ANALYSIS OF ALASKA'S PRESCRIPTION DRUG MONITORING PROGRAM

AWARENESS AND FEEDBACK QUESTIONNAIRE





Submitted by

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QUICK FACTS

Abstract

A state law mandating the Prescription Drug Monitoring Program (PDMP) registration, review, and reporting of and by practitioners and pharmacists was implemented in Alaska in 2017. In order to reduce opioid overprescribing, practitioners and pharmacists must make regular use of the PDMP database, but PDMP users have cited numerous barriers to regular use. Within 1 year of legislation mandating PDMP use, a survey of PDMP awareness, knowledge, and behavior was administered to several thousand licensed physicians, prescribers, and pharmacists in Alaska. Associations were found between PDMP user knowledge, opinions, characteristics, and their behaviors. Behaviors examined included reviewing PDMP for every patient (versus those that look suspicious, have known substance misuse, or have known behavioral health issues) and changing prescribing practices based on unsolicited reports. Insights into practitioners and pharmacists who use Alaska's PDMP will inform education and training efforts with the ultimate goal of enhancing PDMP use in the short-term and impacting opioid and heroin misuse and overdose in the long term. The purpose of this study was to further understand knowledge of and interaction with the PDMP system by physicians, prescribers, and pharmacists in order to enhance PDMP use and effectiveness.

Characteristics of Alaska PDMP

- Delegates allowed
- Unsolicited reports provided regularly
- Timely PDMP entry required
- Interstate data sharing with seven states
- NOT integrated with electronic health record
- NO automatic registration
- NO enhanced user interface



INTRODUCTION

House Bill 159 required registration, reviewing, and reporting for all prescriptions written for federally scheduled II - IV controlled substances (with minor exceptions). All practitioners and pharmacists meeting mandatory registration criteria were required to sign up and use the Alaska Prescription Drug Monitoring Program (AKPDMP or PDMP) by July 2017. As part of evaluating the functionality and usefulness of the PDMP, registered PDMP users were asked to participate in an awareness and feedback questionnaire. The purpose of the questionnaire was to further understand the general knowledge and interaction with the PDMP system by physicians, prescribers, and pharmacists in order to enhance PDMP use and effectiveness.

Funded by the Data-Driven Prevention Initiative (DDPI) of the Centers for Disease Control and Prevention (CDC), the State of Alaska is working to examine efforts that reduce opioid misuse and addiction in Alaska.

The Prescription Drug Overdose DDPI awarded funds to 13 states to support efforts to end the opioid overdose epidemic in the United States. This program assisted states in advancing and evaluating their actions to address opioid misuse, abuse, and overdose. That includes increasing the ability to:

- 1. Improve data collection and analysis around opioid misuse, abuse, and overdose;
- 2. Develop strategies that impact behaviors driving opioid dependence and abuse; and
- 3. Work with communities to develop comprehensive opioid overdose prevention programs.

NPC Research, the contracted policy evaluator for the Initiative in Alaska provides technical assistance and summarizes publicly available information to expand and evaluate policy associated with these efforts. NPC Research conducted multivariate analyses of the PDMP Awareness and Feedback Questionnaire data. Numerous relationships between survey items and constructs were assessed by conducting correlational analyses. Several of the associations were statistically insignificant or results did not suggest improved behavior would result from increased training/education or policy change. Appendix A summarizes the variables and p-values for numerous correlations involving behavior. Statistically significant and meaningful associations found with survey content and prescriber behavior are presented in this report.

The purpose of this report is to describe the statistical relationships between groups of PDMP users who shared their experiences in using Alaska's PDMP, associated resources and reports and to assess the level of individual knowledge currently being used to guide prescribing and dispensing practices. The findings can be used to assist the State of Alaska in developing opioid education materials and improving the resources used by and for prescribers and dispensers. In addition, feedback and



recommended revisions have been provided on the PDMP Awareness and Feedback Questionnaire to enhance the utility of collected data in future survey administrations.

This report includes correlational analyses of the PDMP Awareness and Feedback Questionnaire¹ data, a summary of the open-ended responses, and a discussion with recommendations. Appendices to the report include an associations table, a codebook that summarizes modifications to the survey data made in preparation for analysis, a copy of the survey, a summary of the open-ended responses, a poster visually summarizing key results, and feedback on the survey question wording and response options.

BACKGROUND

In 2008, Senate Bill 196 of the Alaska State Legislature amended Alaska Statute 17.30.200, mandating the creation of a database of controlled substance prescriptions (the Prescription Drug Monitoring Program or PDMP).² The Alaska Board of Pharmacy (BoP) created a secure online database in response to this legislation and in an effort to improve public health across the state of Alaska.³ The AKPDMP is a centralized database storing controlled substance prescription information for all patients for up to 2 years from the date of prescription.

The Alaska PDMP continues to be administered by the Alaska Board of Pharmacy under the Department of Commerce, Community, and Economic Development (DCCED), Division of Corporations, Business and Professional Licensing (CBPL).

The Alaska PDMP is designed to require data entry on every prescription for a Schedule II, III, and IV controlled substance (with minor exceptions)⁴ in an effort to ensure patient safety by:

- providing prescribers and pharmacists with dispensing history by patient;
- providing information on clinically appropriate controlled substance medications;
- storing information for investigations on potential misuse and abuse;
- providing information on the prescribing of appropriate medications; and
- generating comparative reports for practitioners.

¹ Preliminary descriptive analyses provided by the online survey vendor can be found at: <u>https://www.commerce.alaska.gov/web/Portals/5/pub/PDMP_FeedbackQuestionaire_07.2018.pdf</u>

² Data and content retrieved from:

https://www.commerce.alaska.gov/web/portals/5/pub/PHA_PDMP_2019_LegislativeReport.pdf ³ Data and content retrieved from:

https://www.commerce.alaska.gov/web/cbpl/ProfessionalLicensing/PrescriptionDrugMonitoringProgram.aspx ⁴ Data and content retrieved from:

https://www.commerce.alaska.gov/web/portals/5/pub/PHA PDMP 2019 LegislativeReport.pdf



In July 2017, House Bill 159, a state law mandating PDMP registration, review, and reporting by practitioners and pharmacists was implemented. Those applying for or holding a DEA registration must register for the PDMP. All prescribers and pharmacists are required by law to register and enter information. This includes dentists, physicians, nurse practitioners, optometrists, pharmacists, and veterinarians.⁵ In addition, it created allowances for a program to assign other licensed, certified staff (delegates) access to the database as part of their work for prescribers.

As of 2018, there were 7,045 registered PDMP users, an increase from 1,785 in 2016 (before the legislation).⁶ Registration counts by profession include 2,446 physicians, 573 physician assistants, 1,011 pharmacists, 916 nurse practitioners, 639 dentists, 72 optometrists, 249 veterinarians and 1,499 "other."

In addition to registering for the PDMP, individuals with a current DEA registration are required to attend two hours of education in pain management and opioid use and addiction in the two year renewal period for the program.

Most (49) states use a PDMP. In some states, PDMP data are sometimes used by epidemiologists, researchers and educators to study relationships that impact policy creation and can inform prevention efforts. Unlike in some other states, the AKPDMP data are not archived for research purposes. The Alaska PDMP is not directly connected to medical records.

In addition to the online database itself, a resource website⁷ aims to provide timely and accurate instructions, information, resources, and necessary applications relevant to the AKPDMP. The database vendor also generates *Unsolicited Reports - Prescriber Report Cards* which summarize prescribing activity and provides comparative summary data with other prescribers in Alaska in the same occupation, on a quarterly basis. A variety of metrics are displayed including the number and type of prescriptions written.

The PDMP Awareness and Feedback Questionnaire requested feedback on the different components of the PDMP as well as attempted to ascertain the level of knowledge of the law by respondents.

⁵ Data and content retrieved from:

https://www.commerce.alaska.gov/web/portals/5/pub/PHA_PDMP_2019_LegislativeReport.pdf ⁶ Data and content retrieved from:

https://www.commerce.alaska.gov/web/portals/5/pub/PHA_PDMP_2019_LegislativeReport.pdf

⁷ <u>https://www.commerce.alaska.gov/web/cbpl/ProfessionalLicensing/PrescriptionDrugMonitoringProgram.aspx</u>



METHODS

The PDMP Awareness and Feedback Questionnaire was designed to ask users their impressions of the new required entry of prescription information. An online survey was created and sent to all registered users. Respondents were informed that the estimated participation time was 15 to 20 minutes and that their results will remain anonymous.

Specifically, the PDMP Awareness and Feedback Questionnaire:

- Web-based survey link was emailed to licensed physicians, prescribers, and pharmacists posted to licensing board websites, and sent out as a mass notice via PDMP announcements;
- Reached 9,691 licensed physicians, prescribers, and pharmacists in Alaska via email and 6,098 licensed practitioners via PDMP announcements between May and July 2018. Follow-up contact was made to remind participants to complete the survey; and
- Data from *N* = 402 completed surveys were available for analysis; the quantitative multivariate analyses focused on prescribers (*N* = 186).

Limitations

In 2018 there were more than 7,000 registered users of the Alaska PDMP, and more than 4,000 of these were prescribers.⁸ The analyses presented in this report were conducted on 186 prescribers, which is less than 5% of all registered prescribers. Considering such a small response rate, these survey respondents essentially represent a convenience sample—those who were easy to recruit and willing to complete the survey.

Open-ended Responses

Qualitative responses to open-ended questions were grouped into themes for all respondents (N = 402) who provided content in the text fields. These responses are summarized with the relevant quantitative analyses and in Appendix D.



Quantitative Methods

The chi-squared and frequency analyses primarily focused on the prescribers. Several questions, noted in appendix B, where the respondent answered "no-I do not prescribe" defined the category of non-prescriber. The rest were designated as prescribers. The total number of respondents was 402. Narrowing the group down to prescribers only resulted in a sample size of 186. Though sample size varies by question because not all prescribers answered all questions; there was missing data for some questions.

Some global transformations of the answers were performed. One type of change was the consolidation of similar categories. The purpose of which was clearer interpretation and increased likelihood of meeting the requirements for statistical tests. For a range of values on a Likert scale, such as from "strongly disagree" to "strongly agree," the "strongly disagree" and "disagree" categories were combined, as were the "strongly agree" and "agree" categories. Another type of change involved the dropping of values. For neutral values, such as "neither agree nor disagree" those responses were disregarded. The purpose of which was to concentrate correlations on respondents who indicate a preference. The "other" categories were dropped as well. Open-ended "other" responses were included in the qualitative analysis.

In summary, the results can be interpreted for the group of prescribers who had a preference within each question. Appendix B lists all of the variable value changes.

The questions were separated by several constructs in order to do some investigation based on theoretical relationships: user qualities, knowledge, actions, and training. Table 1 lists and describes each.

Торіс	Description
User Qualities	Role (physician, physician's assistant/nurse practitioner, dentist), length of time using PDMP
User Knowledge	Allowable exceptions to mandatory use of the PDMP
User Behaviors	Frequency of using PDMP, reviewing PDMP for every patient versus based on patient characteristics, changed prescribing patterns
Training	Modes (in-person, email/newsletter, 5-min web video, 15-min web video, 30-min training via teleconference), likelihood of attending training

Table 1. Key Survey Topics



The "user qualities" referenced the user role and length of time using the PDMP. "Knowledge" involved questions about the program. The "knowledge" scale value was created from these three true/false questions about the PDMP (q44-46). "Practitioners are exempt from interacting with the PDMP when:

- ... administering to a patient admitted to a health care facility."
- ... dispensing, prescribing, or administering at the scene of an emergency, in an ambulance, or in an emergency department."
- ... dispensing, prescribing, or administering at a hospice or nursing home that has an inpatient pharmacy."

The "actions" investigated included whether or not their prescribing patterns changed, how often they check the PDMP, and for whom the prescribers checked the PDMP. Actions of the prescribers were the primary focus, because the goal is for users to consistently check the PDMP for all patients, regularly enter data into the PDMP for every prescription, and change to safer prescribing practices as a result of unsolicited PDMP prescriber reports and education and training on PDMP use, recommended prescribing practices, and education or training. The two "training" questions involve the training format or mode and likelihood of engaging in training opportunities.

