



Combating Drug Abuse among Students in Nigerian Tertiary Institutions: Prevention and Management Strategies

*¹Isola, O.B., ¹Onigbinde, M.O., ²David, T.S., & ³Akpati, C.F.

¹Chemical Sciences Department, Glorious Vision University, Ogwa, Edo State, Nigeria

²Department of Mass Communication, Glorious Vision University, Ogwa, Edo State, Nigeria

³Department of Languages, Glorious Vision University, Ogwa, Edo State, Nigeria

*Corresponding author email: dotmanchope@gmail.com

Abstract

Drug abuse is a trending global challenge among youths, especially those in tertiary institutions. Nigeria, having well above 1000 institutions comprising of universities, polytechnics and colleges of education, is not exempted from this menace. It is adduced by scholars that this current trend is caused by different factors such as peer pressure, poverty, lack of parental upbringing, unemployment and easy access to substances like alcohol, heroin, marijuana, and tramadol. This article highlights the urgent need for comprehensive strategies to tackle this multifaceted challenge, emphasizing the detrimental effects of substance misuse on academic performance, mental health, and social behavior. Despite government initiatives aimed at raising awareness and providing rehabilitation services, significant barriers like inadequate funding and limited mental health resources hinder effective intervention. The paper advocates for a holistic approach that involves various stakeholders-including educational institutions, families, community leaders, and religious organizations-to develop robust prevention programs. The article concludes that addressing drug abuse in Nigerian tertiary institutions requires a concerted effort to implement evidence-based strategies that mitigate immediate effects and foster long-term resilience among students. By prioritizing prevention and management initiatives, stakeholders can contribute to creating safer educational environments that enhance the well-being and academic success of Nigerian youth.

Keywords: Drug Abuse, Nigerian Tertiary Institutions, Students, Prevention, Management

Introduction

Drug abuse among students in tertiary institutions has become a pressing global challenge with severe societal and educational implications. Nigeria, with more than 1,000 higher institutions-including universities, polytechnics, and colleges of education-hosts a student population of over 2.8 million (FME, 2023). Among these, 62 federal, 63 state and 147 private universities (NUC, 2024) highlight the scale and diversity of the nation's higher education landscape. Within this context, drug abuse among undergraduates has emerged as a critical issue, threatening academic performance, student well-being, and social stability. Though the problem extends beyond campuses to other groups such as drivers, politicians, celebrities, and athletes, university students are particularly vulnerable, prompting urgent concern from policymakers, educators, and parents. Globally, drug abuse-including use, misuse, and illegal distribution-has been linked to organized crime, corruption, terrorism, and public health crises (UNODC, 2017). In Nigeria, its multicultural and multi-religious society adds complexity, as perceptions of what constitutes "drug abuse" vary (Jatau et al., 2021). Empirical studies consistently highlight the prevalence of substance abuse among students. For instance, Ibeto (2024) reported a lifetime psychoactive substance use rate of 84.5% at Imo State University, with alcohol as the most commonly abused substance. Similarly, Abazie and Etal (2022) found that drug abuse undermines academic performance and contributes to examination malpractice and social vices.

Studies further reveal that Nigerian youths frequently abuse cannabis, tramadol, heroin, codeine, and benzodiazepines, often motivated by stress relief, peer influence, or the pursuit of pleasure (Jatau et al., 2021; Idowu et al., 2018). Oluwasola et al. (2021) and Ibeh (2022) emphasize that beyond academic decline, drug abuse among students is linked to mental health challenges and risky behaviors. Collectively, these studies underscore the urgent need for evidence-based interventions. Despite the growing body of literature on substance abuse among Nigerian youths, gaps remain. Much of the existing research focuses on secondary school students or general youth populations rather than specifically addressing the unique vulnerabilities and institutional dynamics of tertiary education. Furthermore, while several studies document prevalence and causes, fewer examine comprehensive prevention and management strategies tailored to Nigerian universities. This paper therefore seeks to bridge this gap by exploring the menace of drug abuse in tertiary institutions, with particular emphasis on prevention and management measures that engage stakeholders such as educational institutions, families, communities, and policymakers.

Classification of Substance Commonly Abused

Drugs are classified base on chemical similarities, legal definitions and therapeutic effects. Nigeria like most other countries has legal classification systems for drugs. This system determines the circumstances under which the drug is legal, requirement for production, distribution, manufacture and legal penalties. The requirements and certification by National Drug Enforcement Agency (NDLEA) and National Agency for Food and Drug Administration and Control (NAFDAC) must be met. The most commonly abused drugs among Nigerian school students, particularly in tertiary institutions, include:

