

Formulation Development and In-Vitro Evaluation of **Deflazacort Fast Dissolving Tablets** Publication

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ABSTRACT

The aim of the current research to develop fast dissolving tablets (FDTs) of Deflazacort by direct compression method. Deflazacort goes under Biopharmaceutical Classification System(BCS) II drug i.e., less dissolvability and high vulnerability which brings about less bloavailability of drug. The target of the existing work is expected to develop FDTs by utilizing superdisintegrants. Procompression and postcompression parameters of FDTs were evaluated. Out of 6 formulations DF6 containing sodium starch glycolate as disintegrant shows highest drug release in 15min, which is considered as optimized formulation. Accelerated stability study indicates no variation in parameters.

Keywords: Deflazacort, FDTs, direct compression, BCS.

INTRODUCTION

The advances in novel drug delivery systems for designing dosage forms like orodispersible tablets[1,.2] for convenient to be manufactured and administered free side effects, offering immediate release and enhance bloavailability so as to achieve better patient compliance. Oral drug delivery systems preferably tablets are most widely used dosage forms for being compact offering uniform dose and painless delivery. But elderly and pediatric patients suffer in dysphasia because of physiological changes is associated with those groups[3,4]. Generally dysphasia is observed nearly 35% of population and associated with a number of conditions like parkinsonism, mental disabilities, motion sickness, unconsciousness, unavailability of water etc.. To overcome such problems certain innovative drug delivery system[5,6] like mouth dissolving tablets have been developed.

The concept of orodispersible tablets emerged from the desire to provide patient with conventional mean of taking their medication. It can be disintegrated, dissolved or suspended by saliva in the mouth resulting in easy swallowing can provide significant benefits to the pediatric and geriatric populations as well as other patients who prefer convenience of easily swallow able dosage form. Orodispersible tablets disintegrate instantaneously when placed on tongue, releasing the drug that dissolves or disperses in the suliva. The orally disintegrating tablets are also called as orodispersible tablets, quick disintegrating tablets, fast disintegrating tablets, porous tablets, rapimelts. The mouth dissolving tablets are absorbed from the mouth, pharynx and esophagus as saliva passes down into the stomach[7]. The solution containing active ingredients is absorbed through gastrointestinal epithelium to reach the target and produce desired effect. In these cases the bioavailability of drugs are significantly greater than those observed from conventional solid dosage forms such as tablets and capsules[8]. In the present study FDT of Deflazacontwere designed using direct compression method.

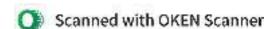
MATERIALS AND METHODS

Deflazacortwas received as a gift sample from Suzikem Labs Pvt Ltd., cherlapally, A.P, Magnesium stearate, tale, micro crystalline cellulose(MCC),and potassium dihydrogen-o-phosphate were procured from SD fine chem. Ltd Mumbai. Superdisintigrants are gifted from DFB Pharma.

Drug excipient studies:

The FTIRspetroscopy allows identification of functional groups in various chemicals as well as incompatibilities between the drug and excipients. From the FTIR spectroscopy study it can be concluded that the major peaks of drug remains intact and no interaction was found between the drug and excipients.

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Role of Insulin in Management of Type 2 Diabetes Mellitus - Review Article

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ABSTRACT

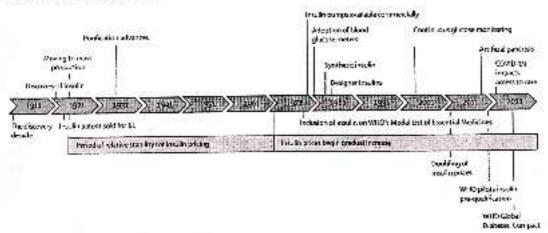
High blood sugar levels brought on by inadequate insulin synthesis are the hallmark of type 2 diabetes mellitus. Type 2 diabetes mellitus is becoming more common, and with it comes a rising amount of morbidity and mortality. Strict glycolic management plays a major role in lowering the micro vascular problems associated with diabetes. Even in individuals who take oral anti-diabetic medications on a regular basis, extra insulin therapy is still necessary. There are numerous insulin preparations on the market, and each offers benefits and drawbacks of its own. The purpose of developing the current insulin was to address some of the drawbacks of the earlier formulations. The function of insulin in the treatment of type 2 diabetes is discussed in this review.

INTRODUCTION

Human insulin is a synthetic form of the hormone that is produced in labs to mimic human insulin. It was developed in the 1960s and 1970s and was eventually licensed for medicinal use in 1982. Physicians used animal and porcine insulin prior to the development of human insulin. Diabetes mellitus is a chronic illness that affects many people worldwide. It is typified by a failure to maintainglycolic control and increasing beta cell loss. Diabetes burdens healthcare systems with both direct and indirect expenses and is a major source of morbidity and mortality. Insulin doses are needed fortreatment when multi-drug therapies and lifestyle changes are ineffective in lowering blood sugar levels.

History of Insulin

Dr. Teusches created the first human insulin synthetic in Switzerland in 1975. The US Food and Drug Administration authorized the first synthetic human insulin in 1982. A more sophisticated version of human insulin was created in the 1990s. Analogue insulin was the name given to this.



Pharmacological Action of Insulin

With a molecular weight of 6000 and 51 amino acids, insulin is a two-chain polypeptide. Insulin plays a key role in the treatment of type 1 diabetic patients with progressive beta cell insufficiency. Unlike other oral hypoglycemic medications that depend on the existence of enough endogenous insulin to function as insulin sensitizers, insulin secretagogues, incretion mimics, amylin analogues, and other factors, insulin acts directly on tissues to regulate glucose homeostasis. The anaholic action of insulin and the promotion of the uptake, utilization, and storage of important nutrients such as glucose, lipids, and

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Pulmonary Drug Delivery System: A Review

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Abstract

Growing attention has been given to the potential of pulmonary root as an alternative for noninvasive systemic delivery of therapeutic agents. Pulmonary drug delivery can be used as an alternative to oral delivery. The system can be best utilized for both local and systemic actions. Pulmonary Drug Delivery System (PDDS) is an important research area which impacts the treatment of Illness including asthma, chronic obstructive pulmonary disease (COPD) and various other diseases. Inhalation gives the most direct access to the drug target. This route can be used to deposit the drug to the target site at the high concentration reducing the amount of drug given to the patient and help in reducing systemic side effects and first pass metabolism. Generally, half of all pharmaceuticals are not soluble in water, but are soluble in lipid. As the lungs can absorb both water and oil into the tissue this is not a restriction of pulmonary delivery.

Keywords

Pulmonary Drug Delivery System, COPD, Systemic, Inhalation

INTRODUCTION

Pulmonary drug delivery systems (PDDS) have been used for decades to deliver drugs for treatment of respiratory disorders [1] as well as other disorders. The lungs provide a huge surface area of alveoli with rich capillary network which acts as an excellent absorbing surface for administration of drugs. Throughout the past several years, rapid onset of action and higher efficiency has been responsible for the success of pulmonary delivery system for symptomatic relief in treatment of asthma and chronic obstructive pulmonary disease (COPD). Research in the area of pulmonary drug delivery has gathered momentum in the last several years, with increased interest in using the lung as a means of delivering drugs systemically. Delivery of locally acting drugs directly to the site of action reduces the amount of dose needed to produce the pharmacological effect but now the lung has been

studied as a possible route to administer the treatment of systemic diseases, like diabetes mellitus. The site of deposition that is on central or peripheral airways and whether the distribution of the inhaled drug is uniform or non-uniform may play a vital role in an inhaled drug's effectiveness [2]. Pulmonary delivery of drugs has become an attractive target in the health care industry as the lung is capable of absorbing pharmaceuticals either for local deposition or for systemic delivery. Some pharmaceuticals are not soluble in water but are soluble in lipids. As the lung is able to absorb both water and oil into the tissue, this is not a limitation of pulmonary delivery. Targeted drug delivery to the lungs has evolved to be one of the most widely investigated systemic or local drug delivery approaches [3].



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PREPARATION AND EVALUCATION OF FAST DISINTEGRATION TABLETS OF POSACONAZOLE

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Posaconazole is a broad spectrum triazole antifungal agent with potent activity against various timgl, including yeast and moulds Clinical studies have demonstrated that the agent is efficacious as prophylaxis against inventive fungal infections inpatients at hedonist and may also useful in salvage therapy against invasive aspergillosis and mucomycosis However, the bioavailability Posaconazole following administration as oral suspension, which was the only formulation clinically available for many years variable negatively influenced several factors because many by the patients had sub therapeutic levels when the oral suspension was wed, evercome this limitation delayed release tablet was developed and is now available for clinical use. In addition, pharmacokinetic parameters following administration of the tablets were not Significantly affected by medication that increasing gastric motility, and the tablets could also be administrated without regard to food similar results have been found in patients at high risk for invasive fungal who have received.

KEYWORDS: Posaconazole, triazole, aspergiilosis, mucomycosis.

Posaconazole tablet formulation and appears to be well tolerated to date, although data regarding clinical efficacy are needed. Posaconazole is a triazole antifungal agent with a spectrum of activity that includes Candida and Crypmosocous specie and some endemic fungi. Posaconazole has received US Food and Drug Administration approval for the treatment of oropharyngeal, candidiasis including infections refractory to itraconazole and/or fluoromzole. It is also approved as prophylaxis for invasive Aspergillus and Candida infections in patients aged >13 years who are as high risk of developing these infections, in adult and adolescent hematopoietic stem cell transplant recipients with graft-wastushost disease, and in persons with hematologic malignancies and prolonged neutropenia due to chemotherapy, who are at high risk of developing these infections. Approval for additional indications is being sought. Limited official experience suggests efficacy for the treatment of infections due to Zygomyortes and as salvage therapy for patients. with invasive aspergillosis and enecidioido mycosis. Currently available only as an oral suspension, Posanomazole which has been well tolerated, requires administration with food or a nutritional supplement to assure adequate



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FORMULATION DEVELOPMENT AND IN-VITRO EVALUATION OF POSACONAZOLE LOADED TRANSFEROSOMES GEL

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ABSTRACT

The goal of the current research was to create Posaconazole (PSZ) transferosome gel that would be effective against fungal infections. The gel was created by thin film hydration method. A study of the interactions between cross and excipients was then conducted using the Fourier transform infrared (FTIR) spectroscopy method. The formulations were prepared and evaluated for measurement of pH, viscosity, spreadability, % entrapment efficiency, drug content estimation and in vitro diffusion study. Eight formulations were developed(PF1-PF8). In a Franc's diffusion cell, in vitro diffusion studies were carried out. The PF7 batch demonstrated the highest drug release after 24 hours. The developed formulation was stable, non irritant and provided sustained release over 24 hev.

KEYWORDS: Posaconazole, gel, FTIR, Franz's diffusion cell.

INTRODUCTION

Transfermal drug delivery systems (TDDS), also known as medicated adhesive patches applied to the skin to administer a precise done of medication via the skin and into the bloodstream, are dosage forms created to transport a therapeutically effective amount of drug across a patient's skin.[1] Since frequent medication intake is not required, transfermal treatment devices may create prolonged, steady, and controlled levels of drug in the plasma, enhancing putiera compliance.[4]

The perfect penetration booster diminishes the stratum corneum's barrier resistance in a reversible manner without endangering the skin. The ability to avoid issues with atomach irritation, pH, and emptying rate impacts; avoid hepatic first pass metabolism[3]; and increase the bioavailability of the drug is the safest and most commonly utilized penetration enhancer.

