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S No.	Name of the teacher	Author / Title of the book / Chapters published / ISBN	Publisher
1	Syeda Nishat Fathima	The Quest for Knowledge / Kleine Levin Syndrome: An Overview ISBN-13: 979-886688620-3	CIRS Publications
2	Syeda Nishat Fathima	Herbal Medicine Phytochemistry. Reference Series in Phytochemistry / Herbal Medicine Formulation, Standardization, and Commercialization Challenges and Sustainable Strategies for Improvement. 978-3-031-21973-3	Springer, Cham.
3	G Swetha, Syeda Nishat Fathima	Transdisciplinary Threads Crafting The Future Through Multidisciplinary Research Volume-2 / Hormonal Therapy in Premenstrual Syndrome: An Overview 978-93-92917-29-5	Infinity Publication
4	Syeda Nishat Fathima	The Spectrum of Knowledge / Novel Pharmacotherapeutic Approaches For Management of Cystic Fibrosis ISBN-13: 979-887875881-9	CIRS Publications
5	Syeda Nishat Fathima	Integrative Explorations Breaking New Grounds in Multidisciplinary Research Vol 2 / Prospective Applications and Implications of Artificial Intelligence in the Field of Pharmacy ISBN: 978-93-92917-74-5	Infinity Publication

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Through a meticulous selection process, we have curated a collection of articles that showcase the profound impact of cross-disciplinary research. The authors featured in this book have collaborated across disciplinary boundaries, harnessing the synergistic power of their diverse expertise. They have tackled complex problems from multiple angles, offering fresh perspectives and innovative solutions that transcend the limitations of any single discipline.

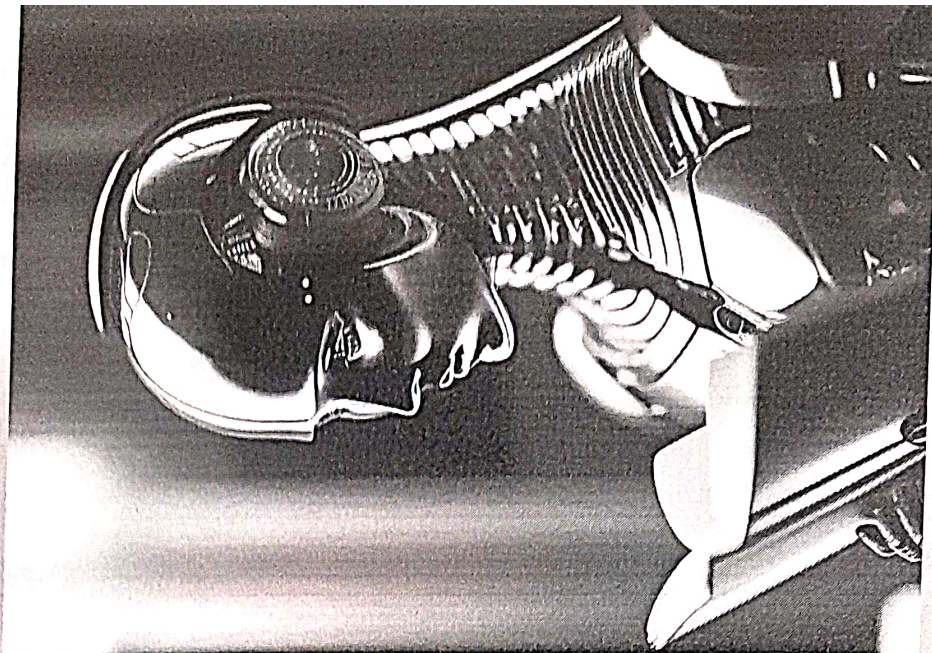


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11. Kleine-Levin Syndrome: An Overview

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ABSTRACT:

Kleine-Levin syndrome, also known as recurrent hypersomnia or periodic hypersomnolence, is a rare sleep disorder marked by recurrent episodes of severe hypersomnia coupled with behavioural and cognitive disturbances like compulsive eating, hypersexuality, derealization, apathy, and confusion. There are weeks or months of regular sleep and behaviour in between episodes, which can last anywhere from a few days to many weeks. This article will examine the epidemiology, pathophysiology, clinical characteristics, diagnosis, and management of Kleine-Levin syndrome.

