



# PUSHPAGIRI

We care God cures

## PHARMA ECHO

The News Bulletin of Pushpagiri College of Pharmacy

MEDICITY CAMPUS, PERUMTHURUTHY P.O., TIRUVALLA-689 107. Tel.: 0469-2645450, 2645900. Fax: 0469-2645460

Affiliated to KUHS, Thrissur and approved by AICTE and PCI, New Delhi

Vol. 2 Issue. I  
2014 April

Contents

Inauguration of 10th Batch of B.Pharm  
Pharmacist Day Celebration  
Honour to Our Principal  
Medical Camp at KSSS  
Seminar on Microwave Synthesis  
National Pharmacy week Celebration 2013  
National Seminar jointly Organised by KSCSTE  
Article by Dr.Suresh David  
Article by Ms.Anitha Mary Mathews  
Article by Ms.Leena P N  
Article by Ms.Jancy Kuruville Publications  
Seminars & Workshop Attended by faculty  
Events ,Cultural Programmes, Industrial visits 2013

**Our Patron**  
**Rev. Dr. Thomas Mar Koorilos**  
Metropolitan Archbishop of Tiruvalla

Chairman and CE  
**Rev. Dr. Shaji Vazhayil**

Director, Medicity  
**Rev. Fr. John Thomas Kandathinkal**

Chief Advisor &  
Director of Academics & Research  
**Rev. Dr. Mathew Mazhavancheril**

Editorial Advisory Board  
**Rev. Fr. John Thomas Kandathinkal**  
Director, Medicity

**Prof. Dr. Mathew George**  
Principal

**Prof. Dr. Lincy Joseph**  
HOD. Dept of Pharm. Chemistry

Staff Editor  
**Ms.Santhi Maria Joseph**

Page Designer  
**Arun Varghese**  
(Office Secretary)

Student Editor  
**Ms.Neethu Merin Mathew**  
**Ms.Persis Mary Samuel**



### Our Patron

**Rev. Dr. Thomas Mar Koorilos**  
Metropolitan Archbishop of Tiruvalla  
Catholic Archdiocese of Thiruvalla

**Vision :** "We care..... God cures....."

**Mission :** To work towards a knowledge society with a life in abundance, through science and technology, improving health care of our immediate community, state, country and the world at large.



### CHAIRMAN'S MESSAGE

It is a matter of immense pleasure that Pushpagiri College of pharmacy is bringing out the second volume of news bulletin-PHARMA ECHO this year. This bulletin is a product of an excellent team work with dedication, determination, and discipline. It displays the proud moments and a milestone accomplished in the voyage frequented by the almighty. Pharma echo is being released adding another feather of glory to the golden crown of achievements of Pushpagiri College of Pharmacy. All blessing's to the devoted hands behind this effort and initiative

**Rev. Dr. Shaji Vazhayil**  
(Chairman & Chief Executive)



### FROM THE DIRECTOR

It is a matter of pride, that the second volume of the news bulletin –PHARMA ECHO is been published. It brings together the creativity and talents of all students under one umbrella. It reflects the activities, innovations and developments emerged from Pushpagiri College of Pharmacy, during last six months. It has turned out to be another new feather of glory to the achievements of Pushpagiri College of Pharmacy taking this opportunity to congratulates all the devoted hands worked behind this Endeavour.

**Rev. Fr. John Thomas Kandathinkal**  
Director Medicity



### FROM THE DIRECTOR OF ACADEMICS

I am extremely pleased to know that Pushpagiri College of pharmacy is releasing the 2<sup>nd</sup> volume of Pharma echo, consists a proof for the dedication of the college in catering a system that nurtures social, moral, physical and emotional development of the students. It is a product of excellent team work and determination. All blessings to the dedicated hands behind this venture.

