Quarterly Report January-March 31, 2021 2021Q1

Virginia Prescription Monitoring Program



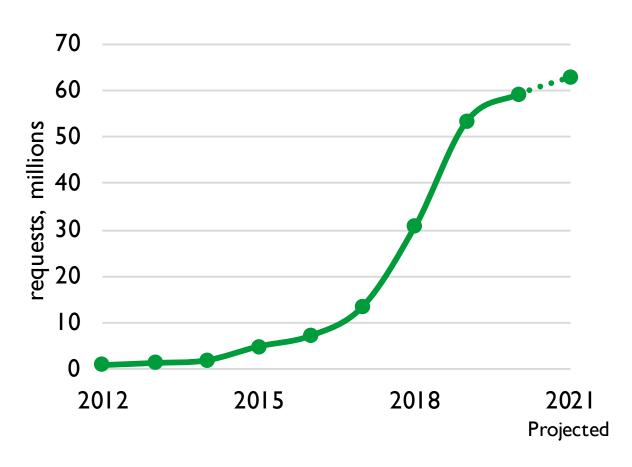
Key Findings for the First Quarter (2021Q1)

- Prescribers queried the patient's prescription history before issuing 2,690,596 new opioid or benzodiazepine prescriptions this quarter. This was an increase of 35% from 2020QI (1,994,746).
- Naloxone dispensations peaked during the Covid-19 pandemic and continued to be elevated through 2020. This quarter, dispensations declined by almost 2,000 since the peak (2020Q3: 15,667; 2021Q1: 13,751).

- Over 4 of out 5 (85%) of opioid prescriptions are transmitted electronically from prescriber to dispenser.
- Through this period, 27,757 prescribers wrote at least one prescription for an opioid medication dispensed by a Virginialicensed pharmacy.
- Almost five percent of Virginians, or 421,706 residents, received an opioid prescription. This excludes individuals who received buprenorphine products.



Increasing PMP utilization

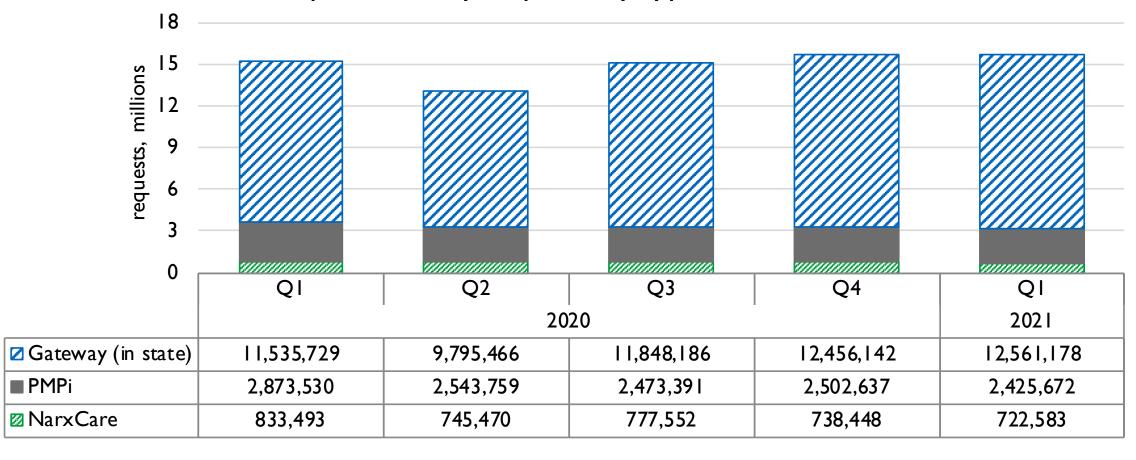


- Requests for a patient's prescription history grow exponentially each year
- Rapid rise in utilization of the PMP is primarily the result of expansions in integration within the electronic health record and pharmacy software applications
 - 80% of total requests are through an integrated application