Construct	Q#	Question	Answers	Notes
User qualities	1	Please specify your user role	DoctorPA/NP, etc.Dentist	Recoded from 8 categories: Physician (MD, DO); Nurse Practitioner (includes APRN, NP, CNM, CNS, CRNA); Physician Assistant; Dentist; Pharmacist; Podiatrist; Optometrist; Veterinarian
Š	50	How long have you used the PDMP?	 Never 1-6 months 7-12 months 3-4 years 5+ years 	Survey missing 1-3 years; the categories of "5-6" and "7+ years" were combined to form the 5+ category
Knowledge	42- 49	Practitioners are exempt from interacting with the PDMP when		Beginning phrase for questions 42-49; the correct answer is "true" for questions 42-49

Table 2. Key Questions Grouped By Topic



Construct	Q#	Question	Answers	Notes
	42	dispensing to a patient for an outpatient supply of 24-hour or less at a hospital with an inpatient pharmacy for use after discharge.	TrueFalse	
	43	dispensing to a patient for an outpatient supply of 24-hour or less at a hospital emergency department for use after discharge.	TrueFalse	
	44	administering to a patient admitted to health care facility.	TrueFalse	
	45	dispensing, prescribing, or administering and the scene of an emergency, in an ambulance, or in an emergency department.	TrueFalse	
	46	dispensing, prescribing, or administering at a hospice or nursing home that has an inpatient pharmacy.	TrueFalse	
	47	 dispensing, prescribing, or administering immediately before, during, or within the first 48 hours after surgery or a medical procedure. 	TrueFalse	
	48	dispensing, prescribing, or administering in a non-refillable prescription for a controlled substance in a quantity intended to last for not more than three days.	TrueFalse	
	49	administered to a patient admitted to a correctional facility.	TrueFalse	



Construct	Q#	Question	Answers	Notes
	44- 46	Scale combination of questions 44 to 46.	TrueFalse	
	42- 49	Scale combination of questions 42-49	TrueFalse	
	2	Awareness of the PDMP website, pdmp.alaska.com	YesNo	
	39	Number of states that Alaska shares PDMP data with	 None 1 2-3 4-5 6-7 	The correct answer is 7
	22	How often do you check the PDMP?	 Always/Usually Sometimes Rarely/Never 	"Always" and "usually" were combined to form "always/usually"; similarly, "rarely" and "never" were combined to form "rarely/never"
Actions	52	Who do you check the PDMP on?	EveryoneOther criteria	"Other criteria" was a combination of 3 categories "suspicious patients"; "substance misuse" or "behavioral health" problems
	11	I changed my prescribing pattern as a result of looking at my report card.	AgreeDisagree	"Strongly agree" and "agree" were combined, as were "strongly disagree" and "disagree;" "neither" was dropped



Construct	Q#	Question	Answers	Notes
	53	How likely are you to engage in a PDMP-specific training?	LikelyUnlikely	"Very likely" and "likely" were combined, as were "very unlikely" and "unlikely;" "neither" was dropped
Training	54	If you are interested in engaging in PDMP-specific training, what modality would be most useful and effective?	 In-person training Email or newsletter 5-minute on- demand videos 30-minute training via teleconference Other 	"Other" was dropped and left to the qualitative analysis

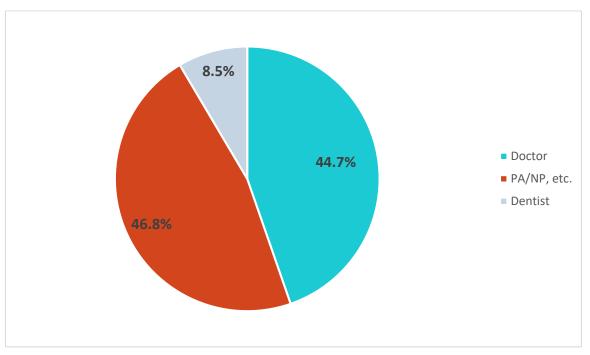


RESULTS

Role of Survey Respondents

User role was collapsed to three categories: doctor, PA/NP (etc.), dentist, and other. "Other" was dropped as indicated in the variable changes. The sample distribution was nearly half doctors; nearly half physicians' assistants, nurse practitioners, and other non-doctor medical professionals (indicated as "PA/NP, etc." in the legend below); and the remaining use role was dentists (8.5%). Figure 1 displays the distribution of user roles.

Figure 1. User Role





Dentists Less Likely to Use the PDMP

A significant relationship was found between user role and checking of PDMP when dentists were included. Dentists were less likely than the other two roles to always check the PDMP. See Figure 2. However, there was no relationship found when dentists were excluded from the analysis. See Figure 3. It makes sense that the dentists might be a separate class of medical professionals who interact differently with the PDMP than other prescribers. The qualitative results echo the sentiment that the dentists do not think the system is geared towards them.

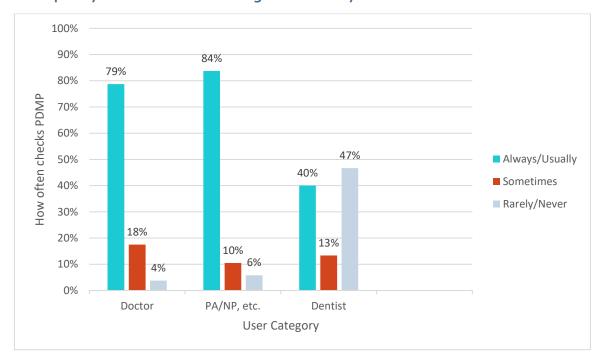


Figure 2. Frequency of Prescribers Checking the PDMP by Role

 $[X^2 (4, N = 181) = 33.9, p < 0.001]$



With dentists removed, there was no significant difference for the frequency of referring to the PDMP between the doctor and non-doctor prescribers, as Figure 3 demonstrates.

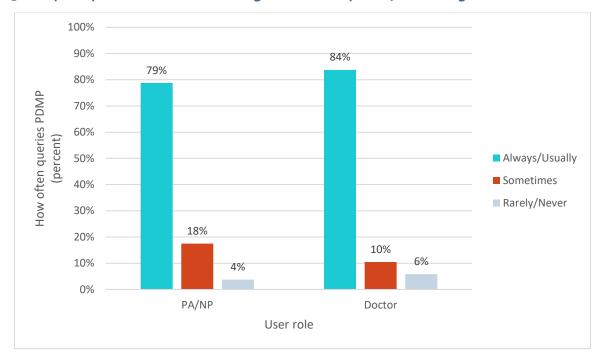


Figure 3. Frequency of Prescribers Checking the PDMP by Role, Excluding Dentists

 $[X^2(2, N = 166) = 2.0, p > 0.05].$

No relationship was found between length of time using the PDMP and the behaviors involved in interacting with the PDMP described above (frequency of checking the PDMP and the criteria used to determine who to check the PDMP on). Though there was not a large enough sample size to meet the requirements of the X^2 test. In addition, missing the one to three year category in the survey makes the results difficult to interpret. In future survey administrations, a category of 1-2 years should be

"It allows me to check and see if my patients are getting prescriptions filled from other providers." – Survey respondent

added to the question asking "how long have you used the PDMP?" in order to make the response categories exhaustive and gather data on what is likely the most common amount of time respondents have been using the PDMP.

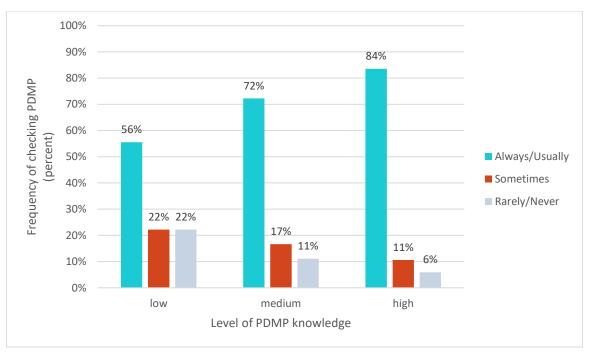


When asked for which patients do you generally check the PDMP, over 117 respondents (including all respondents not just prescribers) selected "other" and most of these used the field to say that they check all patients *prescribed a controlled substance* (an interpretation of one of the discrete responses). Specific responses included: only checking <u>new</u> patients, that they intend to check when it becomes mandatory, a belief that prescriptions are checked at the pharmacy, not checking for short-term prescriptions for acute injuries, or that they are only checking for surgery patients.

More Knowledge Associated with Frequent PDMP Checking

Physicians or prescribers with high knowledge are more likely to always/usually query the PDMP. Figure 4 shows the increase of the always/usually category with increased knowledge, from 56% for low knowledge to 84% for high knowledge. The knowledge level indicated here is based on the combined knowledge scale noted in the Key Questions Grouped by Topic table.

Figure 4. Frequency of Checking the PDMP (always/usually, sometimes, rarely/never) for different PDMP knowledge levels (low/medium/high)



 $[X^2 (4, N = 184) = 9.8, p < 0.05]$

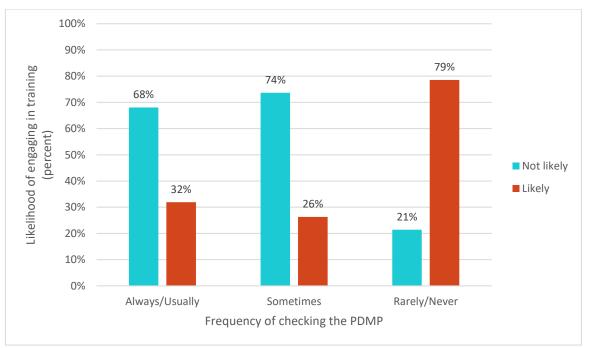


Offer More Training for Later Adopters

Figure 5 shows that a greater percentage (79%) of those who rarely/never check the PDMP than those who sometimes (26%) or always/usually (32%) would be likely to participate in training. If additional training was offered, perhaps more training would increase their rate of checking the PDMP. It was encouraging to note the willingness of those who rarely check the system to engage in training.

"Reviewing is the right thing to do." – Survey respondent



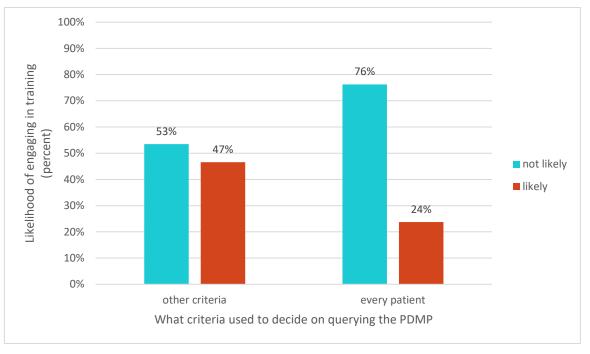


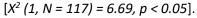
 $[X^2 (2, N = 127) = 12.4, p < 0.005].$



Ideally, the prescribers would be checking the PDMP on every patient. Figure 6 indicates that the prescribers who use other criteria (like how the person looks) reported a higher likelihood of engaging in training (47%) than prescribers who check every patient (24%). As above, if additional training was offered, perhaps the willingness to engage in training would result in more training received and, over time, an increase in checking the PDMP on all patients.







Nineteen people responded "other" when asked what training modality would be most useful and effective. Most (16) used the "other" field to say they were not interested in trainings. Only three respondents provided relevant "other" content - that in-person training was not useful, a preference for an online training with CMEs, and an online training provided via the website and user interface.

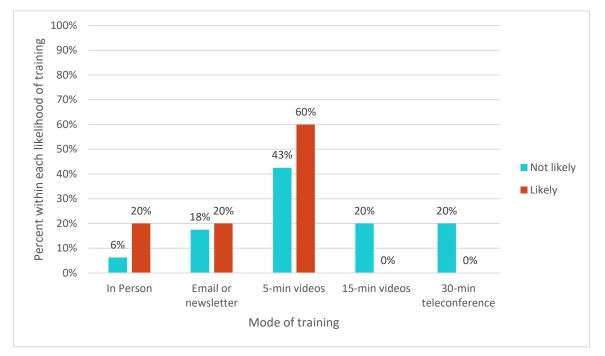
"[The PDMP] provides information regarding patient access to controlled substances." - Survey respondent



Preferred Training Modalities

Both those who were likely to participate in a training and those who were not likely preferred the 5minute on-demand videos over other potential training modalities. See Figure 7 below.





From previous investigations, streamlined enrollment, training and educating prescribers, enhanced interface and uploading PDMP in real-time, retaining and sharing data, and integrating PDM data with electronic health records were possible arenas for improvement reported by survey respondents.

As far as the content of that training or potential adjustments to the program, the following topics may be helpful to address. The following feedback included all respondents who answered the questions, not only prescribers. The arenas discussed below include positive interactions with PDMP.

Positive Interactions with the PDMP

Respondents indicate that the most helpful sources of information included the FAQ (33%), sign-up instructions (20%), and data submission (15%). Most found reporting prescription information to the PDMP straight forward as 62% reported easy and 38% reported difficult. Of those who have delegate access, 70% found it helpful. Perhaps decreasing any barriers to assigning delegates could ultimately improve adherence to consistent reviewing and reporting practices and/or the ease of PDMP use.



