

# **Prescription Drug Monitoring Programs**

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# **Summary**

In the midst of national concern over illicit drug use and abuse, prescription drug abuse has been described by the Centers for Disease Control and Prevention as an epidemic in the United States. Nearly all prescription drugs involved in overdoses are originally prescribed by a physician (rather than, for example, being stolen from pharmacies). Thus, attention has been directed toward preventing the diversion of prescription drugs after the prescriptions are dispensed.

Prescription drug monitoring programs (PDMPs) maintain statewide electronic databases of prescriptions dispensed for controlled substances (i.e., prescription drugs of abuse that are subject to stricter government regulation). Information collected by PDMPs may be used to support access to and legitimate medical use of controlled substances; identify or prevent drug abuse and diversion; facilitate the identification of prescription drug-addicted individuals and enable intervention and treatment; outline drug use and abuse trends to inform public health initiatives; or educate individuals about prescription drug use, abuse, and diversion as well as about PDMPs.

How PDMPs are organized and operated varies among states. Each state determines which agency houses the PDMP; which controlled substances must be reported; which types of dispensers are required to submit data (e.g., pharmacies); how often data are collected; who may access information in the PDMP database (e.g., prescribers, dispensers, or law enforcement); the circumstances under which the information may (or must) be accessed; and what enforcement mechanisms are in place for noncompliance.

PDMP costs may vary widely, with startup costs ranging from \$450,000 to over \$1.5 million and annual operating costs ranging from \$125,000 to nearly \$1.0 million. States finance PDMPs using monies from a variety of sources including the state general fund, prescriber and pharmacy licensing fees, state controlled substance registration fees, health insurers' fees, direct-support organizations, state grants, and/or federal grants. The federal government has established two grant programs aimed at supporting state PDMPs: The Harold Rogers PDMP grant, administered by the Department of Justice, and the National All Schedules Prescription Electronic Reporting Act of 2005 (NASPER) grant, administered by the Department of Health and Human Services (HHS). The Harold Rogers PDMP received \$13.0 million in appropriations for FY2016; NASPER last received appropriations (of \$2.0 million) in FY2010.

State PDMPs vary widely with respect to whether or how information contained in the database is shared with other states. While some states do not have measures in place allowing interstate sharing of information, others have specific practices for sharing. An effort is ongoing to facilitate information sharing using prescription monitoring information exchange (PMIX) architecture. Congress authorized the Secretary of HHS (Section 1141 of the Food and Drug Administration Safety and Innovation Act; P.L. 112-144), consulting with the Attorney General as appropriate, to facilitate the development of recommendations on interoperability standards for interstate exchange of PDMP information by states receiving federal grants to support their PDMPs. In September 2013, HHS submitted its report to Congress on PDMP interoperability standards.

The available evidence suggests that PDMPs may be effective in reducing the time required for drug diversion investigations, changing prescribing behavior, reducing "doctor shopping," and reducing prescription drug abuse. Assessments of effectiveness may also take into consideration potential unintended consequences of PDMPs, such as limiting access to medications for legitimate use or pushing drug diversion activities over the border into a neighboring state. Experts suggest that PDMP effectiveness might be improved by increasing the timeliness, completeness, consistency, and accessibility of the data.

Policy issues that might come before Congress include the role of state PDMPs in federal efforts to combat prescription drug abuse, the role of the federal government in interstate data-sharing and interoperability, and the possible link between the crackdown on prescription drug abuse and the uptick in heroin abuse. While establishment and enhancement of PDMPs enjoy relatively broad support, stakeholders express concerns about health care versus law enforcement uses of PDMP data (particularly with regard to protection of personally identifiable health information) and maintaining access to medication for patients with legitimate medical needs.

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## Introduction

In the midst of national concern over illicit drug use and abuse, prescription drug abuse has been described by the Centers for Disease Control and Prevention (CDC) as an epidemic in the United States.<sup>1</sup> An estimated 6.5 million individuals aged 12 or older (2.5% of this population) were current (past month) nonmedical<sup>2</sup> users of prescription—or psychotherapeutic—drugs in 2014.<sup>3</sup>

Government officials and legislators at the federal and state levels have demonstrated concern over this epidemic of opioid abuse. Over the last year, the National Governors Association, President Obama, and Congress have all taken action to combat prescription drug abuse. Initiatives range from limiting the number of painkiller prescriptions to increasing the number of physicians and pharmacists that contribute to and utilize state prescription drug monitoring data.<sup>4</sup>

Leading the spike in prescription drug abuse is an onslaught of prescription painkiller abuse—natural and semisynthetic opioids (e.g., morphine, oxycodone, and hydrocodone) are involved in more overdose deaths than any other opioid.<sup>5</sup> In 2014, the rate of drug overdose deaths involving natural and semisynthetic opioids was 3.8 per 100,000, an increase of 9% from 3.5 per 100,000 in 2013.<sup>6</sup> Of those individuals who used prescription painkillers non-medically in 2013-2014, over 60% received the drugs from a friend or relative either for free, purchase, or stealing from the friend or relative.<sup>7</sup> Aside from prescription painkillers such as oxycodone, other commonly abused prescription medications include benzodiazepines and amphetamine-like drugs.

Mirroring the nation's concern about prescription drug abuse is a corresponding unease regarding the rise in heroin abuse. Some academic and government experts link the comparatively higher

<sup>&</sup>lt;sup>1</sup> Centers for Disease Control and Prevention, *Understanding the Epidemic*, October 2015, http://www.cdc.gov/drugoverdose/epidemic/index.html; and The White House, *FACT SHEET: Obama Administration Announces Public and Private Sector Efforts to Address Prescription Drug Abuse and Heroin Use*, https://www.whitehouse.gov/the-press-office/2015/10/21/fact-sheet-obama-administration-announces-public-and-private-sector. Hereinafter: *FACT SHEET: Obama Administration Announces Public and Private Sector Efforts to Address Prescription Drug Abuse and Heroin Use.* Prescription drugs of abuse are often divided into the categories of *pain relievers* (e.g., oxycodone), central nervous system *stimulants* (e.g., amphetamine), and central nervous system *depressants* (e.g., benzodiazepines). Pain relievers that are subject to abuse may be called *narcotics* or *opioids*. Central nervous system depressants may be further divided into *tranquilizers* (also called *anxiolytics*, used to reduce anxiety) and *sedatives* (also called *sedative-hypnotics*, used to induce sleep). The term *psychotherapeutics* is sometimes used to capture all of these categories.

<sup>&</sup>lt;sup>2</sup> Nonmedical use of prescription drugs occurs when the drugs are used without a prescription or solely for the feeling they cause. Terms such as *misuse*, *abuse*, *dependence*, and *addiction* are often used interchangeably with nonmedical use, although each term may have its own definition within a specific context.

<sup>&</sup>lt;sup>3</sup> U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, *Results from the 2014 National Survey on Drug Use and Health: Summary of National Findings*, September 2015, http://www.samhsa.gov/data/sites/default/files/NSDUH-FRR1-2014/NSDUH-FRR1-2014.pdf (hereinafter: *2014 National Survey on Drug Use and Health*). According to the survey, "current" was defined as using the drug within the past month.

<sup>&</sup>lt;sup>4</sup> U.S. Congress, Senate Committee on the Judiciary, *Attacking America's Epidemic of Heroin and Prescription Drug Abuse*, 114<sup>th</sup> Cong., 2<sup>nd</sup> sess., January 27, 2016; and Nora Kelly, "How Obama and the U.S. Governors are Taking on the Opioid Epidemic," *The Atlantic*, February 23, 2016.

<sup>&</sup>lt;sup>5</sup> Rose A. Rudd, Noah Aleshire, and Jon E. Zibbell, et al., *Increases in Drug and Opioid Overdose Deaths—United States*, 2000–2014, Centers for Disease Control and Prevention, Morbidity and Mortality Weekly Report (MMWR), January 1, 2016, http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6450a3.htm.

<sup>&</sup>lt;sup>7</sup> 2014 National Survey on Drug Use and Health, Results from the 2014 National Survey on Drug Use and Health: Detailed Tables, Table 6.47B, http://www.samhsa.gov/data/sites/default/files/NSDUH-DetTabs2014/NSDUH-DetTabs2014.pdf.

cost of prescription drugs and the crackdown on prescription drug abuse to the uptick in heroin abuse. The number of individuals aged 12 or older currently using heroin (435,000 in 2014) has nearly tripled since 2002. Like many prescription drugs, heroin is an opiate. Unlike prescription drugs, however, heroin is a Schedule I controlled substance under the Controlled Substances Act and has no accepted medical use in the United States.

Most prescription drugs involved in nonmedical use are originally prescribed by a physician (rather than, for example, being stolen from pharmacies); therefore, attention has been directed toward preventing the diversion of prescription drugs after the prescriptions are dispensed. Prescription drug monitoring programs (PDMPs) maintain statewide electronic databases of dispensed prescriptions for controlled substances. PDMP information can aid those in law enforcement and/or health care in identifying patterns of prescribing, dispensing, or receiving controlled substances that may indicate abuse.<sup>11</sup>

For over a decade, Congress has provided financial support for state-level PDMPs using electronic databases. In 2002, Congress established the Harold Rogers PDMP grant, administered by the Department of Justice (DOJ), to help law enforcement, regulatory entities, and public health officials analyze data on prescriptions for controlled substances. Three years later, Congress passed the National All Schedules Prescription Electronic Reporting Act of 2005 (NASPER) requiring the Secretary of Health and Human Services (HHS) to award grants to states to establish or improve PDMPs.

Congress has demonstrated a particular interest in facilitating interoperability among state-level PDMPs, as well as in establishing national programs. <sup>12</sup> Policymakers have focused on enhancing state-level databases and interstate information sharing, and some have suggested establishing a national system. A related issue that policymakers may consider is whether PDMPs and their interstate information-sharing platforms adequately protect personally identifiable and related health information and whether they can ensure that patients with legitimate medical needs have access to prescriptions. Congress may also exercise oversight with respect to the role of PDMPs in the Administration's efforts to combat the prescription drug epidemic; <sup>13</sup> policymakers may assess the extent to which the Office of National Drug Control Policy (ONDCP), along with other relevant departments and agencies, has taken steps to accomplish these PDMP-related goals.

