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NARSAMPET, Dist. Warangal – 506 332, (T.S)

#### **List of Publications**

Title of paper	Author/s	Year of publication	Link to article/ paper/ abstract of the article
Synthesis and Evaluation of Some New Quinoline Based 1, 3, 4-Oxadiazoles as Potential Antimicrobial and Antimalarial Agents	Hemalatha Gadegoni et al.	2021	https://doi.org/10.3183 8/ijpr/2021.13.02.041
Electroencephalogram correlates the role of Ashwagandha in sleep and memory promoting effect	Mounika Basani et al.	2021	doi:10.5530/ijper.55.1. 20
The molecular docking studies of zudovudine, lamuvudine using molegro virtual docker on protease against of COVID-19	T Mahender et al.	2020	DOI : 10.20959/wjpps2020 7-16606
Assessment of neuropharmacological profile of ethanolic extract of Lawsonia inermis flowers	Syeda Nishat Fathima et al.	2020	https://doi.org/10.1272 3/mjs.55.4
Development of Ex-vivo evaluation of Topiramate mucoadhesive nanoparticles for intranasal delivery	Anil Goud Kandhula et al.	2020	https://doi.org/10.3728 5/ijpsn.2020.13.6.10
The analysis of neurologic manifestations with major electrolyte abnormalities	Shirisha Chinthoju et al.	2020	DOI: 10.5530/ijopp.13.2.24
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The assessment of sleep quality and insomnia severity in cardiovascular diseases	Dhontha Chaitra , Sindgi Vasudeva Murthy <i>et al</i> .	2020	DOI: 10.5530/ijopp.13.4.55
Epidemiology of out of hospital cardiac arrests knowledge of cardiovascular disease and risk factors in a regional setting in India: The Warangal area out of hospital cardiac arrest registry (WACAR)	Srinivas Ramaka, Sindgi Vasudeva Murthy	2020	doi: 10.1016/j.ihj.2020.10. 002
Impact of clinical pharmacist interventions and tele-monitoring on clinical outcomes of Type-2 Diabetes mellitus patients	Swetha Ramidi et al.	2020	DOI: 10.5530/ijopp.13
Non-invasive electroencephalography method development and validation using Carbamazepine	Mounika Basani, S Vasudeva Murthy et al.	2019	https://doi.org/10.2237 7/ajp.v13i04.3398
An observational study of out-of- hospital cardiac arrests reported in Indian print media	Ramaka S, Sindgi VM et al.	2019	DOI: 10.4103/JICC.JI CC_52_19

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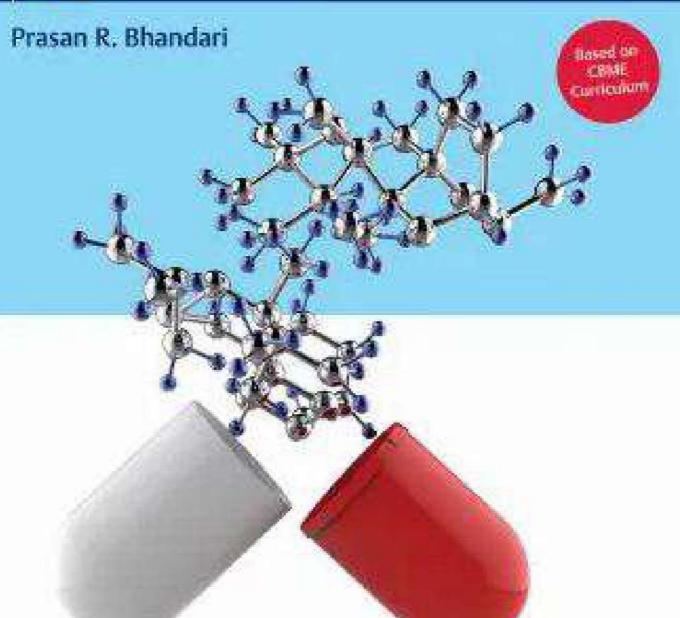
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# Textbook of Pharmacology





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#### Antimicrobial Stewardship

Vasudeva Murthy, T. Smitha, Asha B.