**Rev. Dr. Mathew Mazhavancheril**  
Director Academics

### FROM THE PRINCIPAL'S DESK



It is a matter of great joy that the 2<sup>nd</sup> volume of Pharma echo is being released. It brings together the creativity & talents of all students. It reveals the activities, innovations, and developments emerged from Pushpagiri College of Pharmacy. This provides a good perspective on the intellectual and creative pursuits happening in our campus and take this opportunity to appreciate the meticulous effort towards this endeavor

**Prof. Dr. Mathew George,**  
Principal

### FROM THE EDITORIAL ADVISORY BOARD



I am very pleased to share that the second volume of pharma echo is being released. This highlights the academic and research activities of Pushpagiri College of Pharmacy. It is an embodiment of the students towards the knowledge based activities. It reflects the college activities which excels quality, identity, recognition, & also maintains high academic standards to disseminate the light of pharmaceutical education & congratulating the faculty and students for rendering their expertness & skillness to make this successful.

**Prof. Dr. Lincy Joseph, HOD**

### FROM THE EDITORS DESK

I am extremely grateful to the lord almighty in enabling us to publish the Pharma echo second volume. This news letter is an evidence that, our college gives opportunity for students to exhibit talents. It is a montage of creations and successful accomplishments of the Pushpagiri College of Pharmacy .On this auspicious occasion; I heartily congratulate everyone who toil hard on the stage and behind the curtain to make this into a reality. We put forth Pharma Echo second volume, first issue for your kind reading and reviews.....

**Ms. Santhi Maria Joseph**



## Inauguration Ceremony of 10<sup>TH</sup> Batch B.Pharm

10<sup>th</sup> Batch of B.Pharm was inaugurated by Mrs. Delsy Sam, chairperson of Municipality, Thiruvalla on 21<sup>st</sup> August, 2013. The programs were started at 10:00 a.m. His Grace Most Rev. Dr. Thomas Mar Koorilos Metropolitan Archbishop Catholic Archdioceses of Thiruvalla delivered the benedictory speech. Rev. Fr. John Thomas Kandathinkal, Director of Pushpagiri Medicity campus presided over the function. Rev. Fr. Mathew Mazhavancheril, Director of Academics and Research, Pushpagiri Group of Institutions and Principal – Prof. Dr. Mathew George felicitated in the event. The 2<sup>nd</sup> issue of the college newsletter “PHARMA ECHO” was released during the function. Students exhibited their talents during the function. The programme came to an end by the vote of thanks of Ms. Prisa Mariam of 2<sup>nd</sup> B.Pharm. The orientation class for the fresher’s of 10<sup>th</sup> Batch B.Pharm was conducted after the inauguration.

## PHARMACIST’S DAY CELEBRATION ON SEP. 25<sup>TH</sup> 2013



Mr. Christy C Varghese, College Student Union Chairman, Pushpagiri College of Pharmacy delivered the felicitation. The session was ended with the vote of thanks of Mr. Suresh Kumar, Convener, Pharmacy Forum Pathanamthitta District.

The third session was the scientific session led by Prof. Dr. Lincy Joseph on the topic “Healthy thoughts for Healthy Heart”. It was very informative and it added color to the celebration. Pharmacists from various parts of Pathanamthitta attended the celebration. PCI have distributed leaflets to all for making awareness in all about the importance of Pharmacist Day.

The pharmacist’s day in association with Pharmacy Council of India & Kerala State Pharmacy Council was celebrated auspiciously on Sep 25<sup>th</sup> September. The inaugural and honoring function was started at 2.00pm. Prof. Dr. Mathew George, principal, Pushpagiri College of Pharmacy, Rev Fr. John Thomas Kandathinkal, Director medicity campus, pushpagiri group of institutions were present for the inaugural and honoring function. The academic salutation was given to Prof. Dr. Lincy Joseph.

The second session was the lighting of the lamp. Mr. P. Subairkutty, Chief Store in Charge, Pathanamthitta,







**HONOUR TO OUR PRINCIPAL**

Distinguished Alumni award of Manipal College of Pharmaceutical Sciences-Manipal University 2013 has been conferred upon **Prof. Dr. Mathew George – Principal, Pushpagiri College of Pharmacy**. The award is conferred by Manipal University Vice Chancellor Dr. K Ramnarayanan in presence of Dr. P. Laxmi Narayana Rao, Registrar -Manipal University, Dr. M. N.A. Rao General Manager Divis Laboratory Hyderabad. Function held at fortune Inn Valley view Hotel , Manipal.

