

**PREVALENCE OF ACUTE KIDNEY INJURY AMONG
ACUTE GASTROENTERITIS PATIENTS IN A TERTIARY
CARE HOSPITAL**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**SUTHAR MEENAKSHI
(194Q1T0025)**

**TIRUMERLLA KARUNA
(194Q1T0027)**

**Under the Guidance of
Ms. C. L. SINDHURA
M.Pharm, M.B.A.
Assistant Professor
Department of Pharmacy Practice**



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE – 524 003, A P.

FEBRUARY-2024

PRINCIPAL

**NARAYANA PHARMACY COLLEGE
NELLORE - 524 002**



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that SUTHAR MEENAKSHI (194Q1T0025), TIRUMERLLA KARUNA (194Q1T0027) carried out the project work entitled "PREVALENCE OF ACUTE KIDNEY INJURY AMONG ACUTE GASTROENTERITIS PATIENTS IN A TERTIARY CARE HOSPITAL" Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

C. L. SINDHURA
M.Pharm., M.B.A.

Department of Pharmacy Practice,
Project Guide.

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P. India.

CERTIFICATE

This is to certify that SUTHAR MEENAKSHI (194Q1T0025), TIRUMERLLA KARUNA (194Q1T0027) carried out the project work entitled "PREVALENCE OF ACUTE KIDNEY INJURY AMONG ACUTE GASTROENTERITIS PATIENTS IN A TERTIARY CARE HOSPITAL" Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

C. L. SINDHURA
M.Pharm., M.B.A.

Department of Pharmacy Practice,
Project Guide.

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that SUTHAR MEENAKSHI (194Q1T0025), TIRUMERLLA KARUNA (194Q1T0027) carried out the project work entitled "PREVALENCE OF ACUTE KIDNEY INJURY AMONG ACUTE GASTROENTERITIS PATIENTS IN A TERTIARY CARE HOSPITAL" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

Mr. Dima Sail
28/2/24
External examiner

[Signature]
28/2/24
Internal examiner

[Signature]
Dr. K. HARINADHA BABA

M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002

[Signature]
PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled "PREVALENCE OF ACUTE KIDNEY INJURY AMONG ACUTE GASTROENTERITIS PATIENTS IN A TERTIARY CARE HOSPITAL" submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course , at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is an authentic record of our own work carried out under the guidance of C. L. SINDHURA during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 28-02-24

Place: Nellore

Names & Hall ticket Numbers


Signature

SUTHAR MEENAKSHI (194Q1T0025)

S. Meenakshi

TIRUMERLLA KARUNA (194Q1T0027)

T. Karuna


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 003



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0025 and 194Q1T0027 approved to carry out the study titled "PREVALENCE OF ACUTE KIDNEY INJURY AMONG ACUTE GASTROENTERITIS PATIENTS IN A TERTIARY CARE HOSPITAL".

It is concerned by the all the members of the IRB and by the guide to the project.

IRB COMMITTEE

Dr. K. Harinadha Baba M.Pharm., Ph.D., F.L.C., M.B.A (Hosp. Adm)

Dr. S. Sujatha M.Pharm., Ph.D

Sk. Salma Sultana M.Pharm (Ph.D)

PROJECT GUIDE

C. L. SINDHURA M.Pharm., M.B.A


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

CONCLUSION

6. Conclusion

The study on the prevalence of acute kidney injury (AKI) among patients with acute gastroenteritis (AGE) in a tertiary care hospital revealed compelling insights into the epidemiology and clinical characteristics of this complication. Among the 200 patients studied, a significant 56.5% were found to have developed AKI, highlighting the importance of recognizing AGE as a potential risk factor for AKI. This finding suggests a critical need for heightened vigilance and tailored management strategies, particularly for individuals aged 51-60, who were identified as particularly susceptible to AKI associated with AGE.

Gender disparities were also noted, with male patients demonstrating a higher incidence of AKI compared to females. While the reasons for this difference require further investigation, the findings underscore the importance of considering gender-specific factors in risk assessment and management protocols for AKI in the context of AGE. The study also highlighted diarrhea as the predominant symptom among AGE patients, emphasizing its role as a hallmark feature of the condition and the need for prompt intervention to mitigate dehydration and electrolyte disturbances that could contribute to AKI development.

The analysis of comorbidities revealed hypertension and type 2 diabetes mellitus as prevalent conditions among the study population, with implications for AKI risk. Effective management of these comorbidities is crucial in preventing AKI complications and optimizing patient outcomes. The duration of hospital stay and the necessity for hemodialysis among AKI patients underscored the clinical severity and resource burden associated with this complication. Early recognition and intervention are imperative to prevent disease progression and reduce healthcare utilization.

**A COMPARATIVE STUDY ON PREVALENCE
OF STEMI AND NSTEMI IN MYOCARDIAL
INFARCTION IN A TERTIARY CARE HOSPITAL**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**SHAIK MYMUN
(194Q1T0023)**

**TIPPIREDDY SRINIJA
(194Q1T0026)**

**KANDANURU
VEERA RAVITEJA
(194Q1T0008)**

**UMMALETI SUMAN
(194Q1T0028)**

Under the Guidance of
Ms. SHAIK SALMA SULTANA
M.Pharm, (Ph.D.,)
Assistant Professor
Department of Pharmacology



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE – 524 003, A P. PRINCIPAL

FEBRUARY-2024

**NARAYANA PHARMACY COLLEGE
NELLORE - 524 002**



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that **SHAIK MYMUN (194Q1T0023), TIPPIREDDY SRINIJA(194Q1T0026), KANDANURU VEERA RAVITEJA, (194Q1T0008), UMMALETI SUMAN (194Q1T0028)** carried out the project work entitled A comparative study on prevalence of STEMI and NSTEMI in myocardial infarction in a tertiary care hospital is being submitted to Jawaharlal Nehru Technological University Anantapur(JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D)course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. HARINADHA BABA


M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL

 NARAYANA PHARMACY COLLEGE

NELLORE - 524 002

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that **SHAIK MYMUN (194Q1T0023)**, **TIPPIREDDY SRINIJA(194Q1T0026)**, **KANDANURU VEERA RAVITEJA, (194Q1T0008)**, **UMMALETI SUMAN (194Q1T0028)** carried out the project work entitled a comparative study on prevalence of STEMI and NSTEMI in myocardial infarction in a tertiary care hospital Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

SHAIK SALMA SULTANA
M.Pharm., Ph.D.,

Department of pharmacology,
Project Guide.

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that **SHAIK MYMUN (194Q1T0023), TIPPIREDDY SRINIJA(194Q1T0026), KANDANURU VEERA RAVITEJA, (194Q1T0008), UMMALETI SUMAN (194Q1T0028)** carried out the project work entitled a comparative study on prevalence of STEMI and NSTEMI in myocardial infarction in a tertiary care hospital is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course , at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

External examiner

Internal examiner:

Dr. K. HARINADHA BABA

M.Pharm.,PhD.,F.I.C.,M.B.A(Hosp.Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com


Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

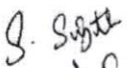
IRB APPROVAL LETTER


The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0023, 194Q1T0026, 194Q1T0008, 194Q1T0028, approved to carry out the project work which is entitled a comparative study on prevalence of STEMI and NSTEMI in myocardial infarction in a tertiary care hospital AT NARAYANA MEDICAL COLLEGE AND HOSPITAL.

It is concerned by the all the members of the IRB and by the guide to the project.

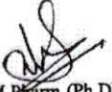
IRB COMMITTEE:


Dr. K. Harinadha Baba M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm) 

Dr. S. Sujatha M.Pharm,Ph.D 

Sk. Salma Sultana M.Pharm (Ph.D) 

PROJECT GUIDE

Sk. Salma Sultana M.Pharm (Ph.D) 


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

The data from 200 patients reveals a notable predominance of ST-elevation myocardial infarction (STEMI) cases, constituting 70% of the studied population, compared to 30% diagnosed with Non ST-elevation myocardial infarction (NSTEMI). This highlights the significance of ST-elevation as a prevalent form of myocardial infarction in this study.

