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Integrating treatment at the intersection of opioid use disorder and infectious epidemics: A call to action following a National Academies of Sciences, Engineering and Medicine Workshop

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Abstract

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Keywords

Opioid Use Disorder; Epidemic; Extended-release Naltrexone; Buprenorphine; Methadone; Medication Assisted Therapy; Infectious Disease; HIV; HCV

As a result of the opioid use disorder (OUD) epidemic,¹ new epidemics of Hepatitis C virus (HCV) and HIV infections, and hospital admissions due to bacteremia, endocarditis, skin and soft tissue infections, and osteomyelitis have increased.^{2–4} Optimal treatment of these conditions is often impeded by untreated OUD resulting in long lengths of stay, frequent readmissions for lack of adherence to antibiotic regimens or reinfection, substantial morbidity, and a heavy financial toll on U.S. healthcare. Medical settings that manage these infections offer a potential 'reachable moment' to engage people in treatment for OUD

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while managing their infection. Yet, few providers and hospitals managing such infections have that capacity.⁵ There is thus an urgent need to implement and rapidly scale up capacity for effective OUD treatment in healthcare settings to address the intersecting epidemics of OUD and its infectious consequences.⁶ The American College of Physicians,⁷ Infectious Disease Society of America⁸, the American Society of Addiction Medicine, and the National Institutes of Health⁹ have issued an emergent call to action. Providers who treat the infectious complications of OUD, including infectious disease physicians, hospitalists, emergency medicine physicians, primary care providers, and surgeons, are on the forefront of these coalescing epidemics and are well positioned to integrate OUD treatment in the context of infectious disease management.

To address these intersecting epidemics, the Department of Health and Human Services requested that the National Academies of Sciences, Engineering, and Medicine (NASEM) convened a *Workshop on Integrating Infectious Disease Considerations with Response to the Opioid Epidemic* on March 12–13, 2019 in Washington, D.C. Participants included infectious disease physicians, hospitalists, primary care providers, nurses, health policy experts, epidemiologists, law enforcement personnel, and representatives from the Department of Health and Human Services and the Centers for Disease Control. Videos and slides of the presentations are available at: http://nationalacademies.org/hmd/Activities/PublicHealth/

IntegratingInfectiousDiseaseConsiderationswithResponsetotheOpioidEpidemic/2018_MAR-12.aspx.

The workshop identified parallels between the current opioid epidemic and lessons learned from the early years of the HIV epidemic that benefited from development of a highly trained, interdisciplinary workforce and expanded access to treatment through the Ryan White Care Act and public health policies. Workshop participants agreed on the need for partnering across treatment settings and specialties, increasing access to healthcare and funding, and the need to improve addiction treatment expertise among providers who treat the infectious complications of OUD. Based on the workshop discussions, we identified **five specific action steps**:

Action Step 1:

Implement universal screening for OUD upon presentation to healthcare settings.

All persons admitted to the hospital for opioid overdose, endocarditis, bacteremia, skin abscesses, vertebral osteomyelitis, new HCV and HIV infections should be screened for OUD. Rapid OUD screening measures can quickly evaluate whether a person likely has an opioid use disorder. For example, the Rapid Opioid Dependency Screen¹⁰ takes less than 5 minutes and allows immediate initiation of OUD medication treatment. Because infectious disease specialists are the most frequently consulted specialty in the hospital and likely to be consulted for anyone requiring long term antibiotics or new HIV and new HCV infections, OUD screening should be a standard part of infectious disease consult assessment and recommendations.

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Action Step 2:

Immediately prescribe effective medication treatment for OUD and or for opioid withdrawal symptoms.

Opioid withdrawal and pain syndromes should be addressed with opioid agonist therapies to facilitate infectious disease treatment and relieve pain. While complex pain syndromes may require initial management with short-acting full opioid agonists, treatment for OUD should begin as soon as possible during hospitalization. There are currently three forms of FDA-approved medications for treating OUD and preventing opioid relapse: methadone, buprenorphine, and extended-release naltrexone. Methadone and buprenorphine are opioid agonists/analgesics that can be used for pain control and also to treat opioid withdrawal symptoms and prevent relapse in hospitalized patients. Hospital-based treatment initiation of medication treatment for OUD can retain people in the hospital setting to complete antibiotic treatment instead of leaving against medical advice due to opioid cravings or withdrawal symptoms due to inadequate or untreated OUD.

Action Step 3:

Develop hospital-based protocols that facilitate OUD treatment initiation for hospitalized patients and link patients to community-based treatment upon discharge.

Most hospitals do not offer medication treatment for OUD during hospitalization and rely on passive referrals to community-based addiction treatment program, a strategy that is rarely effective. Hospital pharmacy and therapeutics committees should approve and stock FDA-approved medications for OUD treatment. Clinical protocols and technical assistance to support implementation could be adapted from current pilot programs that integrate addiction treatment for hospitalized patients. Innovative partnerships between hospitals and community-based addiction treatment programs and skilled nursing facilities should be developed to provide seamless transitions in care for people with OUD and serious infections.

Action Step 4:

Hospitals, medical schools, and residency programs should increase and provide training to identify and treat OUD.

Provision of DATA 2000 waiver training to prescribe buprenorphine should be given to students and clinicians, and hospitals should ensure a buprenorphine prescriber is available for hospitalized patients. Buprenorphine waiver training is available through the SAMHSA-funded Providers Clinical Support Service (https://pcssnow.org/). Clinicians should also be trained how to safely prescribe methadone and extended-release naltrexone prior to hospital discharge, when appropriate.

Action Step 5:

Increase access to healthcare and funding to states to provide effective medications to treat OUD.

While OUD affects people of all socioeconomic status, the majority of those hospitalized are treated through Medicaid. The most direct way to improve access to OUD treatment is to expand access to Medicaid and other insurance, and require that insurers cover FDA-approved treatments for OUD without cumbersome prior authorization barriers. Stopgap measures like the Ryan White Care Act that provides an additional safety net for underinsured persons with HIV may be a model for supporting OUD treatment in the absence of insurance.

All healthcare providers are needed to combat the OUD epidemic and its infectious consequences. Those who treat infectious complications of OUD are ideally suited to screen for OUD and begin treatment with effective FDA-approved medications. Integrating our collective skills may make the difference between life and death for patients living with OUD.

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