M71R0035	GUNIPATI MEGHANA		
	18M71R0033	JALUKURI MAHESH		
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	18M71R0090	KUNI VIJAYPAL		
	18M71R0003	SYED AFRIN		
	18M71R0087	KALAVAKURI VENKATA MUNEENDRA		
	18M71R0009	SHAIK ASHA		
12	18M71R0022	MUDDALAVARI HARI KUMAR	Dr. M. Deepa	OPTIMISED MICROWAVE ASSISTED EXTRACTION OF PHYTOCHEMICAL CONSTITUENTS EXTRACTION FROM TINOSPORA CORDIFOLIA AND ASSESSMENT OF IN VITRO ANTI INFLAMMATORY ACTIVITY.
	18M71R0036	SANKEPALLI MOHAN KUMAR		
	18M71R0091	MANGALAPU L V VINEESHA		
	18M71R0074	BEEDUPALLI SREEHARSHA		
	18M71R0019	GOPALAPPAGARI DIVYA		
13	18M71R0069	PATHAN SAYADA KHANAM	Dr. P. Anitha	FORMULATION AND EVALUATION OF CONTROLLED RELEASE SODIUM CARBOXY METHYLATED LOCUST BEAN GUM MICROSPHERES CONTAINING REPAGLINIDE.
	18M71R0020	MASULDHAR FAROOQ BASHA		
	18M71R0037	KOVVURI MOUNIKA		
	18M71R0063	MUDIYAM SAI PAVAN		
	18M71R0062	MOPURI SAI KUMAR REDDY		
14	18M71R0012	VALLELA BAVITHA REDDY	Dr. P. Dwarakanadha Reddy	FORMULATION AND EVALUATION OF TOLNAFTATE AS PHYTOSOMES TO TREAT FRNGAL DISEASES.
	18M71R0070	PURAM SHANMUGA SREENIVASULU		
	18M71R0077	MADA SRIPAVAN KALYAN		
	18M71R0085	ADIKE VAISHNAVI		
15	18M71R0092	SIRIGIRI YAMINI	Mr. V. Chinni Krishnaiah	INSILICO AND INVITRO EVALUATION OF DIOSMENTIN AS MULTI TARGET DIRECTED LIGANDS FOR THE TREATMENT OF NEURODEGENERATIVE DISORDERS.
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	18M71R0060	YALLANURU ROOPA RANGANATH		
	18M71R0055	SREERAMULU PRAVALLIKA		
16	18M71R0040	SULAM MOUNIKA	Mr. R. Pradeep Kumar	IN VITRO ANTIOXIDANT ACTIVITY AND ANTI-INFLAMMATORY ACTIVITY OF Phoenix dactylifera.
	18M71R0067	ERUGUDINLLA SANDHYA		
	18M71R0038	MUNAGA MOUNIKA		
17	18M71R0023	KATHA HARSHA KIRAN REDDY	Dr. D. Swarnalatha	DESIGN AND EVALUATION OF QUERCETIN TRANSDERMAL PATCHES BY USING PERMEATION ENHANCERS.
	18M71R0032	KOLISETTY MAHENDRA KUMAR		
	18M71R0066	SYED SANA		
	18M71R0071	PAIDIKALVA SHARIKA VARSHINI		
18	18M71R0029	BONTHA LAKSHMI REDDAMMA	Mr. U. Narasimhulu	DEVELOPMENT AND VALIDATION OF UV SPECTROSCOPIC METHOD FOR THE ESTIMATIONOF RACECADOTRIL INCAPSULE DOSAGE FORM.
	18M71R0093	GUTAM YASHWANTH PAVAN		
	18M71R0083	BANDARU USHAKIRAN		
	18M71R0034	GUJJULA MALLIKARJUNA		
19	18M71R0008	MOPURI ANKITHA	Mrs. A. Madhulatha	SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF NOVEL SALICYLIC ACID FUSED 1,3,4-OXADIAZOLE DERIVATIVES.
	18M71R0027	THANDAI KALPANA		
	18M71R0015	PUNAGANI BHAVYA SREE		
	18M71R0007	BHAVANASI ANAGHA PRIYA		

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IN VITRO ANTICANCER, ANTIOXIDANT AND ACID NEUTRALIZING CAPACITY OF ETHANOLIC EXTRACT OF STERCULIA URENS LEAVES

A THESIS

Submitted to

JAWAHARLALNEHRU TECHNOLOICAL UNIVERSITY, ANANTAPUR

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

BACHELOR OF PHARMACY

Submitted by

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SYED MUSTAQ AHAMED (18M71R0042)

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CERTIFICATE

This is to certify that the dissertation work entitled "**IN VITRO ANTICANCER, ANTIOXIDANT AND ACID NEUTRALIZING CAPACITY OF ETHANOLIC EXTRACT OF *STERCULIA URENS* LEAVES**" is a bonafide research work done by **SYED THASLIMAA [18M71R0082], SYED MUSTAQ AHAMED [18M71R0042], S JYOTHI [18M71R0026], RAGIRI CHANIKYA [18M71R0017], JALA PRASANTHI [18M71R0054]** in partial fulfillment of the requirement for the award of degree of **Bachelor of Pharmacy**. The research work was carried out in Annamacharya College of Pharmacy and submitted to Jawaharlal Nehru Technological University Anantapur, under **Mr. SIMHAM SUDHAKAR**, M. Pharm, (Ph.D)., supervision and guidance during the academic year 2021-2022.

The results embodied in this dissertation have not been submitted to any other University or Institute for the award of any degree.

Supervisor

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Associate Professor

Department of Pharmacology

Vice voce examination held on 04/07/2022

Examiner-I

Examiner -II

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7. CONCLUSION:

The main objective of the study is to identify the presence of different secondary metabolites, their functional groups, antioxidant and anticancer activity and acid neutralizing capacity of *Sterculia urens* leaves. The extract of *Sterculia urens* leaves exhibited H202 and DPPH radical scavenging activity, indicating *S. urens* as a potential candidate for antioxidant study for further studies. Additionally, isolation, purification, and characterization of the phytochemicals will make remarkable studies. This primary information will simplify in leading further studies on the discovery of bioactive ingredients, resolve their efficacy by in vivo studies, and demonstrate their safety and effectiveness in clinical trials. The study suggests that crude extract possesses promising antioxidant and anticancer activity and acid neutralising capacity.

