Many of these deaths could be prevented with medications for opioid use disorder, including buprenorphine, methadone, and extended-release naltrexone — three FDA-approved medications to treat opioid use disorder (OUD).2–4

Patients with OUD account for 1 in 80 emergency department (ED) visits each year.5,6 These visits represent valuable opportunities to initiate medications for OUD or to encourage follow-up with a clinician who can prescribe these medications.7

Prior studies, however, have found that treatment initiation remains limited following ED visits for opioid overdose. For example, one study found buprenorphine was prescribed within 30 days after just one out of 12 ED visits.8 A variety of barriers contribute to low rates of treatment initiation, including an inadequate number of professionals offering treatment in the community, gaps in OUD medication training and resources for health providers, and ineffective referral systems for addiction care between EDs and outpatient treatment facilities.

Medicaid plays a key role in facilitating access to behavioral health services for some of the most vulnerable populations in the U.S., including mental health and substance use disorder treatment, as the program provides health coverage to 38% of adults under 65 years old with opioid use disorder.9,10

But there is limited national data on the rates of initiation of medications for opioid use disorder following an ED visit for opioid overdose in the Medicaid population. To address this gap in knowledge, a research team from the University of Michigan studied dispensing of medications for OUD among beneficiaries covered by Medicaid, looking at variation by geographic region and state.

**Methods:** The 2017–2019 Transformed Medicaid Statistical Information System (T-MSIS) Analytic Files (TAF) from 50 states and the District of Columbia were used in this analysis. We identified 71,527 non-dually eligible, full-benefit Medicaid enrollees aged 12–64 years who had an ED visit for opioid overdose in 2018. Treatment initiation was defined as receiving a prescription by any provider for buprenorphine, extended-release naltrexone, or methadone for OUD within 30 days of discharge.

**Medications for opioid use disorder were rarely prescribed following ED visits for opioid overdose among patients with Medicaid coverage.**

**1 in 6** ED visits resulted in a prescription for buprenorphine, extended-release naltrexone, or methadone within 30 days.
What are the implications for policy and practice?

Our study shows that rates of initiation of medications for OUD following ED visits for opioid overdose are low across all regions in the U.S. in the Medicaid population but are particularly low in the Midwest, South, and West. The findings also show that better performance is possible, as eight states—seven of which are in the Northeast—had initiation rates between 20–34%, compared to the national average of 17%. Identifying why these states are performing better could inform strategies to improve initiation rates after ED visits for opioid overdose.

While there are many efforts underway to address low treatment initiation rates, further research and evaluation is needed to better understand the effect on initiation rates and share best practices and lessons learned across states and communities.

The U-M research team outlined several considerations to help improve treatment initiation rates:

Policymakers: As geographic barriers and health workforce shortages contribute to a lack of adequate outpatient substance use disorder treatment options in many communities, states could explore various strategies to enhance treatment options for patients with opioid use disorder. They could consider improving access to addiction care through allowing telemedicine visits, facilitating linkages between health systems and community-based services to support the continuum of care, expanding the use of non-physician providers to prescribe treatment, or taking steps to increase the overall number of professionals offering treatment in the community. Of note, initiation and engagement of substance use disorder treatment are among the behavioral health measures which will become mandatory to be reported for Medicaid by states in 2024. Policymakers could evaluate and adapt those measures to further improve healthcare processes and patient outcomes going forward.

Additionally, policymakers could provide resources and incentives for hospitals to encourage treatment initiation models of care in the ED and outpatient settings, such as training or technical assistance. For example, CA Bridge is a statewide program in California that provides hospitals with funding for clinician champions, substance use navigators, and technical assistance to support implementation, clinician training, and treatment protocols in the ED.

Hospitals and health systems: Hospitals and health systems could implement streamlined treatment initiation protocols after an opioid overdose to improve initiation rates using a multifaceted approach. They could invest in training programs for ED and outpatient clinicians, including primary care providers and addiction specialists, to help improve their knowledge of local treatment options and resources. They could also enhance linkages between EDs and outpatient settings to connect patients to care following discharge. The CA Bridge program is an example of this approach and has worked effectively to expand medication for addiction treatment. Future research is needed to comprehensively evaluate the impact of such programs on medication initiation rates and patient outcomes.

Visit ihpi.umich.edu/MOUD for an online supplement with the data for each state.
References


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