



**YENEPOYA**

(DEEMED TO BE UNIVERSITY)  
Recognized under Sec 3(A) of the UGC Act 1956  
Accredited by NAAC with 'A' Grade

## Details of the Collaborative Activity

2020-21

**Name of the Collaborating Institute:** Kanachur Institute of Medical Sciences, Mangalore - 575 018, Karnataka, India

**Name of the Collaborating department from YDU:** Dept. of Forensic Medicine, Yenepoya Medical College and Yenepoya Pharmacy College and Research Centre

### Activities:

#### Student Internship Training:

II-year D. Pharm students from YPCRC have undergone three months of hospital pharmacy training in Kanachur Institute of Medical Sciences, Mangalore from 15.09.2020 to 15.12.2020 for 500 Hours.

- Ms. Ayisha Shabeeha
- Ms. Shahida,

#### Joint Publication

- Hashim A, Mohammed Gulzar Ahmed, ES. Sindhu Priya, Manikoth Shyamjith. Anti-anxiety effect of *Phyllanthus amarus* ethanolic extract in arsenic administered Wistar albino rats. *Drug Inventions Today*, 2020, 13(7):1105-10.

ATTESTED

Dr. Rangadhara Somayaji K S  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore 575 018, Karnataka.



**YENEPOYA PHARMACY COLLEGE & RESEARCH CENTRE**  
University Road, Deralakatte, Mangaluru- 575018



**PRO FORMA TO BE ATTACHED WITH EVERY APPLICATION FOR  
D.PHARM CERTIFICATE I**

1.	Name of the Candidate (as per SSLC Marks Card)	✓ AYSHA SHABEELHA
2.	Father's Name (as per SSLC Marks Card)	ABDUL KAREEM
3.	Candidate's Permanent Postal Address	NEAR BALLAL HOSPITAL OPP MUKKACHERY ULLAL
4.	Reg.No.	18DP09
5.	D.Pharm Part-I Exam completed in(Month & Year)	JUNE 2019
6.	D.Pharm Part-II Exam completed in(Month & Year)	AUGUST 2020
7.	Name & Postal address of the Institution/Organization where the candidate had underwent training	✓ KANACHUR HOSPITAL AND RESEARCH CENTRE IN NATEKAL KARNATAKA
8.	Drug License No.	20-128138 21-128139 20F-128140
9.	Proprietor's Name	ABDUL RAHMAN
10.	Qualified Proprietor's Name Reg. No. State	MOHAMMED ANAS 43187 (State) karnataka @
11.	No. of qualified Pharmacist's available	MOHAMMED ANAS, MOJDEEN AYSHA NIHAFA, 03. PARTHAN
12.	No. of students being trained in that period	2 Nos.
13.	Period of training spread over	From 15/9/2020 - 15/12/2020 15 Sept To 15 Dec (500 Hours)

Candidate's Signature

I certified that the information given above is true also attest the signature of the candidate.

Date : 12/9/2020

(Principal)  
Signature with seal

**ATTESTED**

Dr.Gangadhara Somayaji K.S.  
Registrar  
Yenepoya(Deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 018, Karnataka

For the use of University only  
Certified by-   
Remarks:

## Annexure II

### SECTION - IV

I certify that AYSHA SHABEENA (Name of student pharmacist) has undergone 500 hours training spread over from Date 15/9/2020 to 15/12/2020 for a period of 3 months in accordance with the details enumerated in SECTION III

Date: 17/12/2020

  
KANAKUR PHARMA  
Kanakur Hospital & Research Center  
Mangalore, Karnataka  
Head of organization or Pharmaceutical Division

### SECTION - V

I certify that AYSHA SHABEENA (Name of student pharmacist) has completed in all respect his practical training under regulation 20 of the Education Regulations framed under section 10 of the Pharmacy Act 1948. He/She had his practical training in an Institution approved the Pharmacy Council of India.

Date: 17/12/2020

  
Head of Academic Training Institution

### NOTE:

- 1) Each & every Section should be filled in with Correction information, signed & sealed with the authorized person with mentioning the dates.
- 2) The practical training shall be not less than five hundred hours spread over a period of not less than three months. Mention the period of training in DD/MM/YYYY format only
- 3) The head of an academic training institution, on application, shall supply in triplicate Practical Training Contract Form for qualification as Pharmacist
- 4) After successful completion of the practical training, It Shall be the responsibility of the trainee to ensure that one copy (hereinafter referred to as the first copy of the Contract Form) so filled is submitted to the Head of the academic Training institution and the other two copies (hereinafter referred to as the second copy and the third copy) shall be filled with the trainee. **ATTESTED**

Dr.Gangadhara Somayaji K.S.  
Registrar  
Yenepoya(D deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 016, Karnataka



## Annexure II

### SECTION - III

I, MOHAMMED ANAS (Name of the Apprentice Master)

Accept Sri / Smt. AYSHA SHABEENA

(Name of the student Pharmacist) as a Trainee and I agree to give him / her training facilities in my organization so that during his/ her training he / she may acquire:-

1. Working Knowledge of keeping of record required by the various Acts affecting the profession of pharmacy ; and

2. Practical experience in

- a) The manipulation of pharmaceutical apparatus in common use;
- b) The recognition by sensors characters of chief crude drugs & chemical substance used in medicine
- c) The reading, translation and copying of prescriptions including the checking of doses;
- d) The dispensing of prescriptions illustrating the commoner methods of administering medicaments; and
- e) The storage of drugs and medicinal preparations.