<sup>&</sup>lt;sup>8</sup> Pradip K. Muhuri, Joseph C. Gfroerer, and M. Christine Davies, *Associations of Nonmedical Pain Reliever Use and Initiation of Heroin Use in the United States*, Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality, August 2013, http://www.samhsa.gov/data/2k13/DataReview/DR006/nonmedical-pain-reliever-use-2013.pdf; Theodore J. Cicero, Matthew S. Ellis, and Hilary L. Surratt, "Effect of Abuse-Deterrent Formulation of Oxycontin," *New England Journal of Medicine*, vol. 367, no. 2 (July 12, 2012), pp. 187-189; U.S. Department of Justice, National Drug Intelligence Center, *National Drug Threat Assessment 2003*, "Narcotics", January 2003, http://www.justice.gov/archive/ndic/pubs3/3300/pharm.htm; and U.S. Department of Justice, National Drug Intelligence Center, *National Drug Threat Assessment 2011*, August 2011, p. 37, http://www.justice.gov/archive/ndic/pubs44/44849/44849p.pdf.

<sup>&</sup>lt;sup>9</sup> 2015 National Survey on Drug Use and Health, Results from the 2014 National Survey on Drug Use and Health: Detailed Tables, Table 7.3A, http://www.samhsa.gov/data/sites/default/files/NSDUH-DetTabs2014/NSDUH-DetTabs2014.pdf.

<sup>&</sup>lt;sup>10</sup> 21 U.S.C. §801 et seq.

<sup>&</sup>lt;sup>11</sup> Initiatives countering prescription drug abuse range from prevention and treatment to enforcement. These activities include scheduling chemicals used in certain prescription drugs, supporting public awareness campaigns, bolstering law enforcement, and providing assistance to states—in part through PDMPs. This report focuses on PDMPs.

<sup>&</sup>lt;sup>12</sup> Congress addressed these issues in Section 1141 of the Food and Drug Administration Safety and Innovation Act (P.L. 112-144).

<sup>&</sup>lt;sup>13</sup> FACT SHEET: Obama Administration Announces Public and Private Sector Efforts to Address Prescription Drug Abuse and Heroin Use.

This report provides an overview of PDMPs, including their operation, enforcement mechanisms, costs, and financing. It also examines the effectiveness of PDMPs and outlines federal grants supporting PDMPs. Finally, this report discusses relevant considerations for policymakers including interstate data sharing, interoperability, protection of health information, and the possible link between the crackdown on prescription drug abuse and rise in heroin abuse.

# **Prescription Drug Monitoring Programs (PDMPs)**

PDMPs maintain statewide electronic databases of designated information on specified prescription drugs dispensed within the states. Data are made available to individuals or organizations as authorized under state law; these may include prescribers, law enforcement officials, licensing boards, or others. Possible uses of PDMPs include

- supporting patient access to controlled substances for legitimate medical use;
- identifying or preventing drug abuse and diversion;
- facilitating the identification of prescription drug-addicted individuals and appropriate intervention and treatment;
- outlining use and abuse trends to inform public health initiatives; and
- educating individuals about prescription drug use, abuse, and diversion.

In addition to uses of PDMPs aimed at drug abuse and diversion, an explicit goal of PDMPs is supporting access to controlled substances for legitimate medical use. This may best be understood by viewing PDMPs in comparison to earlier, paper-based programs called multiple-copy prescription programs. For example, in 1914 a New York state law required physicians to use state-issued, serialized, duplicate prescription forms for certain drugs. <sup>15</sup> Similarly, California began a multiple-copy prescription program using triplicate forms for specified narcotics in 1939; it expanded to monitor all schedule II narcotics in 1972 and schedule II non-narcotics in 1981. <sup>16</sup> Studies of multiple-copy prescription programs found that many prescribers did not order the required prescription forms, rendering them unable to prescribe specified controlled substances even when medically appropriate. <sup>17</sup> In addition, the ability to check a patient's prescription history using an electronic PDMP might give prescribers more confidence when considering the use of drugs with high risk of abuse.

As of February 2016, 49 states and one territory (Guam) had operational PDMPs, and Missouri has not yet enacted PDMP legislation. On January 28, 2016, the District of Columbia published its municipal regulations for its PDMP.<sup>18</sup>

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<sup>&</sup>lt;sup>14</sup> The Prescription Drug Monitoring Program Center of Excellence, *Prescription Drug Monitoring Programs: An Assessment of the Evidence for Best Practices*, September 20, 2012; National Alliance for Model State Drug Laws, *Prescription Drug Monitoring Programs: A Brief Overview*, August 17, 2010.

<sup>&</sup>lt;sup>15</sup> Scott M. Fishman et al., "Regulating Opioid Prescribing Through Prescription Monitoring Programs: Balancing Drug Diversion and Treatment of Pain," *Pain Medicine*, vol. 5, no. 3 (2004), pp. 309-324.

<sup>&</sup>lt;sup>16</sup> Aaron M. Gilson et al., "Time Series Analysis of California's Prescription Monitoring Program: Impact on Prescribing and Multiple Provider Episodes," *Journal of Pain*, vol. 13, no. 2 (2012), pp. 103-111.

<sup>&</sup>lt;sup>17</sup> Scott M. Fishman et al., "Regulating Opioid Prescribing Through Prescription Monitoring Programs: Balancing Drug Diversion and Treatment of Pain," *Pain Medicine*, vol. 5, no. 3 (2004), pp. 309-324.

<sup>&</sup>lt;sup>18</sup> See DC.gov, *Prescription Drug Monitoring Program*, http://doh.dc.gov/node/1134307.

## **Program Operation**

The entity responsible for administering the PDMP varies by state and may be a pharmacy board, department of health, professional licensing agency, law enforcement agency, substance abuse agency, or consumer protection agency. Of the authorized PDMPs, nearly two-thirds are administered by either state pharmacy boards (20) or health departments (13), while 7 PDMPs are administered by law enforcement.<sup>19</sup>

State laws determine which schedules of controlled substances are monitored under each program (see text box for a brief explanation of schedules), which information about the substances is submitted, the means by which dispensers or dispensaries submit the required information, and the time frame under which information is submitted.

#### **Schedules of Controlled Substances**

The Controlled Substances Act (21 U.S.C. §801 et seq.) establishes schedules for controlled substances (including drugs), ranging from schedule I (most restrictive) to schedule V (least restrictive). Drugs on schedule I have no currently accepted medical use in the United States and are not available by prescription. Drugs with recognized medical uses are on schedules II through V, with each successive schedule representing a lower risk of abuse.<sup>20</sup>

Each state also determines which entities dispensing prescriptions for controlled substances are required to submit data to the PDMP. Most states require retail pharmacies<sup>21</sup> and dispensing practitioners (e.g., physicians and/or veterinarians)<sup>22</sup> to submit data to the PDMP. Some states also have statutory authority to require out-of-state, mail order, and Internet pharmacies to submit data to the PDMP regarding prescription or controlled drugs dispensed to residents of the state. For instance, if a patient in Alabama receives a prescription for a monitored drug from an out-of-state mail order pharmacy, the mail order pharmacy must report the prescription to the Alabama PDMP.<sup>23</sup>

However, information on medications dispensed at federally assisted drug treatment programs (e.g., methadone or buprenorphine) generally may not be reported to PDMPs without patient consent under federal privacy regulations (42 C.F.R. Part 2). These regulations place strict limitations on the disclosure, and redisclosure, of patient information created and maintained by such programs that identifies the individual patient as a drug abuser, or simply links the individual to the program.<sup>24</sup>

Access to information contained in the PDMP database is determined by state law and varies by state. The majority of states allow pharmacists and practitioners to access information related to their patients, and some also allow other entities—law enforcement, licensing and regulatory

<sup>&</sup>lt;sup>19</sup> PDMP Training and Technical Assistance Center, *Prescription Monitoring Frequently Asked Questions (FAQ)*. These data were accessed on February 19, 2016.

<sup>&</sup>lt;sup>20</sup> For more information, please see CRS Report R40548, *Legal Issues Relating to the Disposal of Dispensed Controlled Substances*, by (name redacted)

<sup>&</sup>lt;sup>21</sup> Prescription Drug Monitoring Program Training and Technical Assistance Center (PDMP TTAC), *Data Transmitters: Pharmacies Required to Report*, July 1, 2015, http://www.pdmpassist.org/pdf/Pharmacies\_Transmitters.pdf.

<sup>&</sup>lt;sup>22</sup> PDMP TTAC, *Data Transmitters: Dispensing Practitioners Required to Report*, March 2, 2016, http://www.pdmpassist.org/pdf/Dispensing\_Doctors\_Transmitters.pdf.

<sup>&</sup>lt;sup>23</sup> National Alliance for Model State Drug Laws, *States With Statutory Authority to Require Nonresident Pharmacies to Report to Prescription Monitoring Program*, July 2012, http://www.namsdl.org/.

<sup>&</sup>lt;sup>24</sup> See CRS In Focus IF10374, Health Privacy: Updating Federal Protections for Patient Records at Substance Abuse Treatment Programs.

boards, state Medicaid Programs, state medical examiners, and research organizations—to access the information under certain circumstances.<sup>25</sup> State laws outline the procedures by which information from the PDMP may be accessed.

With respect to how the states identify and investigate cases of potential prescription drug diversion or abuse, PDMPs may be classified as *reactive* or *proactive*. In essence, "[s]tates with [r]eactive PDMPs ... generate solicited reports only in response to a specific inquiry made by a prescriber, dispenser, or other party with appropriate authority" while "[s]tates with [p]roactive PDMPs ... identify and investigate cases, generating unsolicited reports whenever suspicious behavior is detected."<sup>26</sup>

## **Interstate Information Sharing and Interoperability**

State PDMPs vary widely with respect to whether or how information contained in the database is shared with other states. While some states do not have measures in place allowing interstate sharing of information, others have specific practices for sharing. These practices may be based on factors such as agreed-upon reciprocity between states, or whether a request stems from an ongoing investigation.<sup>27</sup> As of October 22, 2015, 33 states were "engaged" in interstate data sharing while 10 states were implementing interstate data sharing.<sup>28</sup>

Researchers have provided states with guidance in creating Memoranda of Understanding (MOUs) for interstate data exchange. Questions that states may consider when drafting an MOU include the following:<sup>29</sup>

- How is the information to be reported?
- How will the information be used by the relevant states?
- What are the guidelines on data retention?
- What are the state responsibilities in the event of a data breach?
- Are there measures in place for conflict resolution?
- What are the consequences of potential data misuse?