Posaconazole (PSZ) is a triazole antifungal drug of BCS Class-II medication with a high lipid solubility and low water solubility. Possconazole is an antifungal medication that comes in a variety of forms, including injections, oral suspensions, and delayedrelesse tablets. When taken orally, these formulations can cause patient incompliance,

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STABILITY INDICATING RP-HPLC METHOD DEVELOPMENT AND VALIDATION OF DAPTOMYCIN

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ABSTRACT: A simple, Accurate, precise method was developed for the estimation of the Daptomycin in Tablet doss form. The detection was carried out by using PDA detector at 223nm. Phenomenex IB-SIL C2 column was used for the stu as this yield peak of good shape. Buffers of different pH were tried. 3.4g/L NH4H2PO4 adjust PII to 3.1 ± 0.05 with H2PO4 v finally used because of the good symmetrical peaks. Injection volume used was 25µl . This has yielded peaks of good shi without any splitting. The flow rate was fixed at 0.9ml/min. This has cluted the drug around 37min.By using the method retention time of the Daptomycin was found to be 37.74min. System suitability conditions meet the recommend criterion.Linearity of the solution was demonstrated between 0.1506 mg/ml and 0.4519 mg/ml concentration range.Accura was demonstrated as reported. Recovery and % of RSD are within the recommended limits.Limit of detection value is 0.0000154mg/ml and limit of quantification is at 0.0000467mg/ml. Under forced degradation studies, the peak single pothreshold is always lower than purity index for Daptomycin peak and all degradant peaks were well resolved. Retention tin were decreased and run time was decreased, so the method developed was simple and economical that can be adopted regular Quality control test in Industries. Hence the method can be adopted as a stability indicating method...

Keywords: Quality control, Daptomycin, Recovery, Wavelength.

INTRODUCTION:

Pharmaceutical Analysis is that centre branch of drug store training and research, which is advancing speedy. It can arranged as union of new medications particles and pharmaceutical investigation. The liquid chromatographic techniques, proted arrange systems in perspective of balanced silica offers the most imperative probability of triumphs. In any case, recommoder of (structure) factors (parameters) impact the selectivity and the assurance. Trade legitimate methods : the prescription thing to diminish the cost and time. Then evaluate the best division condition from trial runs. In the separation condition, favour the procedure for release to routine research focus. Daptomycin arep both the medicine are freely soluble in methanol and practically insoluble in water Them and the plomycinisdistinct from that of any other antibiotic. Daptomycin binds to bacterial membranes and cau inbothgrowing and stationary phase ce

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RESEARCH ARTICLE

Evaluation of Antibacterial and Antioxidant potential of Melia. Azedarach linn. and Psidium guajava linn. Leaf extracts

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ABSTRACT:

The present study is intended to evaluate and analyze *in-vitro* antibacterial and antioxidative activities of leaf extracts of *Melia azedarach* Linn (*M. azedarach* L.) and *Psidium guajava* Linn (*P. guajava* L.). *In-vitro* antibacterial activity was measured using agar well diffusion assay against *Pseudomonas aeruginosa* and *Staphylococcus* aureus strains. *In-vitro* antioxidant activity was estimated using 2,2-diphenyl-1-picrylhydrazyl (DPPH) free radical scavenging method. Among both plants high minimum inhibitory concentration values are observed with *P. guajava* L. ethanol extract at 47.6µg/ml for *S. aureus and* 43.7µg/ml for *P. aeruginosa*, respectively. The results revealed that 20µg/ml ethanol extracts of *P. guajava* L. exhibited the highest radical % scavenging activity (76.24%) succeeded by methanol extracts (72.78%), respectively indicating they are effective solvents to extract phenolic compounds. We demonstrated that for both bacterial strains, ethanol followed by methanol extracts showed significant antibacterial activity in *P. guajava* L.in dose dependent manner indicating the presence of high flavonoids, tannins, and steroids. Our results revealed that both plants are vital reservoirs of phytochemicals with both antibacterial and antioxidant capacities.

KEYWORDS: Melia azedarach L., Psidium guajava L., Antioxidant activity, Antibacterial activity, In-vitro.

INTRODUCTION:

Inflammation is characterized by edema due to fluid accumulation, heat, and which leads to hyperalgesia and involved in production of fever during these infections. Current medicine, however, necessitates the separation and purification of the active compounds.

Natural products have been and remain to be exceptional sources of medicinal agents, which are templates for synthetic agents with the potential for treatments of various diseases and to develop new anti-inflammatory agents which could also be used to treat fever. Algesia, pyrexia and Inflammatory diseases being common with increase in prevalence, still have no proper treatment till today. Medicinal plants constitute one or more components for curing the life threating infections caused by pathogenic microorganisms.

An imbalance between antioxidants and reactive oxygen species results in oxidative stress induced cellular damage. It is linked to most of the diseases such as cancer, diabetes, ageing, atherosclerosis, ischemia

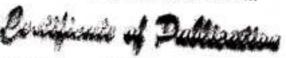


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FORMULATION AND EVALUATION OF POLY HERBAL HAND WASH

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ABSTRACT

The aim of the present study is to formulate and evaluate herbal band Rush get by Using extracts of Azadirachta indica (neem powder). Ocupamiteruliforum (Talkis) powder), Menthal punit powder), Sycyguna aromaticum (clove oil), Sapindus mikorossi (rithapowder), carbolpol 940 (getling agent), mellytic proben (preservative), Olycerin (suitening agent), distilled water, (vehicle), Turmeric (colorant) Rose oil) (peringue), Saponin Extract. To select the plant materials. To extract powders from plants by autorying introduce get particle receivable. To prepare berbal hand was get by using suitable agents. To evaluate horizobandorash get. Like cosmictor and obspectations (a cosmetic that has claimed medicinal properties) are topically applied for they have ingredictes that introgues the biological actions of skin. The WHO estimates that most of the population of Asian country prescribly use herbal medicine for the purpose of land hygiene includes preparation of hand washable presunctionary are guried out to formulate polyherbal hand wash get containing herbal extract which is the opposite according to skingle includes that that also for the purpose of original Hence it can be concluded that polyherbal and grash get are much better than the plant soaps of existing marketed hand wash the to their impredictal a and effectiveness to our skin of hands as well a suitable for all-type of skin.

Key Words:

Azadirachta indica, Ocimum temuiflorum , Montha, Syzygium aromaticum, Sapindus mukorossi, carbolpol 940, methyl Paraben.

FORMULATION AND EVALUATION OF POLYHERBAL HAND WASH

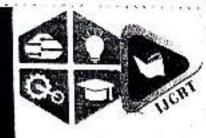
1. Introduction

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Hands are the major route of microbe and illness transfer, hand cleanliness is the most efficient way to prevent the apread of hazardous germs and diseases. In healthcare, hand cleanliness is the best and most effective, simplest, and affordable technique to prevent rosocomial infections. Contaminated hands can function as vectors for the spread of germs. Outbreaks are conveyed from one transmit to another when a food handler contaminates his or her bands andthen transfers these bacteria to customers via hand contact with food or drinks. The user is exposed after ingesting these germs, which might cause gustraintestinal disease. Microorganisms infiltrate the food supply when people handle ready-to-eat foods.

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ROLE OF LEUCOVORIN IN MONITORING HIGH DOSE OF METHOTREXATE IN B CELL-ACUTE LYMPHOBLASTIC LEUKEMIA (B-ALL) PATIENT – A CASE REPORT.

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ABSTRACT: Methotrexate is an anticancer drug belongs to antimetabolites class (folate antagonist). Methotrexate interferes with the growth of certain cells of the body, especially cells that reproduce quickly, such as cancer cells, bone marrow cells and skin cells. Methotrexate is taken only once a week or 2-4 times a week. High dose intravenous methotrexate is an important component of many effective chemotherapeutic regimens for childhood acute lymphoblastic leukemia (ALL). Leucovorin is a form of folic acid belongs to class of antidotes. It is used with methotrexate to avoid side effects. The dosage range of leucovorin is 5-500 mg and the effective dosage range in treating high dose methotrexate in B-ALL patient is 10mg-15mg/ml iv or oral every 6hours for 10 doses. A 4 years old male patient was admitted in general ward of oncology department in a tertiary care hospital. Hyderabad with chief complaints of cycle-2 high dose methotrexate. On examination, he had Temperature-98.4F, PR-70/min, BP-100/60mmHg, Spo2-98%. His lab investigation was Hb count-10.5gm%, WBC count-4950cells/cumm, Lymphocytes-45%. Earlier he was diagnosed with B-ALL, chromosomal analysis-Translocation of 1 and 3 chromosome and multiplication of long arm of chromosome and was on methotrexate medication. His 1" induction chemotherapy was started on 18/06/2022 and neutropenia-was recovered. Followed by consolidation phase on 20/07/2022 Post cycle BFM-2000 protocol-phase B on 30/08/2022, post BFM-2000 protocol-MC on 20/09/2022- high dose methotrexate cycle-1 Permacath insertion was done on 23/09/2022. He was admitted for BFM-2000 protocol-MC-High dose methotrexate cycle-2 on 12/10/2022. High dose methotrexate is managed by leucovorin 10mg/ml iv 6 hourly for 10 doses. Leucovorin works by protecting healthy cells from the effects of methotrexate and kills cancer cells.

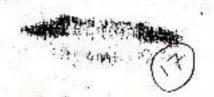
KEYWORDS: Methotrexate, Leucovorin, B-acute lymphoblastic leukemia (B-ALL).

INTRODUCTION: Acute lymphoblastic leukemia is a type of cancer of the blood and bone marrow that affects white blood cells. B-ALL is the most common type of leukemia in children of age in between 2-9 years and can also occur in elder adults. Acute lymphoblastic leukemia also known as acute lymphocytic leukemia B-ALL is caused by sequential alterations in proto-oncogenes, tumor-suppressor genes and micro-RNA genes of hematopoietic stem cells. Acute lymphoblastic leukemia is one of the first human cancers that responded well to chemotherapy in a series of innovative clinical trials conducted more than 4 decades ago.

CAUSES: Acute lymphoblastic leukemia occurs when a bone marrow cell develops mutations in its DNA. In ALL mutation takes place iri bone marrow cell leads to abnormal growing and dividing of cells. Due to this blood cell production becomes out of control. The bone marrow produces immature cells that develop into leukemic white blood cells called lymphoblasts. Combination of genetic and environmental factors develop ALL.

RISK FACTORS: Factors that may increase the risk of acute lymphocytic leukemin include- previous cancer treatment, exposure to radiation, genetic disorders (Down syndrome), smoking

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An observational study on the practice followed in India for dispensing antibiotics in community pharmacy

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ABSTRACT: India has one of the highest rates of antimicrobial resistance (AMR) Worklwide. Despite being prescription drugs, antibiotics are commonly available Over-the-counter (OTC) at. . retail or community pharmacies. We aimed to gain insight into the OTC sale of antibiotics at community pharmacy and to elucidate its underlying drivers. We conducted face-to-face, indepth interviews using convenience sampling with the pharmacists and informal dispenser from the community pharmacy in Telangana. The subjects received a questionnaire aimed to collect data on the practice followed in India for dispensing the antibiotics. Analysis revealed that antibiotics were often dispensed OTC for conditions e.g., fever, cold, and acute diarrhea, which are typically weral and self-limiting. In our suldy total 150 subjects were enrolled and we found that many pharmacy shops are handled and managed by other workers rather than the pharmacists the community pharmacy has developed much and growing their business. Many patients came to buy untibiotics without prescription for many reasons like cold, our infection, throat infections, diarrhea and fever. In our study the dispensing of antibiotic according to the demographic profile Mastly sold antibiotic is Azithromycin with the percentage of 13.33% and the least sold antibiotic is Cefadraxil with the percentage of 0.66%. We found that mostly dispensed antibiotics was for the age group between 18-5 and when comparing the gender Males (53%) and females (47%) are administrating the antihiotics.

INTRODUCTION

Antibiotics are medicines used to prevent and treat bacterial infections. An antibiotic is a type of antimicrobial substance active against bacteria. It is most important type of antibacterial agent for fighting bacterial infections, and antibiotics medications are widely used in the treatment and prevention of such infections. [1] They may either kill or inhibit the growth of bacteria. They act as Bactericidal and bacteriostatic. Antibiotics have been used since ancient times. The first Person to directly document and treat infections was John Parkinson (1567–1650). Antibiotics revolutionized medicine in the 20th century. Alexander Pleming (1881–1955) discovered modern day penicillin in 1928, the widespread use of which proved significantly beneficial during wartime [2]. However, the effectiveness and easy access to antibiotics have also leaded to their overuse and some bacteria have evolved resistance to them.