When asked to check all that apply when describing the reasons they use the PDMP, forty-eight respondents selected "other". Of these, nineteen provided additional reasons or nuances on one of the

discrete choices ("reduces prescription opioid misuse", "reduces all opioid use", "reduces prescription diversion" "a way to screen for substance misuse", "for self-preservation", "it is my moral and ethical obligation to do so", "mandatory to do so", and "I am making a difference"). Fifteen responses were positive and these include obtaining patient information (7), ensuring patient safety (6), the law is effective (3),

"I wish the program had started >10 yrs ago & I hope the State Medical Licensing Board uses it actively."

it works in other states (2) and that it is mandatory (4). Respondents specifically noted:

"It allows me to see if my patients are honest and forthcoming."

"Have seen similar programs work in other states."

"Hope it makes a difference. It's a tool."

"I am retired but believe that this program is extremely valuable."

"It deters addiction and addictive behavior."

Challenging Interactions with the PDMP

Table 3 lists the top 6 tasks that respondents indicated as "challenging." Correcting prescription errors was the most challenging interaction followed by consolidating patient information.

Table 3. List of Tasks in Decreasing Order of Reported Difficulty

	Percent of practitioners				
Task	Not Challenging	Somewhat Challenging	Challenging	Note	
Correcting prescription errors	11%	35%	54%	Graphed in Figure 8 below.	
Consolidating patient information	12%	37%	51%	Graphed in Figure 9 below.	
Reporting	42%	37%	21%		

Figure 8 shows that 54% ranked the experience of correcting prescription errors as "challenging."



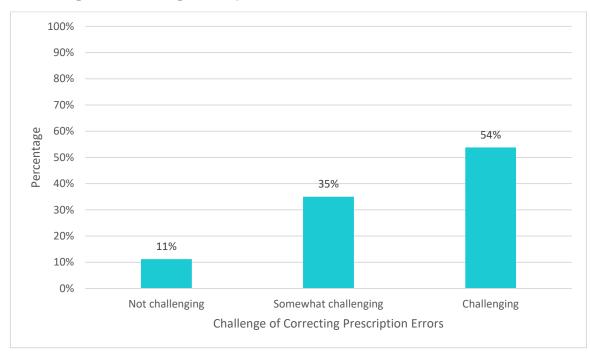


Figure 8. Challenge of Correcting Prescription Errors



Figure 9 demonstrates that 51% of the practitioners found consolidating patient information challenging.

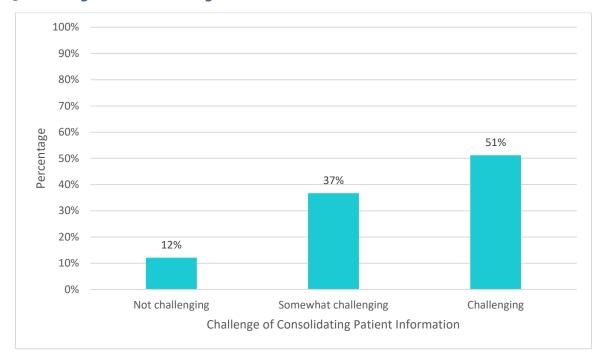


Figure 9. Challenge of Consolidating Patient Information

When asked to check all that apply to describe the reasons they use the PDMP, forty-eight respondents selected "other".

"I am forced to use it by a system that doesn't account for the subtleties of my profession."

"It's my job."

"I'd like to believe it [creates positive change] but have not seen any evidence based study that shows it really does. Another question would be - 'does it drive more users to use heroin?"

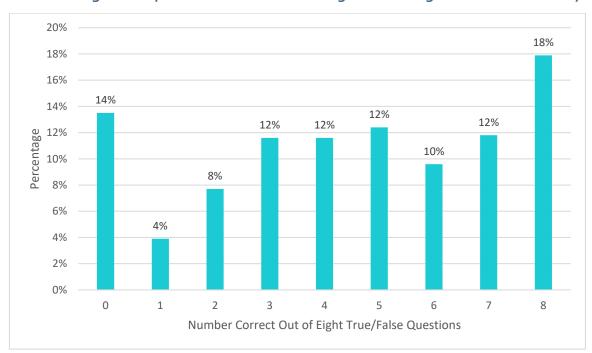
Knowledge of the PDMP

One of the knowledge items asked respondents to report the number of states with which Alaska is currently sharing PDMP information. At least 92% of prescribers answered this knowledge item incorrectly. Most prescribers (58%) answered zero states; the correct answer was seven states.

A knowledge scale was constructed and it consisted of a variety of true/false questions (questions 42-49 in Table 2) related to the knowledge of situations where checking the PDMP was not required. A small percentage (18%) answered all eight correctly (true). Since these questions only apply to specific



exceptions for checking the PDMP, perhaps those who answered any incorrectly (82%) did not work in those settings to which the exceptions apply. Figure 10 shows the percentage of prescribers who answered various numbers of the knowledge questions incorrectly.





Frequency of Checking the PDMP

There are couple of important actions to focus on that were discussed in more depth in the quantitative results section.

- 1. Checking the PDMP always or usually: only 72% query PDMP always or usually, meaning 28% check it less often.
- 2. Checking the PDMP for every person: 48% check the PDMP for every person. 52% do not check every person and instead check certain people using various criteria.

The desire would be for each practitioner to check the PDMP for every patient in every prescription situation, besides the allowable exceptions listed above in the knowledge section (Q42-49).



The survey included areas for respondents to enter text for many of the questions. The following is a summary of these text fields.

Summary of Qualitative Responses

A few themes emerged across the qualitative survey questions:

- A few positive comments mentioned the ease of use, that the site is self-explanatory, help was received when requested via email or phone, the report cards were informative, and that the email messages linked them to useful additional content.
- Respondents generally used the website for patient searches only, some were not aware of the other features while others had no interest in the other features.
- Adding national access or access to other states was requested.
- The concept of delegates was confusing for some and there were requests for CMAs to be authorized as delegates.
- Assistance from the State offices may not be consistent. There was mention of not being able to get help at all but more often that respondents were unable to get timely or knowledgeable assistance.
- Veterinarians and dentists do not feel that the law, the website, or the report cards were designed with them in mind.

While not themes, the following concepts were mentioned that could be addressed in communications to prescribers: situations in which checking and entering patient information is mandatory, concerns about HIPAA/confidential information being shared, using existing data to determine information sharing states, adding military pharmacies, and addressing concerns within the Alaska Native communities along with how/if the Pharmacy Board is also addressing this issue.

Specific comments on the user interface included:

- too slow, too many steps, too complicated;
- doesn't fit on the screen, search button is lost at the bottom of the page and perhaps needs to be a different color, include a search function within a listing of a doctor's patients;
- add an open field for communicating with pharmacies, add a link to report suspected abuse/initiate an investigation;
- develop an easier method for making corrections;
- dashboard displays more than one patient name at a time so unable to use when patients are in the room; and
- increase the length of time before automatically logging users off, passwords expire too frequently and log-in is cumbersome.

Data availability was also mentioned:



- respondents were unable to view their own prescription information entered—not showing up in future searches;
- concerns for increased accuracy;
- requests for an automatic message when their patient receives a controlled substance from another source;
- requests to include an entry for dosage and instructions for the prescription; and
- concerns that pharmacies were not entering information in a timely manner or that they were unable to access this information.

Summary data requests included: more frequent access to report card information; ensuring the report cards are comparing the respondent to the correct field of medicine (hospice, surgery, etc.); include the location (rural/urban) as a criteria for comparisons; and include patient diagnosis as a criteria for comparison (if patients are in comfort care, etc.). Several respondents were not familiar with the report cards or had only seen one.

Most of the open-ended responses were used to explain that the survey and the PDMP were not relevant to the respondent (not prescribing, not working in AK). A few respondents question the law and the fees being charged. Some respondents mentioned that if this were not mandatory they would not be doing it.

Please see Appendix D for a description of the open-ended responses.



DISCUSSION

Overall, respondents to this survey found the reports useful, noted challenges in using the Alaska PDMP, and were not yet savvy on the few exceptions or the number of states data were shared among. Overall, they are somewhat interested in trainings and those with low PDMP usage are the most interested in trainings.

The survey response rate created limitations as to the relevance and interpretation of the data. However, the following recommendations should be considered:

- Provide training and reminders to ensure prescribers are consistently checking the PDMP for every patient, as mandated by the law. Survey results indicate that for this sample, 72% query PDMP always or usually and 48% check the PDMP for every person. In addition, 41% were likely to participate in a training and 58% preferred an online offering.⁹ Offer trainings and send email reminders.
- 2. Provide training on the details of the law. Respondents indicated a lack of knowledge of the specifics on the exceptions to mandatory use of the AKPDMP and data sharing with other states. Schedule training and draft email reminders on these topics.
- 3. Ensure dentists and veterinarians are able to successfully enter information into the PDMP. Dentists reported difficulties and lower usage—in the open-ended responses they indicated that it felt as though the system was not designed for them. Veterinarians mentioned similar issues.
- **4.** Ensure the unsolicited prescriber reports are accurate comparisons for the prescribers. Specialties may now be delineated into three subcategories. Ensure the correct subcategories are generated for each prescriber.
- 5. Share information on delegate access broadly. Increase access for delegates and where possible, decrease barriers for delegate access to allow prescribers assistance in making timely and accurate PDMP entries and using the PDMP information as part of their prescribing patterns.
- **6. Increase survey response rate.** Attempt to reach more users with additional reminders and highlighting the link in multiple areas. Offer incentives to increase survey responses.
- 7. Modify the survey to gather information from other users. Include questions for dispensers/pharmacists and delegates in the 2019 PDMP Awareness and Feedback Questionnaire. See other survey feedback for changes in question wording, order, response categories, and deletion and addition of questions.



⁹ Preliminary data from the survey vendor:

https://www.commerce.alaska.gov/web/Portals/5/pub/PDMP FeedbackQuestionaire 07.2018.pdf

8. Consider ways to facilitate research and data analytics on the PDMP data. PDMP data are currently purged 2 years after the prescription is dispensed. There is no state mandate for archiving data and the statute has no exclusions for the availability of de-identified data for research and educational purposes.



APPENDIX A: X₂ P-VALUES



			B	ehavior Ques	tions
Construct	Q#	Q shorthand	Changed prescribing patterns (Q11)	How often check PDMP (Q22)	What patient criteria used to check the PDMP (Q52)
	Q1	User role	0.821	0.000 (<0.0001)	0.707
	Q50	How long used the PDMP	*	*	*
User	Q55	Register w/another state PDMP	0.554	0.122	0.564
	Q2	Awareness of PDMP website	*	*	0.505
	Q39	Number of states that AK shares PDMP data with	*	*	0.135
	Q42	Outpatient supply for 24hrs or less hospital with inpatient pharmacy	0.918	0.163	0.817
	Q43	Outpatient supply from ED for 24hrs or less hospital with inpatient pharmacy	0.397	0.203	0.549
	Q44	Administering to an admitted patient	0.980	0.201	0.023
edge	Q45	Scene of emergency, ambulance, or ED	0.180	0.006	0.665
Knowledge	Q46	Hospice, nursing home	0.030	0.032	0.014



			В	ehavior Ques	tions
Construct	Q#	Q shorthand	Changed prescribing patterns (Q11)	How often check PDMP (Q22)	What patient criteria used to check the PDMP (Q52)
		w/inpatient pharmacy			
	Q47	Immediately before, after, during surgery	0.479	0.211	1.000
	Q48	Non-refillable prescription for not more than 3 days	0.361	0.111	0.397
	Q49	Patients admitted to a correctional facility	0.075	0.184	0.251
	Q44- 46	Combined knowledge scale	0.303	0.043	0.050
D0	Q53	Likelihood of engaging in training	0.076	0.002	0.010
Training	Q54	Modality of training	*	*	0.155

*violates X² sample size requirement



APPENDIX B: SURVEY



Questionnaire Information: Following the passage of House Bill 159, registration, reviewing, and reporting requirements for federally scheduled II - IV controlled substances went into effect. All practitioners and pharmacists meeting mandatory registration criteria were required to sign up and use the PDMP by July 2017. As part of evaluating the functionality and usefulness of the PDMP, please participate in this awareness and feedback questionnaire. The estimated participation time is 15 to 20 minutes and results will remain anonymous. 1. Please specify your user role (should match the user role used to register with the PDMP). Dentist Podiatrist Nurse Practitioner (includes APRN; NP, NM, CNS, CRNA) Physician Assistant Pharmacist Optometrist Physician (MD, DO) Veterinarian * 2. Are you aware that a State of Alaska PDMP website is available to all practitioners and pharmacists required to register with the PDMP and can be accessed at pdmp.alaska.gov? This website is separate from the PDMP platform, AWARxE. Yes No * 3. What source(s) of information do you find most helpful when navigating the State of Alaska PDMP website (pdmp.alaska.gov)? **Frequently Asked Questions** Joint committee on Prescriptive Guidelines Report to Alaska State Legislature Sign-Up Instructions House Bill 159 Data Submission Dispenser Guide Legislative Reports Comprehensive Guide to PDMP Requirements and Effective Other Notifications Embedded into Website Dates Other (please specify) * 4. Rate the accessibility of the State of Alaska PDMP website (pdmp.alaska.gov). Very easy Difficult Very difficult Easy Neither easy nor difficult