In addition, the Council of State Governments has highlighted four areas as central to the success of interstate compacts regarding PDMPs and data sharing:

**Education**—responsibility of providers, data integrity, training requirements (start up versus ongoing)[;]

Funding—state funding, costs of data sharing, costs of operation[;]

<sup>&</sup>lt;sup>25</sup> Researchers may be allowed de-identified data for analysis and research purposes. See PDMP Training and Technical Assistance Center, *Prescription Monitoring Frequently Asked Questions (FAQ)*, http://www.pdmpassist.org/content/prescription-drug-monitoring-frequently-asked-questions-faq.

<sup>&</sup>lt;sup>26</sup> Ronald Simeone and Lynn Holland, *Executive Summary: An Evaluation of Prescription Drug Monitoring Programs*, Simeone Associates, Inc., http://www.namsdl.org/.

<sup>&</sup>lt;sup>27</sup> National Alliance for Model State Drug Laws, *Interstate Sharing of Prescription Monitoring Database Information*, July 2013, http://www.namsdl.org.

<sup>&</sup>lt;sup>28</sup> For a map depicting the interstate sharing of PDMP data, see http://www.pdmpassist.org/pdf/Interstate\_Data\_Sharing.pdf.

<sup>&</sup>lt;sup>29</sup> Alliance of States With Prescription Monitoring Programs and Brandeis University's Training and Technical Assistance Center, *Memorandum Of Understanding: Writing Guide for States with Prescription Monitoring Programs*, funded through a grant (No. 2010-DG-BX-K088) from the Bureau of Justice Assistance.

**Security and Access**—authorized users, authentication, audit trails, Internet access, vendor security, reporting, privacy, confidentiality, use of data[; and]

**Technology**—data transfer and exchange, uniformity and standards, cost reduction, compatibility, quality/error correction[.]<sup>30</sup>

An effort is ongoing to facilitate information sharing using prescription monitoring information exchange (PMIX) architecture.<sup>31</sup> The PMIX program is intended to enable the interstate exchange of PDMP information, providing information on an individual's prescription drug history across states participating in the information exchange. This information can help identify potential prescription drug abuse or diversion, and can help inform stakeholders such as law enforcement, health and human services, health practitioners, and public regulatory agencies. A state can participate in the PMIX program if it has

- legislation allowing it to share patient information with other states in real time,
- identified at least one other state as a partner in the information exchange, and
- either (1) established an MOU with their identified partner(s) in the information exchange or (2) ratified the Prescription Monitoring Interstate Compact.<sup>32</sup>

The infrastructure of the PMIX program is based on the National Information Exchange Model, which is a data-sharing partnership between all levels of government as well as the private sector.<sup>33</sup> To facilitate information security and data privacy, data are encrypted while passing through "hubs," and no data are actually stored on these hubs. PMIX allows for hubs to exist at the state and national levels, and it allows for hub-to-hub information exchange.<sup>34</sup>

With pharmaceutical industry support, the National Association of Boards of Pharmacy (NABP) has developed a technology platform to facilitate interstate sharing of PDMP data, called InterConnect, which NABP has committed to make compliant with PMIX architecture.<sup>35</sup>

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<sup>&</sup>lt;sup>30</sup> The Council of State Governments, National Center for Interstate Compacts, *Prescription Drug Monitoring Programs: Interstate Compact—National Advisory Panel*, November 5-6, 2009, http://www.csg.org/pubs/capitolideas/enews/enewsissue38/21stCenturyHandout.pdf.

<sup>&</sup>lt;sup>31</sup> More information on PMIX can be found at http://www.pdmpassist.org and http://www.ijis.org. A pilot project between Kentucky and Ohio's PDMPs formed the springboard for the larger PMIX initiative. Through this pilot, a PMIX hub server was installed in Ohio, and Ohio and Kentucky signed an MOU for data exchange, see IJIS Institute, *Cross-Boundary Initiatives*, http://www.ijis.org.

<sup>&</sup>lt;sup>32</sup> Prescription Monitoring Information Exchange (PMIX) Architecture, Brandeis University, Prescription Drug Monitoring Program Training and Technical Assistance Center, http://www.pdmpassist.org/content/prescription-drugmonitoring-information-architecture-pmix.

<sup>&</sup>lt;sup>33</sup> More information can be found at https://www.niem.gov/.

<sup>&</sup>lt;sup>34</sup> PDMP Training and Technical Assistance Center and Alliance of States With Prescription Monitoring Programs, PMIX National Architecture Overview, http://www.pdmpassist.org/pdf/ PMIX%20National%20Architecture%20Overview.pdf.

<sup>&</sup>lt;sup>35</sup> U.S. Department of Justice, Office of Justice Programs, Bureau of Justice Assistance, BJA Policy on Use of Harold Rogers Prescription Drug Monitoring Program (HRPDMP) Funding to Support Interstate Data Sharing Activities, May 30, 2012, https://www.bja.gov/Programs/PDMPPolicy.pdf. This supersedes interim policy guidance documentation dated March 21, 2012, and April 17, 2012.

Although there are no federal requirements for state PDMP interoperability and information sharing, Congress passed legislation that

- authorized the HHS Secretary, consulting with the Attorney General as appropriate, to "facilitate ... the development of recommendations on interoperability standards" for interstate information exchange by states receiving specified federal grants to support their PDMPs;
- required the HHS Secretary, in so doing, to consider the PMIX standards; and
- required the HHS Secretary to submit "a report on enhancing the interoperability of [state PDMPs] with other technologies and databases used for detecting and reducing fraud, diversion, and abuse of prescription drugs."<sup>36</sup>

In September 2013, HHS submitted its report to Congress on PDMP interoperability standards. In addressing legal and policy challenges, HHS recommended that states ensure that PDMPs do not restrict access to PDMP data for health care providers and enact laws and policies to increase use of PDMPs by health care providers, among other recommendations.<sup>37</sup> In addressing interoperability and technology issues, HHS recommended that state PDMPs implement interoperability standards "that best support the information's use upon its exchange," among other recommendations. 38 HHS stressed the importance of unsolicited reports from PDMPs to providers, licensing boards, regulatory and law enforcement agencies, and public and private insurers and pharmacy benefit managers.<sup>39</sup> The report also reviews literature on PDMP effectiveness and health provider use of PDMPs.

## **Compliance and Enforcement Mechanisms**

In ensuring that a given state's PDMP reflects comprehensive data from all relevant pharmacies. physicians, and other dispensaries, one principal concern is how to ensure that these dispensaries are reporting prescription data to the program. The laws or rules governing consequences for failure to report data are determined by each state. For example, one consequence may be disciplinary action by the appropriate licensing board or commission. Another may be that failure to report information could trigger the PDMP program office to report the lapse in compliance to the PDMP governing agency, which may then refer the information to law enforcement. 40

# **Program Costs**

PDMP expenses involve startup costs, funds needed to operate and maintain the programs, and any monies used to enhance program operation and interoperability. Overall program costs can entail

- hardware such as servers;
- software to run the PDMP database and ensure information security:

<sup>&</sup>lt;sup>36</sup> Section 1141 of the Food and Drug Administration Safety and Innovation Act (P.L. 112-144).

<sup>&</sup>lt;sup>37</sup> U.S. Department of Health and Human Services, *Prescription Drug Monitoring Program Interoperability Standards*, A Report to Congress, September 2013, http://www.healthit.gov/sites/default/files/fdasia1141report\_final.pdf.

<sup>&</sup>lt;sup>38</sup> Ibid., pp. 5, 21. For specific recommendations, see the full report.

<sup>&</sup>lt;sup>39</sup> Ibid., pp. 4, 17-18.

<sup>&</sup>lt;sup>40</sup> See, for example, Florida's PDMP rule states that "[t]he program will file a complaint with the Department and refer to law enforcement any failure to report the dispensing of Schedules II – IV controlled substances." Rule 64K-1.004, https://www.flrules.org/gateway/RuleNo.asp?title=Prescription%20Drug%20Monitoring%20Program&ID=64K-1.004.

- connectivity such that pharmacies and dispensaries can enter data and such that prescribers and/or law enforcement officials can request and access data;
- staff to administer the PDMP and provide technical assistance; and
- overhead fees.

A 2009 evaluation by the Maryland Advisory Council on Prescription Drug Monitoring assessed existing state PDMPs on a range of factors including the costs associated with establishing and maintaining the programs. <sup>41</sup> The overarching finding was that costs vary widely, with program startup costs ranging from \$450,000 to over \$1.5 million. Further, based on available data from six operational PDMPs, results from the Maryland Advisory Council's evaluation indicate that annual operating costs range from \$125,000 to nearly \$1.0 million, with an average annual cost of about \$500,000. The Maryland Advisory Council reported that

[c]ost variations are affected by the frequency of data collection (e.g., daily, weekly, biweekly, monthly), the use of third party vendors for data collection and analysis, the number of prescriptions written and filled in the state, the number of drug schedules (II-V) and drugs of interest collected, and the use of official forms or other required collection and submission mechanisms. 42

A 2002 Government Accountability Office (GAO) evaluation of PDMP costs in Kentucky, Nevada, and Utah revealed findings similar to those presented by the Maryland Advisory Council. GAO noted a number of PDMP design and operational factors driving variations in state costs for running PDMPs. Specifically, these involved "differences in the PDMP systems implemented, the number of pharmacies reporting drug dispensing data, and the number of practitioners and law enforcement agencies seeking information from the systems."

#### **PDMP Financing**

States finance the startup and operation of PDMPs through a variety of channels. PDMP financing often involves monies from the state general fund, prescriber and pharmacy licensing fees, state controlled substance registration fees, health insurers' fees, direct-support organizations, state or federal grants, or a combination thereof. 44 Guidelines for how states may fund PDMPs are outlined in each state's PDMP authorizing legislation. For example, Oregon's PDMP has a fund within the state treasury. This fund receives monies, in part, from a proportion of medical provider fees. These fees are paid to the appropriate medical board, and the board in turn transmits a portion of these fees to the PDMP fund. The Oregon Department of Human

<sup>&</sup>lt;sup>41</sup> Maryland Advisory Council on Prescription Drug Monitoring, *Maryland Advisory Council on Prescription Drug Monitoring Legislative Report*, December 31, 2009, p. 76, http://msa.maryland.gov/megafile/msa/speccol/sc5300/sc5339/000113/012000/012478/unrestricted/20100355e.pdf.