### MEDICAL CAMP AT KSSS, KOTTAYAM

Kottayam Social Service Society conducted *Karshika Mela* under the authorization of Kerala Government, Agricultural sector & Aakashavani from 4<sup>th</sup> December to 8<sup>th</sup> December 2013. This was a 5 day exhibition programme , Pushpagiri College of Pharmacy also participated in the camp, Rev.Fr.John Thomas Kandathinkal, the Director-Pushpagiri College of Pharmacy, Prof.Dr.Mathew George , Principal ,Pushpagiri College of Pharmacy initiated the M.Pharm Pharmacy Practice students to attend the medical camp and exhibition conducted at KSSS .



# Acute myocardial infarction and cocaine toxicity: One step closer

Sir,

The article by Sarkar et al.,[1] is indeed interesting and timely as practitioners and emergency physicians have started seeing cases of cocaine intoxication in India.

However, a few aspects of this paper require contemplation.

The authors have administered thrombolytic agent initially for cocaine associated myocardial infarction (CAMI) which is not congruent with current evidence.[2] Current literature questions the routine use of thrombolytic therapy for patients with CAMI and there are reports of severe complications associated with thrombolytics in cocaine users.[3] The frequent presence of contraindications to thrombolysis, including severe hypertension, seizures, intracerebral hemorrhage, and aortic dissection in cocaine abusers precludes the liberal use of thrombolytic agents.

Moreover, the standard electrocardiographic criteria (ST elevation) for thrombolytic therapy is hampered by the high rate of abnormal or nondiagnostic electrocardiogram (ECG)'s in patients presenting with cocaine associated chest pain. The guidelines issued by American College of Cardiology and American Heart Association[4] advocate the use of thrombolytic therapy in CAMI only if ST segments remain elevated despite nitroglycerin and calcium antagonists and coronary angiography is not possible.

Secondly, the recent cocaine use can alter the specificity of cardiac biomarkers and making them difficult to interpret in CAMI, especially the serum creatinine kinase level is not a reliable indicator of myocardial injury and is increased in almost half of cocaine users irrespective of concurrent MI possibly because of cocaine-induced hyperthermia, increased skeletal muscle activity, and rhabdomyolysis.[5] The awareness of reliability of cardiac biomarkers in cocaine associated chest pain is warranted for effective management. The American Heart Association recommends nitroglycerin and benzodiazepines as first-line agents for cocaine associated chest pain. Benzodiazepines are administered especially in cocaine-addicted patients with associated hypertension, tachycardia, or anxiety after the cocaine use. Intuitively, dexmedetomidine, a central sympatholytic agent is highly effective in reversing the cocaine's sympatho-

mimetic actions.[6] Substance abuse remains one of the major public health issues across the globe, despite health education on prevention; the incidence of illicit substances is escalating.

Since many patients with cocaine toxicity will present with chest pain to the emergency department, it is essential that these patients be recognized early and managed appropriately to prevent complications. Subramanian Senthilkumaran, Suresh S. David<sup>1</sup>, Narendra Nath Jena<sup>2</sup>, Ritesh G. Menezes<sup>3</sup>, Ponniah Thirumalaikolundusubramanian<sup>4</sup>. Department of Emergency and Critical Care Medicine, Sri Gokulam Hospitals and Research Institute, Salem, <sup>1</sup> Department of Emergency Medicine, Christian Medical College and Hospital, Vellore, <sup>2</sup> Department of Emergency Medicine, Meenakshi Mission Hospital and Research Centre, Madurai, Tamil Nadu, <sup>3</sup> Department of Forensic Medicine and Toxicology, Employees State Insurance Corporation Medical College and Post Graduates Institute of Medical Science and Research, Bangalore, Karnataka, <sup>4</sup> Department of Internal medicine, Chennai Medical College and Research Center, Irungalur, Trichy, Tamil Nadu, India Correspondence: Dr. Subramanian Senthilkumaran, Department of Emergency and Critical Care Medicine, Sri Gokulam Hospital and Research Institute, Salem - 636 004, Tamil Nadu, India.

