Medication treatment of opioid use disorder in primary care practice: Opportunities and limitations

Restrictions on prescribing buprenorphine (BUP) for opioid use disorder (OUD) have been rescinded, increasing the opportunity for primary care clinicians to prescribe it. Challenges to treating OUD include the practice costs of management, gaps in clinical education, the stigmatization of patients with OUD, and barriers to insurance coverage of BUP.

The Centers for Disease Control and Prevention (CDC) reported 106,699 deaths in 2021 from drug overdose, with the majority being linked to synthetic opioids, including fentanyl and tramadol.1 This number compares with 42,795 deaths due to motor vehicle accidents and 48,183 deaths due to suicide in 2021.2,3 Most of the opioid overdose deaths occurred among people aged 25 to 64 years, the peak age of patients cared for by obstetrician-gynecologists. Among pregnant and postpartum persons, mortality due to drug overdose has increased by 81% between 2017 and 2020.4

Among pregnant and postpartum patients, drug overdose death is more common than suicide, and the risk for drug overdose death appears to be greatest in the year following delivery.5,6 In many cases, postpartum patients with OUD have had multiple contacts with the health care system prior to their death, showing that there is an opportunity for therapeutic intervention before the death occurred.7 Medication-assisted recovery for OUD involves a comprehensive array of interventions including medication, counseling, and social support. Medication treatment of OUD with BUP or methadone reduces the risk for death but is underutilized among patients with OUD.5,8 Recent federal legislation has removed restrictions on the use of BUP, increasing the opportunity for primary care clinicians to prescribe it for the treatment of OUD.9

Screening and diagnosis of OUD
Screening for OUD is recommended for patients who are at risk for opioid misuse (ie, those who are taking/have taken opioid medications). The OWLS (Overuse, Worrying, Losing interest, and feeling Slowed down, sluggish, or sedated) screening tool is used to detect prescription medication OUD and has 4 questions10:

1. In the past 3 months did you use your opioid medicines for other purposes—for example, to help you sleep or to help with stress or worry?
2. In the past 3 months did opioid medicines cause you to feel slowed down, sluggish, or sedated?
3. In the past 3 months did opioid medicines cause you to lose interest in your usual activities?
4. In the past 3 months did you worry about your use of opioid medicines?

Patient agreement with 3 or 4 questions indicates a positive screening test.

If the patient has a positive screening test, a formal diagnosis of OUD can be made using the 11 symptoms outlined in the
American Psychiatric Association’s Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition. The diagnosis of mild (2 to 3 symptoms), moderate (4 to 5 symptoms), or severe OUD (6 or more symptoms) is made based on the number of symptoms the patient reports.

Buprenorphine treatment of OUD in primary care
The role of primary care clinicians in the medication treatment of OUD is increasing. Using a nationwide system that tracks prescription medications, investigators reported that, in 2004, psychiatrists wrote 32.2% of all BUP prescriptions; in 2021, however, only 10% of such prescriptions were provided by psychiatrists, with most prescriptions written by non-psychiatrist physicians, nurse practitioners, and physician assistants that year. Innovative telehealth approaches to consultation and medication treatment of OUD are now available—one example is QuickMD. Such sites are designed to remove barriers to initiating medication treatment of OUD.

The role of primary care clinicians in the management of OUD using BUP and buprenorphine-naloxone (BUP-NAL) has increased due to many factors, including:

- the removal of US Food and Drug Administration (FDA) barriers to prescribing BUP
- the epidemic of OUD and the small size of the addiction specialist workforce, necessitating that primary care clinicians become engaged in the treatment of OUD
- an increase in unobserved initiation of BUP among ambulatory patients, and a parallel decrease in cases of observed initiation in addiction center settings
- the reframing of OUD as a chronic medical problem, with many similarities to diabetes, obesity, dyslipidemia, and hypertension.