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A Case Report in Wallenberg syndrome

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Corresponding author: Nahid

Introduction-

Wallenberg syndrome is also known as lateral meduliary syndrome or the posterior inferior cerebellar artery syndrome. Wallenberg described the first case in 1895. This neurological disorder is associated with a variety of symptoms that occur as a result of damage to the lateral segment of the medulia posterior to the inferior olivary nucleus. It is the most typical posterior circulation ischemic stroke syndrome in clinical practice.

The primary pathology of Wallenberg syndrome is occlusion of the posterior inferior cerebellar artery (PICA) or one of its branches. The syndrome can also be due to occlusion of the vertebrai artery, or the inferior, middle, or superior medullary vessels. Anatomically the infarcted area in Wallenberg syndrome is supplied by the posterior inferior cerebellar artery (PICA). The majority of cases are caused by occlusion of the vertebral artery, which gives rise to the PICA and the anterior spinal artery before it joins with the opposite vertebral artery to form the basilar artery the most common mechanism of occlusion of the vertebral artery or PICA is atherothrombosis. (1)

The symptoms of Wallenberg syndrome vary depending on the cause and location of the brain damage trouble swallowing (dysphagia), Feeling hoarse, Dizziness, Nausea and vomiting, Rapid involuntary eye movements (nystagmus), Difficulty with balance and gait (walking), Problems with body temperature sensation, Lack of pain and temperature sensation on one side of the face and the other side of the body, Vertigo, Hiccups. Horner syndrome (2)

All patients with suspected Wallenberg Syndrome should receive immediate care and neuroimaging in order to exclude differential diagnoses and to screen for any contraindications to suggested stroke therapies. In most cases, patients are initially prescribed medication in order to combat chronic/long-lasting pain. In cases of ischemic stroke, blood-thinners such as heparin or warfarin can also be prescribed to lessen the blockage in the arteries that supply the lateral medulla

Treatment management in Wallenberg syndrome include Intravenous (IV) thrombolysis with IV tissue plasminogen activator (TPA) within 3 to 4 I/2 hours of the onset of the ischemic stroke with slightly different exclusion criteria., General medical therapy, IV fluid, blood pressure management⁽¹⁾. A feeding tube may be necessary if swallowing is very difficult. Speech/swallowing therapy may be beneficial. ⁽³⁾

CASE REPORT-

A 35 year old male patient got admitted in a tertiary care hospital with the complaints of Giddiness since 02 days, Dysphagia, Not able to stand, Slurring of speech, difficulty in

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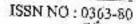
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To assess clinical presentation, angiographic profile, and treatment outcome of acute myocardial infarction patients

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Abstract: aim & objective: To assess clinical presentation, angiographic profile, and treatment outcome of acute myocardial infarction patients admitted into cardiology department, King George Hospital.

Method: It is a hospital based prospective study, and the data was collected from the in-patients of Cardiology ward, with myocardial infarction who satisfied the inclusion criteria. Patient's demographic data, clinical data was collected from patient's case sheet; personal interview with subjects and 2D echocardiograph, angiographic data was collected from the cardiology department and was conducted for period of six months of sample size of about 64.

Results: The study among the 64 patients most of the persons were males 46 (71.8%) and 18 (28.1%) were females, finally we observed that, the prevalence of myocardial infarction & acute myocardial infarction is more in males 46 (71%). Most of the persons were reported with IWMI 26 (40%). Among the 64 patients, smokers were 17 (26.5%), persons on alcoholic were 11 (17.1%), and persons with both habits (alcohol and smoking) were 19 (29.6%), We found that, most of the persons were reported with both habits 17 (26.5%), we observed that, the persons reported to the hospital were mostly suffering with co morbidities. Among the 64 patients, hypertension is more prevalent in most of the patients 32 (50%) and found that, regional wall motion abnormality of LAD territory 22 (34.3%) is more dominant in most of the patients. The ejection fraction of <55% patients 43 (67.1%) were more dominant, patients diagnosed with different age groups along with altered ejection fractions 7 (10,9%) patients were between the age group (31-40) diagnosed with ejection fraction



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STUDY OF INCIDENCE OF MALARIA, DENGUE AND CHIKUNGUNYA FEVERS AMONG FEBRILE PATIENTS VISITING TERTIARY CARE HOSPITAL (KING GEORGE HOSPITAL) IN VISAKHAPATNAM

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ARTICLE INFO

ABSTRACT

Key words: Malaria, Dengue, chikungunya.



Aim & objective: Study of incidence of malaria, Dengue and Chikungunya fevers among febrile patients visiting tertiary care hospital (King George hospital) in Visakhapatnam

Method: The study is conducted in-patients visiting King George Hospital, which is a Government General Hospital located in Visakhapatriam, Andhra Pradesh, India. The hospital with 1237 bods serving the needs of north coastal Andhra Pradesh and adjacent Orissa for more than 150 years. Patients presenting to the health centre with some signs and symptoms compatible with the diagnosis of malaria, dengue and chikungunya (fever which can be recent or in evidence during the previous 2-4 days or/and other symptoms of febrile diseases such as chills, headache, joint, muscle and body pains).100 febrile patients shall be selected randomly at the age group of 13-60 years. Patients shall also be selected on the basis of febrile and other symptoms such as chills, headache, joint, and muscle and body pains

Results and Conclusion: Age wise Distribution of Malaria, Dengue and Chikungunya, number of patients n=100 were taken, total n=72 patients were positive for Malaria, n=24 patients were positive for Dengue and n=4 patients were Chikungunya. With the Mean of 10.6 and Standard Deviation are 6.1. From the age group of "36 to 50" years n=28 number of patients positive for both males and females, form this total n=12 positive for malaria with the percentage of 16.6% and Females were n=16 with the percentage of 22.2% From the age group 51 to 65" years n=8 number of patients positive for malaria in both males and females, from this total the male patients were n=4 positive for malaria with the percentage of 5.6%. The age wise description of Dengue a total "n=24"number of patients are positive for Dengue in both males and females. From the total n=16 number of male patients which are positive for Dengue with the percentage of 66.6% with the Mean of 5,3 and Standard Deviation is 4.7 females were n=8 number of patients with the percentage of 33:3% and in the Mean of 11.1 with Standard Deviation is 2:4. The age wise description of Chikungunya fever of different age groups a total "n=4"number

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FORMULATION AND EVALUATION OF POLY HERBAL HAND WASH

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ABSTRACT

The aim of the present study is to formulate and evaluate herbal hand wash gel by Using extracts of Azadirachta indica (neem powder), Ocimum tenuiflorum (Tulasi powder), Mentha (mint powder), Syzygium aromaticum (clove oil), Sapindus mukorossi (rithapowder), carbolpol 940 (gelling agent), methyl Paraben (preservative), Glycerin (softening agent), distilled water, (vehicle), Turmeric (colorant), Rose oil (pertume). Saponin Extract. To select the plant materials. To extract powders from plants by air drying method to get particle free extract (To prepare herbal hand was gel by using suitable agents. To evaluate herbal hand wash gel. Like cosmetics and cosmecutials (a cosmetic that has claimed medicinal properties) are topically applied but they have ingredients that influences the biological actions of skin. The WHO estimates that most of the population of Asian country presently use herbal medicine for the purpose of hand hygiene includes preparation of hand wash after present study was carried out to formulate polyherbal hand wash gel containing herbal extract which is used not only for the purpose of cleaning hands but also for the prevention of bacterial growth. Its composition was prepared according to their delicateness so that it cannot cause any type of irritation. Hence it can be concluded that polyherbal hand wash gel are much better than the plain soaps or existing marketed hand wash due to their ingredient's and effectiveness on our skin of hands as well a suitable for all type of skin.

Key Words:

Azadirachta indica, Ocimum tenuiflorum, Mentha, Syzygium aromaticum, Sapindus mukorossi, carbolpol 940, methyl Paraben.

FORMULATION AND EVALUATION OF POLYHERBAL HAND WASH

1. Introduction

• Hands are the major route of microbe and illness transfer; hand cleanliness is the most efficient way to prevent the spread of hazardous germs and diseases. In healthcare, hand cleanliness is the best and most effective, simplest, and affordable technique to prevent nosocomial infections. Contaminated hands can function as vectors for the spread of germs. Outbreaks are conveyed fromone human to another when a food handler contaminates his or her hands andthen transfers these bacteria to customers via hand contact with food or drinks. The user is exposed after ingesting these germs, which might cause gastrointestinal disease.
Microorganisms infiltrate the food supply when people handle ready-to-eat foods.



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STABILITY INDICATING RP-HPLC METHOD DEVELOPMENT AND VALIDATION OF DAPTOMYCIN

Dr.Namratha Sunkara*1, Kabita Banik 2, ,P.Twila Pushpa3,B.Swathi4,Azka Fathima5

¹Bharat Institute of Technology, Mangalpally, Ibrahimpatnam, Rangareddy Telangana India

ABSTRACT: A simple, Accurate, precise method was developed for the estimation of the Daptomycin in Tablet dosage form. The detection was carried out by using PDA detector at 223nm. Phenomenex IB-SIL C₈ column was used for the stude as this yield peak of good shape. Buffers of different pH were tried. 3.4g/L NH₄H₂PO₄ adjust PH to 3.1 ± 0.05 with H₃PO₄ we finally used because of the good symmetrical peaks. Injection volume used was 25µl. This has yielded peaks of good shap without any splitting. The flow rate was fixed at 0.9ml/min. This has eluted the drug around 37min. By using the method the retention time of the Daptomycin was found to be 37.74min. System suitability_conditions meet the recommendate criterion. Linearity of the solution was demonstrated between 0.1506 mg/ml and 0.4519 mg/ml concentration range. Accurate was demonstrated as reported. Recovery and % of RSD are within the recommended limits. Limit of detection value is 0.0000154mg/ml and limit of quantification is at 0.0000467mg/ml. Under forced degradation studies, the peak single point threshold is always lower than purity index for Daptomycin peak and all degradant peaks were well resolved. Retention time were decreased and run time was decreased, so the method developed was simple and economical that can be adopted regular Quality control test inIndustries. Hence the method can be adopted as a stability indicating method.

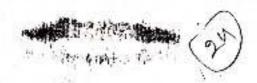
Keywords: Quality control, Daptomycin, Recovery, Wavelength.

INTRODUCTION:

Pharmaceutical Analysis is that centre branch of drug store training and research, which is advancing speedy. It can arranged as union of new medications particles and pharmaceutical investigation. The liquid chromatographic techniques, to provide arrange systems in perspective of balanced silica offers the most imperative probability of triumphs. In any case, occurring number of (structure) factors (parameters) impact the selectivity and the assurance. Trade legitimate methods and the for the prescription thing to diminish the cost and time. Then evaluate the best division condition from trial runs. In the procedure of the prescription that condition, favour the procedure for release to routine research focus. Daptomycin are yethor to the faptomycinisdistinctfromthatofanyotherantibiotic. Daptomycin bindstobacterialmembranesandcau arapiddepolarisation to the faptomycinisdistinctfromthatofanyotherantibiotic. Daptomycin bindstobacterialmembranesandcau inbothgrowing and stationary phasece

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ISSN NO: 0363-8057

An observational study on the practice followed in India for dispensing antibiotics in community pharmacy

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Corresponding author: Nahid

ABSTRACT: India has one of the highest rates of antimicrobial resistance (AMR) Worldwide. Despite being prescription drugs, autibiotics are commonly available Over-the-counter (OTC) at retall or community pharmacies. We aimed to gain insight into the OTC sale of antibiotics alecommunity pharmacy and to elucidate its underlying drivers. We conducted face-to-face, indepth interviews using convenience sampling with the pharmacists and informal dispenser from the community pharmacy in Telangana. The subjects received a questionnaire aimed to collect data on the practice followed in India for dispensing the antibiotics. Analysis revealed that antibiotics were often dispensed OTC for conditions e.g., fever, cold, and acute diarrhea, which are typically viral and self-limiting. In our study total 150 subjects were enrolled and we found that many pharmacy shops are handled and managed by other workers rather than the pharmacists the community pharmacy has developed much and growing their business. Many patients came to buy antibiotics without prescription for many reasons like cold, ear infection, throat infections, diarrhea and fever. In our study the dispensing of antibiotic according to the demographic profile Mostly sold antibiotic is Azithromycia with the percentage of 13.33% and the least sold antibiotic is Cefadroxil with the percentage of 0.66%. We found that mostly dispensed antibiotics was for the age group between 18-5 and when comparing the gender Males (53%) and females (47%) are administrating the antibiotics.