E-mail: maniansenthil@yahoo.co.in

## References

1. Sarkar A, Pande A, Naveen CG, Ahmed I. Acute myocardial infarction in a young cocaine addict with normal coronaries: Time to raise awareness among emergency physicians. *Indian J Crit Care Med* 2013;17:56-8.
2. Hollander JE, Burstein JL, Hoffman RS, Shih RD, Wilson LD. Cocaine-associated myocardial infarction. Clinical safety of thrombolytic therapy. Cocaine Associated Myocardial Infarction (CAMI) Study Group. *Chest* 1995;107:1237-41.
3. Hollander JE, Wilson LD, Leo PJ, Shih RD. Complications from the use of thrombolytic agents in patients with cocaine associated chest pain. *J Emerg Med* 1996;14:731-6.
4. McCord J, Jneid H, Hollander JE, de Lemos JA, Cercek B, Hsue P, et al. Management of cocaine-associated chest pain and myocardial infarction: A scientific statement from the American Heart Association Acute Cardiac Care Committee of the Council on Clinical Cardiology. *Circulation* 2008;117:1897-907.
5. Hollander JE, Levitt MA, Young GP, Briglia E, Wetli CV, Gawad Y. Effect of recent cocaine use on the specificity of cardiac markers for diagnosis of acute myocardial infarction. *Am Heart J* 1998;135:245-52.





## SEMINAR ON MICROWAVE SYNTHESIS

A seminar on the topic "Microwave Synthesis" was conducted by Mr. Nabil Sheikh, Regional Manager (sales) IR Technology, Bangalore on 11-09-2013 at 12:15 pm at the seminar Hall of Pushpagiri College of Pharmacy.

Mr. Nabil gave an elaborate talk on the theory of microwave synthesis, instrumentation, its application, and the various advancement in the recent era. Microwave induced Organic Reaction Enhancement (MORE) offers a simple, non conventional technique for the synthesis of a wide variety of compounds. Highly accelerated reaction rate is the main advantage of MORE technique, which enables the chemist to carry out the synthesis in much lesser time and with reasonably good yield. Currently available classical method requires elaborate apparatus set up, longer heating time and large volume of organic solvents and therefore virtually no control over energy input.

An eco-friendly method is an important salient feature of MORE technique, since it requires no solvent (dry media synthesis) or very little solvents. Since the reaction time is significantly decreased, it also results in lesser evaporation of solvents preventing pollution.

The session was informative and beneficial for the students and the faculty members. At the end of the talk, there was an interactive session which helped the students to clear-up their doubts regarding the topic. The session ended at 1:30pm with vote of thanks.

## NATIONAL PHARMACYWEEK CELEBRATION 2013

Pharma bliss @ 52

11<sup>th</sup> & 12<sup>th</sup> November, 2013

The 52<sup>nd</sup> National Pharmacy Week celebrations 2013 was celebrated in a very grand way on 11<sup>th</sup> & 12<sup>th</sup> of November 2013 at Pushpagiri College of Pharmacy. The celebrations started with a road awareness programme led by Mr. Jiji George, Joint RTO, Thiruvalla & his team. The inauguration

ceremony was started by 02.00pm with the blessings of His Grace Rev. Dr. Thomas Mar Koorilose. The chief guest Mr. Rishiraj Singh IPS, State Road Transport Commissioner, Guest of Honour Mr. Radhakrishnan Nair, Registrar, KSPC, Rev. Dr. Shaji Vazhayil, Chairman & CE of Pushpagiri Group of Institutions, Mr. Abbey John, RTO, Pathanamthitta, Mr. Jiji George, Joint RTO, Thiruvalla and Dr. Mathew George, Principal, Pushpagiri College of Pharmacy were present for the inauguration ceremony. It was followed by a general talk on the topic "Pharmacy Profession & its Act" by Mr. Radhakrishnan Nair.