PHI.43 Retional use of antimicrobials including antiinterobial stewardship programs.

#### Learning Objectives

- The street proce of antibiotic resistance.
- · Antimicrobial stewardship program.
- Antibiotic stewardship program activities in India.
- Phagetal artificite showardship programs

Wholem medicate uses antibiotic treatment as one of the approaches to combat infections. A minister of antibiotics were developed between 1900 and 1960, and hence this period is mestidened the "golden cas" of antibiotics. The advent of antibiotics made technicinfections treatable. The prompt antiation of antimicrobials reduced the numbel of and ministration.

#### The Emergence of Antibiotic Resistance

The mixture and overrise of antibiotics have resulted in the emergence of antibiotic resistance. The emergence of antibiotic resistance reduces the effectiveness of the antibioticial agent due to matters strain.

The broader term authoric resistance 2015 encompasses resistance to drugs to treat infections due to surious types of pathogens, including bacteria, viruses such as influence and HIV, malariz-carring parasites, and furgi such as Crindida upp. The failure to treat infections due to bacteria is a serious throat to public health. Antibiotic resistance in imperiting the value of antimotics leading to the global errais of therapeutic management. This is excribed to the "exploitation" of amidantics, unavailability of never antibiotics, and demanding regulatory requirements. Factors such as subtherapeutic utilization of astribiotics also led to drug sexistance, adverse effects, and the economic burden associated with autended hospital stay. Nongentarious climical mes of antineduce are prodisposing factors for antihonic resistance. It is expended to option as the use of antibiotes in leasing effections, preventing adverse effects caused by immunessary use of antibatics, and combating resistance. The actimic robid stewardship programs promoted orgularization of antimotic utilization

to prevent the courgence of microbial material stream.

This program is promoted by infectious Diseases Society of America (IDSA), the Society for Healthcare Epidemiology of America (SHEA), and the American Society of Health-System Pharmacists (ASHP).

#### Antimicrobial Stewardship Program

The concept of stewardship involves the menopottent of samething, such as property, which is assigned to care. Antimicrobial stowardship program (AMSP) can be defined "as an organizational systemic health care strategy promotory appropriate use of antimicrobials through implementation of evidence-based interventions." According to the tDSA, astimicophial stemandstep covers optimizing the indication, selection, during, studie of admirestration and duration of antimerobial therapy to meximize the clinical cure or prevention of infection whilst limiting the collaboral damage of antique obial use. including toxicity, the selection of gallacyerus organisms and the energonic of resistance." This encourages an effective antibiotic prescription to improve the clinical outcomes. The main purpose of the antimicrobud stewardship includes making use of the antonimobial agent in appropriate patient, appropriate indication, proper drug(s), proper administration of the dose, route, duration of treatment, use of antihiotics in appropriate combination. and its cuit. The important constituents of antimicrobial abruardahip include dedicated leadership, responsibility. pharmacypractics, diagrossis feeting, and interventions for the botton use of antibiotics. Diss part of the chapter deals with strategies for ambijotic preauthorization, formulars enthiction, Lacility and infrastructure for antibiotic treatment along with tracking and reporting mechanisms cunversion of intraversons (IV) antibiotics to oral dose, and consuleration of pharmacolimatics and pharmacodynamic for thus doings optimization.

Autimicrobial resistance (AMR) makin in complicated iditions, with prescription intervention for antihedic replacement. The severity intertime demants physician commitations, and it may make in death caused by the infections. The most emission types of AMR are observed in ultin infections, among tract infections (LIII).

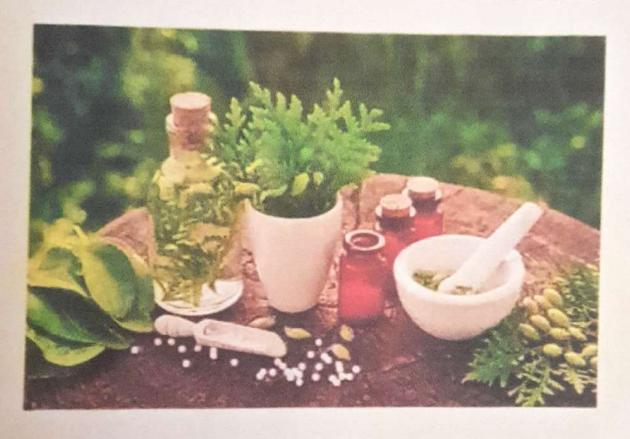
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## HERBAL MEDICINE A BENIGN AND CONVENTIONAL MEDICAL SYSTEM