INTRODUCTION

Antibiotics are medicines used to prevent and treat bacterial infections. An antibiotic is a type of antimicrobial substance active against bacteria. It is most important type of antibacterial agent for fighting bacterial infections, and antibiotics medications are widely used in the treatment and prevention of such infections. [1] They may either kill or inhibit the growth of bacteria. They act as Bactericidal and bacteriostatic. Antibiotics have been used since ancient times. The first Person to directly document and treat infections was John Parkinson (1567–1650). Antibiotics revolutionized medicine in the 20th century. Alexander Fleming (1881–1955) discovered modern day penicillin in 1928, the widespread use of which proved significantly beneficial during wartime [2]. However, the effectiveness and easy access to antibiotics have also leaded to their overuse and some bacteria have evolved resistance to them.

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A Case Report in Wallenberg syndrome

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Introduction-

Wallenberg syndrome is also known as lateral medullary syndrome or the posterior inferior cerebellar artery syndrome. Wallenberg described the first case in 1895. This neurological disorder is associated with a variety of symptoms that occur as a result of damage to the lateral segment of the medulla posterior to the inferior olivary nucleus. It is the most typical posterior circulation ischemic stroke syndrome in clinical practice.

The primary pathology of Wallenberg syndrome is occlusion of the posterior inferior cerebellar artery (PICA) or one of its branches. The syndrome can also be due to occlusion of the vertebral artery, or the inferior, middle, or superior medullary vessels. Anatomically the infarcted area in Wallenberg syndrome is supplied by the posterior inferior cerebellar artery (PICA). The majority of cases are caused by occlusion of the vertebral artery, which gives rise to the PICA and the anterior spinal artery before it joins with the opposite vertebral artery to form the basilar artery the most common mechanism of occlusion of the vertebral artery or PICA is atherothrombosis. (1)

The symptoms of Wallenberg syndrome vary depending on the cause and location of the brain damage trouble swallowing (dysphagia), Feeling hoarse, Dizziness, Nausea and vomiting, Rapid involuntary eye movements (nystagmus), Difficulty with balance and gait (walking), Problems with body temperature sensation, Lack of pain and temperature sensation on one side of the face and the other side of the body, Vertigo, Hiccups. Horner syndrome (2)

All patients with suspected Wallenberg Syndrome should receive immediate care and neuroimaging in order to exclude differential diagnoses and to screen for any contraindications to suggested stroke therapies. In most cases, patients are initially prescribed medication in order to combat chronic/long-lasting pain. In cases of ischemic stroke, blood-thinners such as heparin or warfarin can also be prescribed to lessen the blockage in the arteries that supply the lateral medulla

Treatment management in Wallenberg syndrome include Intravenous (IV) thrombolysis with IV tissue plasminogen activator (TPA) within 3 to 4 1/2 hours of the onset of the ischemic stroke with slightly different exclusion criteria., General medical therapy, IV fluid, blood pressure management⁽¹⁾. A feeding tube may be necessary if swallowing is very difficult. Speech/swallowing therapy may be beneficial. (3)

CASE REPORT-

A 35 year old male patient got admitted in a tertiary care hospital with the complaints of Giddiness since 02 days, Dysphagia, Not able to stand, Slurring of speech, difficulty in

PAGE NO





ACTA SCIENTIFIC PHARMACEUTICAL SCIENCES (ISSN: 2581-5423)

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Research Article



Formulation and Evaluation of Clarithromycin Enteric Coated Microcapsules Using 22 - Full Factorial Designs

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Abstract

The purpose of the research was to develop and evaluate Clarithromycin loaded, Cellulose acetate phthalate (CAP) enteric coated, controlled release microcapsules where talk is used as an anti aggrading agent. Clarithromycin degrades rapidly at normal gastric pH (1.0-2.0) and remains stable at intestinal pH at 7.4-10 and shows rapid first-pass hepatic metabolism. In order to improve the bioavailability and reduce the gastric degradation, enteric coating microencapsulation was prepared. Clarithromycin microcapsules were formulated by solvent evaporation technique while using 22 factorial designs. A 22 full factorial designs was used to derive a statistical equation, ANOVA analysis, contour plots, and 3D response surface plots. Different polymer and anti aggregating agent ratios of CAP and talc were used to formulate five formulations (F1 to F5) of microcapsules. The relationship between dependent variables (Percentage drug release, drug entrapment efficiency, angle of repose) and independent variables (CAP and Talc) has been established by regression analysis and ANOVA.

The optimized formulations F2 exhibited high drug entrapment efficiency of 94.90 ± 0.02%, Angle of repose of % drug release of 71.51 ± 0.04% at 10 hrs. Microcapsules showed drug release by diffusion in the hydrated matrix and polymer relaxation as a controlled release mechanism.

Keywords: Clarithromycin; Enteric Coated Microencapsulation; Solvent Evaporation Technique; Cellulose Acetate Phthalate (CAP); Factorial Design

Introduction

Clarithromycin is a macrolide antibiotic used to treat pharyngitis, tonsillitis, acute maxillary sinusitis, acute bacterial exacerbation of chronic bronchitis, pneumonia (especially atypical pneumonias associated with Chlamydia pneumoniae or TWAR), skin and skin structure infections. In addition, it is sometimes used to treat Legionellosis [1], Helicobacter pylori, and lyme disease.

Clarithromycin prevents bacteria from growing by interfering with their protein synthesis. Clarithromycin binds to the subunit 50S of the bacterial ribosome and thus inhibits the translation of peptides. Clarithromycin has similar antimicrobial spectrum as erythromycin but is more effective against certain gram-negative bacteria, particularly [2] Legionella pneumophila.

Citation: Kabita Banik, et al. "Formulation and Evaluation of Clarithromycin Enteric Coated Microcapsules Using 2º - Full Factorial Designs". Acta Scientific Pharmaceutical Sciences 6.7 (2022): 42-53.



Dor Namvotha Sinkare

Chapter 6

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Quantitative Estimation Preservative Paraben and Niolone 950 Content in Herbal Skin Unguent

Kabita Banik **, Namratha Sunkara **, P. Twila Pushpa aff and Nahid aff

DOI: 10.9734/bpi/rpst/v3/17595D

ABSTRACT

A new analytical method was developed and validated for the quantitative estimation of the preservatives, such as Paraben, by High-Performance Liquid Chromatography (HPLC) and Neolone 950 by High- Performance Thin Layer Chromatography (HPTLC), in dematological unguent [1]. Skin creams typically contain a number of ingredients, including preservatives. The primary reason for including preservatives as antimicrobial additives in skin cream formulations is to protect consumer health and safety. Preservatives are frequently used in multicomponent mixtures to broaden the spectrum of antimicrobial properties. 1. Cosmetic product ingredients are labelled in accordance with (European Union) EU legislation. We developed a quantitative method for estimating the preservative concentration in herbal skin cream. The methods described above are based on High-Performance Liquid Chromatography (HPLC) analysis and UV spectroscopy, and they are carried out under various conditions. With minimal sample preparation, the suggested method was applied successfully to the assay of methyl paraben, propyl paraben, and neolone 950 in cosmetic products [2].

Keywords: Herbel cosmetics; paraben; preservative; HPLC; HPTLC,

1. INTRODUCTION

Cream is a semi-solid emulsion composed of oil and water in the presence of an emulsifying agent [1]. They are divided into two types: oil-in-water (O/W) creams which are composed of small droplets of oil dispersed in a continuous phase, and water-in-oil (W/O) creams which are composed of small droplets of water dispersed in a continuous oily phase. Oil-in-water creams are more comfortable and cosmetically acceptable as they are less greasy and more easily washed off

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Simultaneous Estimation of Telmisartan and Azelnidipine by RP- HPLC

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*Author for correspondence
Dr.Namratha Sunkara,
PROFESSOR

Hyderabad

ABSTRACT: In the present work new has been developed and validated for the present drug release of Telmisartan and Azelnidipinein bulk and tablet dosage form. New method was established for simultaneous estimation of Azelnidipine and Telmisartan by RP-HPLC methods. The chromatographic conditions were successfully developed for the separation of Azelnidipine and Telmisortan by using Inertail ODSC18 column (4.6×250mm)5µ, flow rate was Ind/min, mobile phase ratio was (70:30 v/v) ACN: KH2PO4 ph 3, detection wavelength WAR 225nm. instrument used for HPLC. WATERS HPLC Auto Sampler, Separation module 2695, photo diode array detector 996, Empower-software version-2. The retention times were found to be 2.798 mins and 3.587 mins. The % purity of Azelnidipine and Telmisartan was found to be 99.87% and 100.27% respectively. The system suitability parameters for Azelnidipine and Telmisartan such as theoretical plates and tailing factor were found to be 4260, 1.2 and 5085 and 1.2, the resolution was found to be 7.67. The analytical method was validated according to ICH guidelines (ICH, Q2 (R1)). The linearity study of Azelnidipine and Telmisarian was found in concentration range of 50µg-750µg and 15µg-55µg and correlation coefficient (t') was found to be 0.999 and 0.999, % recovery was found to be 98.56% and 99.96%, %RSD for repeatability was 1.2, % RSD for intermediate precision was 1.9. The precision study was precision, robustness and repeatability. LOD value was 3.72 and 0.0242 and LOQ value was 7.40 and 0.0202 respectively. Hence the suggested RP-HPLC can be used for routine analysis of Azebidipine and Telmisartan in API and Pharmaceutical dosage form.

Date of Submission: 08-06-2023

Date of acceptance: 21-06-2023

I. INTRODUCTION:

HIGH PRESSURE LIQUID CHROMATOGRAPHY

High Performance Liquid Chromatography (HPLC) is a process of separating components in a liquid mixture. A liquid sample is injected into a stream of solvent (mobile phase) flowing through a column packed with a separation medium (stationary phase). Sample components separate from one another by a process of differential migration as they flow through the column.

II. MATERIALS AND METHOD:

Preparation of phosphute buffer:

3.4gm of potassium dihydrogen ortho phosphate is taken in 1000ml of hiple water pH was adjusted with 0.1M NAOH up to 3.0 final solution was filtered through 0.45 µ m Membrane filter and sonicate it for 10 min

TELMISARTAN AND AZELNIDIPINE:

Preparation of sample solution:

Accurately weigh and transfer the equivalent weight of 40 mg of Telmisartan and 8 mg of Azolaidipine Tablet powder into a 10 ml clean dry volumetric flask add about 7 mL of Dituent and sonicate to dissolve it completely and make volume up to the mark with the same solvent. (Stock solution)

Further pipette 0.75 ml of the above stock solutions into a 10ml volumetric flusk and dilute up to the mark with diluent.

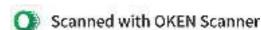
Preparation of standard solution :

Accurately weigh and transfer 40 mg of Telmisartan and 8 mg of Azelnidipine working standard into a 10 miletean dry volumetric flask add about 7 mL of Diluent and sonicate to dissolve it completely and make volume up to the mark with the same solvent. (Stock solution)

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A Novel Approach to Develop Tramadol Hydrochloride Transdermal Films with Complete In-Vitro Evaluation

KABITA BANIK¹, DR. NAMRATHA², TWILA², K HARIKA¢ ^{1,2,3,4} Bharat Institute of Technology, Hyderabod, Telengana.

