Government statistics indicate that our country’s opioid epidemic continues to worsen (see Issue 1). Yet, available treatments for patients remain underutilized. To help address the opioid crisis, clinicians play an important role in helping to ensure patients have access to all appropriate therapies for the treatment of opioid dependence.

This newsletter will briefly review available treatment options for patients with opioid dependence, with a focus on an antagonist medication. Then it will explore treatment barriers, particularly those associated with the use of medication-assisted treatment (MAT), and how some might be addressed.

It is important to note that “substance dependence” as defined in the Diagnostic and Statistical Manual of Mental Disorders (Fourth Edition, Text Revision) served as the basis for the U.S. Food and Drug Administration’s approval of most available MATs. The fifth edition of the manual updated the diagnostic criteria for opioid disorders. The category “substance dependence” was replaced with an overarching category of “substance use disorders,” with the specific substance defining each specific disorder (e.g., opioid use disorder). “Opioid dependence” is used in this newsletter to be consistent with the approved indication for numerous MAT options.

Opioid Detoxification

According to the National Institute on Drug Abuse (NIDA), opioid detoxification can be the first step in the treatment of opioid addiction but does not typically produce the changes necessary for recovery. Opioid detoxification may occur in a variety of different treatment settings. Opioid detoxification (with or without medication) does not address the psychological, social, and behavioral problems associated with dependence. Only 15% of people who are admitted to a detoxification program through an emergency department and then discharged go on to receive additional treatment. Few opioid-dependent individuals can remain abstinent without additional help immediately after opioid detoxification, and psychosocial interventions alone may not be enough to prevent relapse to opioid dependence. We encourage you to read Issue 5 in this newsletter series if you are interested in learning more about opioid detoxification.
Psychosocial Interventions

Psychosocial interventions such as counseling or behavioral therapy are an important part of any opioid-dependence treatment plan, including MAT approaches.6,10,16 According to NIDA, behavioral approaches help engage people in opioid-dependence treatment, provide incentives for them to remain abstinent, help modify their attitudes and behaviors related to opioid use, and help increase their life skills to handle stressful circumstances and environmental cues that may trigger intense craving for opioids and prompt another cycle of compulsive abuse.12

In 2016, Dugosh and colleagues published a systematic analysis of studies of psychosocial interventions used in conjunction with MAT approaches.37 The most commonly studied psychosocial interventions were contingency management and cognitive behavioral therapy.17 Psychosocial interventions in combination with MAT were found to be effective in treating opioid dependence. However, the extent of the benefit was variable due to different study types, measured outcomes, medications used, and interventions performed.17 Further research is necessary to elucidate the optimal types of psychosocial interventions needed to meet individual patient needs. Such a dual “psychosocial intervention plus medication” approach to treatment is consistent with our knowledge of opioid dependence and the 2 primarily affected brain regions (see Issue 1): the cortex (responsible for decision-making, thinking, reasoning, and planning) and the limbic system (responsible for basic drives, urges, rewards, and pleasure).18

Medication-Assisted Treatment

MAT has been proven effective in opioid-dependent patients, yet most patients do not receive it.3 In fact, according to a 2015 analysis based on data from the National Survey of Drug Use and Health (NSDUH), only about 20% of Americans with an opioid use disorder received any kind of treatment from 2009 to 2013.19 (The NSDUH does not independently track the use of MAT.)

Goals of opioid-dependence treatment include opioid use reduction or abstinence, as well as treatment retention.20 Broadly, there are 3 types of MAT available to help patients with opioid dependence, classified by their activity at mu opioid receptors: full agonist, partial agonist, and antagonist therapy.21 According to practice guidelines from the American Society of Addiction Medicine (ASAM), when selecting treatment for an individual patient, the prescriber should consider patient preference, treatment history, and treatment setting.16 Access and availability also may be important considerations.22

As stated earlier, psychosocial intervention is an important part of any treatment plan that includes MAT.6,8,10,16

Full agonist therapy

Full opioid agonist medications used for MAT bind to mu opioid receptors and activate them to release dopamine.23 These medications are administered daily, in oral form, and are provided only within the context of a certified opioid treatment program.21 Full opioid agonists are Schedule II controlled substances.6,10,24 Opioid detoxification is not required prior to initiating full-agonist treatment, but medically supervised withdrawal may be an option if a patient decides to discontinue treatment.23

Partial agonist therapy

Partial agonists have a pharmacologic profile different from that of full agonists. They also bind to the mu opioid receptor, but they do not activate the receptor to release dopamine to the extent of full agonists.20 This type of medication is available in multiple dosage forms.5,21,25,26 After a period of supervised administration, patients may be eligible to take oral forms at home. Subdermal implants and extended-release injections must be administered by a licensed healthcare provider who has met qualifying requirements of the Drug Addiction Treatment Act (DATA).6,9,26 Partial agonists are Schedule III controlled substances.6,24