Dr. SURESH KUMAR AGARWAL Dr ARUNA KUMARI NAKKELLA Dr SANDEEP ROUT

ISBN 978-93-5445-167-6



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#### Title of the Book Herbal Medicine - A Benign and Conventional Medical System

#### Pharmacologicalactivities of Lawsonia Inermis- A Review

#### Syeda Nishat Fathima

Jayamukhi College of Pharmacy, Narsampet, Warangal-506332, Telangana, India

#### Article Info

Article History

Received 20-12 2020 Revised : 29 - 12 - 2020

Accepted: 15-01-2021

#### Abstract:

Lawsonia inermis Linn, is a perennial herbal medicinal plant belonging to Lythraceae family grown as an ornamental and dye plant thorough India having various vernacular names such asMehndi in Hindi, Mehedi in Bengali, Rakigarbha in Sanskrit, Benjati in Odiya, Mailanchi in Malayalam, Muruthani in Tamil and Mayilanchi in Kannada. The plant is reported to contain Lacoumarin, Scopoletin, Laxanthone, Lawsone, Esculetin, Isoplumbagin, Betulinic acid, Betulin, Hennadiol, Lupeol, two pentacyclic triterpenes and flavone glycosides. Due to the presence of chemical components the plant has been reported diverse pharmacological properties. The current review emphases on pharmacological properties this plant.

Keywords: Lawsonia inermis, pharmacological properties,

review

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Regardless of current globalization and advancement in scientific research, still the traditional system of medicines is well-thought-out as a main health care approach in the resource-constrained health care settings. Currently, revitalization and renewed awareness on traditional/ contemporary medicinal plants have subsistedrecognized among the scientific community to maintain good health and alleviate ailments and diseases. World Health Organization has deliberated medicinal plants as the plant in which one or additional of its tissues/ organs contains constituent which can be employed for therapeutic intentions, or they may act as the originators for semi-synthesis of chemo-pharmaceutical. Around 500 plants with therapeuticvalue are cited in ancient literature and about 800 plants are utilized in indigenous systems of medicine India is a enormous repository of therapeutic plants that are utilized in conventional clinical treatments. The present review endeavours to overview up-to-date information on pharmacological properties of Lawsonia inermis [1-2]

275 Responsibility of contents of this paper rests upon the authors and not upon the Editor & Publisher.

## Current Research and Trends in Medical Science and Technology

(Volume - 1)

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#### Chapter - 1

#### An Update on Myocardial Infarction

Syeda Nishat Fathima

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#### Abstract

Myocardial infarction is described as a type of acute coronary syndrome caused by pathological event in the setting of myocardial ischemia with the marked cardiac insult and injury. The diagnosis is secured when there is a rise and/or fall of cardiac troponin levels along with supportive evidence in the form of typical symptoms, suggestive electrocardiographic changes, or imaging evidence of new loss of viable myocardium or new regional wall motion abnormality. The early rehabilitation for acute Myocardial infarction is directed towards reinstatement of perfusion as soon as possible to retrieve as much of the jeopardized myocardium as possible. This may be accomplished through medical or mechanical means, such as percutaneous coronary intervention, or coronary artery bypass graft surgery. The objectives of medical therapy for myocardial infarction are to decrease morbidity and to avert complications. The main targets of emergency department pharmacotherapy are rapid intravenous thrombolysis and/or rapid referral for percutaneous coronary intervention (PCI), optimization of oxygenation, reduction of cardiac workload, and pain control.