Abstract—The oral route is now the most prevalent method of medication administration. While it has the benefit of being simple to administer, it also has substantial disadvantages, including bioavailability due to hepatic metabolism and the propensity to cause fast blood level spikes, necessitating high and/or frequent doses, which may he expensive and inconventent. In this study, hydroxypropyt methyl cellulose 6 sps (HPMC 6 cps) and othyl cellulase are used as release-controlling polymers to create a matrix type transdermal drug delivery system for the analgesic medication tramadot IFCI for its systemic delivery. This new drug delivery systems has increased the therapeutic efflency and safety of pharmaceuticals by allowing for more accurate, site-specific delivery system, it allows temporal placement inside the hody, resulting in smaller dosages consumption,

Indexed Terms— Transdermal films, Hydroxypropyi methyl cellulose, Ethylcothuinse polymer, Transadol HO

INTRODUCTION

Transdermal medication delivery refers to the imprement of a medicinal substance via the dermis of the skin for later systemic distribution. Therefore, properly speaking, this includes both traditional subcutaneous administrations with a hypodermic needle and syringe as well as the better recognised "patch." By this wide definition, the medication itiust enter the body through an artificial pathway, which is a feature of all transdormal strug delivery techniques. The key benefit of this method is that the medicine enters the body undisturbed and bypusses the body's different defence mechanisms[1]. The transdermal route of medication administration, while less convenient than oral administration (such as eating a tables), avoids both drug breakdown in the

gastrointestinal system and lower effectiveness due to first-pass metaholism (i.e. in the liver). Additionally, oral-specific adverse offects like liver damage -common with medications like estradiol (pestrogen) or paracetamol- -arc avoided. [2]

Conventional patching techniques

Despite the fact that infusion pumps are dependable in providing the desired therapeutic administration profile, using one (such as an insulin pump) is rather difficult, expensive, and necessitates a hypodermic needle-based infusion set [2]. Drug administration using transdermal patches, where the medication diffuses through the skin, is far more practical while still providing the advantages of continuous drug release [3]. Depending on the patch size, the mediestions now used topically range in molecular weight from 162 De (for nicotine) to 357 De (for oxybutynin), with a restlistic dosing rate of 4-20 ing/day. The mass of an insulin molecule is 5808 Da, but the molecular weight of contemporary DNA -based vaccines, which are composed of vectors with thousands of hase pairs, may range from hundreds to thousands of kito Daltons (kDa) [4-5].

MATERIALS AND METHODS

All the materials used in formulation, evaluation and other experiments are listed below. Distilled water is used in all experiments.

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Table 1: List of materials used

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REVIEW ARTICLE ON ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY

Dr.Namratha Sunkara ¹ G.Anvitha ² G. Yamini ³ G.Deepika ⁴ G.Indupriya ⁵ G.Srikanth ⁴ Bharut Institute of Technology, Mangalpally, Hyderabad, 501510.

Corresponding author: Dr. Namratha sunkara,

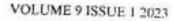
ABSTRACT:

UPLC is a modern technique which gives a new direction for liquid chromatography. UPLC refers to ultra performance liquid chromatography, which enhance mainly in three areas: "speed, resolution and sensitivity. Ultra performance liquid chromatography (UPLC) applicable for particle less than 2µm in diameter to acquire better resolution, speed, and sensitivity compared with high-performance liquid chromatography (HPLC). In twenty first centenary pharmaceutical industries are focusing for new ways to in economy and shorten time for development of drugs. UPLC analysis at the mean time gives the better quality of their products and analytical laboratories are not exception in this trend. The separation and quantification in UPLC is done under very high pressure (up to 100M Pa). As compare to HPLC, under high pressure it is observed that not any negative influence on analytical column and also other components like time and solvent consumption is less in UPLC

Introduction:

Ultra performance liquid chromatography systems take advantage of technological pace in particle chemistry performance, system optimization, detector design and data processing. When taken together, these achievements have created an improvement in chromatographic performance. UPLC retains the practicality and principles of HPi.C and along with that increases the overall interrelated attributes of speed, sensitivity and resolution. Speed allows a greater number of analyses to be performed in a shorter amount of time thereby increasing sample throughput and lab productivity. Faster analysis and hence called as ultra performance liquid chromatography, achieves both higher sample analysis throughput and better assay sensitivity. Analysis of operation cost and sample throughput UPLC cost advantageous over HPLC.1 The factor responsible for the development of UPLC technique was evolution of packing materials used to effect the separation. The principles behind this evolution are governed by the van Dee meter equation that describes the relationship between linear velocity and plate height.

According to the van Doc meter equation, decrease in particle size increases the efficiency of separations while on other hand efficiency diminishes and peak capacity can be extended to new limits, termed ultra performance liquid chromatography (UPLC). This technology takes full advantage of chromatographic principles to run separations using columns packed with smaller particles and/or higher flow rates for incremed speed, with superior resolution and sensitivity. I The use of non-porous particles, however, has been limited in the pharmaceutical industry due to their low sample loading capacity. The Milford, Massachusetts based company Waters Corporation introduced ACQUITY UPLC, the commercially available system that addresses the challenge of using elevated pressure and 2 mm particles, which makes it a purticularly attractive and promising tool for fast Liquid Chromatographic method development. Engineering challenges of operating at high pressures and the high performance expected from such columns necessitates new developed pumps, redesigned injector, reduced system volumes, an increased detector sampling rate, and other improvements. To be suitable for the analysis of pharmaceutical development samples under GMPs, the UPLC instrument and columns must not only deliver on its promises for fast, high resolution separations but do so reproducibly and with the required sensitivity to addition to the speed at which the data can be obtained, the quality of the data is also improved it is clear that the quality of the UPLC-MS spectra is better than that of the Capillary LCMS species sun much improved signal-to-noise ratio. 3 This new category of analytical separation science remains the practicality and principles of HPLC while





Formulation and in Vitro Characterization of Nelfinavir Extended-Release Tablets

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"Department of Pharmaceutics, Bharat Institute of Technology, Mangalpully (bealumpatnam, Hyderabad)

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ABSTRACT

The current study's objective was to develop a Nellinavir drug delivery system based on extended release (ER). Four separate batches of Nellinavir ER tablets were undensing the direct compression method based on sarying ethyl cellulose (EC) concentrations. The tablets' pre-compression and post-compression characteristics were established. N4 was judged to be the best batch out of all of them based on the highest drug release. The results for all formulations made it clear that the polymer of the core can regulate the rate of medication release. Therefore, current tablet design technologies can offer more benefits than traditional tablets.

Keywords: extended release, Nelfinavir, ethyl cellulose, direct compression

INTRODUCTION

Because of its simplicity in administration, consistent drug release into systemic circulation, and improved patient compliance, oral extended release (ER) systems command the largest market share among the minierous impostive drug delivery systems (NDDS) on the market. Compared to quick release formulation, these datage forms offer a number of advantages, such as improved effectiveness in treating chronic illnesses, less side effects, and improved patient convenience because of a more straightforward dose regimen [1]

To provide therapeutically effective drug concentrations to the systemic circulation for an extended period of time. FR eral administration devices were created Reduced side effects, improved convenience and patient complaintee, and reduced dosing frequency are all therapeutic benefits of a correctly designed ER dosage form [2]. Controlled release polymer is used into dose forms to primarily achieve ER effect. This study's goal was to create ER Nelfinavir tables using the direct compression method with ethylectionses as the appropriate polymer.

MATERIALS AND METHODS

Materials

Nelfmayer was obtained from Cipla Laboratories Ltd, Goa, India, Microcrystalline cellulose (MCC, Avicel pH 101) was putchased from Signet Pharma, Mumbai, EC were obtained as a gift sample from SD Fine Chem Ltd, Mumbai, All other ingredients used were of laboratory reagents and used as such without further testing. All other solvents and reagents usedwere of analytical grade.

DRUG EXCIPIENT STUDIES

Fourier Transform Infrared (FTIR) Spectroscopy Study

FTIR is used to know characteristics peaks indicating compatibility between drug and exceptents. The FTIR allows is identification of functional groups [3] in various characters as well as meanipatibilities between the drug and exceptents

Preparation of extended release (ER) tublets

The direct compression approach was used to create the tablets [4] Ingredients in Table 1 were accurately weighted with the exception of the labricant (magnesium stearate) and glidoot (nervolb, which possed through tilter tamber on Girdong and labricating fluid were run through sieve No. 80.

By using geometric dilution, all the ingredients —ande from the laboreant and glidant—were physically totated together in a mortar. With the use of a rotary compression machine, the powders were compacted into spherical tablets

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REVIEW ARTICLE ON FTIR SPECTROSCOPY

Dr.Namratha Sunkara! G.Anvitha! G. Yamini! G.Deepika! G.Indupriya! G.Srikanth! Blacut Institute of Technology, Mangalpully, Hyderabad, 501510.

ABSTRACT:

Qualitative Fourier transform infrared (FTIR) spectroscopy has long been established and implemented in a wide variety of fields including pharmaceutical, bio-medical, and clinical fields. While the quantitative applications are yet to reach their full potential, this technique

is flourishing. It is tempting to shed light on modern engaging and the applicability of analytical quantitative FTIR spectroscopy in the aforementioned fields. More importantly, the credibility, validity, and generality of the application will be thoroughly demonstrated by reviewing the latest published work in the scientific literature. Utilizing FTIR spectroscopy in a quantitative approach in pharmaceutical, biomedical, and interdisciplinary fields

underliable advantages over traditional procedures. An insightful account will be undertaken in this regard. The technique will be introduced as an appealing alternative to common methods such as high performance liquid chromatography. It is anticipated that the review will offer researchers an update of the current status and prospection the subject among the pharmacy and biomedical sciences both in academic and industrial fields.

INTRODUCTION:

The measurement of infrared light absorption (or transmission) by a material as a function of wavelength is known as infrared (IR) spectroscopy (or frequency). The IR spectrum is produced as a plot of absorption (or transmission) versus wavelength (or frequency). The fundamental heat spectrum of materials, which is principally caused by molecular vibrations and their corresponding rotating absorption bands, is examined using infrared spectroscopy. [1]The IR spectroscopy was the first structural spectroscopic technique and is an analytical method which is used to characterize the bonding structure of atoms based on the interaction of the IR radiation at which the substance absorbs and lead to the production of vibration in molecules. It gives the techniques for identification and characterization of chemical structures to obtain information from biological to composite materials, from liquids to gases. [3]The basic principle of IR is measurement of amount of IR radiation by absorption, emission or reflection. It is also called asvibrational spectroscopy. It is widely used for structural elucidation of molecules. The spectral regions can be divided into further 3 regions; the FAR Infrared (400-10 cm-1), MID Infrared (4000-400

(13000-4000 cm-1). It is based on the absorption pattern of other compounds including isomers. When reference spectra available, most compound can be obvious identified on the basis of spectra of IR. [2]

Most widely used IR is MIR, but remaining both can also provide important information. FTIR is real time

non-destructive technique, which is unable to identify the unknown compounds (quantitative determination) and their corresponding concentration (qualitative determination) from liquid, gas or solid samples. During vibrations, there is change in the dipole moment. In this case we can called as IR active substances and a radiation corresponds

IR inactive substances, the dipole moment is zero, there is no matter how long the bond is in the molecule (IR -



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RESEARCH ARTICLE

Phytochemical screening and Invitro Anticancer activity of Lonicera ligustrina leaf extract on Breast and Colorectal carcinoma cell lines

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ABSTRACT:

Cancer can be described as a disease characterized by groups of abernot cells that undergo uncontrolled proliferations in the absence of cell cycle regulation. The metastasize cancer cells spread to various locations in the body where their uncontrolled growth invades the normal tissue. Cancer comprises more than hundred different diseases, including malignant tunsers of different sites such as breast, corvix, stomach, intestines, colon, lung, mouth etc. There are numerous factors responsible for the cause, like generic, tobacco, chemicals, environmental factors, hormones etc. Cancer detection is described by their pathological grade and clinical stage. Thus we have made an attempt to use Lonicera ligustring herbel extract to check the efficacy against breast and colorisatal carcinoma cell lines. The present study aimed to evaluate proliminary phytochemical acceening and invitro anticancer potential activities against MCF-7(breast) and HCT-116 (colorectal) concer cell lines. Samples shown significant activity at its higher concentration and the IC30 value of breast cell lines 24.45µM (MCF-7) and colorectal cell lines 9.210µM (HCT-116) inhibition. Standard Doxonabicin tested against MCF-7 and HCT-116 cell lines allowed IC50 value of 18.76µM and 16.89µM inhibition. Therefore, a dynamic view of IC50 values and the methods used to detect the dousity-dependent ICss spectrum of a cancer cell line (primary or passaged) established. This view will benefit potients and the canter research community as a whole.