I also agree that a registered Pharmacist shall be assigned for his/ ner guidance.

Date: 12/9/2020

Head of the organization or Pharmaceutical Division

KANACHUR PHARMA  
Kanachur Hospital & Research Center  
Derlakatte, MANGALURU - 575 018

ATTESTED

Dr Gangadhara Somayaji K.S.  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Derlakatte  
Mangalore- 575 018, Karnataka

YENEPOYA PHARMACY COLLEGE & RESEARCH CENTRE

University Road, Deralakatte, Mangaluru- 575018



**PRO FORMA TO BE ATTACHED WITH EVERY APPLICATION FOR  
D.PHARM CERTIFICATE I**

1.	Name of the Candidate (as per SSLC Marks Card),	SHAHIDA
2.	Father's Name (as per SSLC Marks Card)	ABDUL RAHIMAN
3.	Candidate's Permanent Postal Address	MANGALA NAGAR HOUSE NATEKAL MANJANADY VILLAGE MANGALORE T-9 . D.K 574199.
4.	Reg.No.	18DP26
5.	D.Pharma Part-I Exam completed in(Month & Year)	JUNE 2019
6.	D.Pharma Part-II Exam completed in(Month & Year)	AUGUST 2020
7.	Name & Postal address of the Institution/Organization where the candidate had underwent training	KANACHUR HOSPITAL AND RESEARCH & CENTRE IN NATEKAL KARNATAKA
8.	Drug License No.	20-128138 21-128139 20F-128140
9.	Proprietor's Name	ABDUL REHMAM
10.	Qualified Proprietor's Name Reg. No. State	MOHAMMED ANAS 43187 - KARNATAKA
11.	No. of qualified Pharmacist's available	MOHAMMED ANAS, MOIDEEN FARHAN AYISHA MIHAFI
12.	No. of students being trained in that period	2 No
13.	Period of training spread over	From 15/09/20 To 15/12/20 (500 Hours)

I certified that the information given above is true also attest the signature of the candidate.

Date : 12-09-2020.

Candidate's Signature

(Principal)

Signature with seal

ATTESTED

Dr.Gangadhara Somayaji K.S.  
Registrar  
Yenepoya(Deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 018, Karnataka

## Annexure II

### SECTION – IV

I certify that SHAHIDA (Name of student pharmacist)  
has undergone 500 hours training spread over from Date 15/09/2020 to  
15/12/2020 for a period of 3 months in accordance with the details  
enumerated in SECTION III

Date: 17/12/2020

Head of organization of Pharmaceutical Division  
Kanachur Hospital & Research Center  
Deralakatte, MANGALURU - 575 018

### SECTION – V

I certify that SHAHIDA (Name of student pharmacist)  
has completed in all respect his practical training under regulation 20 of the  
Education Regulations framed under section 10 of the Pharmacy Act 1948. He/She  
had his practical training in an Institution approved the Pharmacy Council of India.

Date: 17/12/2020

Head of Academic Training Institution

### NOTE:

- 1) Each & every Section should be filled in with Correction information, signed & sealed with the authorized person with mentioning the dates.
- 2) The practical training shall be not less than five hundred hours spread over a period of not less than three months. Mention the period of training in DD/MM/YYYY format only
- 3) The head of an academic training institution, on application, shall supply in triplicate Practical Training Contract Form for qualification as Pharmacist
- 4) After successful completion of the practical training, It Shall be the responsibility of the trainee to ensure that one copy (hereinafter referred to as the first copy of the Contract Form) so filled is submitted to the Head of the academic Training institution and the other two copies (hereinafter referred to as the second copy and the third copy) shall be filled with the trainee.

Dr. Gangadhara Somayaji K.S.  
Registrar  
Yenepoya/Deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 018, Karnataka



## Annexure II

### SECTION – III

I, MOHAMMED ANAS (Name of the Apprentice Master)

Accept Sri / Smt. SHAHIDA

(Name of the student Pharmacist) as a Trainee and I agree to give him / her training facilities in my organization so that during his/ her training he / she may acquire:-

1. Working Knowledge of keeping of record required by the various Acts affecting the profession of pharmacy ; and

2. Practical experience in

- The manipulation of pharmaceutical apparatus in common use;
- The recognition by sensors characters of chief crude drugs & chemical substance used in medicine
- The reading, translation and copying of prescriptions including the checking of doses;
- The dispensing of prescriptions illustrating the commoner methods of administering medicaments; and
- The storage of drugs and medicinal preparations.