Keywords: Myocardial infarction; prognosis; cardiac biomarkers

#### Introduction

Myocardial infarction is particularly the utmost severe manifestation of coronary heart disease and it is a final outcome of either acute or chronic myocardial ischemia that results due to a mismatch in oxygen demand and oxygen supply. Myocardial infarction leads to myocardial injury or necrosis which is characterized by a rise in cardiac biomarkers, along with supporting clinical evidence conforming electrocardiogram changes, or imaging validation of new injury of viable myocardium or acute abnormality in regional wall motion [4]. The clinical manifestations of myocardial infarction include severe and sustained chest pain, often together with breathlessness, nausea, and sweating. Myocardial infarction causes ischemic attacks, angina,

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### ORGANIC FARMING

DR.G.HEMALATHA Associate Professor Jayamukhi College of Pharmacy

Moqdumpuram , Narsampet. (TELANGANA)

Organic farming can be defined as "an integrated farming system that strives for sustainability, the Organic farming can be defined as "an integrated talling systematic perfect the system of soil fertility and biological diversity while, with rare exceptions, barring synthetic pesticides, enrichment of soil fertility and biological diversity while, with rare exceptions, barring synthetic pesticides, enrichment of soil fertility and biological diversity while, with rare exceptions, barring synthetic pesticides, enrichment of soil fertility and biological diversity write, with the pesticides, and growth hormones". It is an agricultural antibiotics, synthetic fertilizers, genetically modified organisms, and growth hormones". It is an agricultural antibiotics, synthetic fertilizers, genetically modified organisms, and growth hormones. antibiotics, synthetic fertilizers, genetically modified organisms, and guickly altering farming practices. The method which originated early in the 20th century in reaction to quickly altering farming practices. The method which originated early in the 20th century in reaction by Sir Albert Howard, F.H. King, and others concept of organic agriculture be developed in the early 1900s by Sir Albert Howard, F.H. King, and others concept of organic agriculture be developed in the carry who assumed that the use of animal manures (often made into compost), cover crops, crop rotation, and biologically based pest controls resulted in a improved farming system.





Organic farming is agriculture that makes healthy food, healthy soils, healthy plants, and healthy environments precedence, along with crop productivity. Organic farmers use biological fertilizer inputs and managing practices such as cover cropping and crop rotation to progress soil quality and build organic soil matter. By increasing the amount of organic matter in the soil, organic farmers enhance the soil's ability to take up water, plummeting the impacts of drought and flooding. Improving soil organic matter also helps it to absorb and store carbon and other nutrients require for growing healthy crops, which, in turn, are better able to stand firm insects and diseases.

Organic production systems do not use genetically tailored (GM) seed, synthetic pesticides or fertilizers. Some of the essential characteristics of organic systems include propose and implementation of an organic system plan that describes the practices used in producing crops and livestock products; a thorough recordkeeping system that tracks all products from the field to point of sale; and preservation of buffer zones to prevent inadvertent contamination by synthetic farm chemicals from neighboring conventional fields.

❖ REASONS OF ORGANIC FARMING ARE ENCOURAGED THESE DAYS:

It has proven to use a lesser amount of energy (on average, about 30 percent less), is beneficial to soil, water and local habitation, and is safer for the people who crop our food. Eat more seasonally by encouraging your local farmers market while also supporting a global organic economy year round.

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Global Environmental Problems

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## MULTIDISCIPLINARY-SUBJECTS FOR RESEARCH VI (VOL-2)

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#### COMMUNITY PHARMACY PUBLIC HEALTH

#### DR.G. HEMALATHA Associate Professor,

Jayamukhi College of Pharmacy Moqdumpuram, Narsampet. (Telangana)

the patients with accuracy, care, and legality. A community pharmacy has suitable procurement, supply and documentation of medicines. It is an important subdivision of the pharmacy mession and involves a registered pharmacist with the skills, education and capability to be professional service to the community.

Community pharmacy, also called as retail pharmacy, is the most universal type of that allows the public access to their medications and counsel about their health.

The practice of pharmacy occurs or where prescription orders are compounded and dispensed other

tion a hospital pharmacy or a limited-service pharmacy.

Each country's definition of community pharmacy differs, even though most define it as a not of health care facility that provides specific services or with a given mission about drugs. These activities may be summarized or listed comprehensively. For example, community parmacies are defined in Spain as "private health establishments of public interest, subject to batch planning [...] which must provide [a series of services]" (79; article 1). In Serbia the meaning a health care facility where pharmaceutical care is provided at prime level" (37; article 100(1)); an France it is "an institution in charge of the dispensing of medicines in addition to other products mentioned in another article] as well as compounding" (26; article L5125-1).