1. **Alcohol:** Alcohol is the most widely abused substance in the world due to its availability. Alcohol is a central nervous system depressant (CNS) and causes heart and liver damage or results into psychological, physical, and social complications. Example includes Beer, liquor and wine
2. **Benzodiazepines (Benzos):** they are kind of drugs that function by interacting with the neurotransmitter gamma-aminobutyric acids-A (GABA-A). They are prescribed for psychiatric patients to induce sleep conditions, but are commonly much abused. Examples of Benzodiazepines are Lorazepam (Ativan) and Alprazolam (Xanax) and valium, which are the most commonly prescribed depressants.
3. **Opioid:** Using Opioids can cause a person to experience confusions, psychosis, and hallucinations. It works by interferes with the brain's receptors mimicking the effect of neurotransmitter. Therefore, its users become physically dependent on the substance very quickly. Examples include morphine, codeine, methyl morphine, heroin, fentanyl and oxycodone.
4. **Cannabinoids:** Cannabinoids, ranking just after alcohol in terms of widespread misuse, are compounds found in cannabis plants. Their primary psychoactive ingredient is tetrahydrocannabinol (THC), with marijuana and hashish being the most common forms. Prolonged or excessive use of cannabinoids can lead to addiction and may result in serious or irreversible damage to the nervous system.
5. **Crack Cocaine:** Crack is a potent, smokable derivative of cocaine that produces a rapid and intense feeling of euphoria. Due to its low cost, it is frequently misused, often leading to a high risk of immediate dependence and addiction.
6. **Amphetamines:** These are stimulant drugs known for boosting physical energy and mental alertness. However, chronic or excessive use can trigger episodes of extreme agitation, paranoia, erratic behavior, and even delusional thinking.
7. **Hallucinogens:** Common in club and rave culture, hallucinogens alter perception, mood, and sensory experiences. While users often seek enhanced or distorted experiences, these substances carry significant physical and psychological risks, including dangerous behavior or even fatal consequences during intoxication.
8. **Stimulants:** Drugs such as Ritalin, Adderall, cocaine, and methamphetamine are classified as stimulants, commonly used to increase focus and energy. While Adderall is prescribed to manage ADHD, its misuse can result in prolonged hyperactivity and serious cardiovascular issues, including the risk of heart attack.
9. **Inhalants:** These are volatile substances inhaled through the nose to produce psychoactive effects. Commonly abused inhalants include spray paint, butane, and nitrous oxide. Despite their accessibility, they can cause immediate and severe health problems.
10. **Prescription Drugs:** Medications legally prescribed by healthcare providers-such as sedatives, anti-anxiety agents, and stimulants for ADHD-are frequently misused. Prescription drug abuse ranks as the second most prevalent form of substance misuse.

11. **Ecstasy (MDMA):** Often used recreationally, ecstasy induces intense feelings of pleasure, altered perception, and hallucinations. However, its abuse can lead to serious side effects such as dehydration, overheating, and, in severe cases, life-threatening complications.

Mechanism of Drug Activities

The molecular mechanisms or the biochemical processes of abused drugs have not been fully understood, many abused drugs are known to bind to specific neuronal membrane proteins that produce effects on cellular signaling and ultimately on behavior (Lindsay et al., 2016). The chemistry of drug activities involves the interaction of drugs with specific receptors in the body, producing a pharmacological effect in the body. Drugs bind to specific receptors on cell membranes, cytoplasm or nuclear materials of a cell. The drug chemical structure matches a site on the receptor allowing the drug to bind. Drugs can also work by interacting with chemical and physical properties in the body (Examples includes laxatives and antacids), replace deficient chemicals in the body; interfere with cell functions and act against abnormal cells and pathogens (antibiotics). Although, several studies have been conducted on the binding, structure, and actions of drugs of abuse, emerging techniques in genomes and advances in proteomic techniques is changing the narrative on studies, diagnosis and novel pharmaceutical targets for drug addiction treatment.

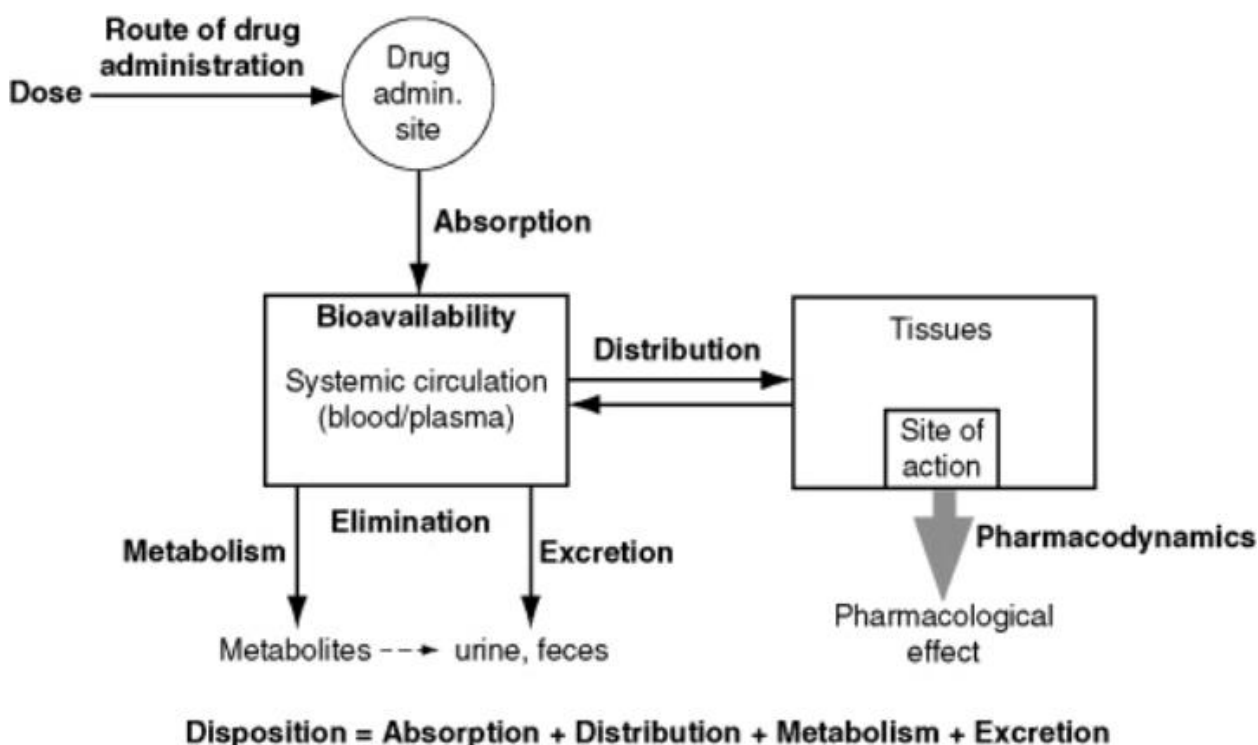


Fig. 1: Pharmacokinetic and Pharmacodynamics of Drug Action

The mechanisms of action of some of the common abused drugs are discussed below:

1. **Alcohol:** alcohol is a sedative and mild anesthetic. As a sedative agent, alcohol produces physiological changes that occur with increasing blood alcohol concentration in the body. Alcohol interfere with brains communication pathways, which affects mood and behavior e.g assertiveness, eloquence, talkativeness etc. alcohol are bonded to a molecular target in the nervous system and activates the release of neurotransmitter like dopamine and serotonin with feelings of pleasure or reward, relaxation and euphoria. Studies revealed that alcohol are bounded to certain proteins (N-methyl-D-aspartate (NMDA) receptors, and inhibitory γ -aminobutyric acid type A (GABA) and glycine receptors) (Harris et al., 2008) and enzymes in the body. Those enzymes includes γ alcohol dehydrogenase and adenylyl cyclase (Rosell et al., 2003), G protein activated inwardly rectifying potassium channels (GIRK, Kir 3), large conductance calcium-activated potassium channels (BK, slo-1, and KCNMA1), small conductance calcium-activated potassium channels

(SK), and the voltage-gated Shaw2 potassium channels (Kv3 and KCN) (Aryal et al., 2009). A number of known alcohol-related toxicities and medical complications might occur with alcohol use, such as sexual dysfunctions, amenorrhea, liver damage/cirrhosis, heart disease, cancer, neuropsychiatric disorders. The lethal dose (LD₅₀) for alcohol is about 0.40 gm % (Koob and Le Moal, 2006).

2. **Cannabinoid:** Cannabinoid are obtained from the stalk, leaves, flowers and seeds of the plant and are highly concentrated in the resin secreted by female cannabis plant (*Cannabis sativa*). Research revealed that more than 60 compounds are present in the resin of cannabis collectively called cannabinoid (Lindsay, 2016). Herbal cannabis contains over 400 compounds that are aryl-substituted mero-terpenes unique to the plant genus cannabis (Ashton, 2001). Potent psychoactive agent in the plant includes Δ^9 tetrahydrocannabinol (Δ^9 -THC, or THC), Δ^8 -THC, cannabinol, cannabidiol, cannabichromene, anandamide, (-)- Δ^8 -THC-II-oic acid and II-hydroxyl- Δ^9 -THC. Cannabis is anxiolytic, analgesic, sedative and psychedelic; it stimulates appetites and has many systemic effects (ashton, 2001). Cannabis is smoked or eaten or drank as an extract, when it is inhaled or smoked, it is quickly absorbed through the lungs, enter the blood stream to the brain and other body tissues depending on the rate of blood flow or circulation. Cannabis is highly lipid soluble and it is rapidly distributed to well vascularize organs like the brain, heart, liver and lungs. The effect of cannabis intake in the body is dose dependent, the intoxication can lead to disinhibition, euphoria, increased hunger or thirst, feelings of relaxation, and enhanced sensory perception. Cannabinoid-induced effects on neurotransmitter systems further contribute to the mechanisms of cannabinoid action in the brain. For example, acute and repeated doses of THC inhibit acetylcholine (ACh) release through activation of CB1 receptors (Carta, Nava, and Gessa, 1998). Cannabinoids also bind and positively modulate the function of strychnine-sensitive glycine receptors and demonstrate some selectivity for $\alpha 1$ and $\alpha 3$ compared to $\alpha 2$ subunits (Xiong et al., 2012a). Both psychoactive and psycho-inactive cannabinoids produce analgesia via action at glycine receptors. The nociceptive effects of cannabinoids to suppress inflammatory and neuropathic pain are due to their action at $\alpha 3$ subunit containing glycine receptors (Xiong et al., 2011; 2012b).