Also, the prevalence is more in the patients having risk factors such as hypertension, smoking, alcohol consumption, diabetes mellitus, smoking along with alcohol and obesity. This underscores the need for comprehensive cardiovascular risk management strategies. These risk factors play a crucial role in the development of myocardial infarctions and should be addressed through targeted interventions and lifestyle modifications.

Examining troponin values which are above normal ranges, it is noteworthy that 24 males exhibit elevated troponin levels, with 17 diagnosed as having ST-elevation myocardial infarction (STEMI) and 7 with non-ST-elevation myocardial infarction (NSTEMI). Similarly, in the female subgroup of 15 individuals with elevated troponin levels, 11 are identified with STEMI, and 4 with NSTEMI. This gender-specific breakdown suggests potential variations in the manifestation of myocardial infarctions.

This tells us that troponin levels alone are insufficient for diagnosing myocardial infarction (MI); while elevated troponin levels are indicative of myocardial damage, the diagnosis of MI also requires clinical assessment, including symptoms, electrocardiogram (ECG) findings, and other biomarkers, to confirm the presence of acute myocardial injury and ischemia.

In conclusion, the data emphasizes the clinical importance of recognizing and managing ST and Non-ST elevation myocardial infarction by adopting healthier habits like quitting smoking, making better dietary choices, limiting alcohol intake, and scheduling regular checkups play key roles in safeguarding heart health. Addressing major risk factors is crucial for both prevention and effective management. Further clinical assessment is warranted to tailor interventions based on the specific characteristics of each patient, ensuring optimal care and outcomes. These proactive steps not only help in identifying potential issues early but also contribute significantly to maintaining a strong and resilient heart over time.


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

A PROSPECTIVE STUDY ON DEPRESSION DUE TO THYROID DYSFUNCTION

A Dissertation submitted to



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR

In partial fulfillment of award of the degree of

DOCTOR OF PHARMACY
(2019-2025 BATCH)

By

ATTAR MONISHA
(194Q1T0003)

CHALLA GANESH BABU
(194Q1T0006)

Under the Guidance of
Dr. P. SASIKALA
PHARM D
Assistant Professor
Dept Of Pharmacy Practice



NARAYANA PHARMACY COLLEGE


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

CHINTHAREDDYPALEM, NELLORE - 524 003, A P.

FEBRUARY-2024



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that ATTAR MONISHA (194Q1T0003), CHALLA GANESH BABU (194Q1T0006), carried out the project work entitled A PROSPECTIVE OBSERVATIONAL STUDY ON DEPRESSION DUE TO THYROID DYFUNCTION is being submitted to Jawaharlal Nehru Technological University Anantapur(JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D)course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. Harinadha Baba

M.Pharm., Ph.D., F.I.C., M.B.A(Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that ATTAR MONISHA (194Q1T0003), CHALLA GANESH BABU (194Q1T0006), carried out the project work entitled is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in partial fulfillment of the requirements for V year Doctor of Pharmacy (Pharm. D) course , at entitled A PROSPECTIVE STUDY ON DEPRESSION DUE TO THYROID DYFUNCTION ,Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision.The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

P. Sasikala

Dr. P. SASIKALA
PHARM D
Assistant Professor
Dept Of Pharmacy Practice
PROJECT GUIDE

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

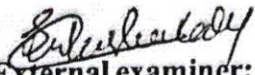
Email: npc_nellore@yahoo.com

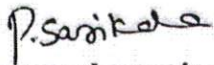
Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

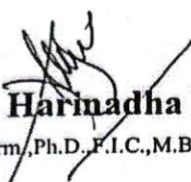
EVALUATION CERTIFICATE

This is to certify that ATTAR MONISHA (194Q1T0003), CHALLA GANESH BABU (194Q1T0006), carried out the project work entitled A PROSPECTIVE STUDY ON DEPRESSION DUE TO THYROID DYFUNCTION is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course , at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


External examiner:


Internal examiner:


Dr.K. Harinadha Baba

M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled A PROSPECTIVE STUDY ON DEPRESSION DUE TO THYROID DYFUNCTION submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course , at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is an authentic record of our own work carried out under the guidance of Dr. P. SASIKALA during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 02/03/2024

Place: NPC , NELLORE

Names & Hall ticket Numbers

ATTAR MONISHA (194Q1T0003)

CHALLA GANESH BABU (194Q1T0006)

Signature

Dr. Monisha

PRINCIPAL

NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0003, 194Q1T0006, approved to carry out the project entitled A PROSPECTIVE STUDY ON DEPRESSION DUE TO THYROID DYFUNCTION in a tertiary care hospital AT NARAYANA MEDICAL COLLEGE AND HOSPITAL.

It is concerned by the all the members of the IRB an by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)

Dr. S. Sujatha M.Pharm,Ph.D

Sk. Salma Sultana M.Pharm (Ph.D)

PROJECT GUIDE:

Dr. P. Sasikala Pharm D

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

7. Conclusion:

Our study concludes that the Depression due to thyroid dysfunction was one of the emerging condition in both genders mainly in the age group of 40-50 years. Now a days due to age factor, environment, diet, stress most of the people suffering from depression due to thyroid dysfunction.

These demographic distributions provide valuable insights into the potential correlation between age, gender, and the manifestation of depression in individuals with thyroid dysfunction. The higher prevalence of females in the study cohort, especially in the 40-50 age group, suggests a potential vulnerability to depressive symptoms in this demographic subset. Meanwhile, the distinct age distribution among males emphasizes the importance of considering age-related factors in understanding the relationship between thyroid dysfunction and depression.

The findings from this study contribute to the growing body of knowledge surrounding the intricate interplay between thyroid dysfunction and depressive symptoms. Further research and longitudinal studies may be warranted to explore the underlying mechanisms and causative factors contributing to the observed patterns. A comprehensive understanding of these associations can guide clinicians in tailoring effective clinical approaches for managing depression in individuals with thyroid dysfunction, thereby improving overall patient care and outcomes.


PRINCIPAL
N. ARAYANA PHARMACY COLLEGE
NELLORE - 524 002

COST-EFFECTIVENESS OF DIFFERENT TREATMENT MODALITIES FOR LUMBAR SPONDYLOLISTHESIS

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**BULLARD SHARON
(194Q1T0005)**

**PAKAM KRISHNAKEERTHI
(194Q1T0019)**

**Under the Guidance of
Dr. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)**

Principal



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE – 524 003, A P.

FEBRUARY -2024


**PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002**



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

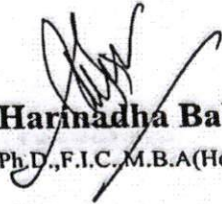
Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that BULLARD. SHARON (194Q1T0005), PAKAM. KRISHNAKEERTHI (194Q1T0019) carried out the project work entitled "COST-EFFECTIVENESS OF DIFFERENT TREATMENT MODALITIES FOR LUMBAR SPONDYLOLISTHESIS" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D), at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. Harinadha Baba

M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that BULLARD. SHARON (194Q1T0005), PAKAM. KRISHNAKEERTHI (194Q1T0019) carried out the project work entitled is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at entitled "COST-EFFECTIVENESS OF DIFFERENT TREATMENT MODALITIES FOR LUMBAR SPONDYLOLISTHESIS" Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

PROJECT GUIDE


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that BULLARD. SHARON (194Q1T0005), PAKAM. KRISHNAKEERTHI (194Q1T0019) carried out the project work entitled "COST-EFFECTIVENESS OF DIFFERENT TREATMENT MODALITIES FOR LUMBAR SPONDYLOLISTHESIS" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

Internal examiner:

External examiner:

Dr. K. Harinadha Baba

M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled "COST-EFFECTIVENESS OF DIFFERENT TREATMENT MODALITIES FOR LUMBAR SPONDYLOLISTHESIS" submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is an authentic record of our own work carried out under the guidance of Dr. K. HARINADHA BABA during the academic year 2023-2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 11/3/24

Place: Narayana Pharmacy College, Nellore.