#### \* TYPES OF COMMUNITY PHARMACIES:

independent pharmacies-These are independently owned, local pharmacies. A pharmacist (or a group of pharmacists) owns the pharmacy. Decisions are made at the store level. More concentration and time is spent on customer service. The majority of compounding is done in these.

- Chain pharmacies These are regional or national pharmacy chains. Corporations own and operate chain pharmacies. Decisions are taken at the corporate level. They dispense large quantities. Technicians and automation are profoundly used in chains. Examples comprise: Walmart , Walgreens, CVS and Kroger.
- Mass merchandiser pharmacies-These are regional or national, they could potentially
  offer noteworthy benefits to patients. The diversity of products sold by mass merchandiser
  stores affords patients a level of expediency unavailable at smaller retail pharmacies.
- Food Store Pharmacies- Regional or national food store chains with in-store pharmacies, include- Target, Vons. KMart, Costco, Walmart.

#### ▼ TYPES OF PHARMACIES:

here are several different types of pharmacies, where a skilled pharmacist may work. This

- · Hospital pharmacy
- · Community pharmacy
- · Clinical pharmacy
- Industrial pharmacy



Principal
Jayamukhi College of Pharmacy
Narsampet-506 332

Multidisciplinary Subjects for Research-vi VOL-2



# MULTIDISCIPLINARY SUBJECTS FOR RESEARCH

volume 2

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#### FORENSIC PHARMACY



#### DR.G. HEMALATHA

Associate Professor Jayamukhi College of Pharmacy Moqdumpuram, Narsampet. (Telangana)

Forensic pharmacy is appliance of the sciences of drugs to legal issues. Forensic pharmacists employ in work relating to, the regulatory process, litigation and the criminal justice system. Forensic pharmacy overlies with many other forensic fields.

The word "forensic" taken from the Latin word "forensis" pertaining to a forum. In ancient Rame the forum was a market place where people assembled, not just to buy things, but also to manage all kinds of business, together with that of public affairs. The denotation of "forensic" later

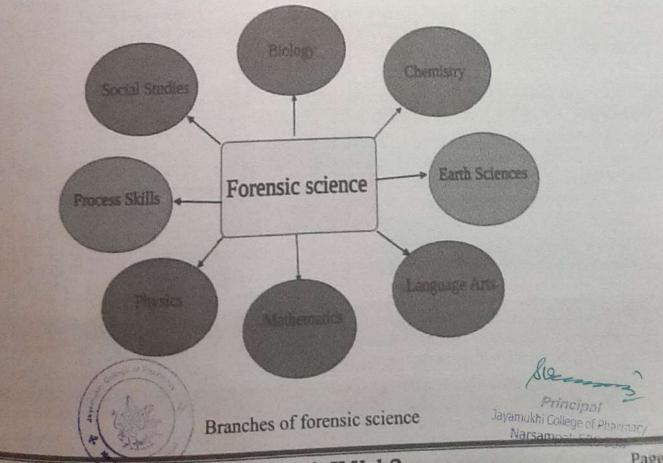
came to be limited to refer to the courts of law.