KEYWORDS: Cancer, cell lines, Breast, Colorectal, Doxorubicin, Culture,

INTRODUCTION:

Cancer can be described as a diseases characterized by groups of abetraut cells that undergo uncontrolled proliferation in the absence of cell cycle regulation. The metastasize cancer cells spread to various locations in the body where their uncontrolled growth invates the normal tissue. Cancer comprises more than hundred different diseases, including malignant turners of different sites such as breast, cervia, stomach, intestines, colon, lung, mouth etc. There are numerous factors responsible for the cause, like genetic, tobacco, chemicals, suvironmental factors, hormones etc.

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Cancer detection is described by their pathological grade and clinical slage 13. The cancer treatment includes surgery, radiation, homoene therapy and chemotherapy 1. Medicines from plant sources have gained importance in thorapeutic efficacy with minimum adverse effects. Hence there is need for continuous investigation and isolation of accondary plant metabolites for efficient. therapeutic system. Lonicera ligustrina shrub belongs to family caprifoliscese grows in Bhutan, Nepal, India and Chins. The leaves claimed to have Antioxidant, antiinflantuatory, faxative, Antidiabetic, Anticancer and urinary disorders based on practices. However, this plant has not been studied for anticancer activity on brenst and colorocial carcimena. Thus we have made an attempt to use this herbal extract to check the afficacy against Brenst and Colorcotal carcinoma cells 67. The present study aimed to evaluate preliminary phytochemical screening and invites anticancer potential

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STABILITY INDICATING RP-HPLC METHOL DEVELOPMENT AND VALIDATION OF DAPTOMYCIN

Dr.Namratha Sunkara*¹, Kabita Banik ¹, ,P.Twila Pushpa¹,B.Swathi⁴,Azka Fathima⁵

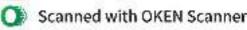
¹Bharat Institute of Technology, Mangalpally, Ibrahimpamam, Rangareddy Telangana India

ABSTRACT: A simple, Accurate, precise method was developed for the estimation of the Daptomycin in Tablet do: form. The detection was carried out by using PDA detector at 223nm.Phenomenex IB-SIL C₂ column was used for the st es this yield peak of good shape. Buffers of different pH were tried, 3.4g/L NH₂PO₆ adjust PH to 3.1 ± 0.05 with H_3PO_6 in finally used because of the good symmetrical peaks. Injection volume used was 25µl . This has yielded peaks of good shi without any splitting. The flow rate was fixed at 0.9ml/min. This has eluted the drug around 37min. By using the method 1 retention time of the Daptomycin was found to be 37.74min. System suitability conditions meet the recommend criterion.Linearity of the solution was demonstrated between 0,1506 mg/ml and 0.4519 mg/ml concentration range.Accurawas demonstrated as reported. Recovery and % of RSD are within the recommended fimits. Limit of detection value is 0.0000154mg/ml and limit of quantification is at 0.0000467mg/ml. Under forced degradation studies, the peak single poin threshold is always lower than purity index for Daptomycin peak and all degradant peaks were well resolved. Retention time were decreased and run time was decreased, so the method developed was simple and economical that can be adopted in regular Quality control test infindustries. Hence the method can be adopted as a stability indicating method.

Keywords: Quality control, Daptomycin, Recuvery, Wavelength.

INTRODUCTION:

Pharmaccutical Analysis is that centre branch of drug store training and research, which is advancing speedy. It can be arranged as union of new medications particles and pharmaceutical investigation. The liquid chromatographic techniques, the pivoted arrange systems in perspective of balanced silica offers the most imperative probability of triumphs. In any case, an extensive number of (structure) factors (purameters) impact the selectivity and the assurance. Trude legitimate methods are made for the prescription thing to diminish the cost and time'. Then evaluate the best division condition from trial runs. In the wake of improving the separation condition, favour the procedure for release to routine research focus. Daptomycin arepale yellow crystalline powder, both the medicine are freely soluble in methanol and practically insoluble in water?. Themschanismofactionofdaptomyclnisdistinetfromthatofanyotherantibiotic. Daptomycin bindstobacterialmembranesandcauses arapiddepolarisationofmembranepotential inbothgrowing and stationary phusecells.





A Case Report in Wallenberg syndrome

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Corresponding author: Nahid

Introduction-

Wallenberg syndrome is also known as lateral medullary syndrome or the posterior inferior cerebellar artery syndrome. Wallenberg described the first case in 1895. This neurological disorder is associated with a variety of symptoms that occur as a result of damage to the lateral segment of the medulla posterior to the inferior olivary nucleus. It is the most typical posterior circulation ischemic stroke syndrome in clinical practice.

The primary pathology of Wallenberg syndrome is occlusion of the posterior inferior cerebellar artery (PICA) or one of its branches. The syndrome can also be due to occlusion of the vertebral artery, or the inferior, middle, or superior medullary vessels. Anatomically the infarcted area in Wallenberg syndrome is supplied by the posterior inferior cerebellar artery (PICA). The majority of cases are caused by occlusion of the vertebral artery, which gives rise to the PICA and the anterior spinal artery before it joins with the opposite vertebral artery to form the basilar artery the most common mechanism of occlusion of the vertebral artery or PICA is atherothrombosis. (1)

The symptoms of Wallenberg syndrome vary depending on the cause and location of the brain damage trouble swallowing (dysphagia), Feeling hoarse, Dizziness, Nausea and vomiting, Rapid involuntary eye movements (nystagmus),Difficulty with balance and gait (walking),Problems with body temperature sensation, Lack of pain and temperature sensation on one side of the face and the other side of the body, Vertigo, Hiccups, Horner syndrome (2)

All patients with suspected Wallenberg Syndrome should receive immediate care and neuroimaging in order to exclude differential diagnoses and to screen for any contraindications to suggested stroke therapies. In most cases, patients are initially prescribed medication in order to combat chronic/long-lasting pain. In cases of ischemic stroke, blood-thinners such as heparin or warfarin can also be prescribed to lessen the blockage in the arteries that supply the lateral medulla

Treatment management in Wallenberg syndrome include Intravenous (IV) thrombolysis with IV tissue plasminogen activator (TPA) within 3 to 4 1/2 hours of the onset of the ischemic stroke with slightly different exclusion criteria., General medical therapy, IV fluid, blood pressure management(1). A feeding tube may be necessary if swallowing is very difficult. Speech/swallowing therapy may be beneficial. (1)

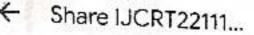
CASE REPORT-

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A 35 year old male patient got admitted in a terriary care hospital with the complaints of Giddiness since 02 days, Dysphagia, Not able to stand, Sturring of speech, difficulty in

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FORMULATION AND EVALUATION OF POLY HERBAL HAND WASH

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FORMULATION AND EVALUATION OF POLYBERBAL HAND WASH

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Formulation and Evaluation of Clarithromycin Enteric Coated Microcapsules Using 22 - Full Factorial Designs

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Abstract

The purpose of the research was to develop and evaluate Clarithromycin loaded, Cellulose acetate phthalate (CAP) enteric coated, controlled release microcapsules where talc is used as an anti aggrading agent. Clarithromycin degrades rapidly at normal gastric pH (1.0-2.0) and remains stable at intestinal pH at 7.4-10 and shows rapid first-pass hepatic metabolism. In order to improve the bioavailability and reduce the gastric degradation, enteric coating microencapsulation was prepared. Clarithromycin microcapsules were formulated by solvent evaporation technique while using 2° factorial designs. A 2° full factorial designs was used to derive a statistical equation, ANOVA analysis, contour plots, and 3D response surface plots. Different polymer and anti aggregating agent ratios of CAP and talc were used to formulate five formulations (F1 to F5) of microcapsules. The relationship between dependent variables (Percentage drug release, drug entrapment efficiency, angle of repose) and independent variables (CAP and Talc) has been established by regression analysis and ANOVA.

The optimized formulations F2 exhibited high drug entrapment efficiency of 94.90 ± 0.02%, Angle of repose of % drug release of 71.51 ± 0.04% at 10 hrs. Microcapsules showed drug release by diffusion in the hydrated matrix and polymer relaxation as a controlled release mechanism.

Keywords: Clarithromycin; Enteric Coated Microencapsulation; Solvent Evaporation Technique; Cellulose Acetate Phthalate (CAP); Factorial Design

Introduction

Clarithromycin is a macrolide antibiotic used to treat pharyngitis, tonsillitis, acute maxillary sinusitis, acute bacterial exacerbation of chronic bronchitis, pneumonia (especially atypical pneumonias associated with Chlamydia pneumoniae or TWAR), skin and skin structure infections. In addition, it is sometimes used to treat Legionellosis [1], Helicobacter pylori, and lyme disease.

Clarithromycin prevents bacteria from growing by interfering with their protein synthesis. Clarithromycin binds to the subunit 50S of the bacterial ribosome and thus inhibits the translation of peptides. Clarithromycin has similar antimicrobial spectrum as erythromycin but is more effective against certain gram-negative bacteria, particularly [2] Legionella pneumophila.

Citation: Kabita Banik, et al. "Formulation and Evaluation of Clarithromycin Enteric Coated Microcapsules Using 2* - Full Factorial Designs". Actu Scientific Pharmaceutical Sciences 6.7 (2022): 42-53.



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INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

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STABILITY INDICATING RP-HPLC METHOD DEVELOPMENT AND VALIDATION OF DAPTOMYCIN

Dr.Namratha Sunkara*1, Kabita Banik 2., P.Twila Pushpa3, B.Swathi4, Azka Fathima5

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ABSTRACT: A simple, Accurate, precise method was developed for the estimation of the Daptomycin in Tablet dosage form. The detection was carried out by using PDA detector at 223nm.Phenomenex IB-SIL C₈ column was used for the study as this yield peak of good shape. Buffers of different pH were tried: 3.4g/L NH₂H₂PO₄ adjust P³ to 3.1 ± 0.05 with H₃PO₄ was finally used because of the good symmetrical peaks. Injection volume used was 25µl. This has yielded peaks of good shape without any splitting. The flow rate was fixed at 0.9ml/min. This has clutted the drug around 37min. By using the method the retention time of the Daptomycin was found to be 37.74min. System suitability conditions meet the recommended criterion. Linearity of the solution was demonstrated between 0.1506 mg/ml and 0.4519 mg/ml concentration range. Accuracy was demonstrated as reported. Recovery and % of RSD are within the recommended limits. Limit of detection value is at 0.0000154mg/ml and limit of quantification is at 0.0000467mg/ml. Under forced degradation studies, the peak single point threshold is always lower than purity index for Daptomycin peak and all degradant peaks were well resolved. Retention times were decreased and run time was decreased, so the method developed was simple and economical that can be adopted in regular Quality control test inladustries. Hence the method can be adopted as a stability indicating method.

Keywords:Quality control, Daptomycin, Recovery, Wavelength.

INTRODUCTION:

Pharmaceutical Analysis is that centre branch of drug store training and research, which is advancing speedy. It can be arranged as union of new medications particles and pharmaceutical investigation. The liquid chromatographic techniques, the pivoted arrange systems in perspective of balanced silica offers the most imperative probability of triumphs. In any case, an extensive number of (structure) factors (parameters) impact the selectivity and the assurance. Trade legitimate methods are made for the prescription thing to diminish the cost and time. Then evaluate the best division condition from trial runs. In the wake of improving the separation condition, favour the procedure for release to routine research focus. Paptomycin arepale vellow crystalline powder, both the medicine are freely soluble in methanol and practically insoluble in water. Themsechanismofactionofdaptomycinisdistinctfromthatofacyotherantibiotic. Daptomycin bindstobacterialmembranesandeauses inbothgrowingandstationaryphasecells.

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To assess clinical presentation, anglographic profile, and treatment outcome of acute myocardial infarction patients

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Abstracts aim & objective: To assess clinical presentation, angiographic profile, and treatment outcome of acute myocardial infarction patients admitted into cardiology department, King George Hospital.

Method: It is a hospital based prospective study, and the data was collected from the in-patients of Cardiology ward, with myocardial infarction who satisfied the inclusion criteria. Patient's demographic data, clinical data was collected from patient's case sheet; personal interview with subjects and 2D echocardiograph, angiographic data was collected from the cardiology department and was conducted for period of six months of sample size of about 64.