Increasing PMP utilization

Prescription history requests by type, 2020QI-202IQI



[•]Gateway: integrates PMP data within health record clinical workflow

[•]NarxCare (previously AWARxE): web-based application

[•]PMPi: interoperability among states' PMPs



Drug class

Percent change by drug class 2020QI-202IQI

Opioid*

Benzodiazepine \$\square\$ 6%

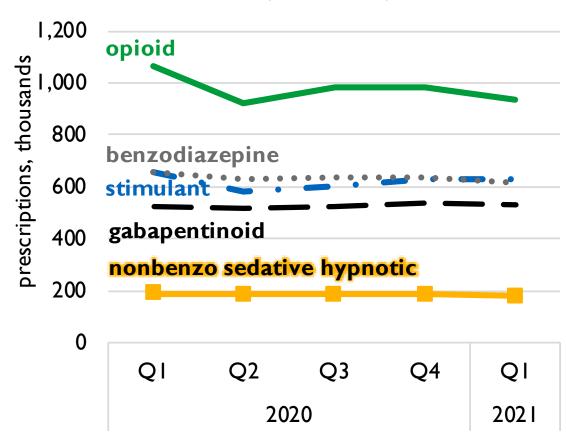
Stimulant \$\square\$ 4%

Gabapentinoid \$\square\$ 1%

Nonbenzo \$\square\$ 5%

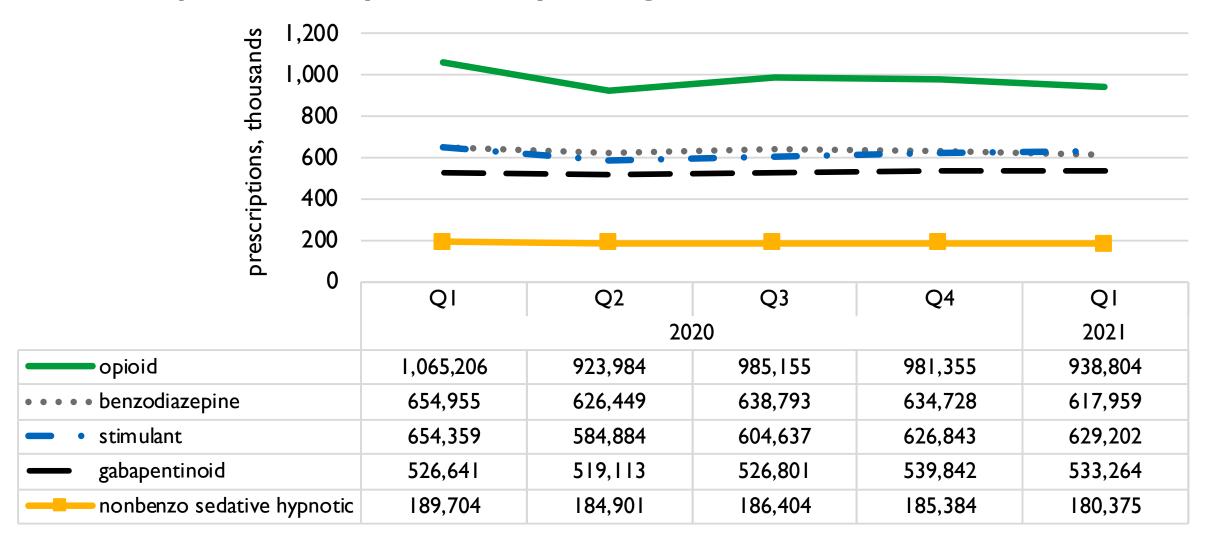
sedative hypnotics

Prescriptions dispensed by drug class, 2020Q1-2021Q1





Prescriptions dispensed by drug class, 2020Q1-2021Q1



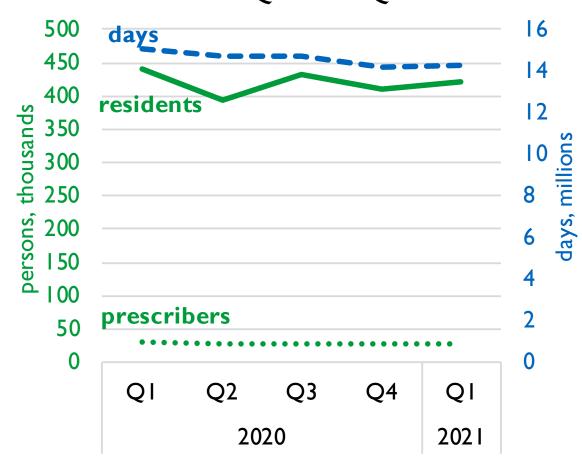
^{*}All opioids, including drugs not typically used in outpatient settings or otherwise not critical for calculating dosages in MME, such as cough and cold formulas including elixirs, and combination products containing antitussives. decongestants, antihistamines, and expectorants; opiate partial agonists (e.g., buprenorphine) is excluded



