

Evaluation On Substance Abuse & Chemical Changes in Human Body

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Abstract:

The development of clinical diagnosis has depended on the amount of substance has taken in the Human Body. In recent years, more issues in the working places have allowed medical researchers to develop strategies to meet patient's expectations, improve planning to protect their mental health, and provide specific guidelines for using advanced drugs to reduce the stress level of the patients. This research aims to evaluate how chemical are impacting the human bodies in various ways. The study enhances the understanding of the importance of prescription drug usages that helps to uplift the mood of the patients. In this context, the role of chemical drugs among the patients for the betterment of their physical as well as mental health has been identified in this study. Furthermore, it has been found that the several patient's from all over the world taking prescription based substance to avoid painful psychological syndrome.

Keywords: Usage of drugs, E-pharmacy, chemical changes, neurobiology, different dimension of substance, blockchain system.

1. INTRODUCTION

Over the various decades humans has engaging themselves into various chemical and substance usage. Various pre-occupied notions have been identified on the using pattern of the chemical substances. Although, sample amount of substance usages, led to serious physical turbulences [3]. However, human have gained enormous amount of benefits from the prescription based substance usage. For instance, alcoholics, maniacs have to take substance on the basis of their doctors' opinion on a regular basis. This helps them to reduce undesirable thoughts such as willing to consume alcohols in an excessive manner. Moreover, various life problems such as depression, psychosocial dysfunctions, apathy and various developmental lags- this reasons could be treated by adequate substance usages under the medication of medical treatment. [6].



Figure 1: Factors influencing brain mechanism

Past studies have shown significant impacts on the substance abuse that it is highly influenced by the familial drug records, coexistence of an individual in intimate circles ^[2]. Various detrimental effects of the chemical substance have been identified. As the over usage of drug substances could gradually destroy the immune system of an individual. It also effects in the conviction of the dehydration-induced seizures for the alcoholic patients. It has been from the previous studies, there are several stages of the changing pattern in the drug usage ^[8]. In addition, drug usage leads to abusive behavior that causes emotional pain. Moreover, Drug abuse encompasses wide range of stages such as action pre-contemplation, maintenance, contemplation and preparation. Various studies have shown the significance of chemical reactions occurring continuously on the human body due to use of substances. Moreover, these chemicals drive the procedure of the life circle ^[11]. It can be said eloquently, that this chemicals can take the control of all over the human organs. As an example, secretion of the dopamine on the happy occasions triggers the changes in the human body.

II. OBJECTIVES

- To investigate the evaluation on substance abuse
- To understand the impact of changes of chemicals in Human Body
- To evaluate neurobiological effects of substance usage
- To examine various dimension of substance usage
- To demonstrate the effects of drug abuse in the brain function
- To analyze the cause and effects of prescription drugs

III. METHODOLOGY

Various studies have found, a significant amount of populations have suffered from the illicit drug usage. For instance, 7 million people have been reported that 7 million people have faced the usage disorder of the illicit drug abuses ^[5]. Moreover, one in four deaths has been reported for the reason of the alcohol, prescription drug use and tobacco usage. Several scientists have mentioned, mixing the substances is never safe. It has been shown effects of the compounded drugs are more impact full and more unpredictable. This can lead to damage of nerve system and resulting the deadly consciences.

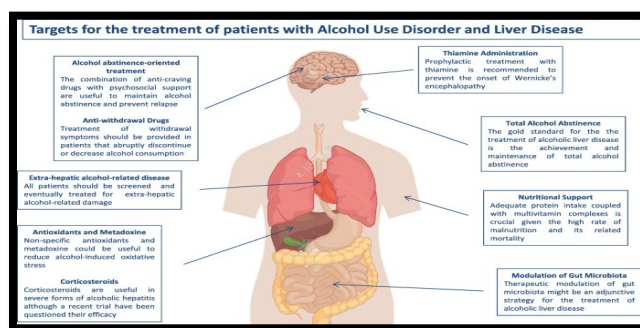


Figure 1: effected areas of human bodies on the usage of the alcohol abuse

Various detrimental effects of the chemical substance have been identified. As the over usage of drug substances could gradually destroy the immune system of an individual [9]. As illustrated on the above picture, excessive usage of alcohol usage could impact several parts of the body.

IV. E-PHARMACY

Virtualization of every resources of human society has become significant in the modern time. Over the last few decades availing internet services has become integral part of the life. Especially, after the COVID-19 pandemic human race have become heavily dependent on the internet [5]. The E-pharmacy is an emerging notion that indicates the changing pattern of pharmaceutical services. This phenomenon signifies trading the medicines according to requirements to the consumer within stipulated time. Therefore, the process of drug purchasing has become more convenient and effortless. Moreover, E-Pharmacy model distributed and strategically organized each and every essential medical product as per the different medical segment. Various advantages and disadvantages of E-pharmacy have been identified [3]. One of the importance's of E- Pharmacy application is it take very less time to order. Besides that, one can take benefits of this application to save money. Moreover, this application maintains privacy and confidentiality of every penitent.