<sup>&</sup>lt;sup>42</sup> Maryland Advisory Council on Prescription Drug Monitoring, *Maryland Advisory Council on Prescription Drug Monitoring Legislative Report*, December 31, 2009, pp. 76-77. An earlier (2002) evaluation of PDMPs by the Government Accountability Office (GAO) found similar reasons for variability in state costs for PDMP operation. These variations were driven by "differences in the PDMP systems implemented, the number of pharmacies reporting drug dispensing data, and the number of practitioners and law enforcement agencies seeking information from the systems."

<sup>&</sup>lt;sup>43</sup> U.S. General Accounting Office, *Prescription Drugs: State Monitoring Programs Provide Useful Tool to Reduce Diversion*, GAO-02-634, May 2002, p. 3, http://www.gao.gov/assets/240/234687.pdf.

<sup>&</sup>lt;sup>44</sup> Alliance of States With Prescription Monitoring Programs, *Prescription Monitoring Programs: Funding Mechanisms & Business Models*, National Legislation & Implementation Meeting 2010, 2010, p. 3, http://www.pdmpassist.org/pdf/PPTs/LI2010/PMP-FundingBusModels.pdf.

Services, which administers the PDMP, may also accept and deposit into the fund money from a variety of additional sources, including grants and donations.<sup>45</sup>

Some states prohibit the use of certain sources of funding, thus limiting the potential range of funding mechanisms. For instance, Florida law specifically prohibits the use of state funds or funds received—directly or indirectly—from prescription drug manufacturers to support the PDMP. As such, the program receives funding from three sources: the Florida PDMP Foundation, Inc., an organization established in Florida law for the purpose of funding the PDMP; federal grants; and private grants. The program receives funding the PDMP for the purpose of funding the PDMP.

## PDMP Effectiveness

The available evidence suggests that PDMPs are effective in some ways for both law enforcement and health care purposes; however, research on the effectiveness of PDMPs is limited, especially in the area of law enforcement. Assessments of effectiveness may also take into consideration potential unintended consequences of PDMPs. Experts suggest that PDMPs have the potential to be more effective.

#### **Effectiveness Research**

Research on PDMP effectiveness suggests that existence of a PDMP has an impact on both law enforcement and health care. A 2002 GAO study found that "the time and effort required by law enforcement and regulatory investigators to explore leads and the merits of possible drug diversion cases" declined after PDMP implementation. <sup>48</sup> The study found that Kentucky investigations of alleged doctor shoppers took an average of 156 days prior to PDMP implementation and 16 days after PDMP implementation (a 90% decrease). Nevada and Utah reported decreases in investigation time of 83% and 80%, respectively. These decreases in investigation time do not necessarily translate into less prescription drug abuse.

A 2012 review article summarized all peer-reviewed research articles about PDMPs published between 2001 and 2011, which amounted to 11 articles (not all of which addressed effectiveness). <sup>49</sup> The author concluded that PDMPs reduce "doctor shopping," change prescribing behavior, and reduce prescription drug abuse. For example, a 2006 federally funded study (included in the 2012 review article) found that PDMPs—especially ones that issue reports proactively—change prescriber behavior in a way that reduces the per capita supply of prescription pain relievers and stimulants, which in turn reduces the likelihood of abuse. <sup>50</sup> A study

<sup>&</sup>lt;sup>45</sup> Oregon PDMP statute (ORS 431.960 et seq.), available http://www.orpdmp.com/orpdmpfiles/PDF\_Files/ORS%20431.960\_PDMP\_2013edition.pdf.

<sup>&</sup>lt;sup>46</sup> Title XLVI, Section 893.055, Florida Statutes - Prescription Drug Monitoring Program.

<sup>&</sup>lt;sup>47</sup> Florida Department of Health, *Funding the E-FORSCE Database*, http://www.floridahealth.gov/statistics-and-data/e-forcse/funding/index.html.

<sup>&</sup>lt;sup>48</sup> U.S. General Accounting Office, *Prescription Drugs: State Monitoring Programs Provide Useful Tool to Reduce Diversion*, GAO-02-634, May 2002, p. 3, http://www.gao.gov/assets/240/234687.pdf.

<sup>&</sup>lt;sup>49</sup> Julie Worley, "Prescription Drug Monitoring Programs, a Response to Doctor Shopping: Purpose, Effectiveness, and Directions for Future Research," *Issues in Mental Health Nursing*, vol. 33, no. 5 (2012), pp. 319-328. Note: The GAO study was not included, because it was not published in the peer-reviewed literature.

<sup>&</sup>lt;sup>50</sup> Ronald Simeone and Lynn Holland, *An Evaluation of Prescription Drug Monitoring Programs*, Simeone Associates, Inc., No. 2005PMBXK189, September 1, 2006, http://www.simeoneassociates.com/simeone3.pdf. This study was commissioned by the U.S. Department of Justice (DOJ), Office of Justice Programs (OJP), Bureau of Justice Assistance (BJA).

published in 2012 (and therefore not included in the review) found that while opioid abuse was increasing over time, the rate of increase was slower in states with PDMPs than in states without PDMPs.<sup>51</sup>

More recently, a 2014 briefing document from the Prescription Drug Monitoring Program Center of Excellence at Brandeis suggests that evidence shows PDMPs are "effective in improving clinical decision-making, reducing doctor shopping and diversion of controlled substances, and assisting in other efforts to curb the prescription drug abuse epidemic." Other research suggests that the effectiveness of PDMPs has yet to be proven. In 2015, the University of Kentucky Institute for Pharmaceutical Outcomes and Policy examined the effectiveness of mandatory enrollment in PDMPs in Kentucky and cited closures of non-physician-owned pain management facilities and a decrease (over 50%) in the number of individuals doctor shopping as two of several positive outcomes from mandatory reporting in Kentucky.

#### Limitations of the Research

Research regarding PDMP effectiveness is limited, at least in part, by the difficulties inherent in conducting such research. Challenges in conducting high-quality research on PDMP effectiveness include (but are not limited to) (1) defining effectiveness, (2) accounting for differences among PDMPs, and (3) considering potential confounding factors.

In order to study effectiveness, researchers must first define effectiveness in a way that can be systematically measured as a study outcome. PDMPs are statewide programs; thus, researchers look for outcome measures that are available statewide. Some outcomes that have been measured in research on PDMP effectiveness are shipment and sales of controlled substances, benzodiazepine use in a Medicaid population, opioid consumption, substance abuse treatment admissions, drug overdose mortality, and multiple provider episodes (i.e., doctor shopping). On the one hand, opioid consumption includes both nonmedical use of opioids and medically appropriate use of opioids to manage pain. On the other hand, a count of substance abuse treatment admissions fails to capture substance abuse that goes untreated. Each of these measures presents only a portion of the picture of prescription drug diversion and abuse.

Studies that compare states with and without PDMPs and/or before and after implementation of a PDMP vary in the degree to which they account for differences among PDMPs. For example,

<sup>&</sup>lt;sup>51</sup> Liza M. Reifler et al., "Do Prescription Monitoring Programs Impact State Trends in Opioid Abuse/Misuse," *Pain Medicine*, no. 13 (2012), pp. 434-442.

<sup>&</sup>lt;sup>52</sup> Prescription Drug Monitoring Program Center of Excellence at Brandeis, *Briefing on PDMP Effectiveness*, updated September 2014, p. 3, http://www.pdmpexcellence.org/sites/all/pdfs/Briefing%20on%20PDMP%20Effectiveness%203rd%20revision.pdf.

<sup>&</sup>lt;sup>53</sup> See, for example, Christopher A. Griggs, Scott G. Weiner, and James A. Feldman, "Prescription Drug Monitoring Programs: Examining Limitations and Future Approaches," *Western Journal of Emergency Medicine*, vol. XVI, no. 1 (January 2015), pp. 67-70.

<sup>&</sup>lt;sup>54</sup> Patricia R. Freeman, Amie Goodin, and SuZanne Troske, et al., *Kentucky House Bill 1 Impact Evaluation*, Kentucky House Bill 1 Impact Evaluation, Prepared for The Kentucky Cabinet for Health and Family Services, March 2015, http://www.chfs.ky.gov/NR/rdonlyres/8D6EBE65-D16A-448E-80FF-30BED11EBDEA/0/KentuckyHB1ImpactStudyReport03262015.pdf.

<sup>&</sup>lt;sup>55</sup> See summaries of several studies conducted between 2001 and 2011 in Julie Worley, "Prescription Drug Monitoring Programs, a Response to Doctor Shopping: Purpose, Effectiveness, and Directions for Future Research," *Issues in Mental Health Nursing*, vol. 33, no. 5 (2012), pp. 319-328; see also Liza M. Reifler et al., "Do Prescription Monitoring Programs Impact State Trends in Opioid Abuse/Misuse," *Pain Medicine*, vol. 13, no. 3 (2012), pp. 434-442; and Aaron M. Gilson et al., "Time Series Analysis of California's Prescription Monitoring Program: Impact on Prescribing and Multiple Provider Episodes," *Journal of Pain*, vol. 13, no. 2 (2012), pp. 103-111.

despite evidence that proactive PDMPs are more effective than reactive PDMPs, most studies do not distinguish between proactive and reactive PDMPs. Another difference that may influence PDMP effectiveness is in which drugs are required to be reported to the PDMP, ranging from only those drugs with the highest potential for abuse to all prescription controlled substances plus other drugs of concern. Research generally focuses on those controlled substances that are included in all of the PDMPs being examined. Differences in PDMPs over time may also influence effectiveness. For example, some states have transitioned from paper-based systems for monitoring prescriptions for controlled substances to the electronic PDMPs used today. Effectiveness studies have generally not accounted for such transitions over time, classifying two different systems as the same PDMP. Accounting for these and other differences between PDMPs may shed light on factors that influence effectiveness.