INSILICO AND *INVITRO* EVALUATION OF CHRYSIN AS MULTI TARGET DIRECTED LIGAND FOR THE TREATMENT OF NEURODEGENRATIVE DISORDERS

A THESIS

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

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

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CERTIFICATE

This is to certify that the thesis entitled ***INSILICO*** **AND** ***INVITRO*** **EVALUATION OF CHRYSIN AS MULTI TARGET DIRECTED LIGAND FOR THE TREATMENT OF NEURODEGENRATIVE DISORDERS** that is being submitted by **V. AFRIN [Reg. No. 18M71R0004], SHAIK.ALLABAKASH [Reg. No.18M71R0005], K.PAVITHRA [Reg. No. 18M71R0050], B. SAI CHANDANA [Reg. No. 18M71R0061], S.ZARINA KOUSAR [Reg. No. 18M71R0095]** in partial fulfillment for the award of degree of **Bachelor of Pharmacy** the research work was carried out in **Annamacharya College of Pharmacy** and submitted to Jawaharlal Nehru Technological University Ananthapur under my supervision and guidance **Mr. V.Chinnikrishnaiah** M. Pharm.**(Ph.D)** Associate Professor, Department of Pharmacology during the academic year **2021-2022.** The results embodied in this dissertation have not been submitted to any other university or institute for the award of any degree or diploma.

Research guide
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8. CONCLUSION

The present study showed that important bioactive phytocompound chrysin possess anti-Alzheimer's Disease potential against the Alzheimer's Disease targets of NMDA receptors, Mimapsin-2 enzyme, Cyclooxygenase enzyme and Acetylcholinesterase. Thus, this type of computational analysis (in silico molecular docking study) and cell line studies helps to understand the presence of phytoconstituents that have binding affinities for the selected targets of Alzheimer's Disease. Exploring the natural compounds for the search of lead molecules by virtual screening methods by using molecular docking analysis reduces side effects, cost, and time in drug discovery.

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A COMPARATIVE STUDY OF ACID NEUTRALISING CAPACITY OF VARIOUS BRANDS OF ANTACID POWDERS

A THESIS

Submitted to

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

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Project Viva-Voce Examination conducted on 04-07-2022

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8. CONCLUSION

The study has shown that all the antacid brands analyzed (n= 6) had Sodium bicarbonate as active acid neutralizing agent, with other excipients. All the brands qualified PAT as antacids with each having pH greater than 3.5. In addition, they all recorded ANC values above the acceptable limit of 5mEq/dose. The buffering capacities observed were however not consistent with the ANC except for brand "Digene Ultra Fizz", that demonstrated consistent ANC and buffering capacity to assure quality and efficacy in vitro. The current work has further shown that cost does not translate to quality as both expensive and low-cost brands were found within the acceptable limits of antacid action. Antacids exert their effects by the combined action of their acid neutralization and buffering capacities. Therefore, to improve human welfare with respect to the use of antacids, it is highly recommended for manufacturers to state ANC and BC values on labels or in drug information leaflets to assure medicine quality, efficacy and value for money.

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DEVELOPMENT OF A MOBILE APPLICATION ON PREGNANCY SAFETY INDEX

A THESIS

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

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7. SUMMARY & CONCLUSION

Mobile applications are becoming increasingly more present in our daily lives, allowing people to perform several tasks through the use of mobile devices. With a growing number of mobile applications available at app stores and the improved capabilities of smartphones, people are downloading more applications to their devices. Usage of mobile apps has become increasingly prevalent across mobile phone users. Mobile apps are playing an ever-increasing role within healthcare and when designed and integrated correctly can yield many benefits.

A MS Excel database of Pregnancy Safety Index, Pregnancy Risk Categories, and Brand Name and Complications was created and plugged in AppSheet platform to develop mobile application.

A no-code platform, AppSheet, was used for the development of mobile application for the Pregnancy Safety Index of drugs. The appearance of the developed app was changed using colours and icons that represents the theme of the app. Users can be able to interact with data easily and get what they need from the app. Offline & Synchronization was done to use the app on a mobile device even when that device is offline and disconnected from the network.

The key features of the developed app is inclusion of more than 1600 drugs, A to Z organization of drugs with generic name; pharmacologic class; pregnancy recommendations; pregnancy and fetal risk summaries, and discusses its main challenges and benefits.

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INVITRO PHARMACOLOGICAL STUDIES ON YEAST METABOLISED PLANT EXTRACTS (BAUHINIA PURPUREA BARK AND FLOWER)

A THESIS

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR.

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

BACHELOR OF PHARMACY

BY

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7. CONCLUSION

Bauhinia purpurea is a natural herbal plant and it serves as a potential source of medicine by possessing diversity in its phytochemical composition. In our current research we have made an attempt to explore its medicinal properties through phytochemical screening studies and invitro pharmacological studies by using Yeast (Saccharomyces cerevisiae) metabolized plant extracts (bark and flower). The results of phytochemical screening studies have revealed that in the yeast metabolized Bark extract Anthraquinones, Cyanogenetic glycosides and Ergot alkaloids present but the same phyto constituents were absent in the yeast non- metabolized bark extract. In yeast metabolized flower extract Cinchona alkaloids, Cyanogenetic glycosides. Anthraquinones and Ergot alkaloids are present and the same are absent in pure flower extract.

The results of ATR/FTIR spectral analysis have shown significant changes in the phytochemical constituents (functional groups) in Yeast (Saccharomyces cerevisiae) metabolized plant extracts (bark and flower) but however a detailed phytochemical investigation has to be carried out for the clear understanding of the potentialities of our plant extracts as potent anti diabetic and anti inflammatory agents.

In the current research we have selected Yeast as a biological model to explore chemical modifications in the herbal plants by metabolic engineering process that enhances the therapeutic efficiency of the plant in various disease treatments.

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FORMULATION AND EVALUATION OF ANTIBACTERIAL TOOTH POWDER

A THESIS

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CONCLUSION

In the present work efforts has been made to prepare and evaluate the Antibacterial tooth powder by using two antibacterial agents such as Thymol, Camphor, by various combinations. Zone of inhibition for Formulation F3 obtained maximum compared to other formulations against Staphylococcus aureus after incubating for 24 hours. It may have fair antibacterial activity efficiency. Hence the formulation F3 has met the objectives of the present study which may holds promise for further studies.

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GREEN SYNTHESIS, CHARACTERIZATION AND IN-VITRO ANTI-INFLAMMATORY & ANTI TUBERCULAR ACTIVITY OF NEW CHALCONE DERIVATIVES

A THESIS

Submitted to

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CONCLUSION

Novel diazenyl containing phenyl styryl ketone derivatives as Anti- inflammatory and Anti Tubercular agents were synthesized, characterized and characterized.

The results of *in-vitro* anti- inflammatory activity revealed that 2c,2d and 2e compounds containing dimethyl amino, hydroxy and methoxy moieties possess which may favoured for anti- inflammatory activity.

The results of *in-vitro* anti- tubercular activity revealed that 2b compound contains electron withdrawing group (NO_2) had shown potent activity when compared to standard. The compound 2e possess methoxy group which might have favoured anti-tubercular activity.

Further research work need to be carried out to characterize the synthetic compounds for NMR and MASS studies.To know the relationship between structure and biological activity need to perform DOCKING studies. The further scope of present research work is to be synthesize few more substitutes and screen for their activity. Other descriptor parameters of QSAR need to be studied to get a good correlation between structure and biological activity.