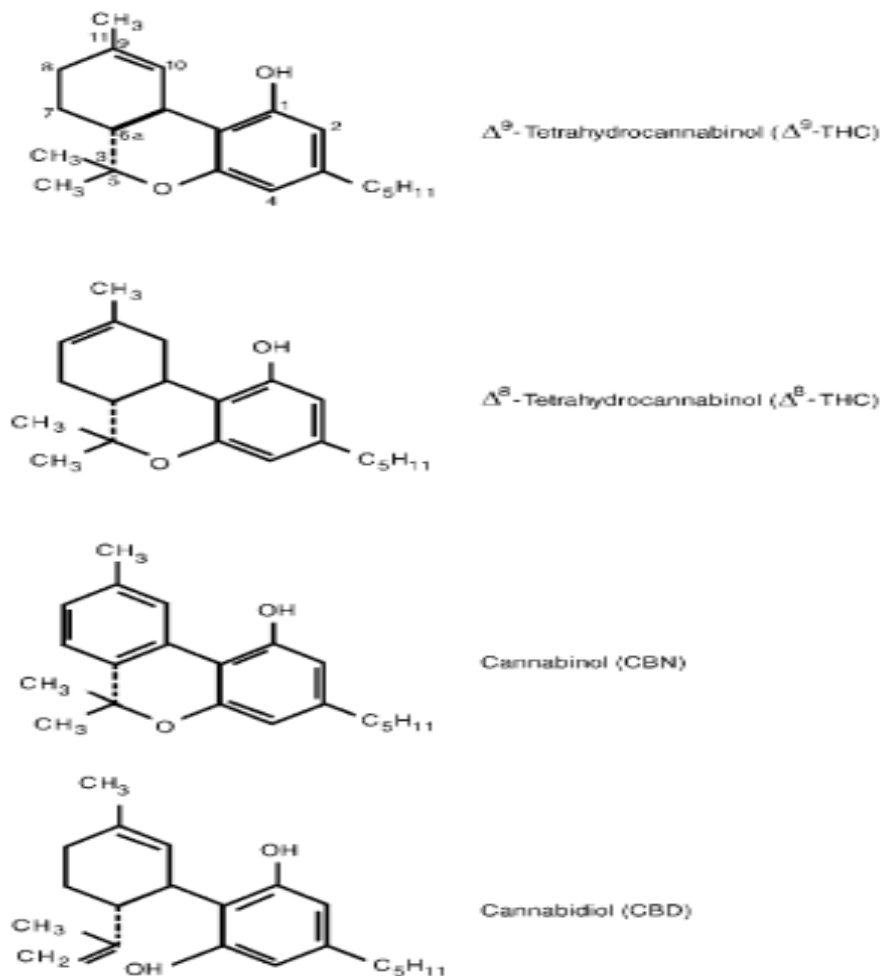


Fig. 2: Chemical structures of main cannabinoid in *cannabis sativa* (Ashton, 2001)

- 3. Marijuana:** Smoking is the most common route of marijuana administration, during which tetrahydrocannabinol (THC), the active ingredient quickly enters the circulation due to rapid absorption through the lungs (Lindsay, 2016). Other means of assimilation is through oral injection. The half-life of THC is approximately 20–30 hours.
- 4. Hallucinogen:** the primary effect of hallucinogens is to produce alterations in perception, thought, or mood at relatively low doses. Hallucinogens are categorized as psychedelics, dissociatives, or delirants. These psychedelic compounds are divided into two categories: indoleamines and phenethylamines. The indoleamines include lysergic acid diethylamide (LSD), psilocybin, and N, N-dimethyltryptamine (DMT), whereas methylenedioxymethamphetamine (“ecstasy” or MDMA), methylenedioxyamphetamine (MDA), dimethoxymethylamphetamine (DOM), and mescaline are phenethylamines (Lindsay, 2016). Both classes of hallucinogens produce their effects through common action on the serotonin (5-HT) system, presumably due to structural similarity with this neurotransmitter

Testing for Drug Abuse

Samples of body fluids like the urine, blood, saliva, sweat or hair of a drug addict patient are tested for drug of abuse. Urine testing is most common quantitative techniques because it is noninvasive, quick and can detect a wide range of drugs, usually about 1-4 days after taken the drug. Drug testing using blood is less common because it is invasive and has a shorter window of detection unlike urine. Today, a screening method widely used to test validity of drug is a screening test with qualitative urine immunoassay. Such screening test is associated with a number of false positive and false negative results. The methods use antibodies to detect the presence of drugs or their metabolites in a urine

sample at or above the specified cut off levels. Other preferred confirmatory methods are gas chromatography/ mass spectrometry (GC/MS) and High Performance Liquid Chromatography.

Table 1: showing the cut off levels of various types of drugs of abuse.

Abbreviation	Test	Cutoff
AMP	Amphetamine	1000 ng/ml
BAR	Barbiturates	200 ng/ml
BUP/NBUP	Buprenorphine/Norbuprenorphine	10 ng/ml**
BZD	Benzodiazepine	300 ng/ml
COC	Cocaine	300 ng/ml
MET	Methamphetamine	1000 ng/ml
MET500*	Methamphetamine	500 ng/ml
MOR	Morphine	2000 ng/ml
MOR300*	Morphine	300 ng/ml
MTD	Methadone	300 ng/ml
PCP	Phencyclidine	25 ng/ml
PPX	Propoxyphene	300 ng/ml
TCA	Tricyclics	1000 ng/ml
THC	Marijuana/Hashish	50 ng/ml
XTC	MDMA or Ecstasy	500 ng/ml

** Not SAMHSA levels. **Combined concentrations of Buprenorphine (BUP) and Norbuprenorphine (NBUP).*

Principle

The multi-drug urine test device typically includes between one (1) and twelve (12) test strips, each designed to detect specific drugs. This diagnostic tool utilizes a one-step lateral flow chromatographic immunoassay, which operates on the principle of competitive binding. In this process, drug molecules or their metabolites in the urine sample compete with a drug-protein conjugate that is fixed onto a porous membrane for a limited number of antibody binding sites. As the urine sample travels across the membrane by capillary action, it mobilizes colored antibody conjugates. These conjugates continue moving until they reach the test region. If the urine does not contain the drug or if the drug concentration is below the cutoff threshold-, the conjugates bind to the immobilized drug antigen, forming a visible burgundy-colored line (T-line). However, if the drug is present at or above the cutoff level, it occupies all the available antibody binding sites, preventing the conjugates from binding to the test region and resulting in no line formation. A separate control line (C-line) serves as an internal system check, which must always appear as a burgundy-colored band, confirming that the test is functioning properly.