5. Rate the helpfulness of the State of Alaska PDMP	website (pdmp.alaska.gov).
Extremely helpful	Not so helpful
Very helpful	Not at all helpful
Somewhat helpful	
6. What could be added to improve the quality of the	PDMP state website (pdmp.alaska.gov)?
Sample prescriber report "report card"	
More instructions on how to use the the PDMP database, AV	WARxE
Resources to other helpful links or relevant organizations, e. Disease Control and Prevention	.g.: Alaska Department of Health and Social Services or Centers for
Other (please specify)	
7. Do you regularly receive a prescriber report card?	
Yes	
No - I do not prescribe	
\smile	
8. What specific metrics of the report card do you find	d most informative? (Check all that apply).
The number of similar prescribers working within my	The monthly average of prescription volumes in MME written
profession The number of prescribers working in the same specialty	The monthly average of anxiolytic, sedative, and hypnotic
The average number of patients receiving opioids compared	prescriptions
to similar prescribers and prescribers in the same specialty	
The number of opioid prescriptions I've written compared to similar prescribers and prescribers in the same specialty	Dangerous combination therapies (prescriptions for opioids + benzodiazepines) I've written compared to other prescribers
Top three (3) medications I've prescribed	Dangerous combination therapies (prescriptions for opioids + benzodiazepines + carisoprodol) I've written compared to
Prescriptions I've written by Morphine Milligram Equivalent (MME)	other prescribers
	Not applicable - I do not prescribe

9. What specific metrics of the report card do you fi	nd least informative? (Check all that apply).
The number of similar prescribers working within my profession	The monthly average of prescription volumes in MME written
The number of prescribers working in the same specialty	The monthly average of anxiolytic, sedative, and hypnotic prescriptions
The average number of patients receiving opioids compared to similar prescribers and prescribers in the same special	
The number of opioid prescriptions I've written compared similar prescribers and prescribers in the same specialty	to Dangerous combination therapies (prescriptions for opioids + benzodiazepines) I've written compared to other prescribers
Top three (3) medications I've prescribed	Dangerous combination therapies (prescriptions for opioids + benzodiazepines + carisoprodol) I've written compared to
Prescriptions I've written by Morphine Milligram Equivaler (MME)	nt other prescribers
	Not applicable - I do not prescribe
10. In looking at my report card, I was surprised by specialty.	how I compare to other prescribers within the same
Strongly disagree	Agree
Disagree	Strongly Agree
Neither agree nor disagree	Not applicable - I do not prescribe
11. I changed my prescribing patterns as a result o	f looking at my report card.
Strongly disagree	Agree
Disagree	Strongly aisagree
Neither agree nor disagree	Not applicable - I do not prescribe
12. What could be changed about the report card to	o improve them? (Check all that apply).
Less metrics	
More metrics	
Metric descriptions	
Increased frequency of receiving report cards	
Not applicable - I do not prescribe	
If you selected more metrics, please describe.	

to. Mate the overall value of report dards as a	tool to assist in clinical decision making.
Extremely valuable	Not so valuable
Very valuable	Not at all valuable
Somewhat valuable	Not applicable - I do not prescribe
14. Rate the helpfulness of Appriss Support in	assisting with account issues.
Extremely helpful	Not so helpful
Very helpful	Not at all helpful
Somewhat helpful	I have not attempted to contact Appriss Support
15. Rate the overall effectiveness of report car	ds on changing prescribing patterns.
Extremely effective	Not so effective
Very effective	Not at all effective
Somewhat effective	Not applicable - I do not prescribe
16. Rate the helpfulness of the state PDMP of	fice in assisting with account issues.
Extremely helpful	Not so helpful
Very helpful	Not at all helpful
Somewhat helpful	I have not attempted to contact the PDMP manager
17. In what area(s) does the PDMP office nee	d to improve? (Check all that apply).
Customer service	
Turn around time for phone calls	
Turn around time for emails	
Knowledge of PDMP registering, reviewing, and represented requirements	porting
The PDMP office does not need to improve	
The PDMP office does not need to improve Other (please specify)	

	e PDMP database through the AWARxE platform
(https://alaska.pmpaware.net/).	
Easy	
Neither easy nor difficult	
Difficult	
Very difficult	
If difficult, please describe, e.g.: requirement to veri	fy email, time-consuming, too many steps, etc.
19. Rate your experience in reviewing patient platform (https://alaska.pmpaware.net/).	prescription history in the PDMP through the AWARxE
	Very difficult
 Easy Neither easy nor difficult 	 Not applicable - I do not prescribe or administer prescription
Reporting	
Reviewing (searching for patients)	
Registering	
Obtaining delegate access	
Updating account information, e.g.	: passwords or specialty designations
Correcting prescription errors	
Consolidating patient information	
21. Rate the value of reviewing nationt prescri	ption history in informing clinical decision making.
 Extremely valuable 	Not so valuable
Very valuable	 Not at all valuable
\sim	

Always	Rarely
Usually	Never
Sometimes	Not applicable
23. Reviewing patient prescription history	y helps reduce inappropriate prescribing.
Strongly agree	Disagree
Agree	Strongly disagree
Neither agree nor disagree	
24. Reviewing patient prescription history	y helps reduce drug diversion.
Strongly agree	Disagree
Agree	Strongly disagree
Neither agree nor disagree	
25. Rate your experience in reporting pre	escriptions information to the PDMP.
Very easy	
very easy	Difficult
Easy	Very difficult
	Very difficult
Easy Neither easy nor difficult	 Very difficult Not applicable - I am a practitioner that does not prescrib
Easy Neither easy nor difficult	 Very difficult Not applicable - I am a practitioner that does not prescrib administer, or directly dispense
Easy Neither easy nor difficult 26. Requirements for delegate access is	 Very difficult Not applicable - I am a practitioner that does not prescrib administer, or directly dispense sufficiently explained and is easy to understand.
Easy Neither easy nor difficult 26. Requirements for delegate access is Strongly agree	 Very difficult Not applicable - I am a practitioner that does not prescril administer, or directly dispense sufficiently explained and is easy to understand. Disagree
Easy Neither easy nor difficult 26. Requirements for delegate access is Strongly agree Agree	 Very difficult Not applicable - I am a practitioner that does not prescril administer, or directly dispense sufficiently explained and is easy to understand. Disagree
 Easy Neither easy nor difficult 26. Requirements for delegate access is Strongly agree Agree Neither agree nor disagree 	 Very difficult Not applicable - I am a practitioner that does not prescrit administer, or directly dispense sufficiently explained and is easy to understand. Disagree
 Easy Neither easy nor difficult 26. Requirements for delegate access is Strongly agree Agree Neither agree nor disagree 	 Very difficult Not applicable - I am a practitioner that does not prescrit administer, or directly dispense sufficiently explained and is easy to understand. Disagree
 Easy Neither easy nor difficult 26. Requirements for delegate access is Strongly agree Agree Neither agree nor disagree 	 Very difficult Not applicable - I am a practitioner that does not prescrit administer, or directly dispense sufficiently explained and is easy to understand. Disagree
 Easy Neither easy nor difficult 26. Requirements for delegate access is Strongly agree Agree Neither agree nor disagree 	 Very difficult Not applicable - I am a practitioner that does not prescril administer, or directly dispense sufficiently explained and is easy to understand. Disagree

To review patient prescription history	
To submit prescription data	
To correct prescription errors	
Not applicable - I do not have a delegate	
Other (please specify)	
28. Indicate the number of delegates a	associated with your PDMP account.
0	3
1	4 or more
2	
29. Rate your experience with adding	delegate access to your PDMP account.
Very easy	Difficult
Easy	Very difficult
 Neither easy nor difficult 	Not applicable - I do not have a delegate
\sim	
30. Delegate access has been the mo	est useful for the following situations. (Check all that apply).
Distributing work load	
Improving office work flow	
Reducing time constraints	
Not applicable - I do not have a delegate	
Other (please specify)	
	egate access.
31. Rate the overall helpfulness of dele	legate access.
31. Rate the overall helpfulness of dele	

32. I read PDMP announcements posted	in the AWARxE platform.
Always	Rarely
Usually	Never
Sometimes	
33. I read PDMP announcements that ar	e sent directly to my email.
Always	Rarely
Usually	Never
Sometimes	
34. PDMP announcements posted in AM become overwhelmed with the information	/ARxE and/or sent directly to my email creates report fatigue and I on.
Strongly agree	
Agree	
Neither agree nor disagree	
Disagree	
Strongly disagree	
Other (please specify)	
35. Announcements I find most useful in	clude:
Notices relating to proposed regulations	
Prescription thefts or forgeries	
Tips on how to submit data	
Notices relating to technical issues	
Other (please specify)	

-	rescriptions. Prescribers and dispensers licensed in other
	otion history query for a patient residing in Alaska receiving or
	n a prescription, prescribers and dispensers may want to Rate your support of allowing prescribers and dispensers not
	ription history information for patients residing in our state
(interstate data sharing).	
Strongly approve	
Approve	
Neither approve nor disapprove	
Disapprove	
Strongly disapprove	
If you indicated a neutral or disapproval response,	, please explain.
37. How many states do you know of that Ala	aska is sharing PDMP information with?
0 States	
1 State	
2-3 States	
4-5 States	
6-7 States	
38. Interstate data sharing should be allowed	I under the following circumstances.
Only for nearby states, e.g.: Washington, Oregon,	Montana, Idaho, California
For all states and territories that have a PDMP (44	4+)
Interstate data sharing should not be allowed	
Other (please specify)	
39. Rate the level of benefit you feel there is	in charing data with come or all states
 Extremely beneficial 	Slightly beneficial
Very beneficial	 Not at all beneficial
Moderately beneficial	

40. Practitioners are exempt from interacting with the PDMP when dispensing to a patient for an outpatient supply of 24-hour or less at a hospital with an inpatient pharmacy for use after discharge.

🔵 True

False

41. Practitioners are exempt from interacting with the PDMP when dispensing to a patient for an outpatient supply of 24-hour or less at a hospital emergency department for use after discharge.

🔵 True

🔵 False

42. Practitioners are exempt from interacting with the PDMP when administering to a patient admitted to a health care facility.

🔵 True

🔵 False

43. Practitioners are exempt from interacting with the PDMP when dispensing, prescribing, or administering at the scene of an emergency, in an ambulance, or in an emergency department.

🔵 True

🔵 False

44. Practitioners are exempt from interacting with the PDMP when dispensing, prescribing, or administering at a hospice or nursing home that has an inpatient pharmacy.

🔵 True

🔵 False

45. Practitioners are exempt from interacting with the PDMP when dispensing, prescribing, or administering immediately before, during, or within the first 48 hours after surgery or a medical procedure.

🔵 True

🔵 False

46. Practitioners are exempt from interacting with the PDMP when dispensing, prescribing, or administering a non-refillable prescription for a controlled substance in a quantity intended to last for not more than three (3) days.