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FORMULATION AND EVALUATION OF GASTRORETENTIVE FLOATING TABLETS OF LOVASTATIN BY USING DIFFERENT POLYMERS

A PROJECT WORK

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SUMMARY AND CONCLUSION

From the experimental data, it can be concluded that,

- Floating Tablets of Lovastatin are formulated to increase gastric residence time and thereby improve its therapeutic efficacy.
- Eudragit RS 100 was respectively showed better Sustained drug release of Lovastatin.
- When drug:polymer concentration increases the release rate decreases this is because of reason whenthe concentration of polymer increases the diffusion path length increases
- Formulated tablets showed satisfactory results for various Post compression evaluation parameters like: tablet thickness, hardness, weight variation, floating lag time,total floating time, content uniformity and *in vitro* drug release.
- Formulation F2 gave better-controlled drug release and floating properties in comparison to the other formulations.
- The release pattern of the F2 formulations was best fitted to Korsmeyer-Peppas model, Higuchi and first-order model.
- The most probable mechanism for the drug release pattern from the formulation was non-Fickian diffusion or anomalous diffusion.

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DEVELOPMENT AND VALIDATION OF UV SPECTROSCOPIC METHOD FOR ESTIMATION OF GEFITINIB IN BULK AND TABLET DOSAGE FORM

A THESIS

Submitted To

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

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7. SUMMARY

The Gefitinib tablet was safely used in the treatment of certain breast, lung and other cancers. The present study represents the first previously not reported validated method for analytical method development and validation of Gefitinib in bulk and tablet dosage form by using a UV spectrophotometer.

Thus, the present work aims at develop and validate a new analytical method that was simple, rapid, economical, precise, and accurate method for estimation of Gefitinib in bulk and tablet dosage form.

UV method development of Gefitinib was done by conducting solubility studies in different solvents. From the solubility profile, 0.1M Hydrochloric acid was selected as common solvent for the estimation of ~~Amikacin sulfate~~ Gefitinib.

The spectroscopic estimation was achieved by using 0.1M Hydrochloric acid at 252nm. The optimum conc. of the Gefitinib was found to be 7µg/ml. It was shown 0.449.

Linearity studies were carried out and the range was found to be 2–12 µg/ml. The regression coefficient value was found to be 0.9995.

The accuracy of the method was performed by recovery studies. The percentage recovery was found to be in the range of 99.93–100.14%. The higher value indicates that the method was accurate.

The intra-day and inter-day precision studies were carried out. For the intra-day study % RSD values were found to be 0.222717 (standard) and 0.349282 (sample). For inter-day precision study, %RSD values were found to be 0.339702 (standard) and 0.349016 (sample) for day 1 and %RSD values were found to be 0.559662 (standard), and 0.478911 (sample) for day 2.

The low RSD values indicate that the method was precise. The Robustness were performed at different wavelength by using working solutions of Gefitinib. The % RSD values for wavelength variations were found to be 0.3435 at 250nm and 0.4691 at 254nm.

This analytical method enables quantification of the Gefitinib in a range from 2-12µg/ml, with acceptable values.

The results of the present study indicate that the method was easy to perform, specific and sensitive, and suitable to be used for the determination of Gefitinib in bulk and tablet dosage form.

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8. CONCLUSION

Simple, rapid, economical, precise, and accurate UV spectrophotometric method for the determination of Gefitinib in bulk and tsblet dosage form has been developed in 0.1M Hydrochloric acid. The λ max was found to be 252 nm against the corresponding reagent blank. The present analytical method was validated as per ICH Q2 (R1) guideline and it met with acceptance criteria.

The results indicate that the method was easy to perform, specific and sensitive, and suitable to be used for the determination of Gefitinib. Hence the proposed method was successfully used for the routine quality control analysis of the Gefitinib in bulk and tablet dosage form.

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"IN-VITRO ANTI-UROLITHIATIC ACTIVITY OF *STERCULIA URENS*"

A THESIS

Submitted to

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CONCLUSION:

At percent research an attempt has been made to find out the therapeutic activity like anti urolithiatic of the *sterculia urens* plant. From the literature review the leaves of *sterculia urens* (malvaceae) was selected for the study and the following parameters were studied.

- Selection, identification and collection,
- Extraction and preliminary phytochemical analysis and
- Invitro anti-inflammatory activity

The ethanolic extract of *sterculia urens* was identified for the presence of flavonoid, steroids terpenoids, alkaloids , reducing sugar, saponins, tannins.

The presence of above mentioned phytochemical constituents may be responsible for anti urolithiatic activity.

The incidence of renal stones is increasing alarmingly in developing countries. There are several herbal remedies for the treatment of urolithiasis. Based on the data available in the literature Sterculia urens was selected. Our findings suggest that sterculia urens can serve as an excellent source of antiurolithiatic agents, which is probably mediated through the inhibition of CaOx crystallization. Owing to the act as flavonoid compound, it has significant free radical scavenging activity, which would further strengthen its use to ameliorate urolithiasis-induced oxidative stress. Further, in vivo studies are required to strengthen the work and prove their therapeuticusefulness.

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FORMULATION AND CHARACTERIZATION OF SOLID SELF MICRO EMULSIFYING DRUG DELIVERY SYSTEM OF LOPERAMIDE HYDROCHLORIDE

A THESIS

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

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

BACHELOR OF PHARMACY

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9. CONCLUSION

Self micro emulsifying drug delivery systems are promising approach for the formulation of Loperamide hydrochloride. The oral delivery of hydrophobic drugs can be made possible by SMEDDS, which have been shown to substantially improve oral bio availability with future development of this technology. SMEDDS will continue to enable novel application in drug delivery of poorly soluble drugs.

Loperamide hydrochloride can be used to develop SMEDDS. SMEDDS were prepared and evaluated for the parameters like visual assessment, emulsification time, dispersibility test, percentage transmittance, optical clarity, cloud point measurement, and drug content. By performing the evaluation parameters stability of the formulations is assessed and it was concluded that formulations (F-3) was stable among all the formulations and further *In-Vitro* dissolution studies were carried out.

In-Vitro drug dissolution studies also revealed that release of Loperamide hydrochloride from SMEDDS (F-3) formulation exhibited highest drug release among all the stable formulation.

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OPTIMISED MICROWAVE ASSISTED EXTRACTION OF PHYTOCHEMICAL CONSTITUENTS EXTRACTION FROM TINOSPORA CORDIFOLIA AND ASSESSMENT OF IN VITRO ANTI INFLAMMATORYACTIVITY

A THESIS

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CONCLUSION

The WHO estimated that approximate 65% of the world population still depends mainly on herbal and traditional remedies. India is one of the richest countries in the world with huge diversity of medicinal plants, India has a large flora which require in traditional treatments of medical system. The medicinal properties of these plants could be based on the therapeutic and antioxidant effect of different phytochemicals present in them. The leaves and stem extracts of this plant have various phytochemicals such as Alkaloids, flavonoids saponins, which are responsible for these activities. These results revealed that alkaloids component were present in all solvent extracts of T. cordifolia. Total alkaloid content was high in chloroform and ethanolic extract of T. cordifolia. Furthermore, these results of plant sources were found to be highly significant. Hence, there is more requirements to explore the applicability of these plant resources which are rich in phytochemicals and may have beneficial effect on health.