Keywords: Kleine-Levin syndrome, Hypersomnia

INTRODUCTION:

Recurrent episodes of hypersomnia accompanied by behavioural, cognitive, and psychological alterations and a sense of derealization are the hallmarks of Kleine-Levin syndrome, an episodic condition. Adolescent boys are primarily affected by the illness. Kleine-Levin syndrome is typically regarded as an incredibly rare disease, despite the fact that there are no population-based studies reporting on its prevalence. [1]

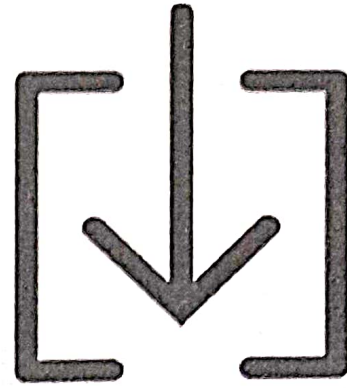


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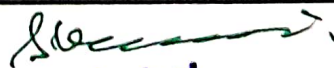
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Herbal Medicine Phytochemistry

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Herbal Medicine Formulation, Standardization, and Commercialization Challenges and Sustainable Strategies for Improvement

Neelima Yadav, Saket Singh Chandel, T. Venkatachalam, and Syeda Nishat Fathima

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Abstract

Herbal or Phyto medicines have been used since time immemorial as a form of traditional medicine systems and practices like Ayurveda, Siddha, Unani, and homeopathy. This medical system uses herbal medicines, or phytomedicines that are extracted from herbal plants, for the treatment of diverse diseases. People in developing countries such as Asia and Africa rely on herbal medicines for the treatment of various diseases the most because it is believed that they are cheaper, more effective, and risk-free. Herbal medicines are preferred over modern medicines in developing countries. However, herbal medicines suffer from a lack of

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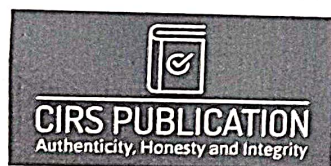
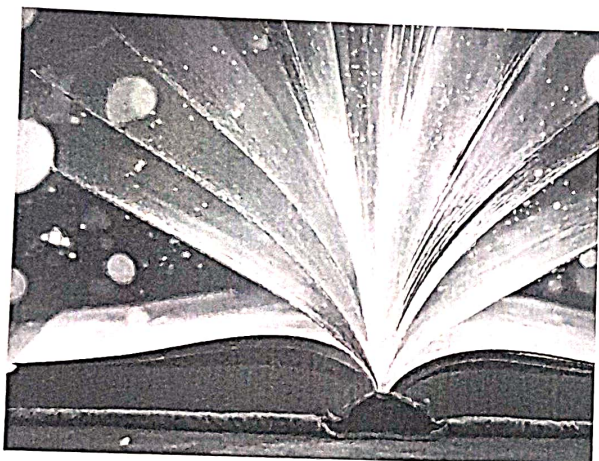
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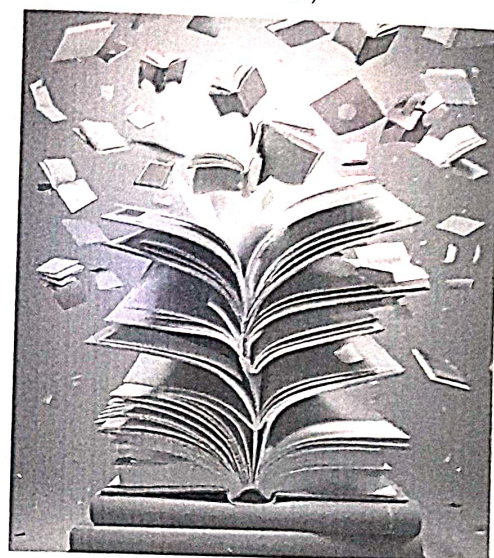
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8. NOVEL PHARMACOTHERAPEUTIC
APPROACHES FOR MANAGEMENT OF
CYSTIC FIBROSIS

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ABSTRACT:

Cystic fibrosis is an autosomal recessive disease in which mutations in the gene encoding for the Cystic fibrosis transmembrane conductance regulator protein result in a multisystem disease dominated by digestive and respiratory manifestations. Management requires drug therapy, extensive physiotherapy and nutritional support. Previously, the focus was on symptomatic improvement and complication prevention but recently the protein rectifiers are being studied which are claimed to correct underlying structural and functional abnormalities. Some improvement is observed by the corrector drugs. Other promising approaches are gene therapy, targeting of cellular interactomes, and newer drugs for symptomatic improvement. The present article describes the diagnostic testing for cystic fibrosis, existing and emerging therapies, and how these treatments are changing the trajectory of disease.