Results: The study among the 64 patients most of the persons were males 46 (71.8%) and 18 (28.1%) were females, finally we observed that, the prevalence of myocardial infarction & soute myocardial infarction is more in males 46 (71%). Most of the persons were reported with IWMI 26 (40%). Among the 64 patients, smokers were 17 (26.5%), persons on alcoholic were 11 (17.1%), and persons with both habits (alcohol and smoking) were 19 (29.6%), We found that, most of the persons were reported with both habits 17 (26.5%), we observed that, the persons reported to the hospital were mostly suffering with co morbidities. Among the 64 patients, hypertension is more prevalent in most of the patients 32 (50%) and found that, regional wall motion abnormality of LAD territory 22 (34.3%) is more dominant in most of the patients. The ejection fraction of <55% patients 43 (67.1%) were more dominant, patients diagnosed with different age groups along with altered ejection fractions 7 (10.9%) patients were between the age group (31-40) diagnosed with ejection fraction

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STUDY OF INCIDENCE OF MALARIA, DENGUE AND CHIKUNGUNYA FEVERS AMONG FEBRILE PATIENTS VISITING TERTIARY CARE HOSPITAL (KING GEORGE HOSPITAL) IN VISAKHAPATNAM

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ABSTRACT TANDET SHEET SHEET

Key words:

Malaria, Dengue, Chikungunya.



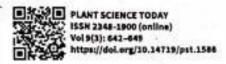
35 75

Aim & objective: Study of incidence of malaria, Dengue and Chikungunya febrile patients visiting tertiary care hospital (King George hospital) in Visakhapatnam. Method: The study is conducted in-patients visiting King George Hospital, which is a Government General Hospital located in Visakhapatnam, Andhra Pradesh, India. The hospital with 1237 beds serving the needs of north coastal Andhra Pradesh and adjacent Orissa for more than 150 years. Patients presenting to the health centre with some signs and symptoms compatible with the diagnosis of malaria, dengue and chikungunya (fever which can be recent or in evidence during the previous 2-4 days or/and other symptoms of febrile diseases such as chills, beadache, joint, muscle and body pains). 100 febrile patients shall be selected randomly at the age group of 13-60 years Patients shall also be selected on the basis of febrile and other symptoms such as chills, headache, joint, and muscle and body pains. Results and Conclusion: Age wise Distribution of Malaria, Dengue and Chikungunya, number of patients n=100 were taken, total n=72 patients were positive for Malaria, n=24 patients were positive for Dengue and n=4 patients were Chikungunya, With the Mean of 10.6 and Standard Deviation are 6.1. From the age group of "36 to 50" years n=28 number of patients positive for both males and females, form this total n=12 positive for malaria with the percentage of 16.6% and Females were n=16 with the percentage of 22.2%. From the age group "51 to 65" years n=8 number of patients positive for malaria in both males and females, from this total the male patients were m-4 positive for malaria with the percentage of 5.6%. The age wise description of Dengue a total "n=24"number of patients are positive for Dengue in both males and females. From the total n=16 number of male patients which are positive for Dengue with the percentage of 66.6% with the Mean of 5.3 and Standard Deviation is 4.7.females were n=8 number of patients with the percentage of 33.3% and in the Mean of 11.1 with Standard Deviation is 2.4. The age wise description of Chikungunya fever of different age groups a total "n=4"number of patients are positive for Chikungunya fever in both males and females. From the total n=02 number of male patients which are positive for malaria with the percentage of 50% with the Mean of 0.6 and Standard Deviation is 0.5 females were n=02 number of patients with the percentage of 50% and in the Mean of 0.6 and Standard Deviation is 0.5. Chikungunya fever in both males and females, from the total male patients were n=0 positive for Chikungunya fever and females were n=1 number of patients positive for Chikungunya with the percentage of 25%. The maximum peaks are observed equally in the age of 36 to 50 years age group. The Month wise Description of Malaria, Dengue and Chikungunya positive patients from the month of April 2017 to month of October 2017. To identify the seasonal variation of the disease, analysis of the data on monthly basis was done.

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@ Journal of Global Trends in Pharmaceutical Sciences









RESEARCH ARTICLE

Protective effect of Vitex altissima L.f. bark extract on cisplatininduced renal injury in Wistar rats

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Vedula G S, Isukapatla T, Ketha A. Protective effect of Vitex all ssima L.f. bark extract on cisplatin-induced renal injury in Wistar rats. Plant Science Today. 2022; 9(3): 642–649. https://doi.org/10.14719/pst.1586

Abstract

Cisplatin (CP) is a commonly used chemotherapeutic drug. The major limiting factor in the use of CP is the side effects in normal tissues, including the kidney. Since ancient times, medicinal plants are rich sources of various bioactive constituents used to treat multiple ailments, including drug toxicities. The present work is a preliminary study to explore the renoprotective actions of methanolic extract of Vitex altissima L.f. bark (Va) against CPinduced renal damage in Wistar rats. Va was found to have potent radical scavenging activity than metal ion reducing power properties, compared with ascorbic acid. Further, Va was evaluated for nephroprotective activity in rats induced by CP (8 mg/kg; intraperitoneal) on the 7th day. The animals were grouped (n = 6) and treated with Va (100 and 200 mg/kg) orally for 14 days. The outcomes of the study found that CP significantly (P < 0.001) altered the oxidative stress markers (MDA, SOD and CAT), serum urea and creatinine levels. The administration of Va significantly halted the toxic condition and maintained it towards normal levels. The higher dose of Va significantly (P < 0.001) raised the SOD and CAT levels and halted the MDA levels than the low dose. Also, a higher dose of Va maintained the normal integrity of the histopathological studies of kidneys than a low dose. The present study demonstrates that V. altissima can attenuate the oxidative stress induced by CP by enhancing the endogenous antioxidant levels and depleting the lipid peroxidation levels.

Keywords

antioxidant activity, cisplatin, nephrotoxicity, oxidative stress, Vitex oltissimo

Introduction

The kidney is the principal organ that plays a vital role in the excretion of xenobiotics and their metabolites (1, 2). Nephrotoxicity is one of the major leading causes of death worldwide, of which 20% of deaths are accounted for drug-induced toxicity with various classes of life-saving drugs (2-4). The nephrotoxicity symptoms include the change in urine volume, increased kidney weight, and alteration of kidney biochemical parameters (serum urea nitrogen and creatinine levels) (5, 6).

Cisplatin (CP) is platinum derived first-line anticancer drug that shows the efficient suppression of malignancies. CP interacts with DNA vio the formation of covalent adducts between certain DNA bases and the platinum compound (7, 8). The toxic effects of CP include nausea, vomiting, ototoxicity, neurotoxicity and bone marrow suppression, but its chief dose limiting side effect is nephrotoxicity (8). But prolonged usage of CP exhibits

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Bioassay Guided Isolation of Anti-Inflammatory Compounds from Bauhinia variegata L.: A Key Ingredient in Herbo-Mineral Formulation, Gandmala Kandan Ras

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Tatipamula et al.: Anti-inflammatory compounds from B. variegata I...

Medicinal berb Bauhinia variegata 1. is the main ingredient in "Gandmain Kandan Ras" (GKR) herbomineral medicine used in Ayurveda for the treatment of swelling, inflammation and tumors. This study aimed to isolate the anti-inflammatory compounds from the methanolic extract of aerial parts of Bauhinia variegata, Through bioassay-guided isolation, three known flavonoids, namely kaempferol, ombain and quercetin were identified from methanolic extract of aerial parts of Bauhinia variega. The primary screening by protein denaturation method revealed a significant percentage of inhibition of protein denaturation of compounds kaempferol and quercetin. The anti-inflammatory assays against COX-1/2 enzymes showed significant kaempferol and quercetin. The anti-inflammatory assays against COX-1/2 enzymes showed significant anti-inflammatory activity of these two compounds, compared to the standard drug, indomethacin. Of which, quercetin as a potent non-selective inhibitor of COX1 and COX2 with IC, values of 172.05:44.29 and 220.62±9.13 nM, respectively; while knempferol showed selective COX2 inhibition with the IC, of 154.86±5.60 nM. The results provided evidence that supports the Ayurvedic usage of Gandmain Kandan Ras formulation in the treatment of inflammation, which was attributed to the natural active knempferol and quercetin. The results indicated that plant Hauhinia variegata could be considered as an excellent natural source of remedial medicine for inflammation.

Key words: Bankinla, protein denuturation method, cyclooxygenase enzymes, inhibitory assay

Bauhinia genus belongs to the family Fabaceae, well recorded in the flora of Brazil, India, Nepal and South Africa^[1,2]. Traditionally, the bark, flowers and roots of the genus Bauhinia are most valued in Brazil, India and South Africa for treating various alignments such as diabetes, inflammation, tumors, gastrointestinal disorders and infectious diseases^[3]. In Ayurveda, an herbo-mineral formulation named "Gandmala Kandan Ras" (GKR) is widely used for patients suffering from inflammation-related conditions such as swelling, cysts and tumors. The Sanskrit technical term "Gandmala" is "scrofula," which is an inflammatory disorder indicating swelling of the neck and inflammation of lymph glands. GKR formulation mainly contains ingredients from

Bauhinia variegata (B. variegata) L. and Shuddha Guggulu^[4].

B. variegate L. is a semi-evergreen free, usually called "Camel's foot creeper" in English, and "Kanchanara or Kachnar" in Sanskrit. In some parts of India, buds and flowers of B. variegata are used as vegetubles and are cooked and eaten as a famous food named "Karalen Ki Sabji" Particularly, in the Indian tribes, the B. variegata has been using in the treatment of multiple conditions, including microbial

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INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

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REVIEW ON MILLINGTONIA HORTENSIS

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ABSTRACT: Millingtonia hortensis Linn. is cultivated in most parts of India, both in gardens and avenues. Tall and straight, with comparatively few branches, its popularity lies in its ornamental value. It is a fine tree, fast growing, but with brittle wood, liable to be damaged by storms. In favourable positions it can grow to 24 m tall. The ashy bark is cracked and furrowed and the numerous fissures make removal of the cork an easy matter. It is used as an inferior substitute for true cork. From April until the rains and again in November and December, a profusion of silvery-white, delightfully fragrant flowers crown the follage. Upright open chafters with arching blooms terminate every branchlet. Each flower is a tiny bell-shaped onlys, a long stender tube of pulest green dividing into four waxy, white petals and several conspicuous yellow anthered stamens. Many flowers are delicately tinted with rose. As the flowers are short-lived, the flower sprays mostly consist largely of long whitish buds, while the ground below is spangled with innumerable little stars. Between January and March the leaves are shed and renewed during April and May, although the tree is never quite saked. Trees do not seed very easily in India1.

IMPORTANT TERMS: Millingtonia hortensis, brittle wood, foliage, calyx, stamens.

INTRODUCTION:

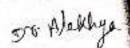
Millingtonia hortensis Linn, is an important medicinal plant which belongs to the family Bignoniaceae and it is one of important medicinal plant in Southern Asia, ranging from India, Burma, Thailand and Southern China Commonly known as Cork tree. It is also called as Akash neem, Neem chameli . A very tall tree, Flowers have very rich & pleasant scent. Propagation by Seeds, suckers: Longevitysis Perennial. It is a tall deciduous tree. It grows up to 25 meter. The leaves are pinnately compound. Long leaves bear two or three widely spaced pinnae, each with 5-7 smooth leaflets, oval, pointed and slightly round-toothed, 1-3 inches long2.

In India about 7300 plant species are used in traditional health care systems, 90% of the medicinal plants which find place in day-to-day uses, many of these, are used as herbal remedies3. Medicinal plants are of great importance to the health of individual and communities. The medicinal value of these plants lies in some chemical active substances that produce a define physiological action on human body. The most important of these chemically active constituents of plants are alkaloids, tannin, flavonoid and phenolic4.