Phytochemical screening and analysis can be beneficial for drug discovery and development. Results obtained clearly reflects a linear increase in total alkaloid content with increase of extraction time , solvent to sample ratio at a fixed ethanol concentration, irradiation power and reached maximum at the highest extraction time. This indicates a linear relationship between the variables chosen and responses. Hence, this plant can be use as a good source for beneficial drugs and its quantified values can be use as a tool for a drug to obtain a quality control profile. In this work a new optimal design of extracting of total alkaloids in tinospora cardifolia has been studied. The purpose is to improve the alkaloid extraction yield. This new extraction process provides a theoretical basis for the resources utilization of the new medicinal plant.

Our study revealed that important medicinal components present in the studied species and the developed microwave assisted extraction method during the present study is more efficient than the previous methods thus can be used as promising tool for extraction of *Tinospora cordifolia* because of high yield and fast extraction ability with less consumption of solvent as well as time.

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FORMULATION AND EVALUATION OF CONTROLLED RELEASE SODIUM CARBOXY METHYLATED LOCUST BEAN GUM MICROSPHERES CONTAINING REPAGLINIDE

A THESIS

Submitted to

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SUMMARY

The design and evaluated results of present investigation revealed that,

* Suitable analytical method based on UV-Visible spectrophotometer was developed for Repaglinide. λ_{max} of 237 nm was identified in both 0.1N HCl and phosphate buffer, pH 6.8.
* All the excipients used did not interfere with the estimation of Repaglinide at analytical wavelength 237nm.
* Sodium Carboxymethylation of LBG was carried out employing monochloroacetic acid as reported earlier for increasing their characteristics.
* The prepared microspheres were evaluated for Characterization techniques which show clear, smooth, uniform and better Mucoadhesion properties.
* The formulation F6 has shown optimum release in concentration independent manner.
* Higuchi's plot for the formulation revealed that the predominant mechanism of drug release is diffusion.
* Peppa's plot for the formulation revealed that the predominant mechanism of drug release is Non-fickian.

CONCLUSION

In conclusion, present investigation indicated that the Oral delivery of Microspheres containing Repaglinide was found to release drugs at regular intervals for 12 hours, based on *in-vitro* release studies and was found to be effective to a level sufficient to achieve therapeutic concentrations. Hence, Microspheres containing Repaglinide could be promising drug delivery as they overcome the side effects by using natural gum, simplify treatment regimen and improve patient compliance.

The present investigation is worthy of further research, especially in terms of performance in *Ex vivo*, pharmacokinetics, *In-vivo* studies on higher animals and controlled clinical studies on human beings.

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"FORMULATION AND EVALUATION OF TOLNAFTATE AS PHYTOSOMES TO TREAT FUNGAL DISEASES"

A THESIS

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9. CONCLUSION

Tolnaftate and saraca asoca phytosomes extract was successfully formulated usimg phosphatidylcholine and cholesterol. Phosphatidylcholine is a phospholipid are the key component of phytosomes process. These are evaluated for *invitro* drug release and entrapment efficiency. The phytosome was also evaluated by SEM and maximum drug release (F2). From these studies it is concluded that these phytosomes has better physical characteristics and are more bioavailable as compared to herbal extract owing to their enhanced capacity to cross the lipid rich in bio membranes there by overcome pharmacokinetic variance.

Future Prospectives

1. Antifungal activity by by Disc diffusion method.
2. Comparision study of marketed products with different herbal products(Antifungal).
3. *Invivo-Invitro* evaluation studies

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INSILICO AND *INVITRO* EVALUATION OF DIOSMETIN AS MULTI TARGET DIRECTED LIGAND FOR THE TREATMENT OF NEURODEGENRATIVE DISORDERS

A THESIS

Submitted to

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8. CONCLUSION

The present study showed that important bioactive phytocompound Diosmetin possess anti-Alzheimer's Disease potential against the Alzheimer's Disease targets of NMDA receptors, Mimapsin-2 enzyme, Cyclooxygenase enzyme-2 enzyme and Acetylcholinesterase. Thus, this type of computational analysis (in silico molecular docking study) and cell line studies helps to understand the presence of phytoconstituents that have binding affinities for the selected targets of Alzheimer's Disease. Exploring the natural compounds for the search of lead molecules by virtual screening methods by using molecular docking analysis reduces side effects, cost, and time in drug discovery.

IN VITRO ANTIOXIDANT ACTIVITY AND ANTI-INFLAMMATORY ACTIVITY OF *Phoenix dactylifera*

A THESIS

Submitted To

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7. CONCLUSION AND FURTIIER SCOPE OF RESEARCH

In the present study, results indicate that the *Phoenix dactylifera* extract possess anti-inflammatory properties. These activities may be due to the strong occurrence of polyphenolic compounds such as alkaloids, flavonoids, tannins. The anti-oxidant activity of *Phoenix dactylifera* results obtained from this study indicate that exhibits free radical scavenging, total anti-oxidant activity and hydroxyl radical scavenging activity and inhibited the protein denaturation, stabilized the Red Blood Cells membrane activity. *Phoenix dactylifera* was comparable with standard diclofenac.

This study gives an idea that the compound of the *Phoenix dactylifera* can be used as lead compound for designing a potent anti-inflammatory drug which can be used for treatment of various diseases such as cancer, anti-fungal, anti-bacterial and inflammation. Further scope in this research is to isolate and identify the phytoconstituents responsible for its in vitro anti-inflammatory

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DESIGN AND EVALUATION OF QUERCETIN TRANSDERMAL PATCHES BY USING PERMEATION ENHANCERS

A THESIS

Submitted to

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Viva- voce examinationheld on: 04/07/2022

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Conclusion and Future Scope:

The prepared transdermal drug delivery system of Quercetin dihydrate using polymers HPMC and different oils such as Eucalyptus oil and Geranium oil had shown good promising results for all the evaluated parameters. Based on the results of *In-vitro* drug release and drug content, formulation **F4** was concluded as an optimized formulation, which shows its higher percentage of drug release. The purpose of the work was an attempt to develop a transdermal drug delivery system of Quercetin dihydrate.

The compatibility studies confirmed the absence of chemical interaction between the drug and other excipients employed in the formulation. The prepared formulation was evaluated for physicochemical parameters like physical appearance, average weight, thickness, moisture uptake and drug content, release rates were found out by *In vitro* dissolution studies using Franz diffusion cell.