Name & Hall ticket Number

BULLARD. SHARON (194Q1T0005)

PAKAM. KRISHNA KEERTHI (194Q1T0019)

B. Sharon
Signature

P. Krishna Keerthi


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm. D V year students with register numbers 194Q1T0005 and 194Q1T0019 approved to carry out the project entitled "COST-EFFECTIVENESS OF DIFFERENT TREATMENT MODALITIES FOR LUMBAR SPONDYLOLISTHESIS".

It is concerned by the all the members of the IRB an by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)

Dr. S. Sujatha M.Pharm,Ph.D *S. Sujatha*

Ms. P. Sasikala Pharm D *PS*

Ms. Sk. Ruksana kowsar Pharm D

Ms. C.L. Sindhura M.pharm,M.B.A *CL*

Ms. V. Sujitha M.pharm *V. Sujitha*

Ms. P. Maha Lakshmi M.pharm *PL*

Sk. Salma Sultana M.Pharm (Ph.D) *SS*

PROJECT GUIDE

Dr. K. HARINADHA BABA M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)

[Signature]
PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

CONCLUSION:

Our study concludes that the cost-effective analysis of different treatment modalities for lumbar spondylolisthesis involving 200 patients reveals several key findings as follows, Surgical management appears to be more prevalent in older patients, while conservative management is common among the younger population. Gender distribution shows a slightly higher percentage of females undergoing surgical procedures. Low back pain is the primary reason for admission, with numbness and tingling following closely. Advanced imaging techniques, such as X-Rays and CT-Scans, are commonly employed, highlighting the significance of accurate diagnostics. Discectomy and Laminectomy emerge as the most prevalent spinal surgeries, with favorable outcomes reported in 73.50% of patients. Medication use primarily involves antacids and neuropathic pain drugs, with specific drugs like Pantoprazole, Gabapin, and Pregabalin being commonly prescribed. The majority of patients experience minimal disability (0-20%), comprising 76% of cases. The presence of patients with moderate to severe disabilities (21-100%) emphasizing the need for targeted interventions and support systems for individuals with higher ODI scores. Laminectomy and discectomy surgeries incur a cost of 25,000, while spinal fusion has a higher cost of 50,000. Despite conservative management being less cost-effective, surgical interventions constitute a significant portion (83.42%) of the total expenditure. The positive treatment outcomes (73.50% recovery rate) underscore the effectiveness of the chosen interventions. However, a notable portion (26.50%) of patients did not recover, attributed to the nature of spinal conditions, comorbidities, and treatment compliance. Include positive need of study, to create awareness and knowledge regarding the cost, cost-effectiveness about different treatment options of lumbar spondylolisthesis is required.



PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

**A PROSPECTIVE OBSERVATIONAL STUDY ON
EVALUATING THE TYPES OF LOWER URINARY TRACT
SYMPTOMS IN BPH PATIENTS**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**BHOJANAPU YASASWINI
(194Q1T0004)**

**MENDRAGUTHI NEELIMA
(194Q1T0015)**

**NHELIYATHODI ANEESA
(194Q1T0017)**

**NUTHALAPATI ROHITHA
(194Q1T0018)**

Under the Guidance of

Ms. P. SREE MAHALAKSHMI


M.Pharm, Pharmacology

Assistant Professor

Department of Pharmacology



NARAYANA PHARMACY COLLEGE
CHINTHAREDDYPALEM, NELLORE - 524 003, A.P.


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

FEBRUARY-2024



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that BHOJANAPU YASASWINI (194Q1T0004), MENDRAGUTHI NEELIMA (194Q1T0015), NHELIYATHODI ANEESA (194Q1T0017), NUTHALAPATI ROHITHA (194Q1T0018) carried out the project work entitled "A PROSPECTIVE OBSERVATIONAL STUDY ON EVALUATING THE TYPES OF LOWER URINARY TRACT SYMPTOMS IN BPH PATIENTS" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. HARINADHA BABA

M.Pharm., Ph.D./F.I.C./M.B.A(Hosp.Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE

NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that BHOJANAPU YASASWINI (194QIT0004), MENDRAGUTHI NEELIMA (194QIT0015), NHELIYATHODI ANEESA (194QIT0017), NUTHALAPATI ROHITHA (194QIT0018) carried out the project work entitled "A PROSPECTIVE OBSERVATIONAL STUDY ON EVALUATING THE TYPES OF LOWER URINARY TRACT SYMPTOMS IN BPH PATIENTS" Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

P. Sree Mahalakshmi

P. SREE MAHALAKSHMI

M.Pharm., Pharmacology.

DEPARTMENT OF PHARMACOLOGY

PROJECT GUIDE

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

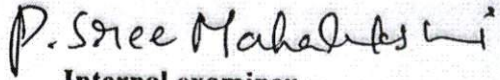
Chinthareddypalem, Nellore - 524003, A.P, India.


EVALUATION CERTIFICATE

This is to certify that BHOJANAPU YASASWINI (194Q1T0004), MENDRAGUTHI NEELIMA (194Q1T0015), NHELIYATHODI ANEESA (194Q1T0017), NUTHALAPATI ROHITHA (194Q1T0018) carried out the project work entitled "A PROSPECTIVE OBSERVATIONAL STUDY ON EVALUATING THE TYPES OF LOWER URINARY TRACT SYMPTOMS IN BPH PATIENTS" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


External examiner


Internal examiner


Dr. K. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)
Principal

Narayana Pharmacy College
Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore – 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled "A PROSPECTIVE OBSERVATIONAL STUDY ON EVALUATING THE TYPES OF LOWER URINARY TRACT SYMPTOMS IN BPH PATIENTS" submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is an authentic record of our own work carried out under the guidance of P. Sree Mahalakshmi during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 28/2/24

Place: Nellore

Names & Hall ticket Numbers

BHOJANAPU YASASWINI (194Q1T0004)
MENDRAGUTHI NEELIMA (194Q1T0015)
NHELIYATHODI ANEESA (194Q1T0017)
NUTHALAPATI ROHITHA (194Q1T0018)

Signature

B. Yasaswini

M. Neelima

N. Aneesa

N. Rohitha

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com


Chinthareddypalem, Nellore – 524003, A.P, India.

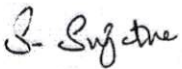
IRB APPROVAL LETTER


The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0004, 194Q1T0015, 194Q1T0017 and 194Q1T0018 approved to carry out the study titled "A PROSPECTIVE OBSERVATIONAL STUDY ON EVALUATING THE TYPES OF LOWER URINARY TRACT SYMPTOMS IN BPH PATIENTS".

It is concerned by the all the members of the IRB and by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm., Ph.D., F.I.C., M.B.A.(Hosp. Adm.) 

Dr. S. Sujatha M.Pharm., Ph.D. 

Sk. Salma Sultana M.Pharm (Ph.D.) 

PROJECT GUIDE

P. SREE MAHALAKSHMI M.Pharm., Pharmacology 


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

5. Conclusion

In conclusion, our prospective observational study involving 200 participants diagnosed with LUTS/BPH provides valuable insights on the evaluation of the types of lower urinary tract symptoms in BPH patients. The predominant age group of 61-70 years exhibited the highest prevalence of both LUTS and glycaemic variations. Obstructive LUTS of frequency 58.5% were consistently more prevalent than irritable LUTS across all age groups, aligning with existing literature. The severity of LUTS, evaluated through the IPSS, indicated a substantial proportion of participants experiencing moderate to severe symptoms. Also, the LUTS/BPH has affected the QoL of the participant. As the age increases, the quality of life of a patient with LUTS/BPH has significantly decreased. Through multiple regression analysis, we established a significant association between Quality of Life (QoL) and LUTS scores, with an R² value of 0.41413048 indicating a non-linear distribution. The ANOVA table's 'p' value (< 0.05) reaffirms the reliability of our model, allowing us to reject the null hypothesis and assert a significant association between QoL and LUTS scores. Furthermore, our findings suggest a strong relation between elevated blood glucose levels and the severity of LUTS, emphasising the importance of glycaemic control in managing BPH. Additionally, sociodemographic factors such as smoking and alcoholism were prevalent in a significant proportion of participants, underscoring the need for comprehensive lifestyle interventions in the management of LUTS/BPH. The study highlights weak stream and intermittency as the most prevalent symptoms among the population, emphasising the significance of addressing these issues in the management of benign prostatic hyperplasia. Overall, our study contributes to a comprehensive understanding of the multifaceted factors influencing the presentation and management of LUTS/BPH in a diverse participant population.