Causes of Substance Abuse among Students

According to Dennington (2020) and Mosel (2024), the causes of substance abuse among students include:

1. **Peer Pressure:** Institution environments, characterized by party culture and social gatherings, can subject students to peer pressure to engage in substance use to fit in or find a sense of belonging.
2. **Social Anxiety:** Students facing social anxiety in new environments may turn to drugs and alcohol to alleviate nerves and loosen up, potentially leading to substance abuse.
3. **Curiosity:** The exploration of new aspects of life during college can drive students to experiment with drugs and alcohol out of curiosity, contributing to substance abuse.
4. **Greek Life Influence:** Involvement in Greek life on college campuses can expose students to higher rates of binge drinking and drug abuse, influencing substance use behaviors.
5. **Stress and course load:** The pressure to meet academic requirements and stress arising from other obligations may drive students to use of drugs like stimulants to stay awake, manage stress and enhance performance, potentially leading to substance abuse.
6. **Family History:** Students with family members with drug or alcohol use issues have an increased risk of addiction, indicating a potential genetic predisposition to substance abuse.

These factors contribute to the prevalence of substance abuse highlighting the complex interplay of social, environmental, and individual factors that influence drug use in educational settings.

Signs and Symptoms of Drug Addiction

Drug addiction often goes unnoticed for extended periods because the experience and progression of addiction differ from one individual to another. In many cases, individuals may misuse substances for years without recognizing or acknowledging the harm being done to their body. However, over time, the long-term psychological, emotional, and physical consequences become evident. The symptoms of addiction can be categorized into four main groups:

1. Emotional Symptoms

These symptoms affect an individual's emotional health and stability. Common emotional indicators of drug addiction include irritability, depression, frequent mood swings, deep sadness, sudden bursts of euphoria, and episodes of manic energy followed by emotional and physical exhaustion.

2. Behavioral Symptoms

Drug addiction can significantly alter a person's behavior, routines, and priorities. Behavioral signs may include dishonesty, theft, erratic or unpredictable actions, insomnia or excessive sleeping, withdrawal from social groups, legal troubles, poor performance at work or school, secrecy about whereabouts, and a loss of interest in previously enjoyed activities.

3. Physical Symptoms

Physical signs of drug dependence are often visible and affect the body's appearance or functioning. These may include symptoms such as chills, nausea, persistent headaches, disrupted sleep patterns, significant weight loss or gain, and other noticeable health issues.

4. Cognitive Symptoms

Addiction also influences mental processing and perception. Cognitive symptoms can manifest as paranoia, hallucinations, confusion, and a disconnection from reality. These impairments can interfere with decision-making and rational thought.

Effects of Drug Abuse

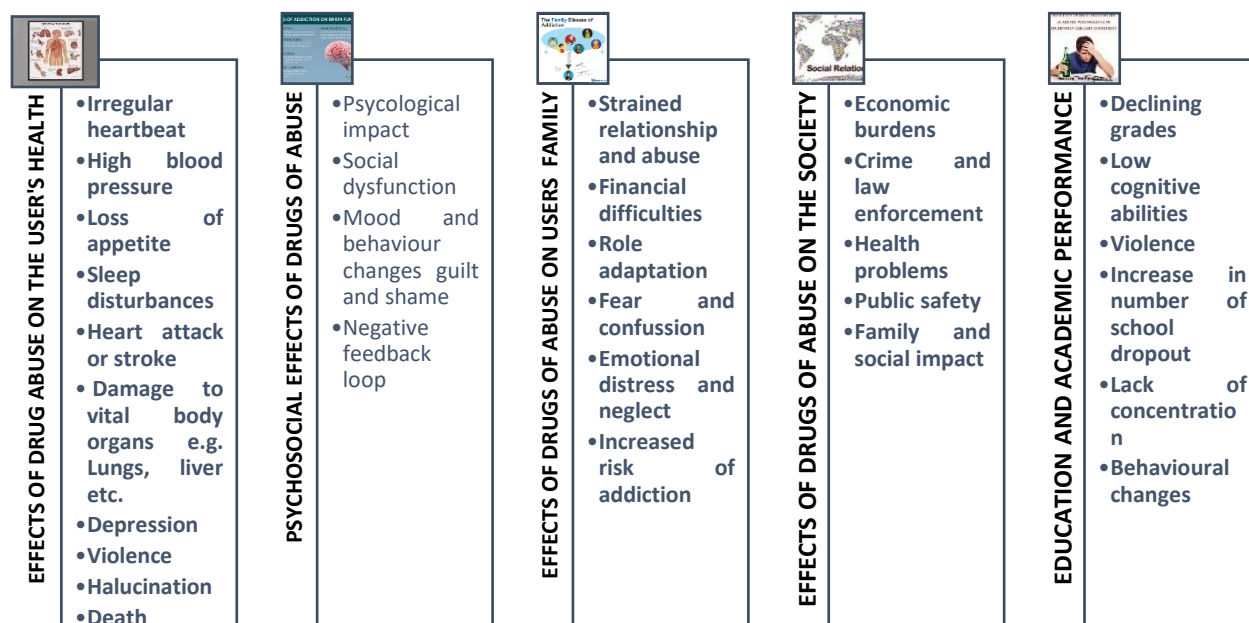


Fig. 3: Effects of Drug Abuse

Drug abuse has far-reaching effects that extend beyond the individual to their families, educational institutions, and the wider society. These effects can be grouped into five major domains: education, health, family, society, and psychosocial well-being (fig. 3). The effects of drug abuse on the academic performance of Nigerian school students are significant and detrimental, according to Abikwi and Okafor (2022) and Adewale (2022). Understanding these effects in addressing drug abuse among students in Nigerian tertiary institutions is crucial to safeguarding their academic achievements, mental well-being, and overall educational experience. Efforts to prevent and combat substance abuse in educational settings are essential to ensure a conducive learning environment and promote positive academic outcomes. The menace of drug abuse has brought about various negative effects on education and the society. drug abuse undermines students' academic achievement. Addiction reduces concentration, weakens memory, and diminishes learning abilities, leading to poor performance, declining grades, and absenteeism. In many cases, this escalates into indiscipline, violence, and eventual school dropout, thereby lowering educational standards and producing a generation of half-educated or uneducated youths.