From the *In vitro* release results observed, it was noticed that patches prepared using Quercetin dihydrate prove exhibit better release characteristics. So it was shown high therapeutic efficiency and reduce toxic effects.

From the results obtained the fallowing conclusions are drawn

From the ATR studies it can be concluded that there is no significant interaction between the drug and the polymers and hence it can be concluded that the drug and the polymers are compatable with each other.

FURTHER SCOPE OF RESEARCH:

As an extension of this work.

1. The prepared formulations can be compared with the marketed formulations.

2. *In- vivo* drug release studies can be performed by using rabbits.

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DEVELOPMENT AND VALIDATION OF UV SPECTROSCOPIC METHOD FOR THE ESTIMATION OF RACECADOTRIL IN CAPSULE DOSAGE FORM

A THESIS

Submitted To

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

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

BACHELOR OF PHARMACY

By

LAKSHMI REDDAMMA BONTHA

(18M71R0029)

MALLIKARJUNA GUJJULA

(18M71R0034)

USHA KIRAN BANDARU

(18M71R0083)

YASHWANTH PAVAN GUTAM

(18M71R0093)

Under the guidance of

Mr. U.NARASIMHULU, M.Pharm.

Department of Pharmaceutical Analysis

DEPARTMENT OF PHARMACEUTICAL ANALYSIS

ANNAMACHARYA COLLEGE OF PHARMACY

New Boyanapalli, Rajampet, Y.S.R. Dist. - 516126, A.P, India.

Approved by PCI, AICTE, NBA, NAAC, New Delhi

JULY-2022

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DEPT. OF PHARMACEUTICAL ANALYSIS
ANNAMACHARYA COLLEGE OF PHARMACY
New Boyanapalli, Rajampet, Y.S.R. Dist. - 516126, A.P., India.

CERTIFICATE

This is to certify that the dissertation work entitled **"DEVELOPMENT AND VALIDATION OF UV SPECTROSCOPIC METHOD FOR THE ESTIMATION OF RACECADOTRIL IN CAPSULE DOSAGE FORM"** is a bonafide research work done by **LAKSHMI REDDAMMA BONTHA (Regd.No:18M71R0029), MALLIKARJUNA GUJJULA (Reg.No:18M71R0034), USHA KIRAN BANDARU, (Reg.No:18M71R0083), YASHWANTH PAVAN GUTAM (18M71R0093)** in partial fulfilment of the requirement for the award of degree of **Bachelor of Pharmacy**. The research work was carried out in Annamacharya College of Pharmacy and submitted to Jawaharlal Nehru Technological University Anantapur, under **Mr.U.NARASIMHULU**, M. Pharm supervision and guidance during the academic year 2021-2022.

The results embodied in this dissertation have not been submitted to any other University or Institute for the award of any degree.

U.NARASIMHULU, M. Pharm
Associate Professor
Dept. of Pharmaceutical Analysis
ANCP, Rajampet.

Viva voice held on: 04/07/2022

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8. CONCLUSION

Present work describes a simple, accurate, precise, economical and reproducible spectrophotometric method in ultraviolet region which has been developed and validated for the assay of racecadotril in bulk and in Pharmaceutical formulations in diluent. racecadotril exhibits absorption maxima at 232 nm in diluent. Beer's law was found to be obeyed in the concentration range of 10-45µg/ml. The optimum conc. of the racecadotril was found to be 30µg/ml. This conc. Ofracecadotril was shown good absorbance values at respective wavelengths was found to be 0.542. Linearity studies were carried out and the range was found to be 10-45 µg/ml for racecadotril in diluent. The regression coefficient value of racecadotril was found to be 0.99941 which was not less than 0.995. The method is accurate, precise and economical. In this proposed method, there was no interference from common pharmaceutical excipients. Results of the analysis were validated statistically as per the ICH guidelines. The proposed method was successfully used for the routine analysis of the racecadotril in bulk and in its capsule dosage form.

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"SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF NOVEL SALICYLIC ACID FUSED 1,3,4-OXADIAZOLE DERIVATIVES"

PROJECT WORK

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

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

BACHELOR OF PHARMACY

Submitted by

M.ANKITHA
Reg. No.: 18M71R0008

P.BHAVYASREE
Reg. No.: 18M71R0015

B.ANAGHAPRIYA
Reg. No.: 18M71R0007

T.KALPANA
Reg. No.: 18M71R0027

Under the guidance of

A. MADHULATHA. M.Pharm.

Assistant Professor

Department of Pharmaceutical Chemistry

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

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New Boyanapalli, Rajampet, Y.S.R. Dist. - 516126,A.P., India.

CERTIFICATE

This is to certify that the Project work entitled **"SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF NOVEL SALICYLIC ACID FUSED 1,3,4-OXADIAZOLE DERIVATIVES"** is a bonafide work done by **Ms. M. ANKITHA,** Reg. No.: 18M71R0008, **Ms. B. ANAGHAPRIYA** Reg. No.: 18M71R00007, **Ms. P. BHAVYASREE** Reg. No.: 18M71R0015, **Ms. T. KALPANA** Reg. No.: 18M71R00027 in partial fulfillment of the requirement for the award of degree of **Bachelor of Pharmacy** in **Pharmaceutical Chemistry**. The project work was carried out in **Annamacharya College of Pharmacy** and submitted to **Jawaharlal Nehru Technological University Anantapur** under my supervision and guidance during the academic year 2021-2022. The results embodied in this Project Work have not been submitted to any other University or Institution for the award of any degree or Diploma.

Research Supervisor:

Mrs.A.MADHULATHA.M.Pharm

Viva voce examination held on: 04/07/2022.

Examiner 1

04/07/2022

Examiner 2

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Conclusion & Further Scope of Research

Novel derivatives of Salicylic Acid were synthesized using conventional methods. All the synthesized compounds were identified by performing their melting point and TLC check and characterized by FT-ATR spectroscopy. Later all the derivatives were screened for their *in-vitro* anti-inflammatory activity using protein denaturation assay and *in-vitro* anti-oxidant activity by using hydrogen peroxide scavenging activity.

All the synthesized derivatives had shown potent *In vitro* anti-inflammatory activity when compared to the standard drug Aspirin. Due to the presence of electron withdrawing groups (Nitro Groups) and electron donating groups (Amine Group).

All the derivatives were evaluated for *In vitro* anti-oxidant activity by Hydrogen peroxide scavenging activity method. SAC2 possesses potent activity while compared to standard Aspirin at low concentrations due to the presence of electron Donating group and may moderate activity when referred to standard.

Further research need to be carried out to know the relationship between structure and biological activity by modifying the structure of lead molecule and by screening for other pharmacological activities.

The promising *in-vitro* anti-inflammatory and anti-oxidant results also give scope to study other molecular descriptors like electronic and stearic parameters. It gives a scope for further comparing the selected derivatives.