Researchers also contend with factors that may confound study results, both when comparing outcomes across states (i.e., those with and without PDMPs) and when comparing outcomes over time (i.e., before and after PDMP implementation). For example, the baseline rate of prescription drug abuse may vary across states; the authors of the federally funded study noted that the likelihood of abuse was actually higher in states with PDMPs than in states without PDMPs, but that proactive PDMPs inhibited the rate of increase in prescription drug abuse. <sup>56</sup> A PDMP may be part of a larger effort to reduce prescription drug diversion and abuse, in which case other initiatives may be responsible for any change in the outcome. A seemingly unrelated event, such as an economic downturn or upturn, may also affect the outcome. These considerations, among many others, impede the ability of researchers—and therefore policymakers—to draw conclusions about the effectiveness of PDMPs.

## **Potential Unintended Consequences**

PDMPs may have unintended consequences beyond reducing prescription drug diversion and abuse.<sup>57</sup> Prescribers may hesitate to prescribe medications monitored by the PDMP—even for appropriate medical use—if they are concerned about potentially coming under scrutiny from law enforcement or licensing authorities. Studies of paper-based prescription monitoring programs that preceded the electronic PDMPs found that many prescribers did not order the required prescription forms, rendering them unable to prescribe specified controlled substances at all. Their concerns may lead prescribers to replace medications that are monitored by the PDMP with medications that are not monitored by the PDMP, even if the unmonitored medications are inferior in terms of effectiveness or side effects. Studies showed that after benzodiazepines were added to New York's paper-based program in 1989, a decrease in benzodiazepine prescriptions was accompanied by an increase in prescriptions for other sedatives. Individuals whose intent is to use controlled substances for nonmedical purposes may also substitute unmonitored prescription drugs or street drugs for those that are monitored by the PDMP.

Like prescribers, patients may fear coming under scrutiny from law enforcement if they use medications monitored by the PDMP, even if they have a legitimate medical need for the medications. Patients may worry about changes in prescribing behavior, which may limit their access to needed medications. Patients may worry about the additional cost of more frequent

<sup>&</sup>lt;sup>56</sup> Ronald Simeone and Lynn Holland, *An Evaluation of Prescription Drug Monitoring Programs*, Simeone Associates, Inc., No. 2005PMBXK189, September 1, 2006, http://www.simeoneassociates.com/simeone3.pdf.

<sup>&</sup>lt;sup>57</sup> Most of the unintended consequences identified in this section are discussed in Scott M. Fishman et al., "Regulating Opioid Prescribing Through Prescription Monitoring Programs: Balancing Drug Diversion and Treatment of Pain," *Pain Medicine*, vol. 5, no. 3 (2004), pp. 309-324.

office visits if prescribers become more cautious about writing prescriptions with refills. Patients may also have concerns about the privacy and security of their prescription information if it is submitted to a PDMP.

Another potential unintended consequence of a state PDMP is that it may push drug diversion activities over the border into a neighboring state with no PDMP. A GAO study, completed in 2002, identified evidence of this spillover across state lines. 58 This concern is one of the reasons interstate data sharing and interoperability have become priorities. Similarly, a PDMP may push drug diversion activities into a neighboring state with a PDMP that does not monitor as many medications. In any of these cases, the effectiveness of the PDMP may be offset by unintended consequences.

An additional possible unintended consequence of state PDMP activity may be an uptick in the abuse of non-prescription opioids such as heroin. As mentioned, some academic and government experts link the comparatively higher cost of prescription drugs and the crackdown on prescription drug abuse to the recent rise in heroin abuse. 59 If PDMPs indeed change patient and doctor behavior and/or access to and the cost of prescription drugs, patients may turn to a cheaper illicit alternative such as heroin.

A PDMP may also have positive unintended consequences. For example, when accessing information from a PDMP, a prescriber or dispenser may identify a patient who is receiving legitimate prescriptions for multiple controlled substances and who is therefore at risk of harmful drug interactions. 60 PDMPs may also enable prescribers to monitor their own U.S. Drug Enforcement Administration (DEA) number to determine whether someone else is using it to forge prescriptions.<sup>61</sup>

#### **Potential to Increase Effectiveness**

In 2012, the PDMP Center of Excellence at Brandeis University published PDMP best practices and evaluated the quality of evidence supporting each best practice candidate. 62 Most of the best practice candidates were supported by the weakest of five possible levels of evidence:<sup>63</sup>

- 1. randomized controlled trial or meta-analysis (0 best practice candidates)
- 2. observational study with comparison groups (2 best practice candidates)

<sup>&</sup>lt;sup>58</sup> U.S. General Accounting Office, Prescription Drugs: State Monitoring Programs Provide Useful Tool to Reduce Diversion, GAO-02-634, May 2002, p. 3, http://www.gao.gov/assets/240/234687.pdf.

<sup>&</sup>lt;sup>59</sup> Pradip K. Muhuri, Joseph C. Gfroerer, and M. Christine Davies, Associations of Nonmedical Pain Reliever Use and Initiation of Heroin Use in the United States, Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality, August 2013, http://www.samhsa.gov/data/2k13/DataReview/DR006/ nonmedical-pain-reliever-use-2013.pdf; Theodore J. Cicero, Matthew S. Ellis, and Hilary L. Surratt, "Effect of Abuse-Deterrent Formulation of Oxycontin," New England Journal of Medicine, vol. 367, no. 2 (July 12, 2012), pp. 187-189; U.S. Department of Justice, National Drug Intelligence Center, National Drug Threat Assessment 2003, "Narcotics", January 2003, http://www.justice.gov/archive/ndic/pubs3/3300/pharm.htm; and U.S. Department of Justice, National Drug Intelligence Center, National Drug Threat Assessment 2011, August 2011, p. 37, http://www.justice.gov/archive/ ndic/pubs44/44849/44849p.pdf.

<sup>60</sup> Jeanmarie Perrone and Lewis S. Nelson, "Medication Reconciliation for Controlled Substances—An "Ideal" Prescription-Drug Monitoring Program," New England Journal of Medicine, vol. 366, no. 25 (2012), p. 2341-2343. <sup>61</sup> Ibid.

<sup>&</sup>lt;sup>62</sup> Prescription Drug Monitoring Program Center of Excellence, Prescription Drug Monitoring Programs: An Assessment of the Evidence for Best Practices, September 20, 2012.

<sup>&</sup>lt;sup>63</sup> In this list, best practice candidates supported by more than one level of evidence are assigned to the strongest level of evidence.

- 3. observational study without comparison group (6 best practice candidates)
- 4. case study or written documentation of expert opinion (6 best practice candidates)
- 5. accumulated experience and/or key stakeholder perceptions (21 best practice candidates)

A PDMP is essentially a source of information; its effectiveness depends largely on the quality of the information and how the information is used.<sup>64</sup> The quality of PDMP information depends on its timeliness, completeness, accuracy, and consistency. Expert recommendations to enhance data quality include

- collecting data at the point of sale (in real time);
- monitoring all prescribed controlled substances and other drugs of concern;
- integrating electronic prescribing technology;
- sharing data between states;
- standardizing the content across states;
- identifying the person picking up the prescription (which may be someone other than the patient, such as a family member); and
- linking prescription records for an individual (to avoid confusion if, for example, an address changes or a name is spelled differently).

In order for PDMP information to be well used, it must be accessible. A survey of prescribers found that the most common reason given for not using a PDMP was the time required to access it (73%); two other reasons—difficult navigation of the web portal (29%) and forgetting the password (28%)—may contribute to the amount of time required to access PDMP information. More than a third of survey respondents (39%) felt that accessing PDMP information would not change their practice for that patient, although research suggests PDMP information changes prescribing behavior. Relatively small numbers of respondents reported that lack of computer availability (9%) or never having applied for access (11%) were barriers to using a PDMP. Expert recommendations to enhance data use include

- providing easy online access;
- issuing automated, unsolicited reports; and
- increasing participation through education and promotional campaigns.

Experts recommend making PDMP information available for research and public health purposes, which would require permitting access by designated non-prescribers (e.g., researchers and medical examiners). An example of a public health use of PDMP information is to identify patients for enrollment in special programs: Washington State used its PDMP to select Medicaid enrollees for a Patient Review Coordination Program, which decreased emergency department

<sup>&</sup>lt;sup>64</sup> Unless otherwise indicated, recommendations in this section are drawn from two sources: (1) Prescription Monitoring Program Center of Excellence at Brandeis University, "A New Generation of Prescription Monitoring Programs: Adopting Best Practices," presentation at Harold Rogers PDMP National Meeting, Washington, DC, June 4-6, 2012; and (2) Jeanmarie Perrone and Lewis S. Nelson, "Medication Reconciliation for Controlled Substances—An "Ideal" Prescription-Drug Monitoring Program," *New England Journal of Medicine*, vol. 366, no. 25 (2012), p. 2341-2343.

<sup>&</sup>lt;sup>65</sup> Jeanmarie Perrone and Lewis S. Nelson, "Medication Reconciliation for Controlled Substances—An "Ideal" Prescription-Drug Monitoring Program," *New England Journal of Medicine*, vol. 366, no. 25 (2012), p. 2341-2343.

visits, physician visits, and prescriptions (resulting in an average savings of \$6,000 per patient per year). <sup>66</sup> PDMP data may also be analyzed to identify geographic areas where interventions (such as increased law enforcement attention or establishment of a substance abuse clinic) are most needed. Carefully controlled access to de-identified data for research and public health purposes may yield other uses.

# **Federal Grant Programs for State PDMPs**

The federal government has established two grant programs aimed at supporting state PDMPs—the Harold Rogers PDMP and the National All Schedules Prescription Electronic Reporting Act of 2005 (P.L. 109-60, NASPER). The sections that follow provide an overview of each program.

## **Harold Rogers PDMP**

The Harold Rogers PDMP is a discretionary, competitive grant program administered by the U.S. Department of Justice (DOJ), Office of Justice Programs (OJP), Bureau of Justice Assistance (BJA). It was created to help law enforcement, regulatory entities, and public health officials analyze data on prescriptions for controlled substances.<sup>67</sup> Law enforcement uses of PDMP data include (but are not limited to) investigations of physicians who prescribe controlled substances for drug dealers or abusers, pharmacists who falsify records in order to sell controlled substances, and people who forge prescriptions.<sup>68</sup>

The program assists states (including U.S. territories) in the planning, implementation, and enhancement of their PDMPs. This involves

- establishing data collection and analysis systems to bolster the drug abuse prevention efforts of law enforcement, regulatory entities, and public health officials:
- enhancing existing PDMPs' use of data in order to identity trends in drug abuse and sources of diversion as well as increase the number of PDMP users;
- participating in national efforts to evaluate the efficiency and effectiveness of PDMPs;
- implementing and enhancing the interstate exchange of information to prevent diversion;<sup>69</sup>
- assessing the efficiency and effectiveness of existing PDMPs and encouraging other states to implement programs; and
- enhancing collaboration between law enforcement, prosecutors, treatment professionals, medical community members, and pharmacies to create a comprehensive PDMP strategy.