V. NEUROBIOLOGY

Several scientists have concluded their research on the substantial study of the body [12]. Neurobiology refers an Intellectual basis which is interested with the crucial facts of the biological mechanisms which is closely related to the mediate behavior of the neurosystem [4]. Past studies have shown, any addiction cycle can be explained by the mechanisms of the neurobiology. The domain of this study includes the functions of the particular brain circuits. Moreover, various advantages and disadvantages of neurobiology have been identified [5]. Through the neurobiological process molecular and neurochemical interchange in between different brain circuits can be examined efficiently. Thus, neurobiological methods can significantly analyze the effects of the chemical in the brain.

VI. DIFFERENT DIMENSION OF SUBSTANCE

Dimension	Description
Physical	Significant among teenagers
psychosocial	Identified among psychological patients
Environmental	Usage of magic mushroom

Table 1: Different dimension of substance

Various dimension of substances usage has been found by eminent scientist. Dimension of drug substance encompasses wide range of stages including emotional dimension, Environmental dimension, financial dimension, Physical dimension, Social dimension and spiritual dimensions [6]. Moreover, various life problems such as depression, psychosocial dysfunctions, apathy and various developmental lags- this reasons could be treated by adequate substance usages under the medication of medical treatment.

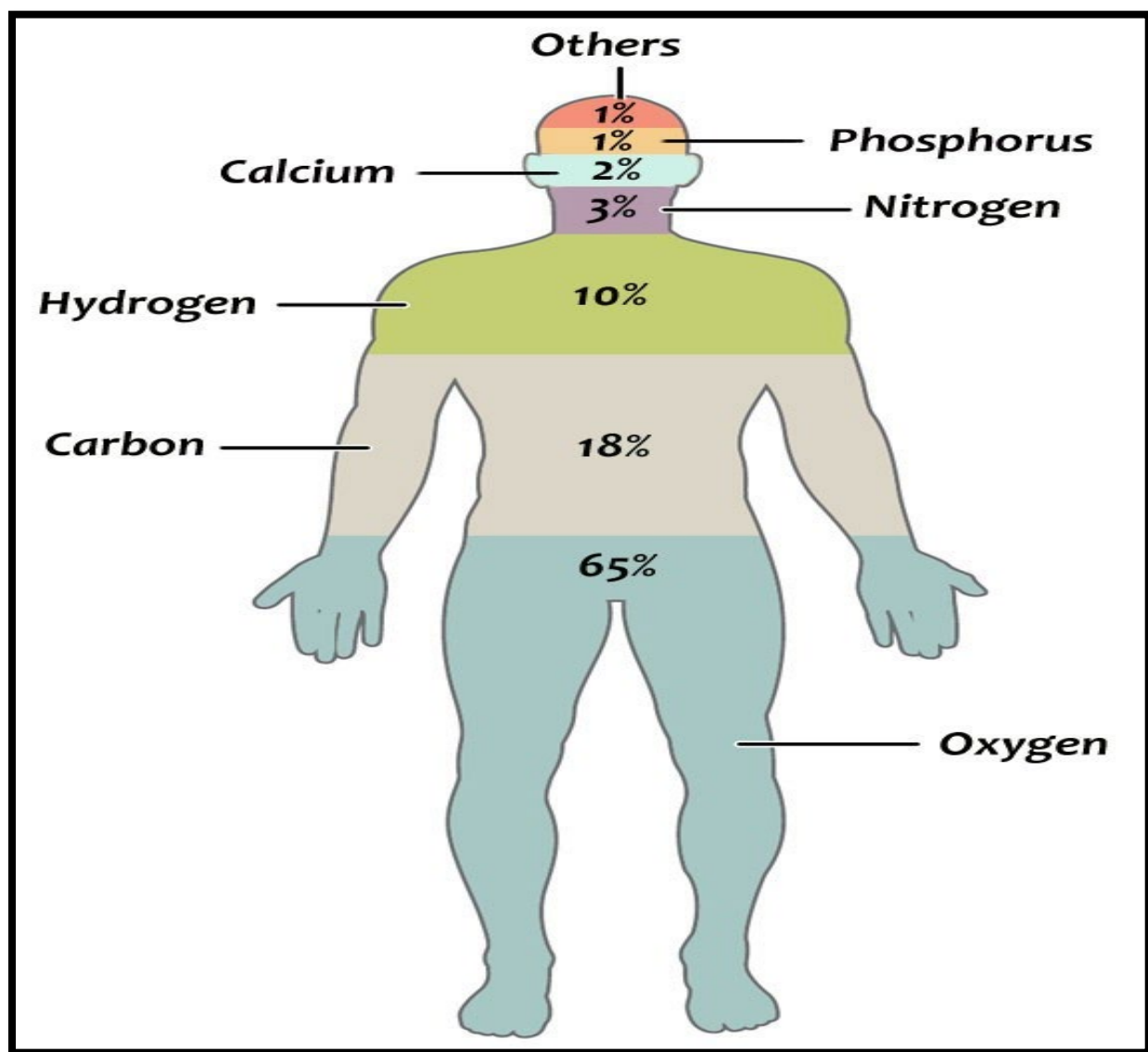


Figure 3: Chemicals in human body

Although, it has been seen many teenagers are using drugs because of their facial problem. Past studies have found in modern times women are taking more drugs than the men. Besides that, several life factors have influenced the people to taking drug substances such as poor academic performance, toxic friends group ^[10]. Various studies have shown the significance of chemical drugs among the patients for the betterment of their physical as well as mental health ^[4]. Furthermore, it has been found that the several patient's from all over the world taking prescription based substance to avoid painful psychological syndrome. Moreover, various psychological