🔵 True

🔵 False

True False How long have you used the PDMP? Never 1-6 months 7-12 months The following are reasons why I use the PDMP. (Ch It reduces prescription opioid misuse. It reduces all opioid use. It reduces prescription diversion. It is a way to screen for substance misuse. Other (please specify) What patients do you generally check the PDMP on Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues Other (please specify) [3-4 years 5-6 years 7+ years ck all that apply). For self-preservation. It is my moral and ethical obligation to do so. It is mandatory to do so.
How long have you used the PDMP? Never 1-6 months 7-12 months 7-12 months The following are reasons why I use the PDMP. (Ch It reduces prescription opioid misuse. It reduces all opioid use. It reduces prescription diversion. It is a way to screen for substance misuse. Other (please specify)	5-6 years 7+ years ck all that apply). For self-preservation. It is my moral and ethical obligation to do so.
Never [1-6 months [7-12 months [The following are reasons why I use the PDMP. (Ch It reduces prescription opioid misuse. [It reduces all opioid use. [It reduces prescription diversion. [It is a way to screen for substance misuse. [Other (please specify) [What patients do you generally check the PDMP on [Every patient [Patients who look suspicious [Patients with known substance misuse [Patients with known behavioral health issues [5-6 years 7+ years ck all that apply). For self-preservation. It is my moral and ethical obligation to do so.
1-6 months	5-6 years 7+ years ck all that apply). For self-preservation. It is my moral and ethical obligation to do so.
7-12 months	7+ years ck all that apply). For self-preservation. It is my moral and ethical obligation to do so.
The following are reasons why I use the PDMP. (Ch It reduces prescription opioid misuse.	ck all that apply). For self-preservation. It is my moral and ethical obligation to do so.
It reduces prescription opioid misuse. It reduces all opioid use. It reduces prescription diversion. It is a way to screen for substance misuse. Other (please specify) UMAt patients do you generally check the PDMP on Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues	For self-preservation. It is my moral and ethical obligation to do so.
It reduces all opioid use. It reduces prescription diversion. It is a way to screen for substance misuse. Other (please specify) What patients do you generally check the PDMP on Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues	It is my moral and ethical obligation to do so.
It reduces prescription diversion. It is a way to screen for substance misuse. Other (please specify) What patients do you generally check the PDMP on Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues	
It is a way to screen for substance misuse. Other (please specify) What patients do you generally check the PDMP on Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues	It is mandatory to do so.
Other (please specify) What patients do you generally check the PDMP on Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues	
What patients do you generally check the PDMP on Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues	I am making a difference.
Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues	
Every patient Patients who look suspicious Patients with known substance misuse Patients with known behavioral health issues	
Patients with known substance misuse Patients with known behavioral health issues	(Check all that apply).
Patients with known behavioral health issues	
Other (please specify)	
How likely are you to engage in a PDMP-specific tra	ing?
Very likely	
Likely	Unlikely
Neither likely nor unlikely	Unlikely Very unlikely

52. If you are interested in engaging in PDMP-spece effective?	cific training, what modality would be most useful and
In-person training	15-minute comprehensive on-demand videos on multiple topics
Email or newsletter	30-minute training via teleconference, WebEx, or similar
5-minute on-demand videos on a few specific topics	system
Other (please specify)	
53. Are you currently registered with another state	PDMP?
Yes	
No	
If yes, please list at least one other state:	
PDMP rank worse. Clinical Alerts	Different database structure or platform
NarxCare	Alaska ranks neither the same nor worse than the other sta
Emergency Department Information Exchange (EDIE) Integration	Not applicable - I am not registered with another state PDM
Less stringent reporting requirements	
Other (please specify)	
55. If you are registered with another state PDMP,	how does the Alaska PDMP compare?
Better About the same	
Worse	

APPENDIX C: OPEN-ENDED RESPONSES



Q3. What source(s) of information do you find most helpful when navigating the State of Alaska PDMP website (pdmp.alaska.gov)?

Respondents were asked to choose all that apply for "what do you find most helpful" (discrete responses included: "frequently asked questions", "sign-up instructions", "data submission dispenser guide", "comprehensive guide to PDMP requirements and effective dates", "joint committee on Prescriptive Guidelines Report to Alaska State Legislature", "House Bill 159", "Legislative Reports", "other notifications embedded in the website" and "other"), fifty open-ended responses were provided.

More than half (27 respondents) were positive or neutral - with most referencing using the site for patient information (19), ease of use and that they have received help when needed and email messages sent from the program pointed them to the website. Others provided negative comments including that it is not useful (16 respondents) and a lack of help from State offices or taking issue with the law itself.

Q6. What could be added to improve the quality of the PDMP state website (pdmp.alaska.gov)?

When asked to choose all that apply for what could be added to improve the quality of the PDMP website – "a sample report card", "more instructions", "resources" or "other" one-hundred respondents provided a relevant response for "other". Eighty-five respondents offered concrete suggestions for improvements to the website across several themes:

- Suggestions for additional resources included: pain control guidelines; addiction treatment options, opiate withdrawal scoring system add a link to resources related to Naltrexone, and Suboxone, an MME calculator that is simple and easy to use, pain management patient contracts and examples of how Alaska medical facilities are handling chronic pain especially in the bush or remote areas, guidelines for appropriate amounts for various procedures, instructions (such as 2 tabs twice daily), ability to report fraud/theft of narcotics, methadone clinic doses administered (8).
- Increased **data access:** list of on-going patients, automatic reporting on patients, better accuracy, ability to search by aliases, real time prescription filing, and meeting HIPAA requirements for sharing data (16).
- Reviewing or providing more **summary data** PDMP should review prescribers and pharmacists use of opiate narcotics and report to the appropriate boards, compare utilization of different specialties, for medical directors provide prescriber's report cards together, and access to trends, report cards on a monthly or quarterly basis (8).
- Increase the **speed** (9).
- Requests to simplify (11) the **user interface** and the frequency of password changes (8) were received as well as comments suggesting the patient search right on the front page of the website/location of the "search" button, ability to choose patients previously searched, make a



provider-specific list of patients available, saved log-in name, extend the time to automatic logout, a field for notifications to pharmacies, a link to reporting for suspected violations, more examples, return to the previous drop down menus, and design the page so that it fits on the screen.

A small number made positive comments about the website and receiving summary data or comparisons – "works great for me so far", [could be] "less time consuming but overall works well".

"They sent an e-mail once with a bunch of data about prescribing practices compared to peers and this was super helpful...I would love to see this quarterly so we can track changes or trends in our own practice."

In addition, issues with interpreting the law or the rules of the law and the fees charged were also provided (12). A lack of help received from the State offices was also mentioned (8).

Q12. What could be changed about the report card to improve them? (Check all that apply).

Respondents were asked what could be changed about the report cards to improve them, 3% or 11 people selected the discrete option for "more metrics". An open-ended response option was offered for those individuals to describe what the additional metrics were that they would like to see. Seven response provided actual content, suggesting: add the number of prescribers, number of drugs, number of fills; do not include buprenorphine used for MAT or Suboxone in the numbers; use clearer metrics – i.e., *"2 doses of zolpidem for a sleep study should not be considered equal to a 30d supply"*; include more patient-based information; add how you obtained the data and include ADHD and non-opioid/non-benzo controlled substance prescriptions.

Overall, forty-three respondents provided answers in the open-ended field – mostly to offer feedback on the report cards with a few offering negative opinions of the law. Twenty-one reported never receiving a report card or only having received one. One person suggested they were going to their spam filter and several stated they did not want one. Ten people felt the comparisons being made were not relevant or completely wrong (within specialty, location or field of medicine, etc.).

Q17. In what area(s) does the PDMP office need to improve? (Check all that apply).

When asked to check all that apply regarding areas that the AK PDMP needs to improve, in addition to discrete responses of: "customer service", "responding to phone calls and email messages", "knowledge of registering", "reviewing and reporting requirements" and that "the office does not need to improve", an "other" category was available. Fifty respondents provide the following content:

- more or better assistance from the staff at the State offices (13);
- simplify, update or fix the user interface on the website (8), address data availability issues, especially with pharmacies (3), frequency of password changes (4), access to national data and drug code functioning;



- negative feedback on the law itself (13) and removing the fees (2); and
- report cards are not relevant or an accurate comparison (3) or rarely receiving one or not at all (6).

Q18. Rate your experience in registering with the PDMP database through the AWARxE platform (<u>https://alaska.pmpaware.net</u>).

Respondents were asked to rate the ease of registering with the PDMP database, 12% (44 responses) indicated that the registration process was difficult or very difficult. These respondents were asked to describe why. Twenty-nine open-ended responses described the process as too lengthy and requiring too much information (15), a lack of help from the State offices (5), the legislation (who has to do this, etc.; 6), frequent password changes (5) and that the user interface (5) is difficult (i.e., needs a table of contents, a search patient button located where users can see it, too many steps and slowness/speed of the website (2)).

Q28. Requirements for delegate access is sufficiently explained and is easy to understand.

When asked if the requirements for delegates were sufficiently explained, eleven responses to "other" suggested confusion about the protocols for delegates and what the regulations allow. One respondent said that the legal ramifications were too great to allow her staff this responsibility. Another person mentioned that their staff did not want to do it. It was requested that CMAs be permitted as delegates.

Q29. I have a delegate interacting with the PDMP on my behalf for the following purposes (Check all that apply).

Respondents were asked to check all that apply for a question on delegates interacting with the PDMP for which purposes. Discrete responses included: "to review patient prescription history", "to submit prescription data", "to correct prescription errors", "not applicable – I do not have a delegate" and "other." Nine people provided responses. Five respondents reported that they cannot have a delegate, or that they do not use their delegate (1) and two were unclear on the protocols. One respondent stated that they have the delegate look up patients and then they review the findings.

Q32. Delegate access has been the most useful for the following situations. (Check all that apply).

When asked to choose all that apply for which situations delegate access has been the most useful, seventeen respondents provided a response for "other" (discrete responses included "distributing workload", "improving office workflow", "reducing time constraints" or "not applicable – I do not have a delegate". One wrote in that a delegate was used "occasionally" to reduce time, six mentioned that they would use their CMAs if permitted (one mentioned – as is the case in other states) and five felt unclear on the protocol for delegates - if they were even allowed to have them and some mentioned that their questions to the State had gone unanswered. In addition, three felt that the penalties were



too severe to allow a delegate to do this for them and/or that delegates cannot truly provide assistance.

Q36. PDMP announcements posted in AWARxE and/or sent directly to my email creates report fatigue and I become overwhelmed with the information.

For the six respondents providing a comment when asked if the announcements or email messages from PDMP create report fatigue, four had never received these communications, one person said email is the best way to communicate and another mentioned HIPAA concerns.

Q37. Announcements I find most useful include:

When asked which announcements they found most useful, respondents were asked to choose all that apply among "notices relating to proposed regulations", "prescription thefts or forgeries", "tips on how to submit data", "notices relating to technical issues" and "other". Twenty-four respondents chose "other". A suggestion to include *"real data on benefits, links to thoughtful articles about controversy (increased heroin use related to PDMP)"* was received. Most did not provide suggestions and had either never seen an announcement (7) or felt that the announcements were not relevant or contained too much information (16).

Q38. Patients may cross state lines to obtain prescriptions. Prescribers and dispensers licensed in other states may want to conduct a patient prescription history query for a patient residing in Alaska receiving or asking for a prescription in their state. If given a prescription, prescribers and dispensers may want to report this information to the Alaska PDMP. Rate your support of allowing prescribers and dispensers not licensed in Alaska to review and report prescription history information for patients residing in our state (interstate data sharing).

Respondents provided an approval rating for sharing information with other states. Seventy-four respondents provided neutral or disapproving ratings and seven of these provided a comment. One person asked specifically for Washington state. Other comments received include: that this should be national (2), concerns that this would require physicians to register in every state (1) and privacy concerns (1) or that this is unnecessary (2).

Q40. Interstate data sharing should be allowed under the following circumstances.

Fourteen respondents chose "other" for a question asking about interstate data sharing circumstances. Discrete responses included "only nearby states", "all states that have a PDMP" or that it should not be allowed. Specific input included: ensuring data sharing safeguards are in place and sharing information with the military and the Native Communities. In addition, one person also suggested reviewing data trends to decide which states to share information with.



Some reiterated the discrete responses—six indicated all US states and four restated that none should be included for reasons such as no other state is near geographically, could make the process more cumbersome and that this is the Drug Enforcement Agency's role.

Q51. The following are reasons why I use the PDMP. (Check all that apply).

When asked to check all that apply to describe the reasons they use the PDMP, forty-eight respondents selected "other". Of these, nineteen provided additional reasons or nuances on one of the discrete choices ("reduces prescription opioid misuse", "reduces all opioid use", "reduces prescription diversion" "a way to screen for substance misuse", "for self-preservation", "it is my moral and ethical obligation to do so", "mandatory to do so", and "I am making a difference"). Fifteen responses were positive and these include obtaining patient information (7), ensuring patient safety (6), the law is effective (3), it works in other states (2) and that it is mandatory (4). Respondents specifically noted:

"It allows me to check and see if my patients are getting prescriptions filled from other providers." "It provides information regarding patient access to controlled substances."

"It allows me to see if my patients are honest and forthcoming."

"Reviewing is the right thing to do."

"I wish the program had started >10 yrs ago & I hope the State Medical Licensing Board uses it actively."

"Have seen similar programs work in other states."

"Hope it makes a difference. It's a tool."

"I am retired but believe that this program is extremely valuable."

"It deters addiction and addictive behavior."

"I am forced to use it by a system that doesn't account for the subtleties of my profession." "It's my job."

"I'd like to believe it does the first 4 but have not seen any evidence based study that shows it really does. Another question would be – 'does it drive more users to use heroin?'"

Q52. What patients do you generally check the PDMP on? (Check all that apply).

When asked what patients do you generally check the PDMP on (check all that apply; discrete responses included: "every patient:" "patients who look suspicious", "patients with known substance misuse", "patients with known behavioral health issues", and "other"), 117 selected "other" and most of these used the field to say that they check all patients *prescribed a controlled substance* (an interpretation of one of the discrete responses). Specific responses included: only checking <u>new</u> patients, that they intend to check when it becomes mandatory, a belief that prescriptions are checked at the pharmacy, not checking for short term prescriptions for acute injuries or that they are only checking for surgery patients.

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Q54. If you are interested in engaging in PDMP-specific training, what modality would be most useful and effective?

Nineteen people responded to "other" when asked what modality would be most useful and effective (discrete responses included "in-person training", "email or newsletter", "5 minute video", "15 minute video" and "30 minute training via the Internet"). Only three respondents provided relevant content - that this was *"not useful when they attended an in-person training"*, preference for an online training with CMEs and a training on the website and user interface.