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(continued...)

<sup>&</sup>lt;sup>66</sup> Washington state update presented at Harold Rogers PDMP National Meeting, Washington, DC, June 4-6, 2012.

<sup>&</sup>lt;sup>67</sup> More information on this program can be found at from the U.S. Department of Justice, Bureau of Justice Assistance, *Harold Rogers Prescription Drug Monitoring Program*, https://www.bja.gov/ProgramDetails.aspx?Program\_ID=72.

<sup>&</sup>lt;sup>68</sup> U.S. Department of Justice, Drug Enforcement Administration, Office of Diversion Control, http://www.deadiversion.usdoj.gov.

<sup>&</sup>lt;sup>69</sup> PDMP data-sharing activities must utilize the PMIX architecture.

U.S. Department of Justice, Office of Justice Programs, Bureau of Justice Assistance, Harold Rogers Prescription Drug Monitoring Program FY 2015 Competitive Grant Announcement, pp.4-5, https://www.bja.gov/
 SCFunding%5C15PDMPsol.pdf. Hereinafter: Harold Rogers Prescription Drug Monitoring Program FY 2015

BJA recently released a program performance report for the Harold Rogers program for CY2013. This report highlights how BJA funds were used to implement and enhance PDMPs around the country.<sup>71</sup>

#### **Grant Purpose Areas**

States may apply for Harold Rogers PDMP grants in one of four categories: implementation and enhancement, PDMP practitioner and research partnerships, data-driven multidisciplinary approaches to reducing prescription drug abuse, or tribal PDMP data sharing.<sup>72</sup>

- PDMP Implementation and Enhancement Grants. States with legislation or regulations in place requiring the centralized collection of prescription drug dispensing data and/or designating the oversight or implementation of such a PDMP to a state agency, or are trying to improve an existing PDMP may apply for implementation grants of up to \$500,000.
- **PDMP Practitioner and Research Partnerships.** State agencies and units of local government (located in states with operating PDMPs) seeking to develop and test innovative strategies and implement evidence-based approaches that demonstrate the impact of expanded use of PDMP data to support decisionmaking may apply for a research grant of up to \$750,000.<sup>73</sup>
- Data-Driven Multidisciplinary Approaches to Reducing Prescription Drug Abuse Grants. States and localities within states with an existing and operational PDMP seeking to pilot an innovative approach to combating and reducing prescription drug abuse may apply for grants of up to \$500,000.
- **Tribal PDMP Data-Sharing Grants.** Tribal governments seeking to report to and request data from individual states' PDMPs for the purpose of equipping providers with prescription drug monitoring history data are eligible to apply for grants of up to \$150,000.

PDMP conformance to prescription monitoring information exchange (PMIX) architecture<sup>74</sup> is an explicit goal of BJA, and grant funding may be used for implementation of PMIX architecture-compliant hub solutions (among other things).<sup>75</sup> Additionally, grantees must utilize the PMIX architecture unless explicit waiver is given to use an alternative data-sharing system.<sup>76</sup>

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Competitive Grant Announcement.

<sup>&</sup>lt;sup>71</sup> See U.S. Department of Justice, Office of Justice Programs, Bureau of Justice Assistance, *Program Performance Report: Prescription Drug Monitoring Program (PDMP), January-December 2013*, https://www.bja.gov/Publications/PDMP\_PPR\_Jan-Dec13.pdf.

<sup>&</sup>lt;sup>72</sup> Harold Rogers Prescription Drug Monitoring Program FY 2015 Competitive Grant Announcement, pp. 2-3.

<sup>&</sup>lt;sup>73</sup> Applicants are required to incorporate a research partner.

<sup>&</sup>lt;sup>74</sup> The PMIX National Architecture allows for interoperability between different state PDMP systems and enables the exchange of PDMP data between states. For more information, see http://www.pdmpassist.org/content/prescription-drug-monitoring-information-architecture-pmix.

<sup>&</sup>lt;sup>75</sup> U.S. Department of Justice, Office of Justice Programs, Bureau of Justice Assistance, BJA Policy on Use of Harold Rogers Prescription Drug Monitoring Program (HRPDMP) Funding to Support Interstate Data Sharing Activities, May 30, 2012, https://www.bja.gov/Programs/PDMPPolicy.pdf. This supersedes interim policy guidance documentation dated March 21, 2012, and April 17, 2012.

<sup>&</sup>lt;sup>76</sup> Rogers Prescription Drug Monitoring Program FY 2015 Competitive Grant Announcement, pp. 5-7.

#### **Appropriations**

The program began receiving federal funding in FY2002 through the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations Act, 2002 (P.L. 107-77). While the program itself has never been authorized in statute, funding for the program has been provided to DOJ each year through the annual appropriations process. Annual appropriations information is listed in **Table 1**.

Table I. Harold Rogers Prescription Drug Monitoring Program Funding

(In millions of dollars)

	<u> </u>
Fiscal Year	Appropriation
2002	\$2.00
2003	\$7.50
2004	\$7.00
2005	\$10.00
2006	\$7.50
2007	\$7.50
2008	\$7.05
2009	\$7.00
2010	\$7.00
2011	\$5.80
2012	\$7.00
2013	\$6.51
2014	\$7.00
2015	\$11.00
2016	\$13.00

Source: FY2002 data from P.L. 107-77; FY2003 data from P.L. 108-7; FY2004 data from P.L. 108-199; FY2005 data from P.L. 108-447; FY2006 data from P.L. 109-108; FY2007 data from P.L. 110-5; FY2008 data from P.L. 110-161; FY2009 data from P.L. 111-8; FY2010 data from P.L. 111-117; FY2011 data are based on CRS analysis of the text of P.L. 112-10; FY2012 data from P.L. 112-55. FY2013 data were provided by the Department of Justice. FY2014 data were taken from the joint explanatory statement to accompany P.L. 113-76, printed in the January 15, 2014, Congressional Record (pp. H507-H532). FY2015 data were taken from the joint explanatory statement to accompany P.L. 113-235, printed in the December 11, 2014, Congressional Record (pp. H9342-H9363). FY2016 data were taken from the joint explanatory statement to accompany P.L. 114-113, printed in the December 17, 2015, Congressional Record (pp. H9732-H9759).

# National All Schedules Prescription Electronic Reporting Act of 2005 (NASPER)

The NASPER PDMP grant was a formula grant administered by the Department of Health and Human Services (HHS), Substance Abuse and Mental Health Services Administration (SAMHSA), Center for Substance Abuse Treatment (CSAT). NASPER grants were last funded in FY2010. Since then, legislation reauthorizing NASPER has been introduced repeatedly in both

chambers;<sup>77</sup> in September 2015, the National All Schedules Prescription Electronic Reporting Reauthorization Act of 2015 (H.R. 1725) passed the House.

The National All Schedules Prescription Electronic Reporting Act of 2005<sup>78</sup> amended the Public Health Service Act<sup>79</sup> to require the Secretary of HHS to award grants to states<sup>80</sup> to establish or improve PDMPs. Specifically, NASPER is intended to provide grant support to states to establish PDMPs that will allow health care providers to access prescription history information in order to identify patients at risk for addiction. It also requires that local, state, and federal law enforcement agencies have access to the database. Of note, however, the grants to states under NASPER are only for the PDMP; they do not fund any substance abuse treatment services.

#### **Grant Purpose Areas**

The two objectives of NASPER are to (1) foster the establishment of state-administered PDMPs that providers can access for the early identification of patients at risk for addiction in order to initiate appropriate interventions, and (2) establish a set of best practices for new PDMPs and improvement of existing PDMPs.

#### **Appropriations**

The NASPER Act of 2005 authorized appropriations for NASPER for FY2006-FY2010. The program was funded in FY2009 and FY2010. The final continuing resolution for FY2011 (P.L. 112-10) specifically prohibited the funding of NASPER.<sup>81</sup> Annual authorizations of appropriations and actual appropriations are listed in **Table 2**.

In order to be eligible for NASPER grant funding, states must meet certain requirements, such as having legal authority to implement PDMPs. All states that submit applications and meet the requirements receive grants non-competitively. The amount awarded to each state is defined by a two-part formula:

- 1. Each state receives a base amount of 1% of the total funding (i.e., \$20,000 in FY2010).
- 2. The remaining amount is distributed according to the ratio of the number of pharmacies in the individual state to the number of pharmacies in all states with approved applications.

Thirteen states received grants under NASPER in FY2010, the last year of funding. 82

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<sup>&</sup>lt;sup>77</sup> See, for example, H.R. 866 (112<sup>th</sup>), H.R. 3528 (113<sup>th</sup>), S. 2529 (113<sup>th</sup>), S. 480 (114<sup>th</sup>), H.R. 1725 (114<sup>th</sup>).

<sup>&</sup>lt;sup>78</sup> Unless otherwise noted, all information in this section on NASPER comes from the text of P.L. 109-60.

<sup>&</sup>lt;sup>79</sup> 42 U.S.C. §280g et seq.

<sup>&</sup>lt;sup>80</sup> States are defined as each of the 50 states and the District of Columbia.

<sup>&</sup>lt;sup>81</sup> Department of Defense and Full-Year Continuing Appropriations Act, 2011 (P.L. 112-10 §1815(a)(2)).

<sup>&</sup>lt;sup>82</sup> U.S. Department of Health and Human Services, *TAGGS - Tracking Accountability in Government Grants System*, http://taggs.hhs.gov/AdvancedSearch.cfm.