Opioid prescriptions

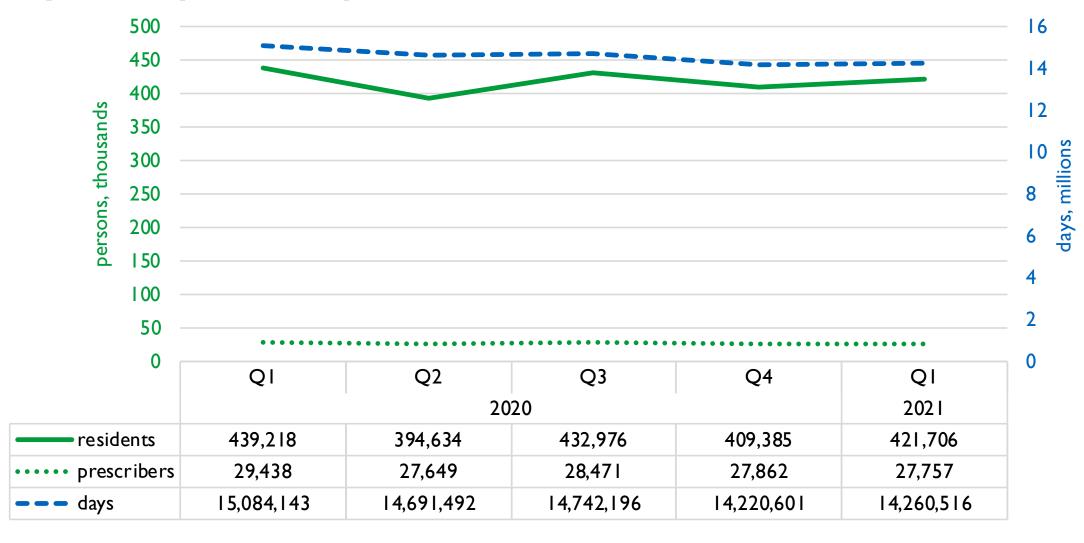
- 421,706 Virginia residents received an opioid prescription in 2021Q1 from 27,757 unique prescribers
- 14,260,516 opioid prescription days for commonwealth residents during 2021Q1
- Prescription days or days' supply refers to the number of days of medication prescribed

Opioid prescriptions for Virginia residents, 2020Q1-2021Q1





Opioid prescriptions

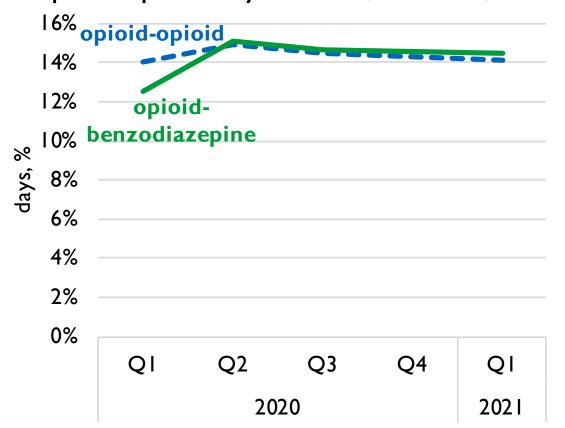


^{*}CDC-defined opioids, excludes: 1) drugs not typically used in outpatient settings or otherwise not critical for calculating dosages in MME, such as cough and cold formulas including elixirs, and combination products containing antitussives. decongestants, antihistamines, and expectorants; 2) opiate partial agonists (e.g., buprenorphine)



Overlapping prescriptions

Overlapping opioid and opioid-benzodiazepine prescription days, 2020Q1-2021Q1



- Overlapping opioid prescriptions, which increase a patient's MME, and concurrent opioid and benzodiazepine prescribing increases the risk of overdose
- Opioid-benzo days appeared aberrant in 2020Q1 compared to prior and subsequent quarters
- Opioid-opioid days were comparable in 2021Q1 to 2020Q1 following a year of trending downward