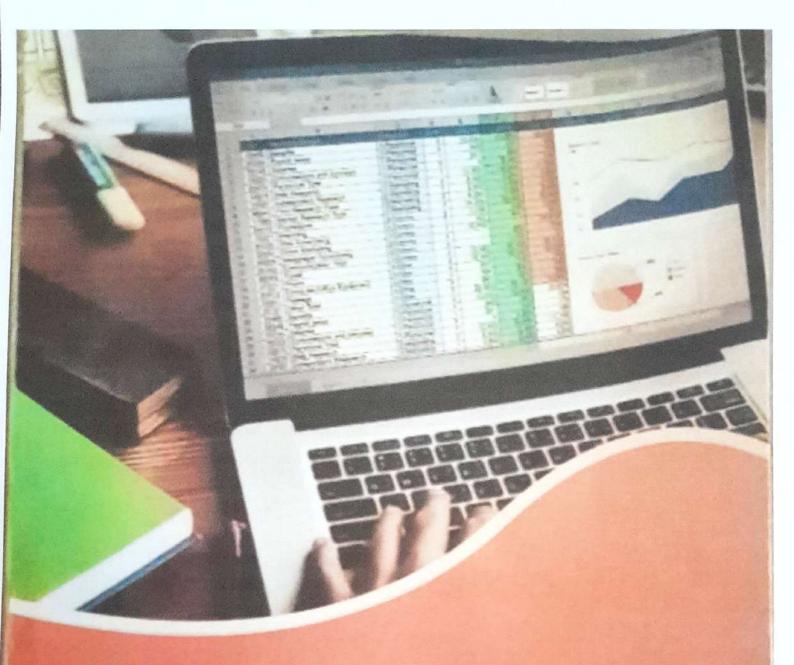
It is an extensive field. The domain of forensic pharmacy overlies with forensic medicine, forensic toxicology, forensic accounting, forensic psychology, fraud examination, forensic document examination, death investigation, forensic chemistry, forensic nursing, and calamity reconstruction. Issues relevant to forensic pharmacists include professional malpractice, drug diversion, impaired capacity, patient confidentiality, drug-induced violence, proper use of chemical restraints, adverse drug reactions (including drug interactions), drugged and drunk driving medication errors, quackery, product tampering and health care fraud, and poisoning.

Forensic Pharmacy deals with the application of scientific acquaintance to legal problems and legal proceedings. For example, in forensic Anthropology, , forensic experts, forensic medicine,

forensic dentistry etc.

#### The Branches of Forensic Science:





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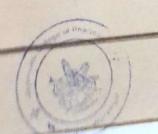
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#### SYSTEMATIC REVIEW ON PHYTOCHEMISTRY AND PHARMACOLOGICAL ACTIVITY OF GOMPHRENA GLOBOSA

#### DR. SYEDA NISHAT FATHIMA

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DR. S. VASUDEVA MURTHY

Assistant Professor Department of Pharmacology, Jayamukhi ( ollege of Pharmacy, Narsampet, Warangal (R) (Telangana)

& ABSTRACT:

Gossphrena globasa. commonly known as globe amaranth or Bachelor Button in Englishment globasa. commonly known as globe amaranth or Bachelor Button in Englishment belonging to the family American Gomphrena globasa, commonly known as a solible plant belonging to the family Americans makhmali in Hands and vadamalliin Sanikrit, is an edible plant belonging to the family Americans makhmali in Hinds, and vadamalliin Sanskrif. It are the management of oligaria, heat and entertained. The leavest and flowers are used in traditionally for the management of oligaria, heat and entertained. The leaves and flowers are used in traditionally for hypertension, kidney problems however, hypertension, automicrobial, conexidant cough diabetes, hypertension, tenroductors much however, hypertension automicrobial correspond comments of the same and the respiratory diseases, mainly as espectorant, reproductive problems or not sometimes and other respiratory diseases, mainly as espectorant, reproductive problems or not extends the properties and other respiratory diseases. The phyto chemical studies showed the permission for its significant extoroxic and extragenic activity. The phyto chemical studies showed the permission for the physical studies and extragenic activity. phenolic compounds knempfered 3-O-(6-rhamnaryl) hexaside plus knempfered-3-O-hexaside heing in phenolic compounds knemplered 3-O (n-manuscrip) flavones and flavonoids glycoside, gouphrend of main compounds upart from this it also contains flavones and flavonoids glycoside, gouphrend of betachments such as isogomphrenin III and gomphrenin III as major metabolites. Gomphrena plant here been screened for pharmacological activities and reported to possess unitenteer, analyperance nesse been screened for pharmacongram matters, anti-inflammatory, hypoglycomic, hypoglycomic, hypoglycomic, hypoglycomic, hypoglycomic, hypoglycomic, hypoglycomic, hypoglycomic, hypoglycomic, hypogl entimicronian central and perspection to the chemical constituents, pharmocological properties and uses of this plant