Similar to other diseases managed by primary care clinicians, OUD requires long-term chronic treatment with a medicine that, if taken as directed, provides excellent outcomes. Primary care clinicians who prescribe BUP also can optimize longitudinal care for comorbid disorders such as hypertension and diabetes, which are prevalent in people with OUD.

In 2019, New Jersey implemented new guidelines for the treatment of OUD, removing prior authorization barriers, increasing reimbursement for office-based OUD treatment, and establishing regional centers of excellence. The implementation of the new guidelines was followed by a marked increase in BUP prescribers among primary care clinicians, emergency medicine physicians, and advanced practice clinicians.

To estimate the public health impact of BUP prescribing by primary care clinicians, investigators simulated patient outcomes in 3 scenarios:

1. primary care clinicians refer patients to addiction specialists for OUD treatment
2. primary care clinicians provide BUP services in their practice
3. primary care clinicians provide BUP and harm reduction kits containing syringes and wound care supplies in their practice.

Strategies 2 and 3 resulted in 14% fewer deaths due to opioid overdose, an increased life expectancy of approximately 2.7 years, and reduced hospital costs. For strategy 3, the incremental cost per life-year saved was $34,400. The investigators noted that prescribing BUP in primary care practice increases practice costs.

Treatment with BUP reduces death from opioid overdose, improves patient health, decreases use of illicit opioids, and reduces patient cravings for opioids. BUP is a safe medication and is associated with fewer adverse effects than insulin or warfarin.

Methadone treatment of OUD
Methadone is a full opioid agonist approved by the FDA for the treatment of severe pain or OUD. Methadone treatment of OUD is strictly regulated and typically is ordered and administered at an opioid treatment program that is federally licensed. Methadone for OUD treatment cannot be prescribed by a physician to a pharmacy, limiting its use in primary care practice. Methadone used to treat OUD is ordered and dispensed at

Overdose deaths per 1,000 persons by race and ethnicity, 2021

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Medication treatment of OUD in obstetrics

In the United States, the prevalence of OUD among pregnant patients...
hospitalized for delivery more than quadrupled from 1999 through 2014.18 BUP and methadone commonly are used to treat OUD during pregnancy.19 Among pregnant patients about 5% of buprenorphine prescriptions are written by obstetricians.20 An innovative approach to initiating BUP for pregnant patients with OUD is to use unobserved initiation, which involves outpatient discontinuation of nonprescription opioids to induce mild to moderate withdrawal symptoms followed by initiation of BUP treatment. In one cohort study, 55 pregnant patients used an unobserved outpatient protocol to initiate BUP treatment; 80% of the patients previously had used methadone or BUP. No patient experienced a precipitated withdrawal and 96% of patients returned for their office visit 1 week after initiation of treatment. Eighty-six percent of patients remained in treatment 3 months following initiation of BUP.21

Compared with methadone, BUP treatment during pregnancy may result in lower rates of neonatal abstinence syndrome. In one study of pregnant patients who were using methadone (n = 5,056) or BUP (n = 11,272) in late pregnancy, neonatal abstinence syndrome was diagnosed in 69.2% and 52.0% of newborns, respectively (adjusted relative risk, 0.73; 95% confidence interval, 0.71–0.75).22 In addition, compared with methadone, the use of BUP was associated with a reduced risk for low birth weight (14.9% vs 8.3%) and a lower risk for preterm birth (24.9% vs 14.4%). In this study, there were no differences in maternal obstetric outcomes when comparing BUP versus methadone treatment. Similar results have been reported in a meta-analysis analyzing the use of methadone and BUP during pregnancy.23 Studies performed to date have not shown an increased risk of congenital anomalies with the use of BUP-NAL during pregnancy.24,25

Although there may be differences in newborn outcomes with BUP and methadone, the American College of Obstetricians and Gynecologists does not recommend switching from methadone to BUP during pregnancy because precipitated withdrawal may occur.26 Based on recent studies, the American Society of Addiction Medicine has advised that it is safe to prescribe pregnant patients either BUP or BUP-NAL.27,28