The door opened to the second day of the pharmacy week celebrations at 9.30am with a blood donation camp in association with the Lion's club Impact, Thiruvalla and Govt. Medical College, Kottayam. The programme was officially inaugurated by Mr. P.C Vishnunath, Hon. MLA of Chengannur. Dr.V Padmaja, member, KSPC presented a general talk on the topic "Proud to be a Pharmacist". The strengthening of medicinal garden was inaugurated by Mr. P.C Vishnunath MLA. The orphanage visit to Ashraya Bhavan, Kunnathanam, by the staff and students of Pushpagiri pharmacy college added color to the 52<sup>nd</sup> national pharmacy week celebrations.

The event was grand and proceeded the guidance of our Principal, Prof.Dr. Mathew George and the blessings of Our Diector, Rev.Fr.John Thomas Kandathinkal.







Mr. Rishi Raj Singh IPS (State Road Transport Commissioner)

Unveils the Drug Formulary Prepared by Pushpagiri College of Pharmacy and hands over to

His Grace Rev. Dr. Thomas Mar Koorilose (Metropolitan Archbishop, TVLA),

In the Presence of Prof. Dr. Mathew George (Principal), Fr. John Thomas Kandathinkal (Director, Medicity), Rev. Dr. Shaji Vazhayil (CEO, Pushpagiri Institutions), Mr. Radhakrishnanan Nair (Registrar, KSPC), Rev. Dr. Mathew Mazhavancheril (Director, Academics & Research),

Mr. Abey John (RTO, Pathanamthitta), Mr. Jiji George (Joint RTO, TVLA).

## A report on national seminar jointly organized by KSCSTE Thiruvananthapuram PCP PATENTUM On 27th & 28th November, 2013

The first day of the seminar was inaugurated by seeking the blessings of the almighty, Prof. Dr. Mathew George, Principal, Pushpagiri College of Pharmacy, Thiruvalla, delivered the welcome speech. The honorable guests of the seminar- Dr. P.K. Sudhir, Controller of Examinations, Kerala University of Health Sciences and Shri. Dharma raj, Judge Family Court, Tiruvalla and other dignitaries and the entire delegates were welcomed. The presidential address was given by Rev. Dr. Shaji Mathews Vazhayil, Chairman and CE Pushpagiri Group of Institutions. The chief guest Dr. P.K. Sudhir addressed the delegates and he briefly explained about the relevance of IPR. Mr. Dharmaraj addressed the audience by focusing on the laws that are existing, which can be utilized successfully in protecting one's inventions. Thus the seminar was inaugurated traditionally by lighting the lamp. Rev. Dr. Mathew Mazhavancheril, Director - Academics, Pushpagiri Group of Institutions explained the ideas of patent, copyright, trademark etc. Rev. Fr. John Thomas kandathinkal, Director, Medicity Campus and Dr. Rajaneesh Sharma, Key note speaker felicitated the function. The inaugural session was ended with vote of thanks by Prof. Dr. Lincy Joseph, HOD, Pharmaceutical Chemistry, Pushpagiri College of Pharmacy, Thiruvalla.

Dr. Rajaneesh Sharma IP, Attorney, New Delhi made his presentation on the topic "IP Genesis and Basics of IPR". He gave basic ideas, definitions about the IPR and other terminologies. The poster presentation of the delegates were evaluated by the chief guests. By 1:00 p.m. the first technical session ended. The second technical session was handled by Dr. Rajaneesh Sharma on "Types and Classification of IPR". He made classification on the terms patents, trademarks,

industrial designs and geographical indication. Second day of the seminar was started with the presentation of Dr. Jeena Joseph, Project Scientist, KSCSTE, Thiruvananthapuram in which the discussions are about the objectives of PIC, functioning of the PIC, patents searching website etc. followed by Dr. Rajaneesh Sharma on "Technology Transfer in Pharma Patent Scenario and PCI protocol". The third technical session was handled by Mr. M. Ajith, Asst. Controller of Patents and Designs Patents Office, Chennai explained about how the common man can patent his talent in India. The afternoon session was handled by Dr. Rajaneesh Sharma on "Present Day Examples in IPR Exploitation". The last technical session of the event was handled by Mr. Abhinav Saxena on "Successful Patent Commercialization Ventures". At 4:30 p.m. the valedictory function commences with the welcome address by Prof. Dr. Mathew George, Principal, PCP, Thiruvalla. The presidential address was given by Rev. Fr. Renjith Madathirambil