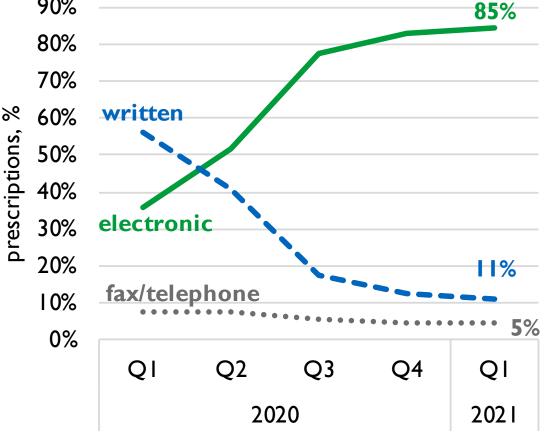
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Electronic prescribing for opioids

- As of July 1, 2020 any prescription containing an opioid must be transmitted electronically from the prescriber to the dispenser (Code of Virginia § 54.1-3408.02)
- 85% of opioid prescriptions were electronic in 2021Q1

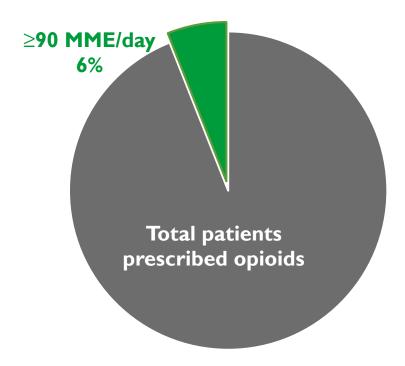
Opioid prescriptions by transmission type, 2020Q1-2021Q1





Patients receiving ≥90 MME/day

Patients receiving ≥90 MME/day, 2021Q1



- Morphine milligram equivalent (MME) allows comparison between the strength of different types of opioids
 - CDC guidelines specify dosages of ≥90/day should be avoided due to risk for fatal overdose
- 6% of opioid prescription recipients had an average dose ≥90 MME/day (2021Q1)

Reference: Dowell D, Haegerich TM, Chou R. CDC Guideline for Prescribing Opioids for Chronic Pain — United States, 2016. MMWR Recomm Rep 2016;65(No. RR-1):1–49.

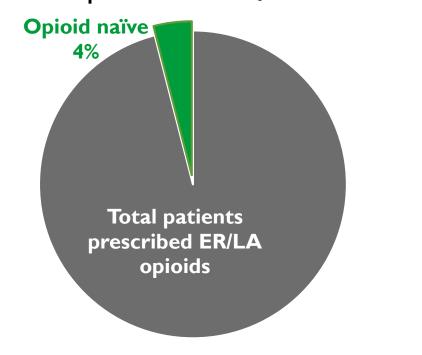
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Opioid naïve patients receiving ER/LA opioids

- Extended-release or long acting (ER/LA) opioids put patients at greater risk of respiratory depression and overdose compared to immediate-release (IR)
 - Opioid naïve patients are at particularly high risk of overdose from ER/LA opioids
- Opioid naïve refers to patients who have not taken an opioid medication within the previous 45 days

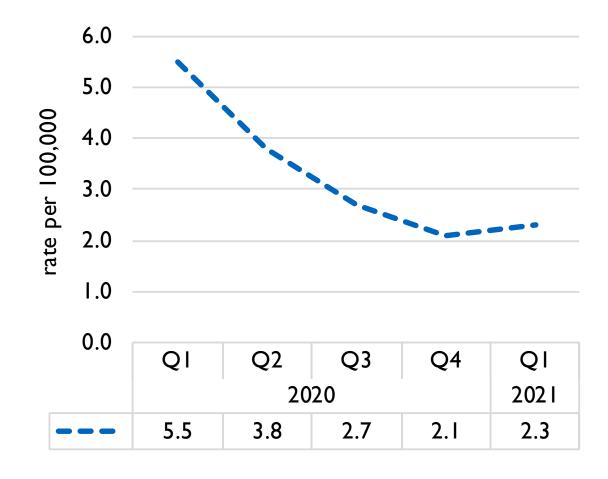
Opioid naïve patients receiving ER/LA opioids, 2021Q1





Multiple provider episodes for opioids

- ≥5 prescribers and ≥5 pharmacies in a 6 month period
- Can be an indicator of doctor shopping and/or inadequate care coordination
- Between 2018Q1 and 2021Q1 dropped from 10.6 to 2.3 per 100,000