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002 55

**STUDY AND INTERPRETATION OF ELECTRICAL ACTIVITY
OF HEART IN DIFFERENT CARDIOVASCULAR CONDITIONS
WITH REFERENCE TO BIOCHEMICAL PARAMETERS**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**K. LAKSHMI KAVYA
(194Q1T0013)**

**MATTAM BHARADWAJ
(194Q1T0014)**

**Under the Guidance of
Dr. K. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)
Principal**



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE - 524 003, A P.

FEBRUARY - 2024

Handwritten signature
**PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 003**



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

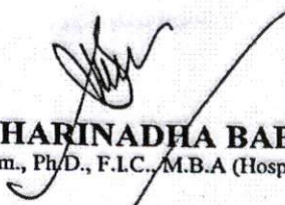
Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that K. LAKSHMI KAVYA (194Q1T0013), MATTAM BHARADWAJ (194Q1T0014) carried out the project work entitled "STUDY AND INTERPRETATION OF ELECTRICAL ACTIVITY OF HEART IN DIFFERENT CARDIOVASCULAR CONDITIONS WITH REFERENCE TO BIOCHEMICAL PARAMETERS" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D), at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B.A (Hosp.Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

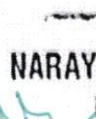
CERTIFICATE

This is to certify that K. LAKSHMI KAVYA (194Q1T0013), MATTAM BHARADWAJ (194Q1T0014) carried out the project work entitled is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm.D) course, at entitled "STUDY AND INTERPRETATION OF ELECTRICAL ACTIVITY OF HEART IN DIFFERENT CARDIOVASCULAR CONDITIONS WITH REFERENCE TO BIOCHEMICAL PARAMETERS" Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision..

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B. A (Hosp. Adm)

PROJECT GUIDE


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

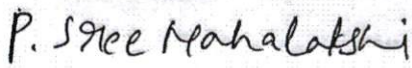
Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that K. LAKSHMI KAVYA (194Q1T0013), MATTAM BHARADWAJ (194Q1T0014) carried out the project work entitled "STUDY AND INTERPRETATION OF ELECTRICAL ACTIVITY OF HEART IN DIFFERENT CARDIOVASCULAR CONDITIONS WITH REFERENCE TO BIOCHEMICAL PARAMETERS" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm.D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.



External examiner:


Internal examiner:


Dr. K. HARINABHA BABA
M.Pharm., Ph.D., F.I.C. M.B.A (Hosp.Adm)

Principal,
Narayana Pharmacy College,
Nellore - 524003
PRINCIPAL

NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled "STUDY AND INTERPRETATION OF ELECTRICAL ACTIVITY OF HEART IN DIFFERENT CARDIOVASCULAR CONDITIONS WITH REFERENCE TO BIOCHEMICAL PARAMETERS" submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital, Nellore, is an authentic record of our own work carried out under the guidance of Dr. K. HARINADHA BABA during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 28/02/2024

Place: Nellore

Names & Hall ticket Numbers

Signature

K. LAKSHMI KAVYA (194Q1T0013)

K. Lakshmi Kavya
H. B. B.

MATTAM BHARADWAJ (194Q1T0014)

H. B. B.

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com


Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

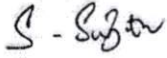
IRB APPROVAL LETTER


The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0013, 194Q1T0014 approved to carry out the project entitled "STUDY AND INTERPRETATION OF ELECTRICAL ACTIVITY OF HEART IN DIFFERENT CARDIOVASCULAR CONDITIONS WITH REFERENCE TO BIOCHEMICAL PARAMETERS".

It is concerned by the all the members of the IRB an by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm) 

Dr. S. Sujatha M.Pharm,Ph.D 

Sk. Salma Sultana M.Pharm (Phd) 

PROJECT GUIDE:

Dr. K. HARINADHA BABA M.Pharm., Ph.D., F.I.C., M.B.A (Hosp.Adm)


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

7. CONCLUSION

Our study concluded that cardiovascular disease patients have abnormal levels of Biochemical Parameters leading to ECG wave changes. Among 200 patients 25 patients didn't have any significant changes in ECG. ECG changes observed with reference to the abnormal levels Biochemical Parameters.

The ECG changes observed in Hyperkalaemia were PR interval prolongation and QRS interval prolongation.

In anaemia condition ST segment depression and flat T wave has been observed. Elevated levels of Troponin showed ST depression, T wave inversion in ECG.

Abnormal level of LDL causes ST elevation and QRS widening. Hypercalcemia lead to QT shortening and Hypermagnesemia cause PR interval prolongation, increased QRS duration.

Hypocalcemia has shown lengthened QT interval, decreased QRS duration and

Hypokalemia led to ST depression, T wave inversion.



PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

**A PROSPECTIVE OBSERVATIONAL STUDY OF
SEPSIS IN PATIENTS WITH PYELONEPHRITIS
AT TERTIARY CARE HOSPITAL**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**KOMMI LAHARI
(194Q1T0011)**

**KONDURU SRAVANI KUMARI
(194Q1T0012)**

Under the Guidance of
Ms. V. SUJITHA
M. Pharm.,
Assistant Professor
Department of pharmacology



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE - 524 003, A P.

February- 2024

**PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002**



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

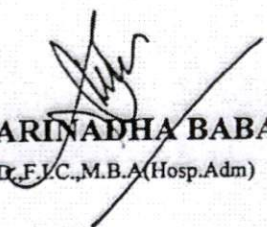
Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that KOMMI LAHARI (194Q1T0011), KONDURU SRAVANI KUMARI (194Q1T0012) carried out the project work entitled A PROSPECTIVE OBSERVATIONAL STUDY OF SEPSIS IN PATIENTS WITH PYELONEPHRITIS AT TERTIARY CARE HOSPITAL is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. HARINADHA BABA

M.Pharm., Ph.D., F.I.C., M.B.A. (Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that KOMMI LAHARI (194Q1T0011), KONDURU SRAVANI KUMARI (194Q1T0012) carried out the project work entitled A PROSPECTIVE OBSERVATIONAL STUDY OF SEPSIS IN PATIENTS WITH PYELONEPHRITIS AT TERTIARY CARE HOSPITAL is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

V. Sujitha

V. SUJITHA

M. Pharm.,

DEPARTMENT OF PHARMACOLOGY
PROJECT GUIDE

M

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that KOMMI LAHARI (194Q1T0011), KONDURU SRAVANI KUMARI (194Q1T0012) carried out the project work entitled A PROSPECTIVE OBSERVATIONAL STUDY OF SEPSIS IN PATIENTS WITH PYELONEPHRITIS AT TERTIARY CARE HOSPITAL is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

B. Needa

External examiner:

V. Sujitra

Internal examiner:

[Signature]
Dr. K. HARINADHA BABA

M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL

NARAYANA PHARMACY COLLEGE NARAYANA PHARMACY COLLEGE

NELLORE - 524 002

[Signature]
PRINCIPAL

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION


We hereby declare that this project work which is entitled **A PROSPECTIVE OBSERVATIONAL STUDY OF SEPSIS IN PATIENTS WITH PYELONEPHRITIS AT TERTIARY CARE HOSPITAL** submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is an authentic record of our own work carried out under the guidance of **V. SUJITHA** during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

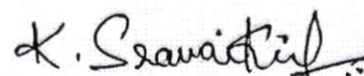
Date: 29/02/2024

Place: Nellore

Names & Hall ticket Numbers

Signature

KOMMI LAHARI (194Q1T0011) * 

KONDURU SRAVANI KUMARI (194Q1T0012) * 


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0011, 194Q1T0012 approved to carry out the project entitled "A PROSPECTIVE OBSERVATIONAL STUDY OF SEPSIS IN PATIENTS WITH PYELONEPHRITIS AT TERTIARY CARE HOSPITAL" at Narayana medical college and hospital.