Director-Materials, Pushpagiri Group of Institutions. The valedictory session was inaugurated by the Chief Guest, Prof. Dr. Varghese George, Chairman Plantation Cooperation of Kerala. The felicitation was carried out by Mr. Christy .C Varghese, Chairman - Students Union. 35 posters from other colleges were participated in poster presentation. The best poster award was presented to Ms. Maya S, (Evaluation of antiurolithiatic activity of Morus alba L. In Vitro), M.G University Campus, Kottayam. Certificate distribution for the participants was proceeded. Prof. Dr. Lincy Joseph delivered vote of thanks.





## SMART AND INTELLIGENT PILLS

Patient oriented practice of pharmacy is gaining importance throughout the world and a number of products are being developed and marketed with emphasis given to patient's convenience, comfort and compliance. Smart pills and intelligent pills are two products that came in the above said category. Smart pill is a pill that can deliver or control the delivery of medicine without the patient having to take action beyond the initial swallow. Jerome Schentag, Professor of Pharmaceutical Sciences at the University of Buffalo, invented the computer controlled smart pill which can be electronically tracked and instructed to deliver a drug to a pre-determined location in the gastrointestinal tract.

Intelligent pills are digital health products. Sensor tablets are used to monitor patient's medication use. Since compliance with doctor's and pharmacist's instructions has been identified as a problem, it would be very useful in different therapeutic areas where long term administration of drugs is required. It would be of use in the management of tuberculosis, mental health, heart failure, hypertension and diabetes. Sensors act as ingestible event markers which can be taken with pills or incorporated directly into medicines, as part of the manufacturing process. They are activated by stomach acids and emit a signal detected by a device attached to the patient's skin, like a bandage.

This device also monitors heart rate, respiratory rate and body temperature. These data can also be relayed to the patient's mobile phone and shared with whomever the patient chooses.

**MS.ANITHA MARY MATHEWS**  
(DEPT.OF PHARMACOLOGY)



## FDA Alert :Acetaminophen Prescription Combination Drug Products with more than 325 mg - Recommendation to Discontinue Prescribing and Dispensing

Jancy M.pharm II

FDA is recommending health care professionals discontinue prescribing and dispensing prescription combination drug products that contain more than 325 milligrams (mg) of acetaminophen per tablet, capsule or other dosage unit. There are no available data to show that taking more than 325 mg of acetaminophen per dosage unit provides additional benefit that outweighs the added risks for liver injury. Further, limiting the amount of acetaminophen per dosage unit will reduce the risk of severe liver injury from inadvertent acetaminophen overdose, which can lead to liver failure, liver transplant, and death.

Cases of severe liver injury with acetaminophen have occurred in patients who:

- took more than the prescribed dose of an acetaminophen-containing product in a 24-hour period;
- took more than one acetaminophen-containing product at the same time; or
- drank alcohol while taking acetaminophen products.

This category of prescription drugs combines acetaminophen with another ingredient intended to treat pain (most often an opioid), and these products are commonly prescribed to consumers for pain, such as pain from acute injuries, post-operative pain, or pain following dental procedures.

Acetaminophen is also widely used as an over-the-counter (OTC) pain and fever medication, and is often combined with other ingredients, such as cough and cold ingredients. FDA will address OTC acetaminophen products in another regulatory action. Many consumers are often unaware that many products (both prescription and OTC) contain acetaminophen, making it easy to accidentally take too much.

More than half of manufacturers have voluntarily complied with the FDA request. However, some prescription combination drug products containing more than 325 mg of acetaminophen per dosage unit remain available. In the near future FDA intends to institute proceedings to withdraw approval of prescription combination drug products containing more than 325 mg of acetaminophen per dosage unit that remain on the market.

