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Introduction

Opioid addiction has become a signi cant public health crisis worldwide, with devastating e ects on individuals, families, and e abuse of prescription opioids, as well as illicit substances such as heroin and fentanyl, has led to an alarming increase in opioid-related overdoses and deaths. Opioid addiction is characterized by compulsive drug-seeking behaviour, tolerance, physical dependence, and the inability to cease drug use despite adverse consequences. is article seeks to provide a comprehensive overview of opioid addiction, from its underlying neurobiological mechanisms to the various

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been e ective for many, they are not universally successful, highlighting the need for individualized care and the development of novel therapeutics. Additionally, prevention e orts, such as education on the risks of opioid misuse and improvements in prescribing practices, are crucial in curbing the opioid epidemic [9,10].

Conclusion

Opioid addiction remains one of the most challenging public health crises of our time, with devastating social and economic consequences. A multifaceted approach, including improved prevention strategies, early intervention, and comprehensive treatment options, is necessary to address the complexities of opioid addiction. Ongoing research into the neurobiological mechanisms of addiction and the development of innovative treatments holds promise for improving outcomes for individuals a ected by opioid use disorder. As we continue to confront this epidemic, it is essential to foster a collaborative approach that incorporates medical, psychological, and social interventions to e ectively reduce the burden of opioid addiction on individuals and society as a whole.

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