Most (16) used the "other" field to say they were not interested in trainings.

Q55. Are you currently registered with another state PDMP?

One quarter of respondents are currently registered with another state PDMP. These states included: Alabama, Arizona, California, Colorado, Connecticut, District of Columbia, Florida, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Massachusetts, Michigan, Minnesota, Montana, Nebraska, North Carolina, North Dakota, Nevada, New Mexico, New York, New Jersey, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin and Wyoming.

Q56. Please select a PDMP feature or policy of the other state you indicated above that makes the Alaska PDMP rank worse.

Among those (9) who responded "other" (discrete responses included: "Clinical Alerts", "NarxCare", "Emergency Department Information Exchange (EDIE) Integration", "Less stringent reporting requirements", "Different database structure or platform", "Alaska ranks neither the same nor worse than the other state", "Not applicable - I am not registered with another state PDMP" and "Other"), respondents reported that the comparison state had fewer fees (3), shares data with more states (2), has a simpler user interface (1), is more stringent (1), has a more effective delegate protocol (1), or provides patient alerts (1).



APPENDIX D: SURVEY FEEDBACK



2018 question number	2018 Question number and text	2018 response options	Suggested new question text for 2019	Suggested new response options for 2019	Notes	Priority	Add skip pattern	2019 suggested question number	Section	Туре
1	 Please specify your user role (should match the user role used to register with the PDMP). Are you aware that a State of Alaska PDMP website is available to all practitioners and pharmacists required to register with the PDMP and can be accessed at 	Dentist Nurse Practitioner (includes APRN; NP, NM, CNS, CRNA) Phyramacist Physician (MD, DO) Podiatrist Physician Assistant Ogtometrist Veterinarian	Have you visited pdmp.alaska.gov – the Alaska PDMP resource page available to practitioners and pharmacists? This is different from the PDMP platform	Dentist Nurse Protitioner (includes APRN; NP, NM, CNS, CRNA) Pharmacist Physician (MD, DO) Podiatrist Physician Assistant Optometrist Veterinarian Delegate Other please specify Yes, I have visited pdmp.alaska.gov Yes i am aware of the site but have not visited			pharmacists and delegates (if added) would have different questions	1	02 About You	discrete AND specify
		No	AWARxE.	No		top	skip resource page questions	1	06 Resource Page	discrete
3	3. What source(s) of information do you find most helpful when navigating the State of Alaska PDMP website (pdmp.alaska.gov)?	Frequently Asked Questions Sign-Up Instructions Data Submission Dispenser Guide Comprehensive Guide to PDMP Requirements and Effective Dates Joint committee on Prescriptive Guidelines Report to Alaska State Legislature House Bill 159 Legislature Reports Other Notifications Themededed into Website Other (please specify) Very easy Easy Neither easy nor difficult	What do you find most helpful at pdmp.alaska.gov (check all that apply: this is different from PDMP platform, AWARxE)?	Steps for initial access to the PDMP PDMP applications and forms Contact information Frequently akked questions Registration, resources and instructions Legislative reports and media releases PDMP Board reports Prescribing resources		top		5	06 Resource Page	check all that apply AND specify
	 Rate the accessibility of the State of Alaska PDMP website * (pdmp.alaska.gov). 	Difficult Very difficult Extremely helpful	How easy is pdmp.alaska.gov to use?			medium		3	06 Resource Page	discrete
5	5. Rate the helpfulness of the State of Alaska PDMP website	Very helpful Somewhat helpful Not so helpful Not at all helpful	How helpful is pdmp.alaska.gov?			medium		4	06 Resource Page	discrete
		Sample prescriber report "report card" More instructions on how to use the PDMP database, AWARvE Resources to other helpful links or relevant organizations, e.g.: Alaska Department of Health and Social Services or Centers for Disease Control and Prevention	What could be added to improve the quality of the PDMP resource page	a. Sample prescriber "report card" b. More instructions on how to use the PDMP database, AWARK c. Resources to helpful links or relevant organizations, e.g.: Alaska Department of Health and Social Services or Centers for Disease Control and Prevention d. MME calculator e. Oplate with/awal/overdose and overdose reversal medication resources G. Jolate with/awal/overdose and overdose reversal medication resources f. Guidelines around pain management g. Advice for dealing with mental health issues h. Recommendations for seeing patients with substance use disorders I. Advice for seeing patients dually diagnosed with mental health and substance abuse issues j. Making referrals for substance abuse treatment k. Interacting with patients using the PDMP I. Other (please specify)						
	state website (pdmp.alaska.gov)?	Other (please specify) Yes	(pdmp.alaska.gov)? Have you received a report card from the	Yes		top		8	06 Resource Page	check all that apply AND speci
7		No - I do not prescribe	PDMP?	No		top	skip report card questions	1	07 Report Cards	discrete

		1	Commented many	Commented newspace		, ,		2040		
question mber	2018 Question number and text	2018 response options	Suggested new question text for 2019	Suggested new response options for 2019	Notes	Priority	Add skip pattern	2019 suggested question number	Section	Туре
			following report card metrics: The							
			number of similar prescribers working							
			within my profession The number of prescribers working in the							
			same specialty							
			The average number of patients receiving	5						
			opioids compared							
		The number of similar prescribers working within my profession The number of prescribers working in the same specialty	to similar prescribers and prescribers in the same specialty							
		The average number of patients receiving opioids compared to								
		similar prescribers and prescribers in the same specialty	written compared to similar prescribers							
		The number of opioid prescriptions I've written compared to	and prescribers in the same specialty							
		similar prescribers and prescribers in the same specialty Top three (3) medications I've prescribed	Top three (3) medications I've prescribed Prescriptions I've written by Morphine							
		Prescriptions I've written by Morphine Milligram Equivalent	Milligram Equivalent							
		(MME)	(MME)							
		The monthly average of prescription volumes in MME written The monthly average of anxiolytic, sedative, and hypnotic	The monthly average of prescription volumes in MME written							
		prescriptions	The monthly average of anxiolytic,							
		The number of patients exceeding multiple provider	sedative, and hypnotic							
		thresholds	prescriptions							
		Dangerous combination therapies (prescriptions for opioids + benzodiazepines) I've written compared to other prescribers	The number of patients exceeding multiple provider thresholds	1 = least informative, 7 = most informative						
9. W	hat specific metrics of the report card do you find least	Dangerous combination therapies (prescriptions for opioids +	Dangerous combination therapies	Not applicable – I have not received a						
	mative? (Check all that apply).	benzodiazepines + carisoprodol) I've written compared to	(prescriptions for opioids +	report card						
•		other prescribers	benzodiazepines) I've written compared	Not applicable - I do not prescribe						
9		Not applicable - I do not prescribe	to other prescribers			top		4	07 Report Cards	rank
		Strongly disagree Disagree								
		Neither agree nor disagree								
		Agree								
	n looking at my report card, I was surprised by how I	Strongly Agree							07 D	
TO com	pare to other prescribers within the same specialty.	Not applicable - I do not prescribe				medium		6	07 Report Cards	discrete
		Strongly disagree Disagree								
		Neither agree nor disagree								
		Agree								
11 my r	changed my prescribing patterns as a result of looking at	Strongly Agree Not applicable - I do not prescribe				top		-	07 Report Cards	diamate
. . , .				Less metrics				,		uiscrete
				More metrics						
				Metric descriptions						
				Increased frequency of receiving report cards						
		Less metrics		Not applicable – I have not received a						
		More metrics		report card						
		Metric descriptions		Not applicable - I do not prescribe						
12. V	Vhat could be changed about the report card to improve	Increased frequency of receiving report cards Not applicable - I do not prescribe		If you selected more metrics, please describe.						
12 then	? (Check all that apply).	If you selected more metrics, please describe.				top		5	07 Report Cards	check all that apply AND spec
		Extremely valuable								
		Very valuable								
		Somewhat valuable Not so valuable								
13. F	ate the overall value of report cards as a tool to assist in	Not at all valuable								
13 clinic	al decision making.	Not applicable - I do not prescribe				top		8	07 Report Cards	discrete
		Extremely helpful								
		Very helpful Somewhat helpful								
		Not so helpful								
14. F	ate the helpfulness of Appriss Support in assisting with	Not at all helpful								
14 acco	unt issues.	I have not attempted to contact Appriss Support				medium		11	03 PDMP AWARx	E discrete
		Extremely effective								
		Very effective Somewhat effective								
		Not so effective								
15. F	ate the overall effectiveness of report cards on changing	Not at all effective								
15 pres	cribing patterns.	Not applicable - I do not prescribe				top		9	07 Report Cards	discrete
		Extremely helpful								
		Very helpful Somewhat helpful								
		Not so helpful								
	ate the helpfulness of the state PDMP office in assisting	Not at all helpful							05 PDMP Support	1
16 with	account issues.	I have not attempted to contact the PDMP manager				medium		2	Office	discrete
		Customer service								
		Customer service Turn around time for phone calls								
		Turn around time for emails								
		Knowledge of PDMP registering, reviewing, and reporting								
17 1	n what area(s) does the PDMP office need to improve?	requirements The PDMP office does not need to improve							05 PDMP Support	•
17 (Che	ck all that apply).	Other (please specify)				top		2	Office	check all that apply AND spec
						•		3		check all that apply AND spec

8 question			Suggested new question text for	Suggested new response options for				2019 suggested		
o question number	2018 Question number and text	2018 response options	2019	2019	Notes	Priority	Add skip pattern	question number	Section	Туре
t	18. Rate your experience in registering with the PDMP database through the AWARxE platform (https://alaska.pmpaware.net/).	Very easy Easy Neither easy nor difficult Difficult Very difficult Yery difficult, please describe, e.g.: requirement to verify email, time consuming, too many steps, etc.				top		51)3 PDMP AWAR)	E discrete AND specify
1	19. Rate your experience in reviewing patient prescription	Very easy Easy Neither easy nor difficult Difficult	Rate your experience reviewing patient information in the PDMP (PDMP platform, AWARxE):	Very easy Easy Neither easy or difficult Difficult Very difficult Not applicable - I am a practitioner that						
19	(https://alaska.pmpaware.net/). 20. Rank the most Challenging aspects of the PDMP 1. Reporting 2. Reviewing (searching for patients) 3. Registering 4. Obtaining delegate access 5. Updating account information, e.g.: passwords or specialty designations	Very difficult Not applicable - I do not prescribe or administer prescriptions		does not prescribe, administer, or directly dispense		top		6 1)3 PDMP AWAR	Æ discrete
20 7		1 = least challenging, 7 = most challenging, Extremely valuable Very valuable Somewhat valuable Not so valuable Not so valuable				top		81	03 PDMP AWAR	Æ rank
21 :	informing clinical decision making.	Not aplicable Not applicable Juways Usually Sometimes Rarely Never				top		20 :	L1 PDMP	discrete
22 t	before prescribing, administering, or directly dispensing?	Not applicable Strongly agree Agree Neither agree nor disagree Disagree				top		2	03 PDMP AWAR	E discrete
23 1	inappropriate prescribing.	Strongly disagree Strongly agree Agree Neither agree nor disagree Disagree				top		14 :	11 PDMP	discrete
	25. Reviewing patient prescription history helps reduce	Strongly disagree Strongly agree Agree Neither agree nor disagree Disagree				top		15 :	11 PDMP	discrete
25 ·	overdose.	Strongly disagree Strongly agree Agree Neither agree nor disagree Disagree				top		16 :	L1 PDMP	discrete
26 ·	diversion.	Strongly disagree Very easy Easy Neither easy nor difficult Difficult Very difficult				top		17 :	L1 PDMP	discrete
27 t	to the PDMP.	administer, or directly dispense Strongly agree Agree Neither agree nor disagree				top		7 (03 PDMP AWAR:	E discrete
28 a	and is easy to understand. 29. I have a delegate interacting with the PDMP on my behalf for	Disagree Strongly disagree To review patient prescription history To submit prescription data To correct prescription errors	I understand the requirements for delegate access.			top		1	09 Delegates	discrete
	apply).	Other (please specify) Other (please specify) 0 1 2				top	skip delegates questions if no delegate	2	09 Delegates	check all that apply AND speci
30		3 4 or more				top		3	09 Delegates	discrete