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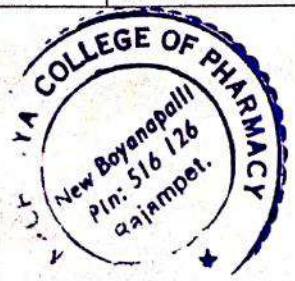
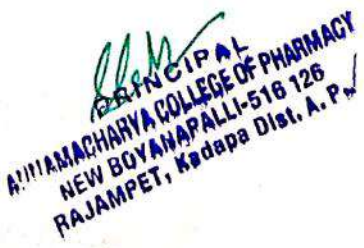
M.PHARMACY PROJECT WORK SYLLABUS

FOR PHARMACOLOGY DEPARTMENT

Cardiovascular System

S.no	Title
1	Protective role of sesamol against doxorubicin induced cardiomyopathy in experimental rats
2.	Role of enalapril in combination with losartan In INVITRO model of myocardial ischemic reperfusion injury.
3.	Combination therapy of rosuvastatin and clopidogrel in iron induced cerebral ischemia.
4.	Protective role of ferulic acid on IN-VIVO Myocardial ischemic reperfusion injury in experimental Rats.
5.	Study of role of ramipril in combination with candesartan in INVITRO Model of myocardial Ischemic reperfusion Injury.
6.	Protective Role Of Sesamol On INVITRO Model Of Myocardial Ischemic Reperfusion Injury
7.	Cardioprotective Effect Of Algenic Acide On Doxorubicin Induced Myocardial Injury In Expermental Rats
8.	Cardioprotective Activity Of Metformin In Associated With Coenzyme Q10 Against Doxorubicin Induced Cardiotoxicity
9.	Cardioprotective Activity Of Oryzanol In Insulin Resistance Rats
10	Adverse Effect Of Statins In Ralation To Vitamin D Deficiency
11.	Evaluation Of Cardioprotective Activity Of Protocatechuic Acid Against Doxorubicin Induced Cardiomyopathy In Albino Wister Rats.
12.	Renal Ischemic Reperfusion Injury In Rats





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Anti-Inflammatory & Anti-Ulcer activities

S.no	Title
1.	Evaluation of protective Effects of ethanolic leaf extract of LAURUS NOBILIS Acetic Acid Induced Ulcerative Colitis.
2.	In-Vitro pharmacological evaluation of cytotoxicity, anti-arthritic,anti-ulcer and hepatoprotective activity of Allmania nodiflora(L) R. Br. Ex
3.	In Vitro Pharmacological evaluation of anti cancer, anti fungal and anti - ulcer activity of aqueous root extract of syzygium samarangense. Wight (Whole Plant).
4.	Evaluation Of Anti-Inflammatory Activity Of Ethanolic Extract Of Barleria Longiflara.(Lin).
5.	In Vitro Pharmacological Evaluation Of Ethanolic Extract Of Cryptolepis Buchanani Roem & Schult Leaves On Colorectal Cancer, Hepatocellular Carcinoma, Spasmodic And Ulcer Activities.
6.	In Silico And In Vitro Pharmacological Evaluation Of Anti-Arthritic, Anti-Spasmodic And Cardioprotective Activity Of Ehtanolic Leaf Extract Of Annona Reticulata.
7.	Protective Effect of ferulic Acid on cyclophosphamide induced organ toxicity in Experimental Rats.
8.	Invitro Pharmacological Study Of Root Of Saussurea Lappa.

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Nephroprotective Activity

S.no	Title
1.	Evaluation Of Protective Role Of Eleusine Coracana Linn Against Lithium Induced Nephrocardiatoxicity.
2.	Evaluation Of Nephro Protective Activity Of Para Methoxy Cinnamic Acid Against Gentamicin Induced Nephrotoxicity In Rats.
3.	Protective Effect Of Chicoric Acid Fraction Of Echinacea Purppurea Root Power Against Cisplatin Induced Nephrotoxicity In Male Albino Rats.
4.	Evaluation Of Nephroprotective Activity Of Colocasia Esculenta Linn.Against Gentamicin Induced Nephrotoxicity In Rats.
5.	Nephroprotective Potential Of Methonolic Extracts Of Alpinia Galanga And Pterocarpus Marsupium Alone And In Combination Against
6.	Antiurolithiatic Activity Of Acacia Sinuata Pods On Ethylene Glycol Induced Renal Calculi In Rats.
7.	Protective Effect of Polycarpaea corymbosa On Gentamicin induced nephrotoxicity in rats
8.	Role Of Enalapril In Combination With Prednisolone In A Freund's Complete Adjuvant

Anticonvulsant Activity

S.no	Title
1.	Evaluation Of Anticonvulsant Activity Of Hydroethanolic Extract Of Coccinia Grandis In Mice.
2.	Evaluation Of Antiepileptic Activity Of Monoterpenoid From Roots Of Syzygium Samarangenese In Mice.

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Hepatoprotective

S.no	Title
1.	In Vitro pharmacological evaluation of anti-inflammatory, hepatoprotective, anti-spasmodic and anti-diabetic activity of ehanolic extract of annona squamosa.
2.	Hepatoprotective activity and antioxidant potential of Cordia sebestena In Animal Mode.
3.	Hepatoprotective Activity Of Ethanolic Extract Of Casearia Esculenta Against Isoniazid Induced Hepatotoxicity
4.	Protective Role Of Lvstan Powder Against Anti Tubercular Drugs Induced Liver Injury.
5.	Phytochemical And Pharmacological Screening Of Lawsonia Inermis Linn.SEEDS For Hepatoprotective Actvity.

Diabetic Activity

S.no	Title
1.	Anti-Diabetic and Anti-Oxidant activities of Cordia myxa In Alloxan Induced Rats.
2.	Role Of Acide On Dexamethasone Induced Insulin Resistance In Expermental Rats
3.	Hypoglycemic And Hypolipidemic Activity Of Combined Extract Of Citrullus Lanatus And Sesamum Indicum Seeds In Alloxon Induced Diabetic Rats
4.	Evaluation Of Anti-Diabetic Potential Of Albizia Odoratissima In Streptozotocin Induced Diabetes Mellitus In Rats.
5.	Evaluation Of Antidiabetic Potential Of Hydro Alcholic Extract Of Mentha Arvensis Leaves Extracts Against Streptozotocin Induced Diabetic Racts.