Table 2. National All Schedules Prescription Electronic Reporting Act of 2005 (NASPER) Funding through FY2016

(In millions of dollars)

Fiscal Year	Authorization of Appropriation	Appropriation
2006	\$15.00	\$0.00
2007	\$15.00	\$0.00
2008	\$10.00	\$0.00
2009	\$10.00	\$2.00
2010	\$10.00	\$2.00
2011	NA	\$0.00
2012	NA	\$0.00
2013	NA	\$0.00
2014	NA	\$0.00
2015	NA	\$0.00
2016	NA	\$0.00

**Source:** Authorizations of appropriations for FY2006-FY2010 from P.L. 109-60. Appropriations for FY2006-FY2010 are from Department of Health and Human Services, Fiscal Year 2011, Substance Abuse and Mental Health Services Administration, Justification of Estimates for Appropriations Committees. Appropriations for FY2011 are from P.L. 112-10. Appropriations for FY2012 from P.L. 112-74. Appropriations for FY2013 are from P.L. 113-6. Appropriations for FY2015 are from P.L. 113-235. Appropriations for FY2016 are from P.L. 114-113.

**Note**: NA = not authorized.

Although NASPER is not currently funded, HHS continues to support state PDMPs through other programs. For example, in September 2015, the Centers for Disease Control and Prevention (CDC) awarded funding to 16 states for prescription drug overdose prevention activities, including efforts to improve access to PDMPs and the timeliness of PDMP data.<sup>83</sup>

## **Program Comparison**

**Table 3** provides an overview and comparison of the Harold Rogers PDMP and the NASPER PDMP. Basic information is provided on program legislation, administering agencies, program objectives, performance measures, grant types, authorization of appropriations, and actual appropriations.

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<sup>&</sup>lt;sup>83</sup> HHS, CDC, *Prescription Drug Overdose Prevention for States*, http://www.cdc.gov/drugoverdose/states/state\_prevention.html.

Table 3. Comparison of the Harold Rogers Prescription Drug Monitoring Program (PDMP) and the National All Schedules Prescription Electronic Reporting Act of 2005 (NASPER)

	Harold Rogers	NASPER
Legislation	Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations Act, 2002 (P.L. 107-77)	National All Schedules Prescription Electronic Reporting Act of 2005 (P.L. 109-60)
Administering Agency	U.S. Department of Justice (DOJ), Office of Justice Programs (OJP), Bureau of Justice Assistance (BJA)	U.S. Department of Health and Human Services (HHS), Substance Abuse and Mental Health Services Administration (SAMHSA), Center for Substance Abuse Treatment (CSAT)
Program Objectives	Help states to plan, implement, and enhance their PDMPs.	Two objectives:
		I. Foster the establishment of state-administered PDMPs that providers can access for the early identification of patients at risk for addiction in order to initiate appropriate interventions.
		2. Establish a set of best practices for new programs and improvement of existing programs.
Grant Funding	Discretionary, competitive grants with three categories: planning, implementation, enhancement.	Formula grant program in which each state with an approved application receives funding according to the following two-part formula:
		I. Each state receives a base amount of $1\%$ of the total funding.
		2. The remaining amount is distributed according to the ratio of the number of pharmacies in the individual state to the number of pharmacies in all states with approved applications.
		The HHS Secretary may adjust the amount allocated to a state, after taking into consideration the estimated cost of the state's PDMP.
Authorization of Appropriations	While the program itself has never been authorized in statute, funding for the program has been provided to DOJ each year since FY2002 through the annual appropriations process.	Authorizes to be appropriated \$15.00M per year from FY2006-FY2007 and \$10.00M per year from FY2008-FY2010.
Appropriations	Appropriated \$2.00M in FY2002, \$7.50M in FY2003, \$7.00M in FY2004, \$10.00M in FY2005, \$7.50M in FY2006, \$7.50M in FY2007, \$7.05M in FY2008, \$7.00M in FY2009, \$7.00M in FY2010, \$5.8M in FY2011, \$7.00M in FY2012, \$6.51M in FY2013, \$7.00M in FY2014, \$11.00M in FY2015, and \$13.00M in FY2016.	No funds were appropriated for FY2006-FY2008; appropriated \$2.00M per year in FY2009 and FY2010; funding prohibited in final continuing resolution for FY2011; no funds were appropriated for FY2012-FY2016.

**Source**: CRS summary of information from the following sources:

For the Harold Rogers PDMP, CRS summary of U.S. Department of Justice, Bureau of Justice Assistance, *Harold Rogers Prescription Drug Monitoring Program*, https://www.bja.gov, P.L. 107-77, P.L. 108-7, P.L. 108-199, P.L. 108-447, P.L. 109-108, P.L. 110-5, P.L. 110-161, P.L. 111-8, P.L. 111-117, CRS analysis of the text of P.L. 112-10, P.L. 112-55, and P.L. 113-76. FY2013 appropriations data were provided by the Department of Justice.

For NASPER, CRS summary of the National All Schedules Prescription Electronic Reporting Act of 2005 (P.L. 109-60); Department of Health and Human Services, Fiscal Year 2011, Substance Abuse and Mental Health Services Administration, Justification of Estimates for Appropriations Committees, P.L. 112-10 Section 1815(a)(2), P.L. 112-74, P.L. 113-6, P.L. 113-76, P.L. 113-235, and P.L. 114-113.

# **Selected Policy Issues**

# Role of PDMPs in Federal Efforts to Address Prescription Drug Abuse

In response to the trend in prescription drug abuse, in April 2011 the Obama Administration released an action plan to respond to the "epidemic." This plan, from ONDCP, outlined four primary areas that may reduce the abuse of prescription drugs: educating individuals on the safe use of prescription drugs and risks involved in abusing them; implementing prescription drug monitoring programs (PDMPs) in the states and encouraging information sharing; developing programs for proper drug disposal; and providing law enforcement with tools to enforce proper prescribing practices and disband pill mills.

#### The VA and PDMP Participation

In March 2014, the VA published a final rule to implement the VA's authority to participate in state PDMPs.<sup>84</sup> VA prescribers should be able to query a state PDMP like other prescribers; however, a potential complication is that some state PDMP laws may restrict registration to prescribers who are licensed in the state, and some VA prescribers are licensed in a state other than where they work for VA. This issue and others are discussed in the HHS 2013 report to Congress on PDMP interoperability standards.<sup>85</sup>

As part of this plan, the Administration outlined actions to improve the functioning of state PDMPs and increase interstate PDMP operability and communications. Specific actions offered included

- working with states to establish effective PDMPs and encouraging research on PDMP effectiveness and means to improve PDMP effectiveness;
- supporting the NASPER reauthorization;
- ensuring that the Secretaries of the Department of Veterans Affairs (VA)<sup>87</sup> and the Department of Defense (DOD)<sup>88</sup> are authorized to share patient information with state PDMPs:
- encouraging federally funded health care programs to provide controlled substance prescription information to the state PDMPs (in states where they operate health care facilities or pharmacies);
- potentially reimbursing prescribers for checking PDMPs before writing controlled substance prescriptions to patients covered under insurance plans;

<sup>&</sup>lt;sup>84</sup> Veterans Affairs Department, "Disclosures to Participate in State Prescription Drug Monitoring Programs," 49 *Federal Register* 14400-14401, March 14, 2014.

<sup>&</sup>lt;sup>85</sup> U.S. Department of Health and Human Services, *Prescription Drug Monitoring Program Interoperability Standards*, *A Report to Congress*, September 2013, http://www.healthit.gov/sites/default/files/fdasia1141report\_final.pdf.

<sup>&</sup>lt;sup>86</sup> Office of National Drug Control Policy, *Epidemic: Responding to America's Prescription Drug Abuse Crisis*, 2011, http://www.whitehouse.gov/sites/default/files/ondcp/issues-content/prescription-drugs/rx\_abuse\_plan.pdf.

<sup>&</sup>lt;sup>87</sup> The Consolidated Appropriations Act, 2012 (P.L. 112-74) authorized the VA Secretary to share prescription information with state PDMPs.

<sup>&</sup>lt;sup>88</sup> According to Department of Defense, *Report to Congress: Medication Management for Physically and Psychologically Wounded Armed Forces Members In Fiscal Year 2011-2012*, RefID: 6-B74CA6F, March 14, 2012, "DoD providers can access PDMPs for controlled substance prescription histories before generating prescriptions for controlled substances.... The military specific response to this challenge includes work by the PharmacoVigilence Center to apply the lessons learned and apply it to the military where relevant." The report does not indicate whether DOD dispensers contribute information to state PDMPs; however, if servicemembers fill prescriptions at retail pharmacies in the private sector (in a state with a PDMP), the prescriptions would be reported just like any others.

- evaluating programs that require certain doctor shoppers or drug abusing individuals to use one doctor and one pharmacy;
- evaluating the potential for state PDMPs to reduce Medicare and Medicaid fraud;
- issuing a final rule from DEA on electronic prescribing of controlled substances;
- increasing the use of "Screening, Brief Intervention, and Referral to Treatment" programs to identify and prevent prescription drug abuse;
- identifying how health information technologies can enhance prescription drug information;
- testing the Centers for Disease Control and Prevention's surveillance system to generate measures of prescription drug abuse;
- assessing the use of the Drug Abuse Warning Network in the domain of prescription drug abuse;
- expanding DOJ's efforts to enhance interstate PDMP interoperability, particularly though the PMIX program; and
- evaluating existing databases with information on prescription drug access, use, misuse, and toxicity.<sup>89</sup>

While this plan has not been updated since it was released in 2011, the Obama Administration released a fact sheet in October 2015 outlining its public and private sector efforts to address both prescription drug abuse and heroin use. 90 This fact sheet noted that President Obama had issued a memorandum to federal departments and agencies directing two essential elements in combating this problem: prescriber training and improving access to treatment. It went on to describe private sector efforts, which included the National Association of Boards of Pharmacy enhancing access to PDMP data to thousands more physicians and pharmacists in Arizona, Delaware, Kentucky, and North Dakota in 2016. It also went on to describe public sector efforts, which included the federal government expanding access to PDMP data throughout federal agencies. 91

In the 114<sup>th</sup> Congress, the Senate passed a bill (S. 524; Comprehensive Addiction and Recovery Act of 2015)<sup>92</sup> that would establish state demonstration grants for comprehensive opioid abuse response. States receiving these grants must ensure, among other related requirements, that prescribers register with their respective state PDMP and check PDMP data prior to prescribing Schedules II, III, or IV substances. Similarly, grantees must ensure that dispensers (e.g., pharmacists) register with their respective state PDMP, check PDMP data prior to dispensing Schedules II, III, or IV substances, and "report to the state PDMP, at a minimum, each instance in which a [S]chedule II, III, or IV controlled substance is dispensed, with limited exceptions, as defined by the State, which shall indicate the prescriber by name and National Provider Identifier."<sup>93</sup>

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<sup>&</sup>lt;sup>89</sup> The White House, *Epidemic: Responding to America's Prescription Drug Abuse Crisis*, 2011, pp. 6-7, http://www.whitehouse.gov/sites/default/files/ondcp/policy-and-research/rx\_abuse\_plan.pdf.