It is concerned by the all the members of the IRB and by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm.,Ph.D.,F.LC.,M.B.A(Hosp.Adm)

Dr. S. Sujatha M.Pharm,Ph.D

S. Sujatha

Sk. Salma Sultana M.Pharm (Ph.D)

Sk. Salma Sultana

PROJECT GUIDE

V. SUJITHA M.Pharm

V. Sujitha

MS
PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

8.0 CONCLUSION:**CONCLUSION**

Our study concludes that predominantly female participants, aged 50-60 years, suffer from emphysematous pyelonephritis, which progress to the second stage of sepsis within a short duration. This progression is mostly observed in participants with untreated pyelonephritis. Therefore, increased fluid intake and proper treatment may flush out bacteria from the urethra. These measures are effective in preventing pyelonephritis, which may lead to severe sepsis and results in morbidity. Diabetes was a prevalent comorbidity, affecting the majority of participants, and was notably associated with each type of pyelonephritis. Sepsis was a common complication, with varying stages observed across different type of pyelonephritis.



**PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002**

**INCIDENCE OF TYPE-2 RESPIRATORY FAILURE
IN HYPOTHYROIDISM PATIENTS IN A TERTIARY
CARE HOSPITAL**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**SAYAD MASEERA FATHIMA
(194Q1T0021)**

**SHAIK ARSHAD
(194Q1T0022)**

Under the Guidance of
Mrs. SK. RUKSANA KOWSAR
Pharm.D
Assistant Professor
Department of Pharmacy Practice



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE - 524 003, A P.

FEBRUARY-2024

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)


Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that SAYAD MASEERA FATHIMA (194Q1T0021), SHAIK ARSHAD (194Q1T0022) carried out the project work entitled "INCIDENCE OF TYPE-2 RESPIRATORY FAILURE IN HYPOTHYROIDISM PATIENTS IN A TERTIARY CARE HOSPITAL" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.J.A.(Hosp. Adm.)

Principal,
Narayana Pharmacy College,
Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: 91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayana-pharmacy.com
Chithareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that SAYAD MASEERA FATHIMA (194QIT0021), SHAIK ARSHAD (194QIT0022) carried out the project work entitled "INCIDENCE OF TYPE-2 RESPIRATORY FAILURE IN HYPOTHYROIDISM PATIENTS IN A TERTIARY CARE HOSPITAL." Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

SK. RUKSANA KOWSAR
Pharm.D.,

Assistant Professor,
Department of pharmacy practice,
Project Guide.

For:-
P. Saritha


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

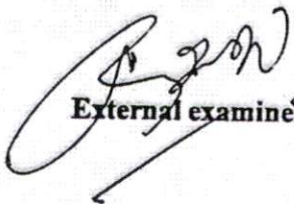
Email: npc_nellore@yahoo.com

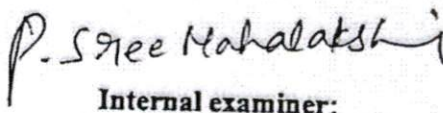
Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that SAYAD MASEERA FATHIMA (194Q1T0021), SHAIK ARSHAD (194Q1T0022) carried out the project work entitled "INCIDENCE OF TYPE-2 RESPIRATORY FAILURE IN HYPOTHYROIDISM PATIENTS IN A TERTIARY CARE HOSPITAL" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


External examiner:


Internal examiner:


Dr. K. HARINADHA BABA

M.Pharm., Ph.D., F.L.C., M.B.A (Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled "INCIDENCE OF TYPE-2 RESPIRATORY FAILURE IN HYPOTHYROIDISM PATIENTS IN A TERTIARY CARE HOSPITAL" submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is an authentic record of our own work carried out under the guidance of SK. RUKSANA KOWSAR during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 28/02/2024

Place: Nellore

Names & Hall ticket Numbers

SAYAD MASEERA FATHIMA (194Q1T0021)

SHAIK ARSHAD (194Q1T0022)

Signature

Sd. Maseera

Shaik Arshad

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm.D V year student with register numbers 194Q1T0021, 194Q1T0022 approved to carry out the study titled "INCIDENCE OF TYPE-2 RESPIRATORY FAILURE IN HYPOTHYROIDISM PATIENTS IN A TERTIARY CARE HOSPITAL".

It is concerned by the all the members of the IRB and by the guide to the project.

IRB COMMITTEE:


Dr. K. Harinadha Baba M.Pharm., Ph.D., F.I.C., M.B.A(Hosp. Adm)

Dr. S. Sujatha M.Pharm, Ph.D

Sk. Salma Sultana M.Pharm (Ph.D)

PROJECT GUIDE

SK. Ruksana Kowsar Pharm D


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

6.CONCLUSION

The study findings underscore a significant prevalence of Type 2 Respiratory Failure (T2RF) within the sampled population, with 82 out of 200 participants experiencing T2RF, representing a notable 41% incidence rate. The manifestation of symptoms such as shortness of breath and cough with sputum emphasizes the clinical complexity of T2RF and its impact on patient well-being.


Environmental factors, including radiation exposure and medication history, emerge as potential contributors to T2RF development. Among the studied patients, 33 individuals have been exposed to radiation, while 24 participants have encountered medication-related exposure, suggesting the importance of considering various environmental and medical factors in understanding respiratory health conditions.

The analysis of comorbidities reveals an overlapping relationship between T2RF and other health conditions, such as diabetes mellitus, hypertension, chronic obstructive pulmonary disease (COPD), coronary artery disease (CAD), and chronic kidney disease (CKD). The coexistence of these conditions highlights the complexity of T2RF and underscores the need for comprehensive patient assessment and management strategies.

Gender disparities in T2RF incidence are evident, with a higher prevalence among females compared to males within the sampled population. This finding emphasizes the importance of tailoring interventions to address gender-specific risk factors and physiological differences contributing to respiratory dysfunction.

Age-wise distribution further elucidates the increasing incidence of T2RF with advancing age, emphasizing the necessity for tailored interventions and care for older populations prone to respiratory complications. The age group analysis reveals a progressive increase in T2RF incidence from 30-40 years to 71-80 years, highlighting the vulnerability of older individuals to respiratory complications.

Understanding the interplay of symptoms, demographics, environmental exposures, and comorbidities is crucial for developing comprehensive management strategies targeting T2RF in diverse patient populations. Tailored interventions addressing age-specific risks, gender disparities, and environmental factors are essential for optimizing patient outcomes and improving respiratory health in hypothyroidism


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

**A PREVALENCE STUDY ON HYPOPROLACTENEMIA
INDUCED BY POLYCYSTIC OVARIAN SYNDROME AND
THYROID GLAND DYSFUNCTION**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**G SUSAN REBEKAH
(194Q1T0007)**

**KANISSETTY NITYA PAVANA YASASWINI
(194Q1T0009)**

**Under the Guidance of
Dr. P. SASIKALA**

**Pharm.D., Department of Pharmacy Practice
Assistant Professor**



MS

**PRINCIPAL
NARAYANA PHARMACY COLLEGE**

NARAYANA PHARMACY COLLEGE NELLORE - 524 002

CHINTHAREDDYPALEM, NELLORE - 524 003, A P.

FEBRUARY - 2024



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603


Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that G SUSAN REBEKAH (194QIT0007), KANISSETTY NITYA PAVANA YASASWINI (194QIT0009) carried out the project work entitled "A PREVALANCE STUDY ON HYPOPROLACTENEMIA INDUCED BY POLYCYSTIC OVARIAN SYNDROME AND THYROID GLAND DYSFUNCTION" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D), at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B.A (Hosp Adm)

Principal
Narayana Pharmacy College,
Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that G SUSAN REBEKAH (194Q1T0007), KANISSETTY NITYA PAVANA YASASWINI (194Q1T0009) carried out the project work entitled is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm.D) course, at entitled "A PREVALENCE STUDY ON HYPOPROLACTENEMIA INDUCED BY POLYCYSTIC OVARIAN SYNDROME AND THYROID GLAND DYSFUNCTION" Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision..