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Anti-Stress and antioxidant

S.no	Title
1.	Anti-Stress and antioxidant property of an unexplored medicinal plant.
2.	Antistress Activity Of P- Methoxycinnamic Acid In Expermental Animal Model
3.	Studies On Anti-Oxidant Anti-Bacterial And Anti-Fungal Activities Of Newly Synthesized Hydrazone-Hydrazides
4.	Invitro-Antioxidant And Anti Inflammatoryyactivity Of Ethanolic Extract Of Caesalpinea Coriaria
5.	Studies On Anti-Oxidant Anti-Bacterial And Anti-Fungal Activities Of Newly Synthesized Hydrazone-Hydrazides
6.	Hypolipidemic And Anti-Oxidant Potential Of Ethanolic Extract Of Cordia Myxa L.In Experimental Rats
7.	Evaluation Of Anti-Oxidant And Anti-Inflammatory Activity Of Hydroalcoholic Extract Of Barleria Buxifolia In Experimental.
8.	Effect Of Sesame Oil Lignin's Sodium Fluoride Induced Oxidative Stress In Rat Heart.
9.	Phytochemical And Pharmacological Screening Of Whole Plant Rostellularia Diffusa Willd As An Antistress Agent.
10.	Evaluation Of Protective Role Of Convulvulus Pluricaulis Choisy On Haloperidol Induced Oxidative Stress In Rats.
11.	Immunomodulatory And Anti-Oxidant Activity Of The Herbomineral Formulation In Albino Wistar Rats.

Neuroprotective Activity

S.no	Title
1.	Neuroprotective Effect Of Soybean Seed Oil On Aluminium Chloride Induced Alzheimer's Disease In Male Wistar Rats.
2.	Neuroprotective Role Of Acacia Nilotica. L Against Mptp Induced Parkinson's Disease On Mice.
3.	Pre-Clinical Evaluation Of Asparagus Racemosus Linn Against Sciatic Nerve Ligation Induced Neuropathic Pain.
4.	Neuroprotective Effect Of Rostellaria Diffusa In Iron Induced Cerebral Ischemia

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FOR PHARMACEUTICAL QUALITY ASSURANCE DEPARTMENT

S.no	Title
1.	Method development and validation of pharmaceutical dosage forms by Spectroscopic techniques.
2.	Method development and validation of pharmaceutical dosage forms by HPLC.
3.	Development and validation of pharmaceutical dosage forms by GCMS.
4.	Development and validation of pharmaceutical dosage forms by LCMS.
5.	Impurity profiling of drugs by LCMSMS.
6.	Analytical validation of phytoconstituents by using HPTLC.

FOR PHARMACEUTICAL CHEMISTRY DEPARTMENT

S.no	Title
1.	Synthesis, characterization and biological evaluation of fused heterocyles for various activities
2.	Design, characterization and biological evaluation of fused heterocyles for various activities
3.	Insilico and invitro evaluation of various synthesized aryl fused heterocycles
4.	Insilico screening of biological activities, toxicities, physicochemical properties and Absorption, distribution, metabolism and excretion of structural analogs.
5	Rational drug design, synthesis, characterization and biological evaluation of metal complexes of synthesized compounds

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FOR PHARMACEUTICS DEPARTMENT

Formulation and evaluation of sustained release tablets

Formulation and evaluation of various controlled release dosage forms such as transdermal drug delivery system, gastroretentive drug delivery system, floating drug delivery system, targeted drug delivery system.

Formulation and evaluation of various dosage forms by using controlled release polymers of natural and synthetic source.

Formulation and evaluation of various dosage forms such as microbeads, microspheres, nanoparticles, niosomes, microcapsules, micropillets.

Formulation and evaluation of conventional drug delivery systems by using super disintegrants.

Formulation and evaluation of novel solid dispersions.

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II M. PHARMACY PROJECT ALLOTMENT 2021-2022

PHARMACEUTICS

S.NO	REGD. NO.	NAME OF THE STUDENT	SUPERVISOR NAME	SIGNATURE
1	20M71S0301	DUGUNAPALLI KAVYA REDDY	Dr. P. DWARAKANADHA REDDY	

PHARMACOLOGY

S.NO	REGD. NO.	NAME OF THE STUDENT	SUPERVISOR NAME	SIGNATURE
1	20M71S0101	BATTULA INDU	Mr. S. SUDHAKAR	
2	20M71S0102	ERAGAMREDDY HEMALATHA	Mr. V. CHINNI KRISHNAIAH	
3	20M71S0103	SIRIGIRI VENKAT KARTHIK	Mr. V. CHINNI KRISHNAIAH	
4	20M71S0104	T MANEESHA	Dr. D. SWARNALATHA	

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Ref.No.: ANCP/AET/ACIR/168/2021-22.

Date: 11/03/2022.

From

Dr. D. Swarnalatha,
M Pharm., Ph.D., FIC., FAGE., FICCP., MISTE.
Principal.

To

REQUEST LETTER FOR PROJECT WORK

Respected Sir/Madam,

Sub: Permission to carry out Project work and allocation of suitable topic for dissertation project in your reputed Pharma Industry for II/II M.Pharmacy students in partial fulfillment of the requirement of the award of degree of Master of Pharmacy from Jawaharlal Nehru Technological University Anantapur, Anantapur – Reg.

Ref: As per JNTUA, Anantapur guidelines.

*****

This is in reference to Mr/Ms. DUGUNAPALLI KAVYA REDDY, Regd.No:20M71S0301, studying II/II Year M.Pharmacy with specialization Pharmaceutics in our institution. As a part of her/his curriculum as per JNTUA, he/she is required to carry out project work in second year in Pharma industry/Research institute, so as to create professional awareness and to bridge the gap between academic and industrial environment.

Annamacharya College of Pharmacy is a reputed educational institution with NBA Accreditation offering D.Pharm, B.Pharm, Pharm.D, Pharm.D (PB), M.Pharm with 4 Specializations and Ph.D. whose curriculum structure is designed with the help of experts from various departments in pharmacy in a view of industrial needs. M.Pharmacy students with specialization Pharmaceutics studying various subjects like Modern Pharmaceutical Analytical Techniques, Regulatory Affairs, Drug Delivery Systems, Modern Pharmaceutics, Computer Aided Drug Design, Novel Targeted Drug Delivery Systems, Cosmetics & Cosmeceuticals, Advanced Bio Pharmaceutics & Pharmacokinetics, Research Methodology and Bio Statistics subjects in 1st and 2nd M.Pharmacy course. I year II Semester examinations completed on 23.11.2020, and project work program should start from 31.03.2021 for a minimum period of four months as per university guidelines.

Project topic could be in the are of Formulation R&D/ Drug Regulatory affairs taking into consideration of the course structure and your industrial requirement.

I would be extremely grateful if you kindly place Mr/Ms. DUGUNAPALLI KAVYA REDDY for suitable project work for a period of six months in your esteemed organization/ Industry/Research institute. Kindly issue the permission letter to fulfill the requirements of affiliation authorities and do the needful. I am sure that my student will do his/her best to meet your requirements.

I look forward for cooperation from your side in this regard and hoping that you will do the needful.

With kind regards.

Yours faithfully

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Kadapa District, A.P., India

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See the instructions on back side.

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The following M. Pharmacy (Pharmacology) students are doing research projects in our institution as per JNTU schedule.