Health-wisely, Drug abuse can be fatal, with overdose and death representing the most severe outcomes. Each instance of drug use carries the potential risk of these life-threatening consequences. Beyond the risk of death, drug abuse can lead to a range of serious health problems, including irregular heartbeat, high blood pressure, loss of appetite, sleep disturbances, increased likelihood of heart attack or stroke, and damage to vital organs such as the lungs and heart. In addition to the physical toll, substance abuse often incurs significant emotional, psychological, and financial burdens. Individuals struggling with addiction may experience mood swings, irritability, aggression, hallucinations or delusions, impaired concentration and decision-making, paranoia, depression, anxiety, and in some cases, violent behavior-effects that can vary based on the specific substance used.

Within the family, drug addiction strains relationships and fuels conflict, mistrust, and in some cases, abuse. The financial demands of sustaining addiction often impoverish households, while children of addicts are more likely to suffer neglect, emotional trauma, and develop substance use problems themselves, perpetuating an intergenerational cycle of addiction and dysfunction (Hemovich and Crano, 2011; Cenikor Foundation, 2021; Armstrong and Etal, 2023).

The effect of drug abuse on society is profound and far-reaching, as highlighted in the study of Casa Palmera Staff (2019). Drug abuse imposes heavy costs, drains national productivity, increases healthcare expenses, and fuels crime and insecurity. Law enforcement resources are overstretched, while drug-related accidents and violence pose significant threats to public safety. In the end, society bears the burden of rehabilitating addicts, managing crime, and supporting broken families.

The psychosocial effects of drug abuse encompass a wide range of impacts on individuals' mental health, social interactions, and overall well-being, as highlighted in the studies of (Hassan, 2019; Recovery Crossroads, 2023; Poudel and Etal, 2016). Drug abuse erodes individuals' mental and social well-being. Addicts often suffer mood swings, paranoia, and sleep disturbances, which impair their ability to maintain healthy relationships. Many experience guilt, shame, and social withdrawal, creating a cycle in which emotional pain fuels further substance use, deepening the addiction.

Drug Control and Management Strategy

The control and management of drug abuse demand a holistic approach that integrates prevention, treatment, harm reduction, and law enforcement. Scholars agree that focusing solely on punitive measures is insufficient; instead, interventions must combine public health initiatives with institutional and community engagement (National Institute of Health [NIH], 2003; UNODC, 2017). At the global level, recent strategies have emphasized the need for integrated frameworks. For instance, the White House National Drug Control Strategy (2022) prioritized reducing untreated substance use disorders through expanded access to care, lifesaving interventions, and the disruption of drug trafficking networks. This reflects a paradigm shift toward incorporating harm reduction approaches, such as naloxone distribution, syringe services, and drug-testing kits, which allow interventions to meet individuals where they are rather than relying solely on prohibitionist policies (The Jed Foundation, 2022).

In Nigeria, the effectiveness of drug control also depends on the education system. Mamman and Othman (2014) emphasize that school-based prevention programs can significantly reduce the initiation of drug use, especially when supported by peer counseling and comprehensive social skills training. Similarly, Abikwi and Okafor (2022) argue that embedding preventive lessons into tertiary institution curricula strengthens awareness, discipline, and accountability, while also reducing stigma-surrounding addiction. Treatment approaches that combine medication with behavioral therapy have been shown to yield the highest recovery rates (NIH, 2003). Building strong support networks, including family and peer groups, plays an equally critical role in sustaining recovery. Community-driven awareness campaigns further reinforce this process by disseminating accurate information, breaking stigma, and encouraging individuals to seek help (The Jed Foundation, 2022).

Law enforcement remains central in curbing trafficking and dismantling supply chains. However, as UNODC (2017) cautions, focusing exclusively on supply reduction does not adequately address demand. A balanced approach that combines regulation with public health responses is therefore necessary. Finally, improving data collection and research infrastructures ensures that interventions remain evidence-based, timely, and adaptable to changing patterns of drug use (NIH, 2003).

An effective drug control and management strategy must integrate preventive education, institutional and community engagement, treatment and rehabilitation, and law enforcement efforts. By coordinating these measures, policymakers and institutions can reduce the prevalence of drug abuse while fostering resilience among vulnerable populations.

Preventive Measures against Drug Abuse in Tertiary Institutions

Effectively addressing drug abuse in tertiary institutions requires proactive strategies that instill responsibility and awareness among students. One approach is to mandate that newly admitted students sign an affidavit affirming their commitment to remain drug-free, which can serve as both deterrent and reminder of accountability. In addition, compulsory drug testing for fresh students would help to identify those already engaged in substance use and provide opportunities for early intervention and support.

Strict enforcement of campus regulations is equally important. Institutions should prohibit the sale of controlled substances and closely monitor shops and vendors within the school environment to prevent access to commonly abused drugs. Orientation programs for new intakes should include comprehensive education on the dangers of drug abuse, covering its health consequences, academic setbacks, and legal implications, thereby raising awareness at the beginning of students' academic journey.