A very tall and straight tree with brittle wood and liable to damaged by storms. It can grow up to 25 meter tall and it can reach 80 meter in height. Flowers have very rich and pleasant scent. In Thailand, the flower is called 'peep' and compounds. Many of these indigenous medicinal plants are also used for medicinal purposes . In recent years, use of antimicrobial drugs in the treatment of infectious disease has developed multiple drug resistance and with increase in production of new antibiotics, by pharmaceutical industry, resistance to these drups has also increased used for the treatment of asthma, sinusitis and as a cholagogue and tonic. The flowers are also used in rituals and have good antimicrobial properties. The stem has brittle wood and liable to damaged by storus. stem bark is used traditionally as mainly lung tonic, antiasthmatic and antimicrobial properties. Leaves and roots of cork tree used as antiasthmatic and antimicrobial activity. Fruit is very long and narrow, pointed at both ends and contains thin, flat seeds. Trees do not seed very easily in India. Roots can be used for the treatment of tuberculosis and as an antiasthmatic. The leaves of Cork tree are very ornamental and extracts of leaves the good antimicrobial activity. The leaves of Millingtonia hortensis are used as antipyretic, antiastimatic, surusifis cholagogue and tonic in folklore medicine?

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Effect of Isolated Fraction from Biophytum reinwardtii on Dexamethasone Induced Insulin Resistance in Rats

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Abstract

The Praction from Methanolic extract whole plants of Diophytaina single public (HEMRR) is traditionally used in the treatment of diabetes. Rafe were treated with a standardized dose of Desting that one for 17 gays and the effect of HEMBR at the doses of 50 and 100 mg/kg, p.o.; on plasma blood plucese level; sepim triply corde level; globase uptake in skeletal muscle, levels of hepatic entractions of negatic entractions of the dose of hepatic entractions of the dose of hepatic entractions of the dose of blood the BR showed a significant decrease in plasma glucose and serum triply reside levels (p. 0.01) at the dose of 50 and 100 mg/kg, p.o. and also stimulated glucose uptake in skeletal muscle. The levels of satisfications of SOB, 800, and establish were significantly increased (p< 0.01). Hence it can be concluded that biophytam relinguistic in the effective in the treatment of Type-II Diabetes mellitus owing to its ability to decrease Institutions.

Keywords: Antioxidants, Diabetes, Fraction, Insulin, Resistance

1. Introduction

Disbetes could be a chronic sickness that happens either once the exocrine gland doesn't manufacture enough hypoglycemic agents, or once the body cannot effectively use the hypoglycemic agent it produces. Insulin could be an internal secretion that regulates glucose'. Hyperglycaemia, or raised glucose, could be a typical result of uncontrolled polygenic disease and over time ends up in serious harm to several of the body's systems, especially the nerves and blood vessels', In 2014, 8.5% of adults aged 18 years and older had diabetes. In 2016,

diabetes was the direct cause of 1.6 million deaths, and in 2012 high blood glucose was the cause of another 2.2 million deaths?.

Modern medicines like Biguanides. Sulphonylureas and Thiazolidinediones are available for the treatment of diabetes. But they also have undesired effects associated with their uses. Alternative drugs, notably flavouring medicines are offered for the treatment of polygenic disease. Instead of the introduction of hypoglycemic agents from the synthetic source, diabetes and its secondary complications continue to be a significant problem. Many

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animal of Survey in Fasheries

Protective activity of ferulic acid on rotenone-induced Neurodegeneration in Zebra-fish model

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Back ground. Parkinson disease is acknowledged as progressive disorder that cause degeneration of a neuron which pocur as a result of abnormal cluster of a protein termed as alpha-synuclein that leads to a diminishing effect to the level of brain dopamine level in basal ganglia. Methods and Materials determine the behavioral parameter. dopamine and catalase level and mitochondrial function of Rotenone induced zebra fishes we carried out an experiment on 40 fishes induced with Roteoone (Parkinson inducer) and 10 normal fishes. Result -this article provides an inclusive, general and practical experimental procedure on zebra fish using Ferulic acid as our test compound and it act as anti-Parkinson phytochemical. Conclusion-we noticed that while the fish treated with Rotenone shows unusual feature like excitic movement and being in cataleptic state after some time and decrease of their Dopamine. Catalase and Mitochondrial function level, on the other hand the fish that was priorly treated with Fertilic acid followed by a direct exposure to Rotenone shows an increasing level of big chemical parameter

Keywords: Alpha-synticlein, abnormal cluster, Brain dopamine level, Behavioral parameter, Biochennical parameter. Catalepsy.

Introduction

Parkinson's disease is named by the British doctor James Parkinson in 1817 who wrote the first book about the disease. According to his definition. Parkinson is called the paralysis OF (1). Neuronal loss in the substantia nigra, palsy which result in striatal dopamine deficiency, and intracellular inclusions containing bunch of a-synuclein are the neuropathological target of Parkinson disease (2). Parkinson disease is a unique clinical and neuropath logical entity which is manifested clinically by bradykinesia, resting tremor, rigidity and postural reflex impairment (3).

The etiology of Parkinson disease is not known but genetic and environmental factors have its own implication (4) alphamutation synuclein (SNCA), parkin (PARK2), PTENinduced putative kinase 1 (PINK1), D.F. I (PARK7), and Lencine-rich repeat kings 2 (LRRK2) are the main genetical factor fo: the disease (5). An increase in the level of genetically cell aging process as a result of the combined effect of triggering factor like environmental toxins result in idiopathic

as Chromatography-Mass Spectrometric Analysis, Isolation, Characterization and Biological Activity of Ethanolic Extract of Moss Fabronia secunda Mont.

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Killari et al.: Chemical and Biological Analysis of Fabronia secunda

The chemical and biological profile of the ethanolic extract of Fabronia secunda examined for the first time. The gas chromatography-mass spectrometric analysis of ethanolic extract of Fabronia secunda identified 200 components, which mainly composed of lup-20(29)-ene-3,28-diol (4.01 %), guanosine (3.99 %), and 1,2-benzene-dicarboxylic acid (3.79 %). Also, the chromatographic analysis yielded three compounds, namely stigmasterol (1), β-sitosterol (2) and lupeol (3). The ethanolic extract of Fabronia secunda exhibited superior inhibition of superoxide and 2,2-diphenyl-1-picrylhydrazyl radicals with an half maximal inhibitory concentration value of 33.5 and 34.5 µg/ml respectively. Additionally, ethanolic extract of Fabronia secunda depicted prominent inhibitory profiles against alpha-glucosidase and pancreatic alpha-amylase with half maximal inhibitory concentration values of 48.5 and 58.0 µg/ml respectively. To conclude, this preliminary chemical analysis provides a piece of evidence to know the metabolism of mosses and the biological investigation proved the therapeutic importance of mosses like Fabronia secunda.

Key words: Fabronia secunda, moss, ferric ions, 2,2-diphenyl-1-pierylhydrazyl, superoxide, a-glucosidase inhibitory assay, pancreaticα-amylase inhibitory assay, aldose reductase inhibitory assay

Mosses were simplest-level plants that belong to the second-largest taxonomic group among bryophytes. Amongst 25 000 bryophytes species, mosses include 14 000 species around the world[1]. Mosses survive in wet and humid places and mostly they live in rocks, soil, woods and walls of a building. Long-time ago, mosses less considered for the identification of bioactive substances due to their identification problems.

Nevertheless, in recent times, the research attention in mosses chemical profile is increasing, as several biologically active components identified from them due to their unique adaptations. However, from a large number of mosses, only very few species have been studied additionally, the study of the chemical composition of moss assists in knowing their metabolism[2].

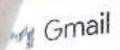
Mosses are widely present in forest ecosystems and the Northern Hemisphere. Traditionally. tribes of North American utilized mosses for the management of convulsions, neurasthenia, pneumonia, scald, burns, tuberculosis and others. In the folklore of China and India, extracts of mosses are well-known for antimicrobial activity and the treatment of anxiety, snake-bites, heart problems, tuberculosis, cancer and diabetes[3,-1 The major chemical constituents of messes are carbohydrates, fatty acids, lipids, flavonoids. benzoic acid derivatives, polyphenols, terpenoids.

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EV WOUNTION OF ANTIDIABETIC EFFECT OF THE ANTI-ROPICA ON PHYTOPHARMACOLOGICAL PROSPECTIVE

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ABSTRACT

Acacia nilotica is a potent herbal drug traditionally used in the treatment of diabetes. Aim of present study is to evaluate the antidiabetic effect of Acacia nilotica leaf on phytopharmacological prospective.

KEYWORDS: Acacia nilotica, antidiabetic, oxidents. Phytopharmaceuticas.

1. Plant profile

Acacia nilotica leaf.

1.1 Common names

Hindi Karuvela maram.

1.2 Classfication

Kingdom:

Plantae

(Unranked): Angiosperms

(Unranked):

Eudicots

(Unranked):

Rosids

Order:

Fabales

Family:

Fabaceae

Genus:

Vachellia

Species:

V. nilotica

India.

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ABSTRACT

Fabry's disease is a rare, inherited, lysosomal storage disorder which is progressive in nature. It is caused by mutations in the GLA gene present on the X chromosome which results in the complete absence or deficiency of the lysosomal enzyme alpha glycosidase A which is responsible for the break down of fatty substances like glycosphingolipids. The accumulation of glycosphingolipids (mainly globotriaosylceramide or GL3) and its derivative globotriaosylsphingosine or lyso-Gb3 in body fluids and lysosomal

cells hinders their working and triggers a cascade of cellular events which eventually leads to various complications. Fabry's disease is initially characterized by neurological (pain), cutaneous (angiokeratoma), heat and cold intolerance, cochlea-vestibular manifestations which later progresses to renal (proteinuria, kidney failure), cardiovascular (cardiomyopathy, ventricular hypertrophy, fibrosis, valve disease, cardiac conduction abnormalities, arrhythmia), and cerebrovascular (transient ischemic attacks, strokes) manifestations if left untreated. In females the signs and symptoms may vary from mild to severe. The premative diagnosis is based on the symptoms and supported by a positive family history. The clinical diagnosis must be confirmed through determination of α-GAL A activity in leukocytes or plasma by using 4 methyllumbelliferyl –d- galactoside as substrate and/or genotyping. Different screening strategies have been carried out to detect undiagnosed Fabry patients. Enzyme replacement therapy (ERT) and oral chaperone therapy is used in the treatment of Fabry disease.

SUMMARY

Fabry's disease is also known as Anderson-Fabry disease, Angiokeratoma corporis diffusum, Alpha-galactosidase A deficiency, Sweeley-Klionsky disease to name a few.

STONEMAN SYNDROME FREQUENCY ATTARABLE OSSITICANS PROGRESSIVA (DOP)/ MUNCHMEYER'S DISPASES RARE GENETIC DISORDER (FIN 2 MILLION)

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India.

de Received on eb. 2022, ised on 24 beb. 2022, epted on all Policieb 2022, analysis and all 2022.

orresponding Author erthika

ABSTRACT

FOP it is an extremely rare skeletal dysplasia also called stone man syndrome. It is characterized by the progressive ectopic ossification of tendons and ligaments, facial and skeletalmuscle throughout life. It is a rare hereditary connective tissue disease. Smooth muscle is not involved in this disorder. The known reported epidemiology in this disorder is one in two million FOP it is occurred due to the bone formation outside of the skeleton is namely called as heterotopic ossification. And which leads to formation of ribbons, sheets and plates

of extra bone forming in places whole body where bone should not be. Once formed this bone cannot be removed and hence it may lead to stiffness of joint. Hence it can restrict normal movement and function therefore it causes lock in joints. Here it is a rare skeletal dysplasia which has the characteristics of imaging and clinical findings whereit includes stout first metatarsals, bilateral hallux valgus, mono phalanges great toes. The symptoms are likely to begin in childhood as localized soft tissue swellings. There will be dysfunction and immobility of the spine and proximal extremitics. In severe case there is also limitation of masticatory function by scoliesis it is a temporal mandibular joint (TMJ) Is a critical component involved in the maxillofacial region. Where TMJ is not involved and rare.

KEYWORDS

- Fibro dysplasia ossificans progressive.
- Rare dominant autosomal skeletal dysplasia.
- One in two million / rare.
- Dysfunction and immobility of the spine and proximal extremities.
- It is a trivial trauma.