I also agree that a registered Pharmacist shall be assigned for his/ her guidance.

Date: 17/10/2020


Head of the organization or Pharmaceutical Division

**KANACHUR PHARMA.**

Kanachur Hospital & Research Center

Chikhatte, MANGALURU - 575 018

**ATTESTED**

  
Dr. Gangadhara Somayaji K.S.  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore - 575 018, Karnataka

## Antianxiety effect of *Phyllanthus amarus* ethanolic extract in arsenic administered Wistar albino rats

A. Hashim<sup>1</sup>, Mohammed Gulzar Ahmed<sup>2</sup>, E. S. Sindhu Priya<sup>3</sup>, Manikoth Shyamjith<sup>4\*</sup>

### ABSTRACT

**Introduction:** Arsenic (As) causes central and peripheral nervous system disorders. Treatment of As-induced disorders remains a challenge due to the lack of effective agents. Medicinal herbs can play a pivotal role in this aspect. *Phyllanthus amarus* is one among the indigenous medicinal plants with a lot of health benefits. The present study assessed the antianxiety effect of *P. amarus* ethanolic leaves extract in As-induced central nervous system (CNS) toxicity. **Materials and Methods:** Healthy adult Wistar albino rats of either sex were used for the study. Antianxiety activity of ethanolic leaves extract of *P. amarus* was evaluated using two models – Elevated Plus Maze and Light Dark Arena. After pharmacological experiments, animals were euthanized and brain dopamine levels were estimated. **Results and Discussion:** *P. amarus* leaves ethanolic extract at the dose of 100 mg/kg and 200 mg/kg significantly increased time spent in the open arms/light arena, shortened time spent in the closed arms/dark arena when compared to As treated rats. Sodium arsenite significantly decreased the activity of dopamine in the whole brain homogenate of rats. In treated groups, *P. amarus* ethanolic extract effectively increased the levels of dopamine; hence, it improved anxiety in the rat model. **Conclusion:** *P. amarus* leaves ethanolic extract has significant antianxiety activity in As-induced animal models.

**KEY WORDS:** Antianxiety, Arsenic, Dopamine, Neurotoxicity, *Phyllanthus amarus*

### INTRODUCTION

Arsenic (As) is a naturally occurring steel gray color solid material. It is widely distributed in the Earth's crust in both organic and inorganic forms. As is one of the most toxic naturally occurring contaminants in the environment. Inorganic As is the most abundant type, is associated with more adverse health effects for humans. The major source of human exposure to inorganic As is through polluted drinking water.<sup>[1]</sup> Affecting millions of people worldwide, As exposure can cause several diseases such as skin disorders and diseases of the gastrointestinal, respiratory, cardiovascular, neurological, genitourinary, endocrine, and hematopoietic systems. Studies have shown that even low concentrations of As impair neurological function, mainly in children. As is

known to produce central and peripheral neuropathy, learning and memory impairment, difficulty in problem-solving, in-coordination, short-term memory and lack of concentration and attention, delirium, mood disorders, anxiety, depression, encephalopathy, and decreased psychomotor speed.<sup>[2]</sup> Treatment of As-mediated disorders still remains a challenge due to the lack of effective alternatives. Chelation therapy has been the most widely used method to detoxify As. However, this method is associated with deleterious effects leading to various toxicities such as hepatotoxicity, neurotoxicity, addiction, tolerance, and other adverse effects.<sup>[3]</sup> It offers limited success in providing an effective cure for As-induced toxicity.<sup>[4]</sup> Here comes the importance of medicinal plants. The use of medicinal plants by man for the treatment of various diseases has been in practice for a very long time. It has been discovered that indigenous drugs of plant origin show effective and progressive relief from As-induced toxicity with negligible side-effects.<sup>[5]</sup>

#### Access this article online

Website: [jpr solutions.info](http://jpr solutions.info)

ISSN: 0975-7619

<sup>1</sup>Department of Forensic Medicine and Toxicology, Yenepoya (Deemed to be University), Mangalore, Karnataka, India,

<sup>2</sup>Yenepoya Pharmacy College and Research Centre, Yenepoya Deemed to be University, Mangalore, Karnataka, India,

<sup>3</sup>Department of Pharmacology, Yenepoya Pharmacy College and Research Centre, Yenepoya (Deemed to be University),

Mangalore, Karnataka, India, <sup>4</sup>Department of Pharmacology, Kanachur Institute of Medical Sciences, Mangalore, Karnataka, India

\*Corresponding author: Manikoth Shyamjith, Department of Pharmacology, Kanachur Institute of Medical Sciences, Mangalore - 575 018, Karnataka, India. Phone: +91-9480361961. E-mail: [shyamjith.manikoth@gmail.com](mailto:shyamjith.manikoth@gmail.com)

Received on: 11-02-2020; Revised on: 17-03-2020; Accepted on: 15-04-2020

ATTESTED