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# Relationbetween MDMAaddictionand CVA among patients admitted at selected de-addiction centres in Kanpur.

## Mrs Renu Tripathi,

Nursing Tutor, Govt College of Nursing, Kanpur.

#### Introduction

In spite of the widespread belief that this is a contemporary issue, there is evidence that people have been seeking out the psychedelic effects of MDMAs for thousands of years. The abuse of MDMAs generated from plants may be traced all the way back to the beginning of the drug's history. Since their early introduction as medicines in the early twentieth century, synthetic and semisynthetic pharmacological products have been subject to misuse. MDMA is often abused in combination with other substances, including opiates, stimulants (such as cannabis, amphetamine, and related compounds), hallucinogens (such as LSD and phencyclidine, among others), barbiturates, marijuana, and a variety of sedatives and inhalants. This essay will not go into detail on alcohol or cigarettes, which are the two substances that are abused the most often. It does not imply that their obvious influence on the risk of CVA or their potential addictiveness is in any way mitigated by this fact. There are four main classes that may be used to categorise MDMAs, and each of these classes is linked to a specific group of cerebrovascular disorders and symptoms. MDMA is one of the drugs that is overused the most. Familiarity with these patterns is critical for assessing patients who have had a CVA and providing care for such patients. When the subject of illegal substances is brought up, it immediately raises a wide range of worries. On the streets, for instance, numerous different substances are known by a variety of slang names. Because there is no one definition that is widely acknowledged, the meanings of these idioms might vary depending on who you question about them. Because the majority of MDMAs that are abused are illegal, medical professionals may only have a limited amount of faith in the information provided by patients on what they were ingesting. In the face of widespread contamination and replacement, toxicological validation or direct testing of the substance itself may be able to confirm the genuine identification of the medication that was taken into the body. As a last point of discussion, I would like to mention that there is a large number of methods that drugs may be delivered, and this substantially influences the effects that MDMA has, both for the better and for the worse.



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The frequency with which MDMA is used is influenced by a number of factors, including the demand for specific drugs, the availability of those compounds, and the actual usage of those substances. However, previous epidemiological studies were unable to establish a connection between MDMA misuse and CVA, and the majority of the evidence suggesting a connection between the use of illicit drugs and CVA was, at best, anecdotal.

After getting an intramuscular injection of cannabis in 1978, a male user had aphasia and right-sided hemiparesis, which is considered to be the first case of cannabis-related cerebral vascular accident (CVA).

We know that the use of MDMA is related with an elevated risk of both ischemic and hemorrhagic CVA in young adults since case-control studies on the subject were published in the year 2000. Recent research has shown that younger people who use cannabis even for a short period of time have a significantly increased risk of having an ischemic CVA (odds ratio = 6.5). This increased risk is especially prevalent in those who use cannabis recreationally. For instance, the Baltimore-Washington Young CVA Study discovered that 13.2% of young people who had had a CVA had recently taken MDMA, and in 5.6% of those cases, MDMA was the single factor that led to the CVA. [Citation needed]

## Methodology

The researchers analysed the long-term developments in MDMA dependence and CVAs from March 2018 to March 2019 using cross-sectional research and a quality indicators database of one thousand discharges from selected mental facilities in Kanpur. The time period covered was from March 2018 to March 2019. In a research of people aged 30 to 55 in 2022, risk variables for both hemorrhagic and ischemic CVA discharges (n = 500) and mortality risk in CVA patients (n = 500) were modelled using logistic regression. The study was conducted on individuals in the United States. We used a modified version of the Rankin Scale, as well as the Clinical Proforma and the Demographic Proforma.