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

P. Sasikala
Dr. P. SASIKALA

Pharm.D., Assitant Professor., Department of Pharmacy Practice

PROJECT GUIDE

M
PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that G SUSAN REBEKAH (194Q1T0007), KANISSETTY NITYA PAVANA YASASWINI (194Q1T0009) carried out the project work entitled "A PREVALENCE STUDY ON HYPOPROLACTENEMIA INDUCED BY POLYCYSTIC OVARIAN SYNDROME AND THYROID GLAND DYSFUNCTION" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm.D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

External examiner:

Internal examiner:

Dr. K. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B.A (Hosp.Adm)

Principal,
Narayana Pharmacy College,
Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled "A PREVALENCE STUDY ON HYPOPROLACTENEMIA INDUCED BY POLYCYSTIC OVARIAN SYNDROME AND THYROID GLAND DYSFUNCTION" submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital, Nellore, is an authentic record of our own work carried out under the guidance of Dr. P. SASIKALA during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 2/3/24

Place: Nellore

Names & Hall ticket Numbers

G SUSAN REBEKAH (194Q1T0007)

KANISSETTY NITYA PAVANA YASASWINI (194Q1T0009)

Signature

G. Susan

K.N.P.V

M

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0007, 194Q1T0009 approved to carry out the project entitled "A PREVALENCE STUDY ON HYPOPROLACTENEMIA INDUCED BY POLYCYSTIC OVARIAN SYNDROME AND THYROID GLAND DYSFUNCTION".

It is concerned by the all the members of the IRB and by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm., Ph.D., F.I.C., M.B.A(Hosp.Adm)

Dr. S. Sujatha M.Pharm., Ph.D

Sk. Salma Sultana M.Pharm (Phd)

PROJECT GUIDE:

Dr. P. SASIKALA Pharm.D., Assitant Professor., Department of Pharmacy Practice

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


7. CONCLUSION

Based on our study, women who have PCOS and Thyroid gland dysfunction are moderately likely to develop Hypoprolactinemia. Unknown symptoms other than breastfeeding failure are the reason behind the neglect of Hypoprolactinemia.

The study found that there is an associated increased risk of insulin resistance due to Lactation failure during postpartum due to low Prolactin and it is crucial for immune system modulation, metabolism and pancreatic development.

Postpartum women have mental instability and metabolic problems as a result of its start.

The prevalence rate of Hypoprolactinemia induced by PCOS and Thyroid gland dysfunction is about 53.2 %.


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

**A STUDY ON THE PREVALENCE AND
PREVENTIVE PRACTICES OF CHOLELITHIASIS
IN TERTIARY CARE HOSPITAL**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

DOCTOR OF PHARMACY

(2019-2025 BATCH)

By

**VANTHERAPALLI PADMANJALI
(194Q1T0030)**

**VATTIKALA RUCHITHA
(194Q1T0031)**

Under the Guidance of
DR.K. HARINADHA BABA
M.Pharm.,PH.D.,F.I.C.,M.B.A
(Hosp Adm)
principal




**PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002**

NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE - 524 003, A P.

FEBRUARY-2024



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

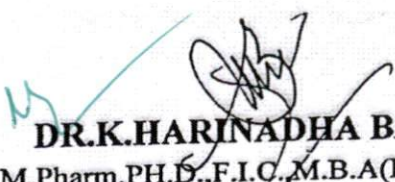
Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that VANTHERAPALLI PADMANJALI (194Q1T0030), VATTIKALA RUCHITHA (194Q1T0031) carried out the project work entitled A STUDY ON THE PREVALENCE AND PREVENTIVE PRACTICES OF CHOLELITHIASIS IN TERTIARY CARE HOSPITAL, is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D)course, at entitled A , Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


DR.K.HARINADHA BABA

M.Pharm.PH.D.,F.I.C.,M.B.A(Hosp Adm)

PRINCIPAL

principal

NARAYANA PHARMACY COLLEGE
PROJECT GUIDE

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

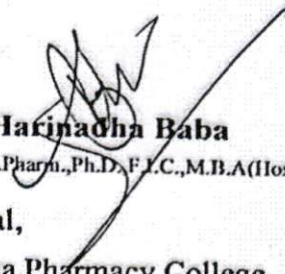
Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that VANTHERAPALLI PADMANJALI (194Q1T0030) VATTIKALA RUCHITHA (194Q1T0031) carried out the project work entitled A STUDY ON THE PREVALENCE AND PREVENTIVE PRACTICES OF CHOLELITHIASIS IN TERTIARY CARE HOSPITAL, is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. Harinadha Baba

M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that VANTHERAPALLI PADMANJALI (194Q1T0030) ,
VATTIKALA RUCHITHA (194Q1T0031) carried out the project work entitled A
STUDY ON THE PREVALENCE AND PREVENTIVE PRACTICES OF
CHOLELITHIASIS IN TERTIARY CARE HOSPITAL, is being submitted to
Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial
fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course , at
Narayana Pharmacy College, in collaboration with Narayana Medical College And
Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or
institution for the award of any degree or diploma.

External examiner:

Internal examiner:

Dr. K. Harinadha Baba

M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled A STUDY ON THE PREVALENCE AND PREVENTIVE PRACTICES OF CHOLELITHIASIS IN TERTIARY CARE HOSPITAL, submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course , at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is an authentic record of our own work carried out under the guidance of **DR. K.HARINADHA BABA** during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 2/03/24

Place: Nellore

Names & Hall ticket Numbers

VANTHERAPALLI PADMANJALI

(194Q1T0030)

VATTIKALA RUCHITHA

(194Q1T0031)

V. Ruchitha
Signature

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm. D V year students with register numbers 194QIT0030, 194QIT0031 approved to carry out A STUDY ON THE PREVALENCE AND PREVENTIVE PRACTICES OF CHOLELITHIASIS IN TERTIARY CARE HOSPITAL

It is concerned by the all the members of the IRB and by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

Dr. S. Sujatha M.Pharm, Ph.D

S. Sujatha
26/2/24

Sk. Salma Sultana M.Pharm (Ph.D)

PROJECT GUIDE

DR.K. HARINADHA BABA
M pharm, PH.D., F.I.C., M.B.A (Hosp Adm)
principal

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

CONCLUSION

We conclude, our study on cholelithiasis revealed a higher prevalence among females, particularly in the age group of 51-60 years. Nutrition played a significant role, with 60% of patients being good, 15% excellent, and 25% poor at nutrition. Upper right abdomen pain was the most common complaint (75%). Diagnostic procedures like CBC, LFT, and imaging were widely employed, with surgery proving more beneficial than non-surgical treatment. In our study, complications of cholelithiasis varied, with the highest incidence being choledocholithiasis affecting 40% of patients. Grade 1 fatty liver, jaundice, and hypothyroidism are among the complications associated with cholelithiasis. Additionally, 15 patients experienced the least common complication, gallbladder carcinoma, representing 2.5% of cases. As a clinical pharmacist we should educate the patients about the gall stones and create awareness at the early stages of the disease to overcome its complications. We should educate the patients to choose medical management rather than going for surgery. Necessary measures have to be taken to educate the patients by providing leaflets and charts, so that the patients may overcome the incidents and prevalence in future.



PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

**CLINICAL ASSESSMENT OF IODINATED
GADOLINIUM CONTRAST MEDIA: A
COMPREHENSIVE EXAMINATION OF CREATININE
TRENDS AND POST-PROCEDURAL COMPLICATIONS
IN RADIOLOGY**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**KOLAMALA
SUGUMA SRI
(194Q1T0010)**

**VALLURU
BHAVYA SRI
(194Q1T0029)**

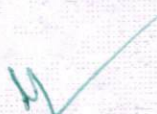
Under the Guidance of
Dr.K.HARINADHA BABA
M pharm.,Ph.D.,F.I.C.,M.B.A
(H.Adm) Principal



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE - 524 003, A P.