Keywords: Cystic fibrosis, CFTR gene, Gene therapy

INTRODUCTION:

Cystic fibrosis is the genetic disorder that affects mostly the lungs, but also the pancreas, liver, kidneys, and intestine. It is a disease of exocrine gland function that involves multiple organ systems but chiefly results in chronic respiratory infections, pancreatic enzyme insufficiency, and associated complications in untreated patients leading to death in 90% of patients. A mutation



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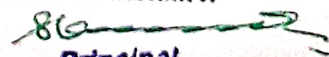
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ABSTRACT:

Premenstrual syndrome is marked by the presence of physical and behavioural symptoms that recur frequently in the second half of the menstrual cycle and interfere with multiple aspects of the woman's life. Affective symptoms such as depression, anger, and anxiety, as well as somatic symptoms such as breast soreness, bloating and swelling, and headache, are among the primary symptoms of premenstrual syndrome. Prior to considering treatment, an accurate diagnosis of premenstrual syndrome should be established. The therapy goals for premenstrual disorders patients are to alleviate symptoms and improve functional impairment. A broad range of approaches, including lifestyle changes (exercise and relaxation techniques), cognitive behavioural therapy, and medications (selective serotonin reuptake inhibitors and/or combined oral estrogen-progestin contraceptives) may be beneficial for women in the prevention and management of premenstrual syndrome. The present paper highlights the hormonal therapies to be considered in premenstrual syndrome.

Keywords: *Premenstrual syndrome; Hormone Therapy; Estrogen; Progesterone*

INTRODUCTION:

Premenstrual syndrome (PMS) is a disruptive set of emotional and physical symptoms that regularly occur in the one to two weeks before the start of each menstrual period. It encompasses clinically significant somatic and psychological manifestations during the luteal phase of the menstrual cycle, leading to substantial distress and impairment in functional capacity. These symptoms disappear within a few days of the onset of menstruation. The pooled prevalence of reproductive age women affected with PMS worldwide amounts to 47.8%. Among these, about 20% of women experience symptoms severe enough to disrupt their daily activities, and the remaining have mild to moderate symptoms. [1]

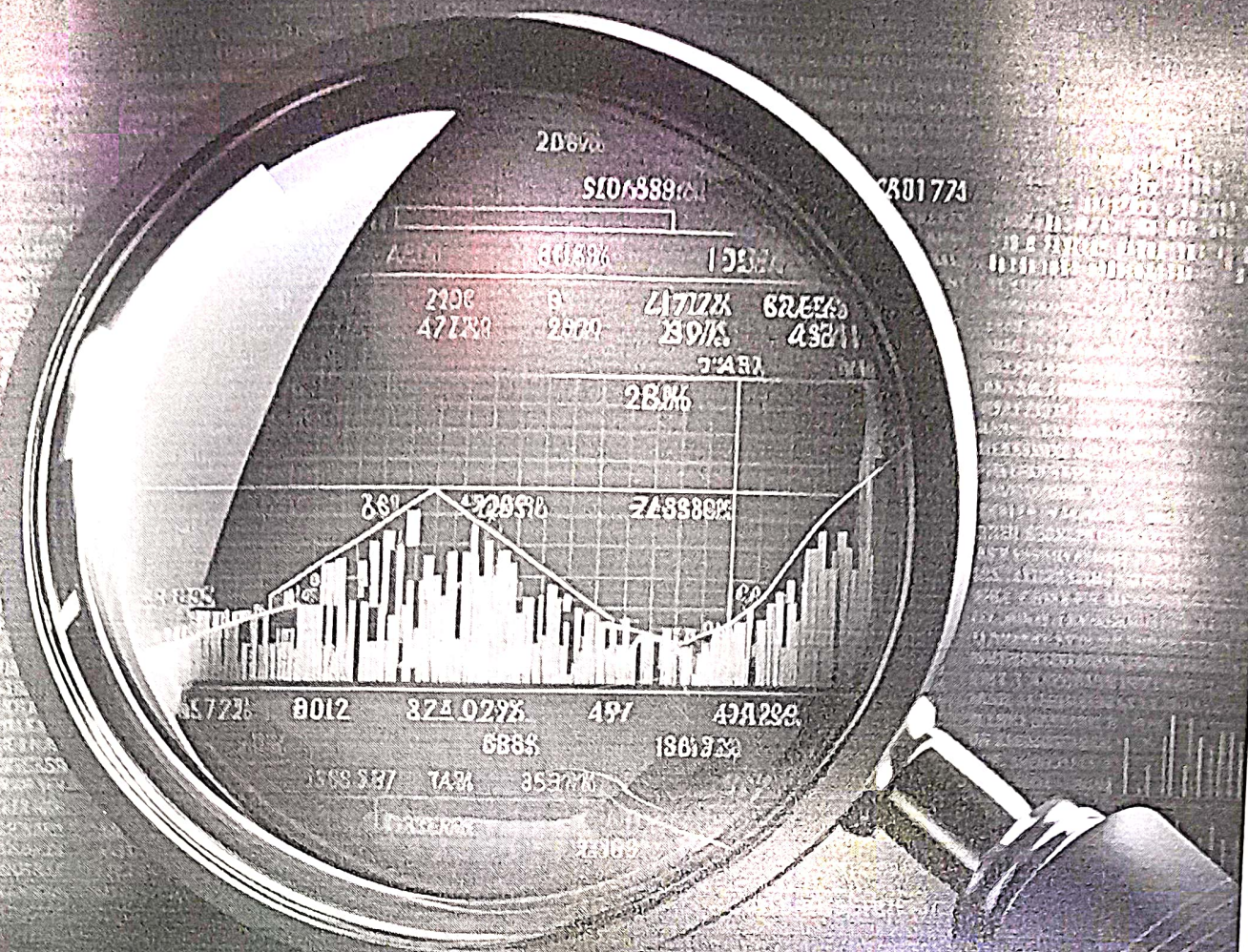
EPIDEMIOLOGY:

Established studies showed that an estimated 90% of females of reproductive age were impacted by mild to acute premenstrual symptoms. Among them, about 20% to 40% encounter PMS, while 2% to 8% experience premenstrual dysphoric disorder, a severe type of premenstrual syndrome, characterized by cyclical mood alterations leading to clinically marked distress, as well as functional impairment. The rate of PMS is believed to be high among this population, and it adversely affects their life and academic performance. The prevalence of PMS among the university students of different countries are as follows; for example, 33.82% in China, 37% in Ethiopia, 39.9% in Taiwan, 65% in Egypt, 72.1% to 91.8% in Turkey, and 79% in Japan.

Two risk factors for PMS are obesity and smoking. Research reveals that women with a body mass index of 30 or above are nearly three times as likely to have PMS than women who are not obese. Women who smoke cigarettes are more than twice as likely to have more severe PMS symptoms. [2]

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CHAPTER

PROSPECTIVE APPLICATIONS AND IMPLICATIONS OF ARTIFICIAL INTELLIGENCE IN THE FIELD OF PHARMACY

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Abstract:

The pharmaceutical sector is going through a significant transformation due to artificial intelligence (AI), which has revolutionised drug discovery, development, and delivery. The industry may use AI to examine enormous amounts of data, forecast results, and develop patient-specific remedies. AI aids in the faster and more accurate identification of novel therapeutic targets and compounds during the drug discovery process, compared to conventional techniques. This has led to quicker medication testing and development, as well as the discovery of novel illness treatments. Artificial intelligence aids in the prediction of a medicine's safety and effectiveness prior to human testing in the drug development process. By doing this, time and money are saved by lowering the number of clinical trials that fail. AI in healthcare aids in the analysis of patient data and the discovery of trends that guide treatment choices. AI algorithms can also be used to remotely monitor patients, giving them feedback on their health in real time and warning medical professionals of possible problems before they get worse. All things considered, AI is revolutionising the pharmaceutical sector by offering fresh perspectives, quicker medication discovery, and more individualised treatment choices. Artificial Intelligence has immense potential to advance medical science and improve patient care as it continues to develop. The present review focus on prospective applications and implications of artificial intelligence in the field of pharmacy.

Keywords: Artificial Intelligence; Pharmacy; Drug Development;

Introduction:

Artificial Intelligence (AI) has the potential to revolutionise the field of pharmacy, leading to significant improvements in patient care and outcomes. In recent years, the use of AI in pharmacy has been on the rise, and its applications are vast and varied. From drug discovery and development to personalised medicine, AI is transforming the way pharmaceutical companies operate and healthcare professionals deliver care.

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