problems have been cured by the usage of chemical substances. Moreover, the different chemical substances such as LSD, magic mushrooms are harmful for the immune system [9]. These are considered as psychedelic drugs and depict the state of spiritual imaginations. Several studies have shown detrimental effects of these drugs in case of extensive psychedelic drug use [14]. An eminent scientist is well known for the research on this domain, named Terence Makena.

VII. SIGNIFICANCE OF BLOCKCHAIN SYSTEM

The healthcare industry is regarded as the backbone of any nation as it has a significant impact on the welfare of the people [7]. Healthcare services can be categorized into four following sub-sections as Pharmaceuticals and connected sections, Health care amenities and facilities, Medical insurance and assistance, Medical gadgets, instruments, and hospital supplies constructors. Technological advancement is shaping the dimensions of the healthcare industry over the last few decades [6]. Health technology assessment (HTA) have developed for evaluating patient data systematically, block chain system is one of them. This study has explored the indications of a blockchain-based record system in improving patient disease evaluation. This research has examined the importance and principles of the blockchain system in the healthcare industry.

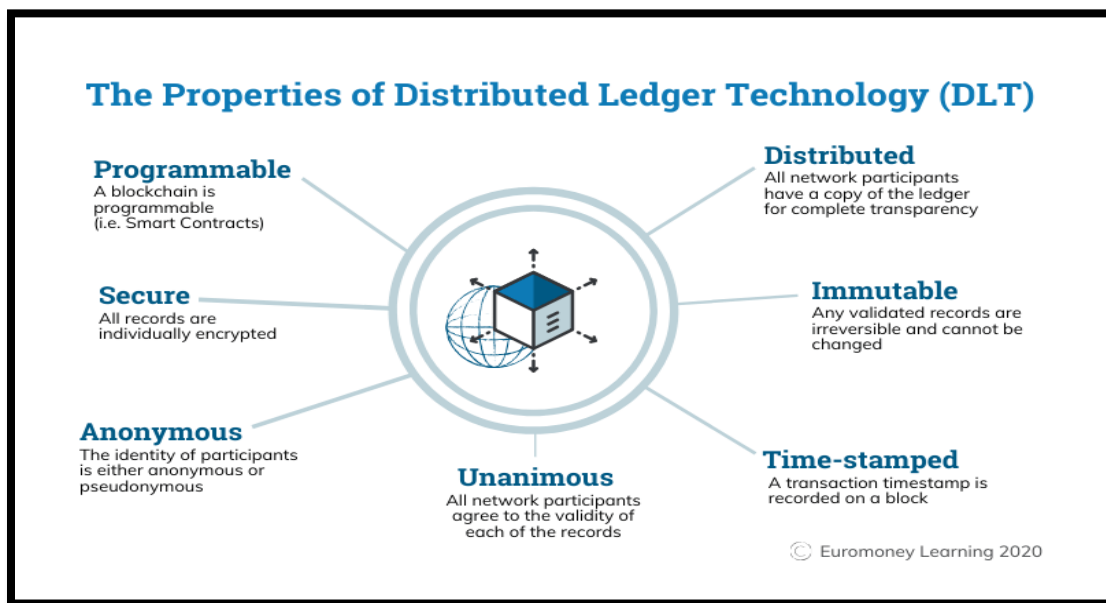


Figure 4: properties of block chain record system in healthcare

In this research, it has been shown that the blockchain system provides a proper structure for impersonal issues and helps to sustain the economic structure of the organizations by reducing the uncertainty of clinical delivery ^[13]. Various studies show quality record tracking can be done by the proper implication of blockchain management in the healthcare industry. Thus, the systematization of data and structured management of patients' issues can be done accordingly through this advanced system.

X. PROBLEM STAMENT

In this study, several detrimental issues have been identified for the expanding amount of the drug usage. In order to reducing the alcoholic addictions, medical assistances and reputed doctors suggested various prescription drugs [8]. It can be concluded that some appropriate drug substances helps to mitigate the risks of the patient even in critical health issues and provide impersonal clinical trials. Moreover, medical executives are suggested to use various tools such as the TAM model to escalate the productivity of the healthcare system along with a blockchain-based record system. Furthermore, this system is created to secure the data of every individual and provide a structured medical record of the patients.

CONCLUSION

It has been found in this study, various adequate and inadequate effects have been found for the usage of substance and along with those various types of drug usage has been explored in this study.

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