Opioid detoxification is not required prior to initiating partial-agonist treatment.6,8 However, if patients decide to stop treatment with a partial agonist, opioid detoxification may be required.5

Antagonist therapy

Opioid antagonist medications used for MAT also bind to mu opioid receptors in the brain; however, this binding does not activate the receptor to release dopamine.10,12,27 Opioid antagonists are administered either orally or by monthly intramuscular injection.10,28 The oral form can be provided to the patient as a take-home medication, but the monthly injection must be administered by a healthcare provider.10,28,29 These medications are not scheduled. Opioid detoxification is required before initiating treatment with an opioid antagonist.10,27,28

The Table on page 3 summarizes some of the properties of full agonist, partial agonist, and antagonist medications used to treat opioid-dependent patients. No comparisons of safety or efficacy, nor any treatment decisions, should be made based on this information.

Overcoming Barriers to the Use of MAT

As noted earlier, available MAT options for patients dependent on opioids remain underutilized.3 This section will review a few of the known potential barriers to MAT, as well as possible ways to address some of these barriers. The goal is to help ensure that MAT is available to all appropriate patients whom it might benefit.

Practice-related barriers

A variety of barriers to MAT utilization have been reported by clinicians. These include concerns about treating patients struggling with addiction; financial barriers such as poor reimbursement; a lack of institutional support for the use of MAT; lack of access to supporting specialty physicians or psychosocial resources for patients; time constraints; lack of confidence or training in providing MAT; resistance from practice partners; and restrictions/regulations concerning the use of MAT therapies.33-37
Addressing barriers to MAT can help support patients on their challenging recovery journey.

Cited approaches to help address some of these barriers include expanding provider education and increasing provider access to specialists to consult on patient management and the implementation of MAT in practice.33,37 It should also be noted that regulations and training associated with prescribing MAT for opioid dependence are highly dependent on the type of MAT therapy. For example, the prescribing of partial agonist medications is limited to healthcare providers who meet certain qualifying requirements, have notified the Secretary of Health and Human Services of their intent to prescribe the product, and have been assigned a unique identification number.6 Full agonist medications may be dispensed only by opioid treatment programs certified by the Substance Abuse and Mental Health Services Administration and approved by the designated state authority.23

Insurance coverage and restrictions

To assess the extent of patient access to MAT, ASAM commissioned surveys of 50 state Medicaid programs and 30 private insurers.22 The findings from the Medicaid survey indicated that all states covered at least 1 approved MAT option, but that many barriers to access existed.22 These barriers included lack of coverage of all approved medications, limits on treatment duration or dosage, prior-authorization requirements, minimal coverage of counseling, the use of step therapy protocols, and limits on who can prescribe.22

The findings from the commercial-insurer survey indicated that most plans covered at least 1 MAT option but that access was limited by utilization management protocols—for example, prior authorization, quantity/dosage limits, and step therapy mandates.22

To help address these access barriers, ASAM underscores the importance of educating all stakeholders to raise awareness of the efficacy of available MAT options.22

Patient-related barriers

Reported patient-related barriers to MAT use include geographic access to treatment facilities and/or prescribing clinicians, as well as preconceptions or misconceptions about MAT—all of which can influence patients’ views of MAT options.36,38 Taking a patient-centered approach to MAT that includes individualization of therapy according to patient characteristics, needs, and preferences may help.39

Additionally, some patient-related barriers may be addressed through increased encouragement, support, and education of patients and caregivers by clinician staff.38,40 With respect to education, information aimed at addressing patient and caregiver misconceptions may be particularly valuable.

Conclusions

There is no single solution to our country’s opioid epidemic. Fortunately, for patients seeking help for opioid dependence, treatment with psychosocial interventions and MAT may help make a difference.33,36 Barriers to MAT use are varied, and some are treatment specific.33,36,38,41 Addressing these barriers can help support patients on their challenging recovery journey.

Please refer to Issues 1 and 3 in this newsletter series for more information about opioid dependence as well as an antagonist treatment option. Visit MeetingTheNeed.CurrentPsychiatry.com.
IMPORTANT SAFETY INFORMATION

INDICATIONS
VIVITROL® (naltrexone for extended-release injectable suspension) is indicated for:

- Treatment of alcohol dependence in patients who are able to abstain from alcohol in an outpatient setting prior to initiation of treatment with VIVITROL. Patients should not be actively drinking at the time of initial VIVITROL administration.
- Prevention of relapse to opioid dependence, following opioid detoxification.
- VIVITROL should be part of a comprehensive management program that includes psychosocial support.