uestion	2018 Question number and text	2018 response options	Suggested new question text for	Suggested new response options for	Notes	Priority	Add skip pattern	2019 suggested	Section	Туре
nber	2010 Question number and text	Very easy	2019	2019	Notes	Thomy	Add skip pattern	question number	Gection	Type
		Easy								
		Neither easy or difficult								
		Difficult								
3	1. Rate your experience with adding delegate access to your	Very difficult								
31 ⊧	PDMP account.	Not applicable - I do not have a delegate				top		4	09 Delegates	discrete
		Distributing work load								
		Improving office work flow								
		Reducing time constraints								
		Not applicable - I do not have a delegate								
32 s	ituations. (Check all that apply).	Other (please specify)				top		5	09 Delegates	check all that apply AND spec
		Extremely helpful								
		Very helpful								
		Somewhat helpful								
		Not so helpful Not at all helpful								
22 3		Not applicable - I do not have a delegate				top			09 Delegates	
33 -		Always				top		e	os belegates	discrete
		Usually								
		Sometimes					skip announcements			
з	84. I read PDMP announcements posted in the AWARxE	Rarely					questions if no to both of		04 PDMP	
34	latform	Never				top	these questions		Announcements	discroto
		Always								usciete
		Usually								
		Sometimes					skip announcements			
з	85. I read PDMP announcements that are sent directly to my	Rarely					questions if no to both of		04 PDMP	
35	email.	Never				top	these questions	2	Announcements	discrete
		Strongly agree						-		
		Agree								
		Neither agree nor disagree								
		Disagree								
d	lirectly to my email creates report fatigue and I become	Strongly disagree							04 PDMP	
36 ∘	overwhelmed with the information.	Other (please specify)				low		3	Announcements	discrete
		Notices relating to proposed regulations								
		Prescription thefts or forgeries								
		Tips on how to submit data								
27		Notices relating to technical issues							04 PDMP	
373	87. Announcements I find most useful include:	Other (please specify)				medium		4	Announcements	discrete AND specify
r s v s	tate. If given a prescription, prescribers and dispensers may vant to report this information to the Alaska PDMP. Rate your upport of allowing prescribers and dispensers not licensed in									
[/]	Alaska to review and report prescription history information for	Strongly disapprove								
38 P		If you indicated a neutral or disapproval response, please explain.				medium		1	10 Other states	discrete AND specify
		0 States								
		1 State								
		2-3 States								
20		4-5 States 6-7 States				low			10 Other states	
37								remove	10 Other states	aiscrete
		Only for nearby states, e.g.: Washington, Oregon, Montana, Idaho, California								
		For all states and territories that have a PDMP (44+)								
4	0. Interstate data sharing should be allowed under the	Interstate data sharing should not be allowed								
		Other (please specify)				medium		•	10 Other states	discrete AND specify
		Extremely beneticial								second specify
		Very beneficial								
		Moderately beneficial								
	 Rate the level of benefit you feel there is in sharing data with 	Slightly beneficial								
	ome or all states.	Not at all beneficial				top		7	10 Other states	discrete
	2. Practitioners are exempt from interacting with the PDMP									
v	when dispensing to a patient for an outpatient supply of 24-									
h	nour or less at a hospital with an inpatient pharmacy for use	True								
	-	False				top		4	11 PDMP	discrete
	Practitioners are exempt from interacting with the PDMP									
	when dispensing to a patient for an outpatient supply of 24-									
42		True								
		False				top		5	5 11 PDMP	discrete
	4. Practitioners are exempt from interacting with the PDMP									
		True								
44 f		False				top		6	5 11 PDMP	discrete
	5. Practitioners are exempt from interacting with the PDMP									
v	when dispensing, prescribing, or administering at the scene of	Tour								
7 -		True				ton				
	lepartment.	False				top		7	11 PDMP	discrete
	6. Practitioners are exempt from interacting with the PDMP	Tour								
10		True False				ton				
40	nursing home that has an inpatient pharmacy.	1 8130				top		٤	3 11 PDMP	discrete

			•							
8 question number	2018 Question number and text	2018 response options	Suggested new question text for 2019	Suggested new response options for 2019	Notes	Priority	Add skip pattern	2019 suggested question number	Section	Туре
	 Practitioners are exempt from interacting with the PDMP when dispensing, prescribing, or administering 	•	•							
		True								
	surgery or a medical procedure.	False				top			9 11 PDMP	discrete
	48. Practitioners are exempt from interacting with the PDMP when dispensing, prescribing, or administering a non-refillable									
	prescription for a controlled substance in a quantity intended to									
		True								
	(3) days 49. Practitioners are exempt from interacting with the PDMP	False				top		1	0 11 PDMP	discrete
	when administered to a patient admitted at a correctional	True								
49	facility.	False				top		1	1 11 PDMP	discrete
		Never 1-6 months								
		7-12 months								
		3-4 years		Months Years						
50		5-6 years 7+ years	How long have you used the Alaska PDMP (PDMP platform, AWARxE)?			top				E anon and ad chart
50	······,·		· - · · · (· - · · · · · · · · · · · · ·						1 03 PDIVIP AWAR	<e open-ended="" short<="" td=""></e>
				a. It increases patient safety.						
		It reduces prescription opioid misuse. It reduces all opioid use.		 b. It reduces prescription opioid misuse. c. It reduces all opioid use. 						
		It reduces prescription diversion.		d. It reduces prescription diversion.						
		It is a way to screen for substance misuse.		e. It is a way to screen for substance						
		For self-preservation. It is my moral and ethical obligation to do so.	I use the PDMP because: (check all that	misuse. f. It is the right thing to do.						
		It is mandatory to do so.	apply)	g. It is mandatory to do so.						
51	that apply).	I am making a difference. Other (please specify)		 h. I am making a difference. i. Other (please specify) 		top				
31		Every patient		i. other (prease specify)		ισμ		:	2 11 PDMP	check all that apply AND specif
		Patients who look suspicious								
		Patients with known substance misuse								
52	52. What patients do you generally check the PDMP on? (Check all that apply).	Other (please specify)				top			1 11 PDMP	discrete AND specify
		Very likely								discrete Aivo specify
		Likely		Mar.						
		Neither likely nor unlikely Unlikely	Are you interested in PDMP-specific	Yes No						
53	53. How likely are you to engage in a PDMP-specific training?	Very unlikely	trainings?			top			1 08 Training	discrete
				Local, in-person training						
		In-person training Email or newsletter		Email or newsletter Online 5-minute video						
		5-minute on-demand videos on a few specific topics		Online 15-minute comprehensive video on						
		15-minute comprehensive on-demand videos on multiple		multiple						
		topics 30-minute training via teleconference, WebEx, or similar		topics Online 30-minute training via						
		system	What training format would work best	teleconference						
54		Other (please specify)	for you?	Other (please specify)		top		:	2 08 Training	check all that apply AND specif
		Yes No								
55	55. Are you currently registered with another state PDMP?	If yes, please list at least one other state:				top		1	0 02 About You	discrete AND specify
			the other state that you are registered							
			with? (Check all that apply)							
			 a. Clinical Alerts b. NarxCare (to identify, prevent, and 							
			manage substance use disorder)							
			c. Emergency Department Information Exchange (EDIE)							
			d. Integration with electronic health							
			record							
			e. Less stringent reporting requirements f. Different database structure or							
			platform							
			g. Simpler user interface							
			h. Delegate protocols i. Other (please specify)							
	56. Please select a PDMP feature or policy of the other state you indicated above that makes the Alaska PDMP rank worse.		S3Q11. In what ways is Alaska PDMP worse than the other state that you are							
	Clinical Alerts		registered with? (Check all that apply)							
	NarxCare		a. Clinical Alerts							
	Emergency Department Information Exchange (EDIE) Integration		 b. NarxCare (to identify, prevent, and manage substance use disorder) 							
	Less stringent reporting requirements		c. Emergency Department Information		change to					
	Different database structure or platform Alaska ranks neither the same nor worse than the other state		Exchange (EDIE) d. Integration with electronic health		these two or remove this					
	Not applicable - I am not registered with another state PDMP		record		question					
56	Other (please specify)		e. Less stringent reporting requirements	6	entirely	low		remove	10 Other states	check all that apply AND specif
	57. If you are registered with another state PDMP, how does the	Better About the same								
57		Worse				low		remove	10 Other states	discrete

2018 question number	2018 Question number and text	2018 response options	Suggested new question text for 2019	Suggested new response options for 2019	Notes	Priority	Add skip pattern	2019 suggested question number	Section	Туре
number			Intro: We welcome the opportunity to	2013	1			question number		<u> </u>
			receive your feedback about Alaska's prescription drug monitoring program.							
			Please take 15-20 minutes to complete this survey. Your responses will be							
new			anonymous.			top		1 (1 Intro	text box
new			How long have you been in your current role (in years)?			medium		2 (2 About You	open-ended short
				 a. Large private office (6+ practitioners) b. Small private office (5 or fewer 						
				practitioners) c. Academic practice						
				d. Emergency room						
				e. Hospital-based clinic f. Hospital: inpatient primarily						
			Which best characterizes your practice?	g. Chain pharmacy store						
			(check all that apply)	h. Independent pharmacy i. Institutional pharmacy (hospital, nursing						
				home, etc.) j. VA healthcare system						
				k. Other (please specify) _						
new			Type of practice if applies (PCP,	I. Not applicable		medium		3 (2 About You	check all that apply AND specify
new			Specialist)?	Vec		medium		4 0	2 About You	open-ended short
				Yes No						
new			Do you practice/work in Alaska:	Other please specify Yes	skip the who	medium		5 (2 About You	discrete AND specify
				No, I am retired (skip to end??? Next						
				section?) No, I use the PDMP as a delegate for a						
new			Do you prescribe?	prescriber Something else (please specify)		top			2 About You	discrete AND specify
new				Yes		top			2 ADDUCTOU	discrete AND specify
new			Do you prescribe "controlled substances"?	No Not applicable	skip to appro	top		7 (2 About You	discrete
			How many prescriptions for controlled							
new			substances did you write in the last month?		skip to appro	top		8 (2 About You	open ended short
			How knowledgeable are you about the following topics:							
			a. Pain management							
			 b. Non-opioid alternatives to pain management 							
			c. Screening for substance abuse	Very knowledgeable						
			d. Methods patients can use for proper disposal of opioids	Knowledgeable	this is really					
new			e. Methods patients can use for safely storing opioids	Somewhat knowledgeable Not knowledgeable	5 new questions	top		9.0	2 About You	discrete
			In the past 30 days, about how many			•		-		
			unique patients have you (or your prescriber for delegates)							
			prescribed/dispensed controlled substances (Schedule II, III and IV) to?							
new			(Please provide a whole number)			top		3 (3 PDMP AWAR	E open-ended short
			Of the patients you prescribed controlled	i						
			substances to in the past 30 days, on what percentage did you (or your							
			prescriber for delegates) check the AK							
new			PDMP (PDMP platform, AWARxE) prior to prescribing/dispensing?			top		4 (3 PDMP AWAR	E open-ended short
				Extremely helpful		-				
				Very helpful						
			How helpful are your interactions with your Board (Dental, Medical, Including	Somewhat helpful Not so helpful						
			Physician Assistants, Nursing, Optometry	, Not at all helpful						
new			Pharmacy, Veterinary) involving the PDMP registration?	I have not attempted to contact my Board I am not under any of these Boards		top		10 (3 PDMP AWAR	«E discrete

2 bit question 2018 Question number and text 2018 response options Diggester inter question number 2018 Question number and text 2018 response options 2019 What do you find most interpart and text at pdmp alaska.gov? (th apply) a."AWARKE, PDMP and (the part of the part of	elpful in the FAQ
at pdmp.alaska.gov? (Ch apply)	elpful in the FAQ
	ck all that
a. AWARKE, PUWH and — what are these website find on them?"	PDMP alaska.gov s and what can I
b. Registration, reviewin	g and reporting
requirements c.e.federi d. Unsolitet prescriber FAOS	nption FAQs "report card"
e. P.DMP registration ren FAQs f. Unsolicited notification	
new g. The "other" topics	top 6 06 Resource Page check all that apply
new on the resource page (pr How many report cards)	Imp.alaska.gov). top 7 06 Resource Page open-ended long nave you
new received?	medium 2 07 Report Cards open-ended short
new comparisons on your rep	ort card? Not applicable top 3 07 Report Cards discrete
new Please suggest topics for	
Have you completed the education in pain manage	ement and No
new opioid use and addiction	Not applicable (no DEA registration, license did not renew since legislation passed) top 4 08 Training discrete
	a. ASAM Treatment of Opioid Disorder Course. Includes Waiver Qualifying Requirements. Coordinated by Alaska
	Primary Care Associates. b. Pain Management, Opioid Use, and Addiction in Alaska
	c. Provider Clinical Support System, PCSS Education & Training Portal d. Treating Chronic Pain and Preventing
	OUD e. Veterans Affairs' Pain Management and Opioid Safety initiative
	f. Opioid Overdose Education and Naloxone Distribution (OEND) Training g. American Society of Addiction Medicine
new (Check all that apply)	omplete? (ASAM) E-Learning Center h. Other, please specify top 5 08 Training check all that apply AND speci
What percentage of the reporting is completed b your office?	
new your once :	Very easy Easy
	Neither easy or difficult Difficult Line of the second sec
new How easy is it for you to	Not applicable top 8 09 Delegates discrete Yes
new Does someone review th you retrieve before pres	e patient reports No ribing? Not applicable medium 9 09 Delegates discrete
	a. To review patient prescription history b. To submit prescription data c. To correct prescription errors
new by the state of the state o	ar office in any d. Distributing work load heek all that apply to be work flow for the work flow for the work flow for the ducing time constraints top 10 09 Delegates check all that apply
new helpful to your office? PI	
	instead of
	the one with number of
new Alaska PDMP shares info	rmation with states as the True/False response low 110 Other states discrete