**RECOMMENDATION:** FDA recommends that health care providers consider prescribing combination drug products that contain 325 mg or less of acetaminophen. FDA also recommends that when a pharmacist receives a prescription for a combination product with more than 325 mg of acetaminophen per dosage unit that they contact the prescriber to discuss a product with a lower dose of acetaminophen. A two tablet or two capsule dose may still be prescribed, if appropriate. In that case, the total dose of acetaminophen would be 650 mg (the amount in two 325 mg dosage units). When making individual dosing determinations, health care providers should always consider the amounts of both the acetaminophen and the opioid components in the prescription combination drug product.

## PUBLICATIONS

PAPER PUBLISHED DURING THE PERIOD JULY 2013 TO DECEMBER 2013

**Prof. Dr. MATHEW GEORGE, Prof. Dr. LINCY JOSEPH:** Pharmacognostical & phytochemical studies of *Spondia s. pinnata* Leaf. (Annals of plant sciences)

**MS. ANITHA MARY MATHEWS:** Study of glucose uptake of *S. xanthocarpum* in *t6* cell lines. (European journal of biosciences.)

**Mr. K SUJITH:** 1. Study on antidiabetic mechanism of various ayurvedic formulations by using invitro methods. (International journal of pharmaceutical research and life sciences .August 2013 )

2. Review on *Anacyclus pyrethrum*-valuable medicinal plant- invention (impact –ethanopharmacology)

**MS. LEENA P N:** 1. Quality control standards for the root of some medicinal plants, ( International journal of pharmaceutical and chemical sciences).

2. Comparative study on Antibacterial activities of some selected plant extracts, (International journal of pharmaceutical and research science/RA-2742.)

**MS. NILA MARY VARGHESE:** Floating microspheres of carvedilol as Gastro Retentive Drug delivery system: Full factorial design & in vitro evaluation. (Drug Delivery)

## SEMINARS & WORKSHOPS ATTENDED

**MS EMILY JAMES:** IACP organized seminar July 1st - 3rd 2013 at St. James College of Pharmacy Chalakudy

Seminar on molecular biogenesis at pushpagiri research centre, Thiruvalla have been attended by **Dr. Mathew George, Dr. Lincy Joseph, Ms. Leena P.N and Ms. Deepthi Mathew.**

## HOLISTIC CONCEPT OF DRUG ADMINISTRATION IN TRADITIONAL SYSTEM OF MEDICINE

**MS. LEENA P.N**

(DEPT. OF PHARMACOGNOSY)

### INTRODUCTION

In the very outset, it is absolutely necessary to understand fully the intricacies of the so called holistic concept of drug administration in the traditional system of medicine as Chinese system of medicine, Indian system of medicine, sidha system of medicine, unani system of medicine, aromatherapy, bach flower remedies & Tibetan system of medicine. In fact the term "Hollism" relates to the treatment of whole person rather than the just specific isolated symptoms only.

### FUTURE TASKS TO BE ACCOMPLISHED

- Complete through analysis
- Current state of development of phytomedicinal research
- Chemosynthetic pharmaceutical research

### GUARANTEEING AN UTMOST SAFETY

The drug laws stipulate & ascertain in terms of guaranteeing the overall safety, quality and effectiveness of herbal medicine being developed across the globe. The western countries and the third world countries (or Asia) however so called 'global consensus' always prevails on the following couple; of vital aspects namely

- All herbal medicines should be both safer and more effective
- Their actual usage in the treatment must be rationalized in a scientific manner

### PREREQUISITES FOR INOVATION IN PHYTOMEDICINAL RESEARCH

The advent of high tech methods allows the herbal researchers to accomplish

- Optimization of effectiveness
- Proper standardization of herbal medicine
- Clinical testing of all traditional herbal medicines

Belief upon the ensuing monotherapy to be an ideal accomplishment of polytherapy and emergence of absolutely newer ideas or concepts in pathological process accompanying symptoms.