Furthermore, institutions can strengthen oversight of student associations by requiring mandatory registration with the school administration. This measure ensures that student groups promote positive lifestyles and do not encourage harmful practices. Another preventive step is to administer questionnaires to all incoming students to obtain information on their past or current drug use. The data gathered can help schools monitor trends, identify risk groups, and design targeted prevention programs.

Collectively, these measures-ranging from student declarations and drug testing to regulation, sensitization, monitoring, and data-driven interventions-create a structured framework that discourages drug abuse and promotes a safer, healthier learning environment in tertiary institutions.

Management Measures for Drug Abuse in Tertiary Institutions

Managing drug abuse in tertiary institutions requires a multidimensional approach that combines discipline, support, and rehabilitation. A key strategy is the provision of counseling services within institutions, where trained professionals can help students address underlying psychological issues, develop coping mechanisms, and engage in meaningful discussions about substance use. Peer counseling also plays an important role, as students are often more comfortable sharing their struggles with fellow students, fostering empathy and community-based support.

In severe cases, institutions may temporarily isolate affected students from the campus environment. Such isolation not only prevents further substance use but also provides the individual with a structured space for reflection while receiving counseling and guidance toward recovery. Alongside this, regular campaigns-through workshops, seminars, and outreach programs-should be organized to sensitize the student body about the dangers of drug abuse. Involving student associations in these campaigns can make them more effective, given the influence of peer-to-peer interaction.

Rehabilitation initiatives within institutions, or in partnership with local rehabilitation centers, are also crucial. These programs, which may include group therapy and recovery-focused workshops, provide structured pathways for addicted students to reintegrate into academic life. At the same time, clear institutional policies should spell out the consequences of drug use, including disciplinary measures such as suspension or expulsion for serious infractions. Consistent enforcement of such policies is vital for deterrence and maintaining a safe learning environment.

Support groups further enhance recovery by creating safe spaces where students can share experiences and encourage one another. Regular monitoring and evaluation of drug use trends within the student population also help institutions adapt their strategies to changing patterns of abuse. Collaboration with external health agencies strengthens institutional responses by providing additional expertise, resources, and professional support. Equally important is the training of lecturers and staff to recognize early signs of substance abuse, so that timely interventions can be offered.

Finally, advocacy for government policies that strengthen prevention and rehabilitation frameworks remains essential. With adequate policy support, funding, and community involvement, institutions can create a more effective system of management that not only addresses immediate cases of drug abuse but also fosters long-term resilience among students.

Conclusion

Addressing drug abuse requires a multifaceted approach that includes prevention, education, treatment, support, and community involvement. By implementing comprehensive strategies such as prevention programs, combining treatment approaches, building strong support networks, and prioritizing education and outreach efforts, communities can work towards reducing substance misuse and promoting recovery. Additionally, the control and management of drug abuse involve national strategies focusing on harm reduction, treatment access, data-driven interventions, and law enforcement efforts to disrupt drug trafficking. These efforts aim to save lives, provide care, reduce drug-related harm, and enhance public health responses to combat the drug abuse epidemic effectively. Ultimately, a collaborative effort involving individuals, families, communities, healthcare providers, policymakers, and law enforcement agencies is essential to address the complex challenges of drug abuse and create a healthier, drug-free society.