Keywords: Gomphrena globasa, pharmacological properties, chemical constituents

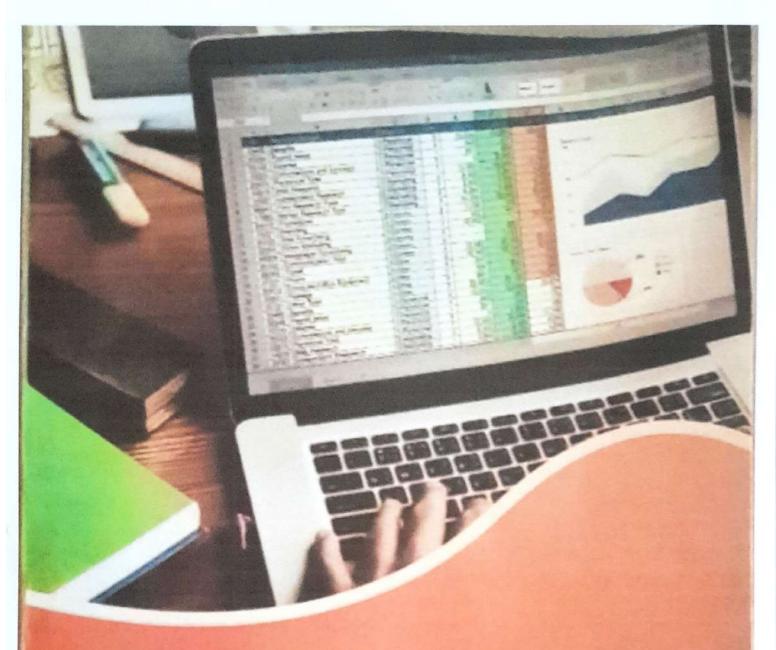
#### \* INTRODUCTION:

Regardless of current globalization and advancement in scientific research, still the trafficsystem of medicines is well-thought-out as a primary health care approach in the resource-correction bealth care settings Currently, revitalization and renewed awareness on traditional contemporary medicinal plants have been perceived among the scientific community to maintain good health as alleviate adments and diseases[1]. World Health Organization has deliberated medicinal plants in Se plant in which one or more of its tissues/ organs contains constituent which can be employed in therapeutic intentions, or they may act as the originators for semi-synthesis of chemo pharmeeners About 500 plants with medicinal use are mentioned in ancient literature and around 800 plants have been used in indigenous systems of medicine. India is a vast repository of medicinal plants that are used a traditional medical treatments [2]. The present review endeavours to overview up-to-date information in chemical constituents, pharmacological properties and uses of Gomphrena globosa

Taxonomy of Gomphrena globosa:

Domain Eukaryota Superkingdom Corticata Plantae Kingdom. Tracheobionta Subkingdom Streptophyta Infrak mydom Saperphy lum Embryophyta Phylam Tracheophyta

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#### DRUG ADDICTION

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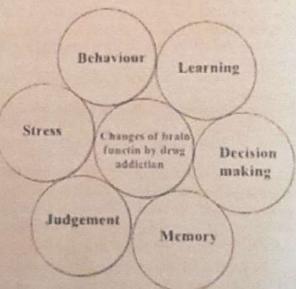
Moqdumpuram, Narsampet. (TELANGANA)

Addiction is a chronic disease characterized by drug seeking and use that is obsessive or date to control, despite detrimental consequences. The primary decision to take drugs is voluntary for the people, but frequent drug use can lead to brain changes that confront an addicted person's self-control interfere with their ability to resist strong urges to take drugs. These brain changes can be urrelease which is why drug addiction is measured a "relapsing" disease—people in revival from drug use decided are at augmented risk for returning to drug use even subsequent years of not taking the drug.