FEBRUARY-2024


**PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002**



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that KOLAMALA SUGUMA SRI (194Q1T0010),VALLURU BHAVYA SRI (194Q1T0029), carried out the project work entitled A Clinical assessment of iodinated gadolinium contrast media: a comprehensive examination of creatinine trends and post-procedural complications in Radiology is being submitted to Jawaharlal Nehru Technological University Anantapur(JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D)course, at Narayana PharmacyCollege, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out.The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. Harinadha Baba

M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

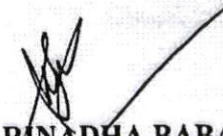
Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com


Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that KOLAMALA SUGUMA SRI (194Q1T0010), VALLURU BHAVYA SRI (194Q1T0029), carried out the project work entitled is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm.D) course, at entitled A Clinical assessment of iodinated gadolinium contrast media: a comprehensive examination of creatinine trends and post-procedural complications in Radiology, Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


DR. HARINADHA BABA
M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)
PROJECT GUIDE

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com


Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.


EVALUATION CERTIFICATE

This is to certify that KOLAMALA SUGUMA SRI (194Q1T0010), VALLURU BHAVYA SRI (194Q1T0029), carried out the project work entitled entitled A Clinical assessment of iodinated gadolinium contrast media: a comprehensive examination of creatinine trends and post-procedural complications in Radiology, is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


External examiner:


Internal examiner:


Dr. K. Harinadha Baba

M.Pharm., Ph.D., F.I.C., M.B.A (Hosp. Adm)

Principal,
Narayana Pharmacy College,
Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled entitled A Clinical assessment of iodinated gadolinium contrast media: a comprehensive examination of creatinine trends and post-procedural complications in Radiology, submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is an authentic record of our own work carried out under the guidance of

DR. K. HARINADHA BABA during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 2/3/24

Place: NPC, Nellore

Names & Hall ticket Numbers

KOLAMALA SUGUMA SRI (194Q1T0010)

VALLURU BHAVYA SRI (194Q1T0029)

V. Bhavya Sri

Signature

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0010, 194Q1T0029, approved to carry out the project entitled A Clinical assessment of iodinated gadolinium contrast media: a comprehensive examination of creatinine trends and post-procedural complications in Radiology, at Narayana Medical College And Hospital.

It is concerned by the all the members of the IRB an by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)

Dr. S. Sujatha M.Pharm,Ph.D

Sk. Salma Sultana M.Pharm (Ph.D)

PROJECT GUIDE

DR.HARINADHA BABA M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

The study underscores the critical importance of:

- **Monitoring Creatinine Levels:** Especially in vulnerable populations, monitoring creatinine levels post-procedure is vital to identify potential complications promptly.
- **Tailored Patient Care:** Patients with renal impairment, on nephrotoxic drugs, or elderly individuals need specialized attention due to prolonged contrast media elimination.

Recommendations:

- **Enhanced Clinical Support:** Emphasize the role of clinical pharmacists and specialized monitoring programs to manage and mitigate adverse reactions effectively.
- **Patient-Specific Precautions:** Tailor contrast media administration and post-procedural care based on individual patient profiles to minimize risks and complications.

This comprehensive examination provides invaluable insights into the dynamics of iodinated gadolinium contrast media in radiological procedures, outlining the need for precise monitoring, personalized care, and improved strategies for safer administration in diverse patient populations.


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

**A COMPARATIVE STUDY ON SEIZURES IN
ALCOHOLIC AND ON-ALCOHOLIC PATIENTS
IN A TERTIARY CARE HOSPITAL**

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**NATAKAM LAKSHMI PRIYANKA
(194Q1T0016)**

**ARAVA LIKHITHA BHAVANI
(194Q1T0002)**

Under the Guidance of

V. SUJITHA

M.Pharm.,

Assistant Professor

Department of Pharmacology



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE - 524 003, A P.

FEBRUARY-2024


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

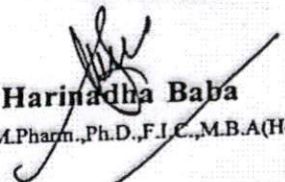
Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that NATAKAM LAKSHMI PRIYANKA (194Q1T0016), ARAVA LIKHITHA BHAVANI (194Q1T0002) carried out the project work entitled A Comparative study on seizures in alcoholic and non-alcoholic patients in a tertiary care hospital is being submitted to Jawaharlal Nehru Technological University Anantapur(JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D)course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. Harinadha Baba

M.Pharm., Ph.D., F.I.C., M.B.A(Hosp.Adm)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that NATAKAM LAKSHMI PRIYANKA (194Q1T0016), ARAVA LIKHITHA BHAVANI (194Q1T0002) carried out the project work entitled is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D)course, at entitled A Comparative study on seizures in alcoholic and non-alcoholic patients in a tertiary care hospital, Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

V. Sujitha

V. SUJITHA

M.Pharm., Assistant Professor.,
Department of Pharmacology,
PROJECT GUIDE

M

PRINCIPAL

NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com

Chinthareddypalem, Nellore - 524003, A.P, India.

EVALUATION CERTIFICATE

This is to certify that NATAKAM LAKSHMI PRIYANKA (194Q1T0016), ARAVA LIKHITHA BHAVANI (194Q1T0002), carried out the project work entitled A comparative study on seizures in alcoholic and non-alcoholic patients in a tertiary care hospital, is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course , at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

M. Chima Sail
28/2/24
External examiner:

V. Sujitha
Internal examiner:

[Signature]
Dr. K. Harinadha Baba
M.Pharm, Ph.D, F.I.C., M.B.A(Hosp. Adm)
Principal,
Narayana Pharmacy College,
Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

[Signature]
PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled A Comparative study on seizures in alcoholic and non-alcoholic patients in a tertiary care hospital, submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course , at Narayana Pharmacy College, in collaboration with Narayana Medical College And Hospital Nellore, is an authentic record of our own work carried out under the guidance of V. SUJITHA during the academic year 2023- 2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 28/2/24

Place: Nellore

Names & Hall ticket Numbers

NATAKAM LAKSHMI PRIYANKA

(194Q1T0016)

ARAVA LIKHITHA BHAVANI

(194Q1T0002)

Signature

N.L. Priyanka

A. Likhitha

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuram)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0016, 194Q1T0002, approved to carry out a comparative study on seizures in alcoholic and non-alcoholic patients in a tertiary care hospital at NARAYANA MEDICAL COLLEGE AND HOSPITAL.

It is concerned by the all the members of the IRB and by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm., Ph.D., F.I.C., M.B.A(Hosp. Adm)

Dr. S. Sujatha M.Pharm, Ph.D

Sk. Salma Sultana M.Pharm (Ph.D)

PROJECT GUIDE

V. Sujitha M.Pharm

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

8.0 CONCLUSION

In this comparative study of seizures in alcoholic and non-alcoholic patients. A diverse set of 200 participants has provided valuable insights. The findings drawn from detailed analysis across various age groups, comorbidities, seizure prevalence, seizure types, associated symptoms, Anti-epileptic drugs usage and practical treatment recommendations contribute significantly to the understanding of complex between seizures in alcoholic and non-alcoholic patients and alcoholic withdrawal seizures.

The prevalence of seizures in alcoholic and non-alcoholic patients indicates the higher occurrence of Alcoholic seizures across all groups.

The demographics reveal distinct patterns across the age groups. On analyzing the data notably, the 31 to 40 age group emerges as the most represented in Alcoholic patients, whereas 41 -50 age group in Non-Alcoholic and Alcohol withdrawal patients suggests age-specific vulnerabilities to seizures in relation to alcohol consumption.

The tonic clonic seizures are more observed in alcoholic patients (84 cases) where as focal to generalized seizures are observed in non-alcoholic patients this reflects the significance of middle age groups in the prevalence of seizures

The complex relationship between alcohol consumption and specific comorbidities reveals alcoholic patients demonstrate a higher occurrence of cerebrovascular events (HTN+CVA) and the combination of HTN+DM+CVA

The comparative Analysis of treatment in the following conditions:

Alcoholic Seizures: Treat acute events with Diazepam and provide Thiamine, Magnesium, and a Multivitamin to address alcohol-related deficiencies.