NAME OF THE STUDENT	REG.NO	TITLE
INDU B	20M71S0101	PROTECTIVE EFFECT OF ETHANOLIC EXTRACT OF STERCULIA URENS ROXB LEAVES AGAINST FRUCTOSE INDUCED INSULIN RESISTANCE AND OXIDATIVE STRESS IN MALE WISTER RATS
HEMALATHA E	20M71S0102	EVALUATION OF NEUROPROTECTIVE ACTIVITY OF CHRYSIN USING SCOPOLAMINE INDUCED NEUROINFLAMMATION RAT MODEL OF ALZIMERS DISEASE
KARTHIK S V	20M71S0103	EVALUATION OF NEUROPROTECTIVE ACTIVITY OF CHRYSIN NANOPARTICLES USING SCOPOLAMINE INDUCED NEUROINFLAMMATION RAT MODEL OF ALZIMERS DISEASE
MANEESHA T	20M71S0104	EVALUATION OF NEUROPROTECTIVE ACTIVITY OF DIOSMETIN USING ALUMINIUM CHLORIDE INDUCED OXIDATIVE STRESS IN RAT MODEL OF ALZHEIMERS DISEASE

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Notified as per Curriculum

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
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ACADEMIC CALENDAR

for

Academic Year 2021-22

M.Tech/M.Pharm

Fourth Semester

(For 2020-21 admitted batches)

IV Semester	
Commencement of Project Work Phase - II	06.06.2022 (Monday)
Submission of Abstract	27.06.2022
Preliminary Seminar on Abstract	04.07.2022 to 06.07.2022
1st Review Seminar	01.08.2022 to 03.08.2022
2nd Review Seminar	29.09.2022 to 01.10.2022
Pre-submission seminar	07.11.2022 onwards
Submission of Dissertation & Viva-Voce	After Successful Completion of the Pre-Submission Seminar

Notified on 01-06-2022
Revised on 12-07-2022

Digitally signed by KESHAVA REDDY EDDULA
Date:Tue Jul 12 16:41:18 IST 2022
DIRECTOR OF EVALUATION

ANNAMACHARYA COLLEGE OF PHARMACY:: RAJAMPET

M. PHARMACY PROJECT ALLOTMENT 2020 - 2021

S. NO.	FACULTY NAME	ROLL NUMBER	NAME OF THE STUDENT	TITLE
		DEPARTMENT OF PHARMACEUTICS		
1.	Dr. P. DWARAKANADHA REDDY	19M71S0301	BANDI GIRIRAJ	FORMULATION AND CHARACTERISATION OF MUCOADHESIVE BUCCAL PATCHES OF NALTREXONE.
2.	Dr. C. SURYAPRAKASH REDDY	19M71S0303	KANDLA AKHILA	FORMULATIO N AND EVALUATION FO PROLONGED RELEASE MATRIZX TABLETS OF OXYBUTYNIN HYDROCHLORIDE 10mg.
3.	Dr. N. RAGAVENDRA NAVEEN	19M71S0302	BUKKE MANAS NAIK	FORMULATION AND EVALUATION OF MOUTH DISSOLVING TABLETS OF DAPSONE.
		DEPARTMENT OF PHARMACEUTICAL CHEMISTRY		
4.	Dr. D. SWARNALATHA	19M71S0201	CHAGALETI BHARATH KUMAR	IN – SILICO SCREENING, SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVALUATION OF SOME NOVEL PYRAZOLO-PYRIMIDINE FUSED DERIVATIVES
5.	Mr. Y. PRADEEP KUMAR	19M71S0203	SADDIKUTI GOWTHAMI	INSILICO DRUG DESIGN, SYNTHESIS, CHARACTERIZATION AND ANTI CANCER ACTIVITY DERIVATIVES.

FORMULATION AND EVALUATION OF PROLONGED RELEASE MATRIX TABLETS OF OXYBUTYNIN HYDROCHLORIDE 10 mg

Dissertation submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTHAPUR

Ananthapuramu

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

MASTER OF PHARMACY

IN

PHARMACEUTICS

Submitted by

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*This is to certify that the dissertation entitled "**FORMULATION AND EVALUATION OF PROLONGED RELEASE MATRIX TABLETS OF OXYBUTYNIN HYDROCHLORIDE 10 mg**" is a bona fide research work done by **K. AKHILA, Reg. NO: 19M71S0303** and submitted in partial fulfillment of the requirements for the award of degree of **MASTER OF PHARMACY** in* **PHARMACEUTICS.**

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Internal examiner

Dr. B. Pavan kumar

External examiner

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FORMULATION AND CHARACTERISATION OF MUCOADHESIVE BUCCAL PATCHES OF NALTREXONE

A THESIS

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

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

MASTER OF PHARMACY

in

PHARMACEUTICS

Submitted by

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Under the guidance of

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This is to certify that the dissertation work entitled "*FORMULATION AND CHARACTERIZATIN OF MUCOADHESIVE BUCCAL PATCHES OF NALTREXONE*" is a bonafide research work done by **Mr. B. GIRIRAJ** B.Pharm ., **Reg No:19M71S0301**in partial fulfillment of the requirement for the award of degree of **Master of Pharmacy in Pharmaceutics.**The research work was carried out in **Annamacharya College of Pharmacy** and submitted to **Jawaharlal Nehru Technological University Anantapur**, under my supervision and guidance during the academic year 2020-2021.

The results embodied in this dissertation have not been submitted to any other University or Institute for the award of any degree or diploma.

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FORMULATION AND EVALUATION OF MOUTH DISSOLVING TABLETS OF DAPSONE

DISSERTATION

Submitted to

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

MASTER OF PHARMACY

in

PHARMACEUTICS

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INSILICO DRUG DESIGN, SYNTHESIS, CHARACTERIZATION AND ANTI CANCER ACTIVITY OF NOVEL AZETEDINONE FUSED LAMIVUDINE DERIVATIVES

A THESIS

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

ANANTHAPURAM, ANDHRA PRADESH

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

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

Submitted by

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This is to certify that the dissertation work entitled ***"IN SILICO* DRUG DESIGN, SYNTHESIS, CHARACTERIZATION AND ANTI CANCER ACTIVITY OF NOVEL AZETEDINONE FUSED LAMIVUDINE DERIVATIVES"** is a bonafide research work done by **Ms. S. GOWTHAMI B.Pharm., Regd. No: 19M71S0203** in partial fulfillment of the requirement for the award of degree of **Master of Pharmacy in Pharmaceutical Chemistry.** The research work was carried out in **Annamacharya College of Pharmacy** and submitted to **Jawaharlal Nehru Technological University Anantapuramu,** under my supervision and guidance of **Mr. Y. PRADEEP KUMAR M.Pharm, (Ph.D),** during the academic year **2019-2021**. The results embodied in this dissertation have not been submitted to any other University or Institute for the award of any degree or diploma.

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"IN-SILICO SCREENING, SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVALUATION OF SOME NOVEL PYRAZOLO-PYRIMIDINE FUSED DERIVATIVES"

DISSERTATION

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