2018 question number	2018 Question number and text	2018 response options	Suggested new question text for 2019	Suggested new response options for 2019	Notes	Priority	Add skip pattern	2019 suggested question number	Section	Туре
new			Have you used the PMPi Interconnect to review patient prescription histories in other states?	Yes No Not applicable		top	skip other PMPi Interconnect q	2	10 Other states	discrete
new			If you have used PMPI Interconnect to review patient prescription histories in other states, about how many of your patients did you find entries on? If you have used PMPI Interconnect to review patient prescription histories in other states, about how many of your			top		3	10 Other states	open-ended short
new			patients did you find evidence of concern? If you have used PMPi Interconnect, which other states did your patients have			top		4	10 Other states	open-ended short
new			entries in?	List the 7 states and other specify		top		5	10 Other states	discrete AND specify
				a. Spoken with patients about their controlled substance use b. Contacted other providers or pharmacies c. Confirmed patient not misuing prescriptions d. Confirmed patient was doctor shopping e. Established a controlled substance agreement ("optiod contract" with patient) f. Reduced or eliminated controlled substance prescriptions for a patient g. Changed controlled substance prescriptions for a patient h. Dismissed patient from practice l. Referred or reammended for substance abuse treatment.						
new			Which of the following actions have you taken as a result of using the AK PDMP? (Check all that apply)			top		3	L1 PDMP	check all that apply AND specify
new			There is value in using PDMP data to inform surveillance and responses to the opioid problem. Is your office interested in accessing	Neither agree or disagree		top		13	L1 PDMP	discrete
new			PDMP data for quality improvement around prescribing practices?	Yes No Not applicable Under 30 30-39		top		21	L1 PDMP	discrete
new			What is your age group?	40-49 50+ Female Male		top		1	L2 End of the Su	v discrete
new			What is your gender? Is there anything else you would like to	Other		top		2	L2 End of the Su	v discrete
new			tell us?			top		3	L2 End of the Su	v open-ended long
new			What motivated you to complete the survey? Thank you for completing this survey! The PDMP is an important part of Alaska's efforts to address the opiold epidemic. We appreciate your feedback and ideas. If you have any questions or would like to know more about the survey and the results, please contact:	,		medium		4	12 End of the Su	v open-ended long
new			Elaine Brewer Prescription Drug Monitoring Program Manager PDMP Phone: 907-269-8404 E-mail: akdmp@alaska.gov			top		5	12 End of the Su	v text box
			Which of the following is a barrier(s) that keeps you from using PDMP more?	f. Frequent password change						
new			(Check all that apply)	g. Other (please specify)		top		9	3 PDMP AWAR	E check all that apply AND specify

2018 question number	2018 Question number and text	2018 response options	Suggested new question text for 2019	Suggested new response opti 2019	ions for Notes	Priority	Add skip pattern	2019 suggested question number	Section	Туре
new			Have you contacted the PDMP Support Office? How many times have you visited the Alaska PDMP resource page (pdmp.alaska.gov)?	Yes – email Yes – other No, I have not Not applicable One Two Three or more Not applicable		medium medium	if no, skip this section	1	05 PDMP Support Office 06 Resource Page	discrete
new			Please indicate how much you agree or disagree with the following statements. a. PDMP improves management of a patient's controlled substance prescriptions. b. Health care practitioners are interested in using the PDMP. c. The PDMP increases communication between health care practitioners. d. The PDMP insa positive impact on reducing prescription drug abuse.	Strongly disagree Disagree Neither agree or disagree Agree Strongly agree	this is really 4 new questions	top		12	11 PDMP	discrete

APPENDIX E: POSTER



Enhancing Use to Reduce Misuse: Developing Alaska's PDMP User Training Based on Characteristics and Behaviors ASKA's PRESCRIPTION Rivera, M.S., Nuzzo, W., Dahlgren, J.A., Carrillo, L., & Hull-Jilly, D. PDMP.ALASKA.GOV



Abstract

- A state law mandating the Prescription Drug Monitoring Program (PDMP) registration, review, and reporting of and by practitioners and pharmacists was implemented in Alaska in 2017.
- In order to reduce opioid overprescribing, practitioners and pharmacists must make regular use of the PDMP database, but PDMP users have cited numerous barriers to regular use.
- Within one year of legislation mandating PDMP use, a survey of PDMP awareness, knowledge, and behavior was administered to over several thousand practitioners and pharmacists in Alaska.
- Associations were found between PDMP user knowledge, opinions, characteristics, and their behaviors.
- Behaviors examined included reviewing PDMP for every patient (versus those that look suspicious, have known substance misuse, or have known behavioral health issues) and changing prescribing practices based on unsolicited reports.
- Insights into practitioners and pharmacists who use Alaska's PDMP will inform education and training efforts with the ultimate goal of enhancing PDMP use in the short-term and impacting opioid and heroin misuse and overdose in the longterm.

Purpose

The purpose of this study was to further understand knowledge of and interaction with the PDMP system by physicians, prescribers, and pharmacists in order to enhance PDMP use and effectiveness.

Characteristics of Alaska PDMP

- Delegates allowed
- Unsolicited reports provided regularly
- Timely PDMP entry required
- Interstate data sharing with 7 states
- NOT integrated with electronic health record
- NO automatic registration with license registration or renewal
- NO enhanced user interface (dashboard or data summary, highrisk patient alerts, mobile applications)

Analysis

• Frequencies

Crosstabs and Chi-Square



Methods

- PDMP Awareness and Feedback Questionnaire
- Web-based survey link emailed to licensed physicians, prescribers, and pharmacists posted to licensing board websites, and sent out as a mass notice via PDMP announcements
- Reached 9,691 licensed physicians, prescribers, and pharmacists in Alaska via email and 6,098 licensed practitioners via PDMP announcements between May and July 2018
- Follow-up contact was made to remind participants to complete the survey
- N = 402 completed surveys; analysis focused on N = 186prescribers

Key Survey Topics					
User Qualities	Role (physician, physician's assistant/nurse practitioner, dentist), length of time using PDMP				
User Knowledge	Allowable exceptions to mandatory use of the PDMP				
User Behaviors	Frequency of using PDMP, reviewing PDMP for every patient versus based on patient characteristics, changed prescribing patterns				
Training	Modes (in-person, email/newsletter, 5-min web video, 15-min web video, 30-min training via teleconference), likelihood of attending training				

Results

- Prescribers with high knowledge are more likely to always or usually query the PDMP.
- A larger percentage of prescribers who rarely or never check the PDMP would be likely to participate in training.
- A larger percentage of prescribers who use patient criteria as a factor in querying the PDMP are likely to engage in a PDMP-specific training.
- More dentists than doctors or physician's assistants/nurse practitioners said they rarely or never checked the PDMP.
- Five minute on demand videos are the preferred training medium.

Qualitative Results

Q 51

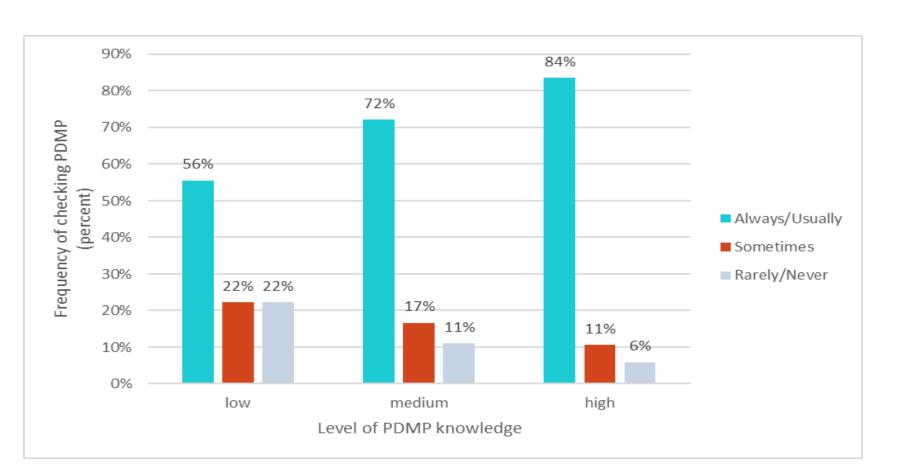
- "I wish the program had started >10 years ago & I hope the State Medical Licensing Board uses it actively."
- *"Have seen similar programs work in other states."*
- *"It allows me to check and see if my patients are getting"* prescriptions filled from other providers."
- *"It provides information regarding patient access to* controlled substances."

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Quantitative Results

Figure 1. Relationships between knowledge and actions Frequency of checking the PDMP (always/usually, sometimes, rarely/never) for

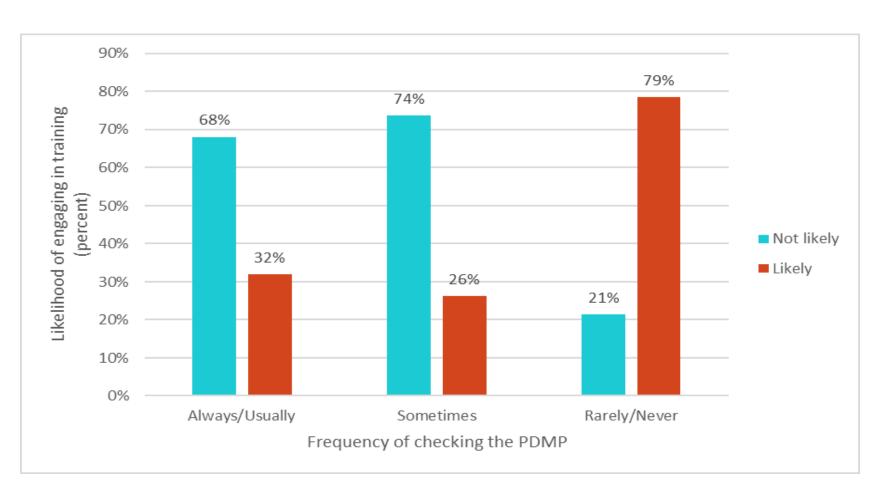
different PDMP knowledge levels (low, medium, high)



 $[X^{2}(4, n = 184) = 9.8, p < 0.05]$

• Prescribers with high knowledge are more likely to always/usually query the PDMP.

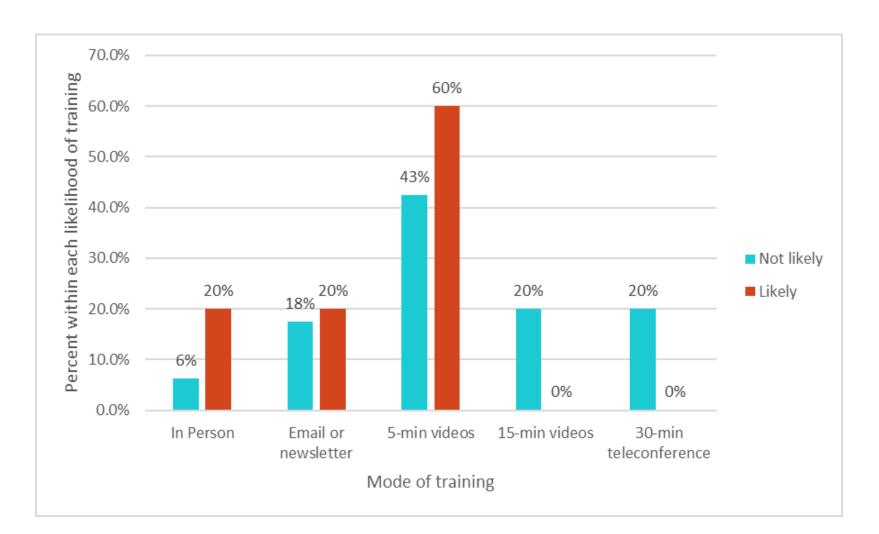
Figure 2. Relationships between training and actions Likelihood of going to a training for different frequencies of checking the



 $[X^2 (2, n = 127) = 12.4, p < 0.005]$

• A larger percentage of prescribers who rarely/never check the PDMP would be likely to participate in training.





Both those who were likely to participate in a training and those who were not preferred the 5-minute on-demand videos

Conclusions & Policy Recommendations

Insights into qualities, knowledge, and behaviors of those who use Alaska's PDMP will inform education and training efforts with the ultimate goal of enhancing PDMP use and changing prescribing practices in the short-term and impacting opioid and heroin misuse and overdose in the long-term.



Model







Theory of Planned Behavior, Change