Non-Alcoholic Seizures: Control seizures using anticonvulsant medications like Carbamazepine, Valproic Acid, Levetiracetam, and Lamotrigine. A Multivitamin is added for overall health support.

Alcohol Withdrawal Seizures: Manage symptoms with a combination of Benzodiazepines (Diazepam, Clobazam) and supplement Thiamine, Magnesium, and a Multivitamin to meet nutritional needs.

The findings contribute to the existing body of knowledge, offering detailed prospectives that can inform clinical decisions and guide future research directions.

This study gives the importance of patient safety, patient management and patient well being and practical recommendations considering the neurological aspects to enhance the overall well being of individuals with seizures.


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

ROLE OF CLINICAL PHARMACIST AND IMPACT OF PARAQUAT ON RESPIRATORY AND RENAL IMPAIRMENT

A Dissertation submitted to



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

In partial fulfillment of award of the degree of

**DOCTOR OF PHARMACY
(2019-2025 BATCH)**

By

**RODDA LOKANATH
(194Q1T0020)**

**MYTHILI SIVAKUMAR
(194Q1T0024)**


**Under the Guidance of
MS.C.L.SINDHURA
Mpharm.M.B.A.,
Department of Pharmacy Practice
Assistant Professor**



NARAYANA PHARMACY COLLEGE

CHINTHAREDDYPALEM, NELLORE – 524003, AP.

FEBRUARY-2024


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

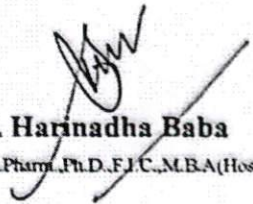
Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that RODDA LOKANATH (194Q1T0020), MYTHILI SIVAKUMAR (194Q1T0024), carried out the project work entitled "ROLE OF CLINICAL PHARMACIST AND IMPACT OF PARAQUAT ON RESPIRATORY AND RENAL IMPAIRMENT" is being submitted to Jawaharlal Nehru Technological University Anantapur(JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D)course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.


Dr. K. Harinadha Baba

M.Pharm., Ph.D., F.J.C., M.B.A.(Hosp. Adm.)

Principal,

Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

CERTIFICATE

This is to certify that **RODDA LOKANATH (194Q1T0020), MYTHILI SIVAKUMAR (194Q1T0024)**, carried out the project work entitled is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm.D) course , at entitled **"ROLE OF CLINICAL PHARMACIST AND IMPACT OF PARAQUAT ON RESPIRATORY AND RENAL IMPAIRMENT"** at Narayana Pharmacy College, Nellore, in collaboration with Narayana Medical College And Hospital Nellore, is a genuine work carried out under my supervision. The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

MS.C.L. SINDHURA

M.Pharm.M.B.A.,

PROJECT GUIDE

(DEPT OF PHARMACY PRACTICE)

PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npe_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P., India.

EVALUATION CERTIFICATE

This is to certify that **RODDA LOKANATH (194QIT0020), MYTHILI SIVAKUMAR (194QIT0024)**, carried out the project work entitled "**ROLE OF CLINICAL PHARMACIST AND IMPACT OF PARAQUAT ON RESPIRATORY AND RENAL IMPAIRMENT**" is being submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) in the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is a genuine work carried out under my guidance.

The result embodied in this report has not been submitted to any other universities or institution for the award of any degree or diploma.

M. Deena Saril
28/2/24
External examiner:

[Signature]
28/2/24

Internal examiner:

[Signature]
Dr. K. Harinadha Baba
M.Pharm., Ph.D., F.I.C., MBA (Hosp. Adm.)

Principal,
Narayana Pharmacy College,

Nellore - 524003

PRINCIPAL

NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

[Signature]
PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayanapharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

DECLARATION

We hereby declare that this project work which is entitled "ROLE OF CLINICAL PHARMACIST AND IMPACT OF PARAQUAT ON RESPIRATORY AND RENAL IMPAIRMENT" submitted to Jawaharlal Nehru Technological University Anantapur (JNTUA) for the partial fulfillment of the requirement for V year Doctor of Pharmacy (Pharm. D) course, at Narayana Pharmacy College, in collaboration with Narayana Medical College and Hospital Nellore, is an authentic record of our own work carried out under the guidance of MS.C.L.SINDHURA during the academic year 2023-2024. To the best of our knowledge and belief this project bears no resemblance with any report submitted to Narayana Pharmacy College or any other University for the award of any degree and diploma.

Date: 28/2/24

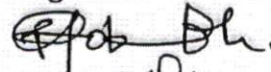
Place: Nellore

Names & Hall ticket Numbers

RODDA LOKNATH (194Q1T0020)

MYTHILI SIVAKUMAR (194Q1T0024)

Signature


S. Mythili


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi)(Affiliated to JNTUA, Anantapuramu)

Phone & Fax No: 0861-2317966; Cell No: +91-9100051603

Email: npc_nellore@yahoo.com

Visit us: www.narayana-pharmacy.com
Chinthareddypalem, Nellore - 524003, A.P, India.

IRB APPROVAL LETTER

The institutional review board has verified the authenticity of the project proposal of Pharm.D V year students with register numbers 194Q1T0020, 194Q1T0024, approved to carry out the project entitled "ROLE OF CLINICAL PHARMACIST AND IMPACT OF PARAQUAT ON RESPIRATORY AND RENAL IMPAIRMENT" at Narayana medical college and hospital.

It is concerned by the all the members of the IRB and by the guide to the project.

IRB COMMITTEE:

Dr. K. Harinadha Baba M.Pharm.,Ph.D.,F.I.C.,M.B.A(Hosp.Adm)

Dr. S. Sujatha M.Pharm,Ph.D *S. Sujatha*

Ms. P. Sasikala Pharm D *P. Sasikala*

Ms. Sk. Ruksana kowsar Pharm D

Ms. C.L. Sindhura M.pharm,M.B.A *C.L. Sindhura*

Ms. V. Sujitha M.pharm *V. Sujitha*

Ms. P. Maha Lakshmi M.pharm *P. Maha Lakshmi*

Sk. Salma Sultana M.Pharm (Ph.D) *Sk. Salma Sultana*

PROJECT GUIDE

MS.C.L. SINDHURA(M.pharm.M.B.A ,assistant professor) *MS.C.L. SINDHURA*

[Signature]
PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002

8.0 CONCLUSION

In conclusion, the role of clinical pharmacists is important in the management of patients exposed to paraquat herbicide, particularly in cases involving respiratory and renal impairment. The risk mortality secondary to paraquat is ingestion was highly associated with risk in creatinine and urea level. The data highlights a higher prevalence of male admissions, with a majority falling within the 18-28 age range. Gastric lavage and hemoperfusion were the primary therapeutic interventions, emphasizing the need for timely and effective detoxification strategies. The observed symptoms, such as vomiting, throat pain, dysphagia, and oral ulcers, underscore the varied clinical presentations of paraquat toxicity. Metabolic acidosis and acute kidney injury (AKI) were prevalent complications, indicating the herbicide's systemic impact. Abnormal urea values were associated with a significant portion of patients, emphasizing the importance of renal function monitoring. The majority of patients had relatively short hospital stays (1-3 days), and despite the challenges, a notable survival rate of 78.5% was achieved through comprehensive clinical interventions. These findings underscore the critical role of clinical pharmacists in optimizing treatment outcomes and highlight the need for continued research and awareness to improve paraquat poisoning management. Enhancing the quality of the poison information services offered requires ongoing, provider-based service evaluation. Thus, the engagement of a clinical pharmacist enhanced the process of identifying poison and improving poisoning treatment techniques. The program might have helped lower death rates and enhance survivors' therapeutic success.


PRINCIPAL
NARAYANA PHARMACY COLLEGE
NELLORE - 524 002