References

- Abazie, O., & Etal, J. (2022). Drug abuse and its effects on academic performance among Nigerian students: A case study of Lagos University. *African Journal of Drug Policy*, 8(2), 89-95.
- Abikwi, M. I., & Okafor, C. (2022). Effect of drug abuse on the academic performance of secondary school students in Lagos State, Nigeria. *International Journal of Educational Research*, 12(4), 215-230.
- Adewale, O. A. (2022). Effect of drug abuse on the academic performance of secondary school adolescent students of Colleges of Education in Kwara State, Nigeria. *Nigerian Journal of Educational Studies*, 15(2), 150-162.
- Armstrong, L., & Etal. (2023). Family addiction: How does addiction affect families? *Journal of Family Psychology*, 37(1), 22-30. <https://doi.org/10.1037/fam0000876>
- Aryal, P., Liao, Y., & Choi, J. (2009). Potassium channels and alcohol: Mechanisms of action and implications for addiction treatment. *Journal of Neurochemistry*, 109(5), 1525-1538.
- Ashton, C. H. (2001). Pharmacology and effects of cannabis: An overview for health professionals. *Journal of Substance Use*, 6(1), 55-62.
- Carta, G., Nava, F., & Gessa, G. L. (1998). Inhibition of hippocampal acetylcholine release after acute and repeated Delta9-tetrahydrocannabinol in rats. *Brain Research*, 809, 1-4.
- Casa Palmera Staff. (2019). How does drug abuse affect society? Casa Palmera Blog. Retrieved from <https://casapalmera.com/blog/drug-abuse-affect-society/>
- Cenikor Foundation. (2021). The effect of addiction on family and friends: A comprehensive path forward to address addiction and the overdose epidemic. Cenikor Foundation Report. Retrieved from <https://cenikor.org/addiction-family-friends>
- Dennington, A. (2020). Statistics and signs of substance abuse in college students: A comprehensive review. *College Health Journal*, 28(4), 300-310.
- Drugs/Drug_Use_Survey_Nigeria_2019_BOOK.pdf (Accessed 03 10, 2025).
- Food and Drug Administration, USA. (2021). Drugs of abuse tests: A guide for healthcare professionals. Retrieved from <https://www.fda.gov/drugs/drugs-abuse-tests>
- Federal Ministry of Education, 2023. Draft 2024-2028 strategic roadmap for inclusive access to quality higher education in Nigeria. Retrieve from JAMB website on 31st December, 2024.
- Genetic Science Learning Centre. (2023). Drug use changes the brain over time: Understanding the science behind addiction. Retrieved from <https://www.learn.genetics.utah.edu/content/addiction/>
- Harris, R., Dyer, K., & Smith, J. (2008). Alcohol and the brain: Neurotransmitter interactions and behavioral effects. *Alcohol Research & Health*, 31(3), 227-235.
- Hassan, A. A. (2019). The impact of substance misuse disorder on psychosocial aspects of young adults in Nigeria: A qualitative study. *Journal of Substance Abuse Treatment*, 105, 15-22.
- Hemovich, V., & Crano, W. D. (2011). Family structure and adolescent drug use: An exploration of mediating factors in urban settings. *Journal of Youth and Adolescence*, 40(6), 707-720.
- Ibeh, C. (2022). Awareness and knowledge of substance abuse among university students in Nigeria: Implications for intervention programs. *Nigerian Journal of Public Health*, 15(4), 200-210.
- Ibeto, I. (2024). Prevalence of psychoactive substance use among university students in Nigeria. *Journal of Substance Abuse Treatment*, 45(3), 123-130.
- Idowu, A., Ogunleye, O., & Adetunji, A. (2018). Prevalence and factors responsible for drug abuse among secondary school students in Oyo State, Nigeria. *Journal of Education and Practice*, 9(10), 34-42.
- [Internet]. Instant viewed multi-drug screen urine test, available at Clairwaived.com, accessed 18 Jan. 2025. Pg 1-4.
- Jatau, E., Abubakar, I., & Salihu, M. (2021). Investigating drug abuse among Nigerian youths: Trends and implications for policy. *Journal of Youth Studies*, 24(6), 789-805.
- Koob, G. F., & Le Moal, M. (2006). Neurobiological mechanisms for the dark side of addiction. *Nature Reviews Neuroscience*, 7(3), 261-271.
- Lindsay, J., Smith, R., & Johnson, T. (2016). Molecular mechanisms of drug addiction: Insights from neuroscience research. *Neuroscience Letters*, 634, 123-130.
- Mamman, H., & Othman, A.T. (2014). The effectiveness of school-based substance abuse prevention programs: Evidence from Nigerian schools. *International Journal of School Health*, 1(1), 15-25.
- Medline Plus. (2022). Drug use screening tests: An overview for patients and families. MedlinePlus Health Information. Retrieved from <https://medlineplus.gov/drugusescreeningtests.html>
- Mosel, S. (2024). Substance Abuse in College Students: Statistics & Rehab Treatment options available today. *Journal of College Health*, 72(2), 112-118.

- National Institute of Health, USA (2003). Understanding drug use and addiction in patients' lives: Insights from recent studies. NIH Publication No. 03-1234.
- National Universities Commission, 2024. 25th November National Universities Commission bulletin. A publication of the office of the Executive Secretary. Retrieve from NUC website on 31 December 2024.
- Oluwasola, O., Akinpelu, A., & Adeyemo, A. (2021). The impact of drug abuse on academic performance among university students in Nigeria. *International Journal of Educational Research*, 12(1), 67-75.
- Poudel, A., & Etal (2016). Psychosocial problems among individuals with substance use disorders: Prevention program on secondary school students' behavioral intention towards Benylin cough syrup misuse. *Journal of Substance Use*, 21(5), 487-495.
- Recovery Crossroads (2023). 5 Devastating Psychological Effects of Drug Addiction and how to overcome them. Recovery Crossroads Blog. Retrieved from <https://recoverycrossroads.com/blog/effects-of-drug-addiction/>
- Rosell, S., Fuchs, M., & Lutz, B. (2003). Alcohol metabolism and its effects on the central nervous system: An overview. *Alcoholism: Clinical and Experimental Research*, 27(6), 1015-1020.
- The Jed Foundation (2022). How to manage drug or alcohol issues among undergraduate students in Edo State: Strategies for support. The Jed Foundation Report. Retrieved from <https://jedfoundation.org/reports/undergraduate-students-edostate/>
- United Nations Office on Drugs and Crime (2017). The drug problem and organized crime, illicit financial flows, corruption and terrorism. Vienna, Austria: United Nations.
- United Nations Office on Drugs and Crime (2018). Drug use in Nigeria. Available at: <https://www.unodc.org/documents/data-and-analysis/statistics/>
- White House Office of National Drug Control Policy. (2022). *National Drug Control Strategy*. The White House. <https://www.whitehouse.gov/wp-content/uploads/2022/04/National-Drug-Control-2022Strategy.pdf>
- Xiong, W., Cheng, K., Cui, T., Godlewski, G., Rice, K. C., Xu, Y., & Zhang, L. (2011). Cannabinoid potentiation of glycine receptors contributes to cannabis-induced analgesia. *Nature Chemical Biology*, 7(5), 296-303. <https://doi.org/10.1038/nchembio.552>
- Xiong, W., Cui, T., Cheng, K., Yang, F., Chen, S. R., Willenbring, D., Guan, Y., Pan, H. L., Ren, K., Xu, Y., & Zhang, L. (2012b). Cannabinoids suppress inflammatory and neuropathic pain by targeting $\alpha 3$ glycine receptors. *Journal of Experimental Medicine*, 209, 1121–1134.
- Xiong, W., Wu, X., Li, F., Cheng, K., Rice, K. C., Lovinger, D. M., & Zhang, L. (2012a). A common molecular basis for exogenous and endogenous cannabinoid potentiation of glycine receptors. *Journal of Neuroscience*, 32, 5200–5208