CONTRAINDICATIONS
VIVITROL is contraindicated in patients:

- Receiving opioid analgesics
- With current physiologic opioid dependence
- In acute opioid withdrawal
- Who have failed the naloxone challenge test or have a positive urine screen for opioids
- Who have exhibited hypersensitivity to naltrexone, poly(lactide-co-glycolide (PLG), carboxymethylcellulose, or any other components of the diluent

WARNINGS AND PRECAUTIONS
Vulnerability to Opioid Overdose:

- After opioid detoxification, patients are likely to have a reduced tolerance to opioids. VIVITROL blocks the effects of exogenous opioids for approximately 28 days after administration. As the blockade wanes and eventually dissipates completely, use of previously tolerated doses of opioids could result in potentially life-threatening opioid intoxication (respiratory compromise or arrest, circulatory collapse, etc.).
- Cases of opioid overdose with fatal outcomes have been reported in patients who used opioids at the end of a dosing interval, after missing a scheduled dose, or after discontinuing treatment. Patients and caregivers should be told of this increased sensitivity to opioids and the risk of overdose.
- Although VIVITROL is a potent antagonist with a prolonged pharmacological effect, the blockade produced by VIVITROL is surmountable. The plasma concentration of exogenous opioids attained immediately following their acute administration may be sufficient to overcome the competitive receptor blockade. This poses a potential risk to individuals who attempt, on their own, to overcome the blockade by administering large amounts of exogenous opioids.
- Any attempt by a patient to overcome the VIVITROL blockade by taking opioids may lead to fatal overdose. Patients should be told of the serious consequences of trying to overcome the opioid blockade.

Injection Site Reactions:

- VIVITROL must be prepared and administered by a healthcare provider.
- VIVITROL injections may be followed by pain, tenderness, induration, swelling, erythema, bruising, or pruritus; however, in some cases injection site reactions may be very severe.
- Injection site reactions not improving may require prompt medical attention, including, in some cases, surgical intervention.
- Inadvertent subcutaneous/adipose layer injection of VIVITROL may increase the likelihood of severe injection site reactions.
- Select proper needle size for patient body habitus, and use only the needles provided in the carton.
- Patients should be informed that any concerning injection site reactions should be brought to the attention of their healthcare provider.

Precipitation of Opioid Withdrawal:

- When withdrawal is precipitated abruptly by administration of an opioid antagonist to an opioid-dependent patient, the resulting withdrawal syndrome can be severe. Some cases of withdrawal symptoms have been severe enough to require hospitalization, and in some cases, management in the ICU.

- To prevent occurrence of precipitated withdrawal, opioid-dependent patients, including those being treated for alcohol dependence, should be opioid-free (including tramadol) before starting VIVITROL treatment:
  - An opioid-free interval of a minimum of 7–10 days is recommended for patients previously dependent on short-acting opioids.
  - Patients transitioning from buprenorphine or methadone may be vulnerable to precipitated withdrawal for as long as two weeks.
  - If a more rapid transition from agonist to antagonist therapy is deemed necessary and appropriate by the healthcare provider, monitor the patient closely in an appropriate medical setting where precipitated withdrawal can be managed.
  - Patients should be made aware of the risk associated with precipitated withdrawal and be encouraged to give an accurate account of last opioid use.

- Other factors that may increase the likelihood of severe injection site reactions include:
  - Allergic reaction, which may result in local injection site reactions.
  - Systolic blood pressure < 90 mm Hg.
  - Patients with a history of hypertension, cardiovascular disease, or hepatic or renal impairment.

- VIVITROL therapy is required to reverse the VIVITROL blockade, patients should be closely monitored by trained personnel in a setting staffed and equipped for CPR.

- Patients should be warned of the risk of hypersensitivity reactions, including anaphylaxis.

- With any intramuscular injection, VIVITROL should be administered with caution to patients with thrombocytopenia or any coagulation disorder.

- Alcohol Withdrawal:
  - Use of VIVITROL does not eliminate nor diminish alcohol withdrawal symptoms.

ADVERSE REACTIONS

- The adverse events seen most frequently in association with VIVITROL therapy for alcohol dependence (ie, those occurring in ≥5% and at least twice as frequently with VIVITROL than placebo) include nausea, vomiting, injection site reactions (including induration, pruritus, nodules, and swelling), arthralgia, arthritis, or joint stiffness, muscle cramps, dizziness or syncope, somnolence or sedation, anorexia, decreased appetite or other appetite disorders.

- You are encouraged to report side effects to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.

Please see accompanying Prescribing Information and Medication Guide. Review the Medication Guide with your patients.
References