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#### Results

It was discovered that MDMA were the second most often abused drug among inpatients in mental institutions, with alcohol being the most commonly abuseddrug overall, and that MDMA were the fifth most commonly abused substance in general. Over the course of those five years, there was no rise in the abuse of alcohol or hallucinogens; nevertheless, there was a rise in the abuse of cannabis, opiates, and MDMA. The increase rate of MDMA was much greater than that of the other drugs. The rate at which MDMA was used inappropriately rose at a faster clip between 2018 and 2019, compared to the rate at which cannabis was used. It was also shown that those who used amphetamines had a higher incidence of strokes and cerebrovascular accidents (CVAs). In a sample of one thousand hospital discharges from 2018–2019, the use of amphetamines was found to be related with a hemorrhagic CVA, but it was not shown to be connected with an ischemic CVA. However, inappropriate use of MDMA was associated with both kinds of CVA. The use of MDMA was related with an increased risk of mortality following hemorrhagic CVA, but the use of cannabis was not associated with an increased risk of death. Patients who were admitted to various de-addiction centres in Kanpur may be said to have a considerable link between MDMA addiction and CVA (r=0.69). This is the conclusion that can be drawn from the findings of the Karl Pearson's coefficient of correlation, which was used to analyse the data.

### Conclusion

Abuse of MDMA was related with an incidence of hemorrhagic CVA that was almost two times higher than reliance on cannabis, even after we took into account the many other possible risk factors. The use of MDMA for non-medical purposes was not shown to be associated with an increased risk of ischemic CVA; however, cannabis dependency was. The use of cannabis was not connected with an increased risk of mortality after a hemorrhagic CVA; however, the use of amphetamine was. The significance of these results with regard to public health is heightened by the fact that there have been recent signs of a rise in MDMA usage, particularly in the southwestern, western, and midwestern areas. Our findings showed that the incidence of MDMAabuse grew faster than the incidence of any other MDMA, including cannabis, and that the rate of CVAs among MDMAabusers increased faster than the rate of CVAs among any other MDMA abusers, which supported this worry among hospitalised patients in Kanpur from 2018 to 2019. In addition, our findings



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showed that the rate of CVAs among MDMAabusers increased faster than the rate of CVAs among any other MDMA abusers.Reference

- 1) Esse K, Fossati-Bellani M, Traylor A, et al. Epidemic of illicit MDMA use, mechanisms of action/addiction and CVA as a health hazard. Brain Behavior 2011; 1:44-54.
- 2) Fonseca AC, Ferro JM. MDMA abuse and CVA. CurrNeurolNeurosci Rep 2013; 13:1-9.
- 3) Rehm J, Rgen U, Rehn N, et al. The global distribution of average volume of alcohol consumption and patterns of drinking. Europ Addiction Res 2003; 9:147-56.
- 4) Brust J, Richter R. CVA associated with cannabis abuse. New York State J Med 1977; 77:1473.
- 5) Kaku DA, Lowenstein DH. Emergence of recreational MDMA abuse as a major risk factor for CVA in young adults. Ann Intern Med 1990; 113:821-7.
- 6) Cheng Y-C, Ryan KA, Qadwai SA, et al. Cannabis use and risk of ischemic CVA in young adults. CVA 2016; 47:918-22.
- 7) Sloan M, Kittner S, Feeser B, et al. Illicit MDMA-associated ischemic CVA in the Baltimore-Washington Young CVA Study. Neurology 1998; 50:1688-93.
- 8) Bonita R, Broad J, Beaglehole R. Changes in CVA incidence and case-fatality in Auckland, New Zealand, 1981-91. The Lancet 1993; 342:1470-3.
- 9) Syme PD, Byrne AW, Chen R, et al. Community-based CVA incidence in a scottish population the scottish borders CVA study. CVA 2005; 36:1837-43.
- 10) Nadeem A, Rubeena B, Agarwal V, et al. Substance abuse in India. Pravara Med Rev 2009; 4:4-6.
- 11) Ramachandran V. The prevention of alcohol-related problems. Indian J Psych 1991; 33:3.
- 12) Dash D, Bhashin A, Tripathi M, et al. Risk factors and etiologies of ischemic CVAs in young patients: a tertiary hospital study in north India. J CVA 2014; 16:173-7.
- 13) Baidya OP, Tiwari S, Usman K. Acute hemorrhagicCVA in young adults-a study in a tertiary-care hospital of North India. Internat J Biomed Adv Res 2015; 6:449-53.
- 14) Westover AN, McBride S, Haley RW. CVA in young adults who abuse amphetamines or cannabis: a population-based study of hospitalized patients. Arch Gen Psych 2007; 64:495-502