<sup>&</sup>lt;sup>90</sup> The White House, FACT SHEET: Obama Administration Announces Public and Private Sector Efforts to Address Prescription Drug Abuse and Heroin Use, https://www.whitehouse.gov/the-press-office/2015/10/21/fact-sheet-obama-administration-announces-public-and-private-sector.

<sup>91</sup> Ibid.

<sup>&</sup>lt;sup>92</sup> A companion bill (H.R. 953) was introduced in the House that also would establish these state demonstration grants and accompanying PDMP-related requirements.

<sup>&</sup>lt;sup>93</sup> See Section 601 of S. 524; Comprehensive Addiction and Recovery Act of 2015 (CARA).

Supporting PDMPs is just one component in the overall federal effort against prescription drug abuse. Research on PDMP effectiveness has yielded sometimes inconclusive results, though research findings suggest that PDMPs may contribute to reduced doctor shopping and prescription drug abuse. As such, policymakers may assess the extent to which ONDCP, along with the other relevant departments and agencies, has taken steps to accomplish these PDMP-related goals laid out in the Administration's 2011 action plan and 2015 fact sheet.

## **Balancing Stakeholder Concerns**

While establishment and enhancement of PDMPs (such as interstate data sharing and real-time data access) enjoy broad support, <sup>94</sup> some stakeholders express concerns about (1) health care versus law enforcement uses of PDMP data, particularly with regard to protection of personally identifiable health information, and (2) maintaining access to medication for patients with legitimate medical needs.

#### Law Enforcement Use of PDMP Data

Research has demonstrated that PDMPs save law enforcement officials time in investigations, if law enforcement officials have access to PDMP information. Concerns about potential law enforcement uses of PDMP data have been expressed by stakeholder organizations representing prescribers. The American Medical Association (AMA), a professional association of more than 200,000 physicians, supports the use of PDMPs and recommended that PDMPs be housed in health-related agencies (rather than law enforcement agencies). 95 AMA further recommends that information from PDMPs "be used first for education of the specific physicians involved prior to any civil action against these physicians."96 The American Society of Addiction Medicine (ASAM), one of several national medical specialty societies under the AMA umbrella, likewise expresses concern about the use of PDMP data for purposes other than health care: "[L]aw enforcement, the judiciary, corrections professionals, employers, and others outside of the health care system should not be granted access to PDMP data except via the means available to them to secure access to other personally identifiable health information."97 The fact that PDMPs contain personally identifiable health information raises concerns about privacy and data security. Both AMA and ASAM stress the need to subject PDMP information to the same standards applied to other patient records.<sup>98</sup>

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<sup>&</sup>lt;sup>94</sup> For example, the Pharmaceutical Research and Manufacturers of America (PhRMA)—the industry group representing pharmaceutical research and biotechnology companies—supports PDMPs and recommends assessing their effectiveness and exploring enhancements. PhRMA, *Prescription Drug Abuse*, http://www.phrma.org/prescription-drug-abuse.

<sup>&</sup>lt;sup>95</sup> American Medical Association, *H-95.946 Prescription Drug Monitoring Program Confidentiality*, AMA Policy Statements, https://www.ama-assn.org/ssl3/ecomm/PolicyFinderForm.pl?site=www.ama-assn.org&uri=/resources/html/PolicyFinder/policyfiles/HnE/H-95.946.HTM.

<sup>&</sup>lt;sup>96</sup> American Medical Association, *H-95.947 Prescription Drug Monitoring to Prevent Abuse of Controlled Substances*, AMA Policy Statements, https://www.ama-assn.org/ssl3/ecomm/PolicyFinderForm.pl?site=www.ama-assn.org&uri=/resources/html/PolicyFinder/policyfiles/HnE/H-95.947.HTM.

<sup>&</sup>lt;sup>97</sup> American Society of Addiction Medicine (ASAM), Public Policy Statement on Measures to Counteract Prescription Drug Diversion, Misuse and Addiction, January 25, 2012, http://www.asam.org/advocacy/find-a-policy-statement/ view-policy-statement/public-policy-statements/2012/01/26/measures-to-counteract-prescription-drug-diversionmisuse-and-addiction.

<sup>&</sup>lt;sup>98</sup> American Medical Association, *H-95.946 Prescription Drug Monitoring Program Confidentiality*, AMA Policy Statements, https://www.ama-assn.org/ssl3/ecomm/PolicyFinderForm.pl?site=www.ama-assn.org&uri=/resources/html/PolicyFinder/policyfiles/HnE/H-95.946.HTM; and ASAM, *Public Policy Statement on Measures to Counteract* (continued...)

In recent years, the DEA has accessed state PDMP data without warrants in pursuit of violators of the federal Controlled Substances Act, which has caused controversy in the courts. In one federal court case originating in Oregon, a U.S. District Court ruled against the DEA, saying that the DEA's access of PDMP data without a court order was in violation of the 4<sup>th</sup> Amendment of the U.S. Constitution. <sup>99</sup> The DEA contended that 21 U.S.C. §876 preempts Oregon's court order requirement, <sup>100</sup> and that Oregon's PDMP should be ordered to comply with the DEA's administrative subpoenas. In a separate case originating in Texas, a U.S. District Court ruled in favor of the DEA, saying the DEA's use of the administrative subpoena to access patient data was consistent with the 4<sup>th</sup> Amendment. <sup>101</sup> Of note, this case did not involve PDMP data but rather a physician's patient files.

#### **Patient Access to Medication**

Limiting access to medication for patients with legitimate medical need is a potential unintended consequence of PDMP implementation. The 2011-2012 prescription drug abuse prevention strategy of the Center for Lawful Access and Abuse Deterrence (CLAAD), which is endorsed by more than 20 organizations, emphasizes that "efforts to prevent abuse must not impede proper medical practice and patient care." The American Academy of Pain Medicine (AAPM), a national medical specialty society under the AMA umbrella, similarly recognizes "the need for policies that support effective control of drug abuse without harming the appropriate treatment of pain." This concern may be related to fears about law enforcement uses of PDMP information, if prescribers are hesitant to prescribe monitored drugs for fear of becoming targets of investigations.

## Federal Role in Interstate Information Sharing and Interoperability

Administration and congressional attention to PDMPs has largely focused on enhancing interstate information sharing and the interoperability of state systems. The PDMP component of the Administration's 2011 action plan to counter prescription drug abuse included efforts to improve the functioning of state PDMPs and increase interstate PDMP operability and communications. In July 2012, Congress passed legislation (P.L. 112-144) that authorized the Secretary of HHS, consulting with the Attorney General as appropriate, to facilitate the development of recommendations on interoperability standards for interstate exchange of PDMP information by

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Prescription Drug Diversion, Misuse and Addiction, January 25, 2012, http://www.asam.org/advocacy/find-a-policy-statement/view-policy-statement/public-policy-statements/2012/01/26/measures-to-counteract-prescription-drug-diversion-misuse-and-addiction.

<sup>(...</sup>continued)

<sup>&</sup>lt;sup>99</sup> Oregon Prescription Drug Monitoring Program v. U.S. Drug Enforcement Administration, Case No. 3:12-cv-02023-HA (U.S. District Court for the District of Oregon, Portland Division 2014).

<sup>&</sup>lt;sup>100</sup> Pursuant to the Supremacy Clause of the U.S. Constitution.

<sup>&</sup>lt;sup>101</sup> U.S. v. Abbas T. Zadeh, Case 4:14-cv-00106-O (U.S. District Court for Northern District of Texas, Fort Worth Division 2015).

<sup>&</sup>lt;sup>102</sup> Center for Lawful Access and Abuse Deterrence (CLAAD), *National Prescription Drug Abuse Prevention Strategy:* 2011-2012 *Update*, http://www.claad.org/downloads/CLAAD\_Strategy2011\_v3.pdf. CLAAD is a 501(c)(3) not-for-profit organization that attempts to foster collaboration among health professionals, law enforcement, businesses, government, and other organizations involved in the issue of prescription drug abuse. See CLAAD, *Overview*, http://www.claad.org/about-claad/overview.

<sup>&</sup>lt;sup>103</sup> American Academy of Pain Medicine (AAPM), *Advocacy: Affecting Health Care on Behalf of our Pain Patients*, http://www.painmed.org/advocacy/main.aspx.

states receiving federal grants to support their PDMPs. In September 2013, HHS submitted its report to Congress on PDMP interoperability standards.

Past PDMP proposals in Congress have ranged from enhancing state-level databases and interstate information sharing to establishing a national system. While some may argue that monitoring controlled prescription substances is a state level activity, along with regulation of pharmacies and licensing of health care professionals, others may note that with the increasing reliance on mail order prescriptions and online pharmacies that deliver across state lines, monitoring of controlled prescription substances may be evolving into more of a federal or shared state-federal activity. Policymakers may debate the role of the federal government in incentivizing, directing, or establishing PDMP interoperability and information-sharing standards and programs. Such a debate could take place in the context of other federal, state, and local efforts to reduce prescription drug abuse.

#### The Rise in Heroin Abuse

In March 2014, Attorney General Holder called the rise in heroin abuse "a sad but not unpredictable symptom of the significant increase in prescription drug abuse we've seen over the past decade." While Attorney General Holder did not cite increased enforcement and monitoring as a reason for the rise in heroin abuse, others have stated that the crackdown on prescription drug abuse may have led users to turn to heroin, a cheaper alternative to prescription drugs that may be more easily accessible to some who are seeking an opiate high. 105

Policymakers may debate whether increased scrutiny and monitoring of prescription drug activity has unintentionally contributed to the increase in heroin abuse; and if this is the case, how might the government address this issue, if at all?

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<sup>&</sup>lt;sup>104</sup> U.S. Department of Justice, Attorney General Holder, Calling Rise in Heroin Overdoses 'Urgent Public Health Crisis,' Vows Mix of Enforcement, Treatment, Justice News, March 10, 2014, http://www.justice.gov/opa/pr/2014/March/14-ag-246.html.

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