### Interventions to reduce opioid overdose death

Experts have recommended several interventions that may help reduce opioid overdose death.1 A consensus recommendation is that people who use drugs should be provided naloxone rescue medication and educated on the proper use of naloxone. Naloxone rescue medication is available in formulations for nasal or parenteral administration. The US Food and Drug Administration (FDA) recently has approved naloxone for over-the-counter status. The American Medical Association has provided a short web video on how to administer nasal naloxone.2 In a small pilot study, obstetricians offered every postpartum patient with naloxone administration education and a 2-dose nasal naloxone pack, with 76% of patients accepting the nasal naloxone pack.3

Many experts recommend that people who use drugs should be advised to never use them alone and to test a small amount of the drug to assess its potency. Many patients who use opioid drugs also take benzodiazepines, which can contribute to respiratory depression.4 Patients should avoid mixing drugs (eg, opioids and benzodiazepines). Some experts recommend that patients who use drugs should be provided take-home fentanyl test strips so they can evaluate their drugs for the presence of fentanyl, a medication that suppresses respiration and contributes to many overdose deaths. In addition, people who use drugs and are interested in reducing their use of drugs or managing overdose risk can be offered initiation of medication treatment of OUD.1

### Medication treatment of OUD with or without intensive counseling

The FDA recently reviewed literature related to the advantages and challenges of combining intensive counseling with medication treatment of OUD.29 The FDA noted that treatment saves lives and encouraged clinicians to initiate medication treatment of OUD or refer the patient to an appropriate clinician or treatment center. Combining medication treatment of OUD with intensive counseling is associated with greater treatment adherence and reduced health care costs. For example, in one study of 4,987 patients with OUD, initiation of counseling within 8 weeks of the start of medication treatment and a BUP dose of 16 mg or greater daily were associated with increased adherence to treatment.30 For patients receiving a
BUP dose of less than 16 mg daily, treatment adherence with and without counseling was approximately 325 and 230 days, respectively. When the dose of BUP was 16 mg or greater, treatment adherence with and without counseling was approximately 405 and 320 days, respectively.30

Counseling should always be offered to patients initiating medication treatment of OUD. It should be noted that counseling alone is not a highly effective treatment for OUD.31 The FDA recently advised that the lack of availability of intensive counseling should not prevent clinicians from initiating BUP for the treatment of OUD.29 OUD is associated with a high mortality rate and if counseling is not possible, medication treatment should be initiated. Substantial evidence demonstrates that medication treatment of OUD is associated with many benefits.10 The FDA advisory committee concluded that OUD treatment decisions should use shared decision making and be supportive and patient centered.29

The opportunities for medication treatment of OUD in primary care practice have expanded due to the recent FDA removal of restrictions on the use of BUP and heightened awareness of the positive public health impact of medication treatment. Challenges to the medication treatment of OUD remain, including stigmatization of OUD, barriers to insurance coverage for BUP, practice costs of treating OUD, and gaps in clinical education. For many pregnant patients, their main point of contact with health care is their obstetrician. By incorporating OUD treatment in pregnancy care, obstetricians will improve the health of the mother and newborn, contributing to the well-being of current and future generations.

References

30. Eren K, Schuster J, Herschell A, et al. Association of Counseling and Psychotherapy on retention in treatment and opioid use disorder among US primary care practice have expanded due to the recent FDA removal of restrictions on the use of BUP and heightened awareness of the positive public health impact of medication treatment. Challenges to the medication treatment of OUD remain, including stigmatization of OUD, barriers to insurance coverage for BUP, practice costs of treating OUD, and gaps in clinical education. For many pregnant patients, their main point of contact with health care is their obstetrician. By incorporating OUD treatment in pregnancy care, obstetricians will improve the health of the mother and newborn, contributing to the well-being of current and future generations.

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