Drug Addiction is a psychological reliance and habit-forming of a person to particular advantage which will not be in voluntary control. The person suffers from withdrawal when the person does as to the drug which may turn into fatal, although the preliminary decision to take drugs is voluntary for an appeale; the brain changes that occur over time defy an addicted person's self-discipline. Addiction as a similar to other diseases, such as heart disease. Both disrupt the normal, healthy execution of an expension of the person of

The changes in the brain when person taking the drugs: Most drugs control the brain's free circuit," causing eastasy as well as flooding it with the chemical messenger dopamine. A purely functioning reward system motivates a person to resterate behaviors required to thrive, such as easy as spending time with cherubed ones. Surges of dopamine in the reward circuit cause the reinforcement pleasant but destructive behaviors like taking drugs, leading people to repeat the conduct again and the As a person continues to use drugs, the brain adapts by planmeting the ability of cells in the training to react to it. This reduces the high that the person feels compared to the high they left when the taking the drug—an effect known as tolerance. They may take more of the drug to try and accomplete same high. These brain adaptations frequently lead to the person becoming less and less able to force contentment from other things they once enjoyed, like food, sex, or social behavior.

Long-standing use causes changes in the brain chemical systems and circuits as well, affecting fine-



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Multidisciplinary Subjects for Research-III Vol-3



Vol. 3

## Multidisciplinary Subjects for Research-III

Edited by Dr. Dilip A. Ode, Mr. Jigeshkumar D. Chauhan, Srathi S.

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Jayamukhi College of Pharmacy

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## STATE OF THE PARTY OF THE PARTY

#### CANCER MANAGEMENT

#### **省。网络财石市**D在报

Authenst Professor Jayanoukhi Institute of Pharmaceutical Sciences. Mogdampuram, Narrampet (TELANGANA)

#### DELG. STEMALATRIA

Associate Professor Javamukhi College of Pharmacy Moqdumpuram, Narsampet. (TELANGANA)

Cancer or neoplasm is one of the most effected dreadful diseases at the world, it is a Cancer or receplasm is one of the most content of cells which form the tamor beat to uncontrolled or absorbed problems problems problems primary to the content of the cont by uscontrolled or abnormal growth or pronocession individually forms primary tomor tissue after that the camper cells undergo proliferation individually forms primary tomor to metastam ( tissue after that the camper cells undergo promotion and they devide to form metastam (see a lymphatic system, reaches to nearby organism and they devide to form metastam (see a lymphatic system, reaches to nearby organism means formation (neo = new, plasm = 1. bymphatic system, reaches to nearby organism means formation (neo = new plasm (see a Neoplasm is a Greek word neo means new plasm means formation. Global data estimated Neoplasm is a Greek word neo means new passes tradiction. Global data estimated the group of diseases caused by many agents carcinogens, radiation. Global data estimated that peoples may effect and 13.2 million deaths occur by the year of 2030 due to the cancer

#### \* CELL BIOLOGY OF CANCER

Our body made up of group of cells form tusue, organs hence the cell is fundamentally Our body made up of group of cells forcion, excretion, locomotion, reproduction to the functions of cell grow, development of body it performs many functions like organization of cell grow, development and described present inside the nucleus, it perform the functions of cell grow, development and described by cell to grow divide. When the cell divide make present made the mocleus, it perform the many divide. When the cell divide make call are damaged the genes instruct to cell to grow, divide. When the cell divide make call cells are demaged the genes sustrict to cen to give two cells divide in to four, then the two cells divide in to four, then the two silentical cells structurally, functionally, then the two cells divide in to four, then the two cells replaced by new cells two elemental cells structurally, functionary, the damaged cells replaced by new cells in the two eachs based on the requirement and all the damaged cells replaced by new cells in case en to eight based on the requirement and an the gene mutation interfere with the matructure of the mat

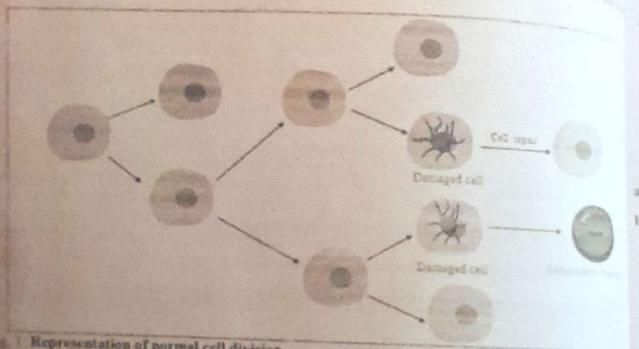


Fig. 1 Representation of normal cell division



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