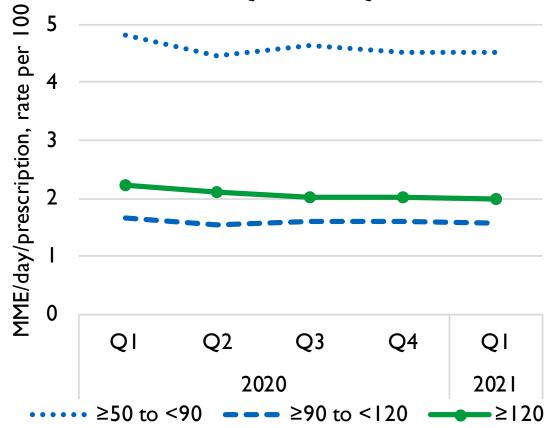




Opioid prescriptions exceeding 120 MME/day

- Regulations Governing Prescribing of Opioids and Buprenorphine (18VAC85-21-70)
 - Specific requirements of prescribers if exceeding I20 MME/d
- % change, 2020QI-202IQI

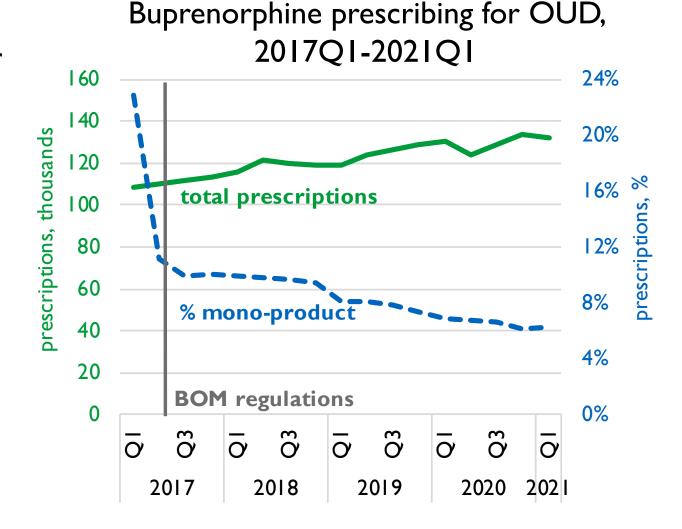
Opioid prescriptions by MME/day, 2020Q1-2021Q1





Buprenorphine

- Regulations Governing Prescribing of Opioids and Buprenorphine (18VAC85-21-10, effective March 2017)
 - Limited prescribing buprenorphine without naloxone (mono-product) for opioid use disorder (OUD)
- Buprenorphine is an opiate receptor partial agonist
- Immediate decline in monoproduct prescriptions and continues to decrease marginally (6% in 2021Q1)

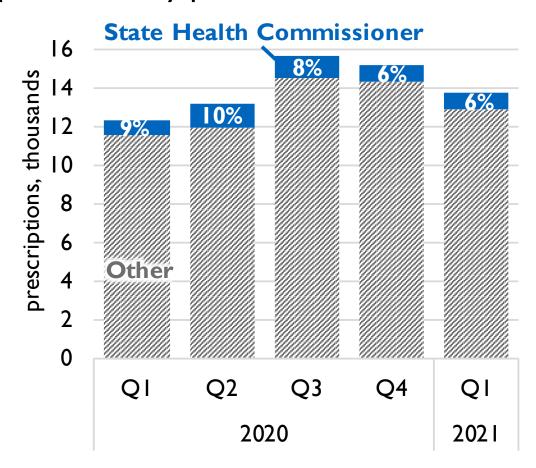




Naloxone

- State Health Commissioner's standing order authorizes
 Virginia pharmacies to dispense naloxone without a prescription
- 6% of total dispensations in 2021Q1 were dispensed using the standing order
- Naloxone became reportable to PMP as of July 1, 2018
 - Narcan[®] accounts for 99% of total naloxone dispensations

Naloxone prescriptions dispensed in pharmacies by prescriber, 2020Q1-2021Q1





Technical notes

- Covered substances
 - Schedule II-V medications, naloxone
 - Gabapentin is a Schedule V in Virginia
 - Cannabis oils from in state pharmaceutical processors
- PMP relies on pharmacies and other dispensers to submit accurate, timely information. Dispensers can correct or submit post-dated data at any time; therefore, PMP data is expected to change.
- Quarters referenced are based upon the calendar year.
- Buprenorphine is an opiate receptor partial agonist and is excluded from the opiate receptor full agonist analyses (i.e., "opioid")

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