



MA Prescription Monitoring Program County-Level Data Measures (2020 Quarter 3)

Massachusetts Department of Public Health, Bureau of Health Professions Licensure

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The Department of Public Health's (DPH) Prescription Drug Monitoring Program (PMP) serves as a repository of data for all prescription drugs dispensed statewide, including those prescriptions that are sought after for illicit and non-medical use and thus represent the highest potential for abuse (federal Schedules II – V, including certain narcotics, stimulants and sedatives). The PMP also enables prescribers and dispensers to access a patient's prescription history and can be used as a clinical decision-making tool, allowing the provider to have a holistic view of the patient's medications.

When interpreting PMP county-level data, it is important to emphasize that increases or decreases in a single measure may not indicate an increase or decrease in prescription misuse or abuse. Put simply, use does not always equate to abuse. There are many factors that might explain an unusually high rate of prescribing in a given area. For instance, an area which contains a large number of residents in long-term care facilities may result in a high rate of opioid prescribing.

These datasets inform critical discussions about opioid prescribing, provide an important baseline to better inform future policy decisions and allow the state and stakeholders to more meaningfully measure whether policy initiatives are effective.

Effective October 6, 2014, all hydrocodone combination drug (HCD) products (e.g., Vicodin) were reclassified from Schedule III to Schedule II. This reclassification during the last quarter of 2014 makes comparisons over time difficult to interpret. Beginning with CY 2015 data, reports of Schedule II products will include all HCD prescriptions.

Individuals with activity of concern "thresholds" for this report are based on a 3-month time period. MDPH has previously released annual county-level reports that provide thresholds based on a 12-month time period. Although the numbers (or rates) generated may appear to be comparable, they represent different time periods and are **NOT** an apples-to-apples comparison. The results are only comparable when the thresholds (e.g., 4 different providers and 4 different pharmacies), time interval (e.g. over a three-month period), and drug products analyzed (e.g. Schedule II opioids) are the same. Meaning, the total number (or rates) of individuals who received Schedule II-V opioid prescriptions from 4 or more providers and had them filled at 4 or more pharmacies in a 3-month period cannot and should not be compared with the total number of individuals (or rates) who received Schedule II-V opioid prescriptions from 4 or more providers and had them filled at 4 or more pharmacies in a 12-month period.

MA Prescription Monitoring Program: April – June 2020 and July – September 2020

April – June 2020 (Quarter 2)

County (County classifications are by patient zip code; patient state must also = MA)	Census Population*	Total Schedule II Opioid Prescriptions	Total Number of Schedule II Opioid Solid Dosage Units	Individuals Receiving Schedule II Opioid Prescription	% of Individuals Receiving Schedule II Opioid Prescription (of total population)	Individuals with Activity of Concern	Rate of Individuals with Activity of Concern (per 1,000)
Barnstable	216,806	17,507	981,787	6,968	3.2	<5	NR
Berkshire	127,740	10,495	572,534	4,390	3.4	0	0.0
Bristol	570,972	51,908	3,285,275	19,357	3.4	6	0.3
Dukes	17,365	1,065	63,766	465	2.7	<5	NR
Essex	800,017	49,968	2,743,515	21,109	2.6	10	0.5
Franklin	71,814	6,707	417,985	2,513	3.5	0	0.0
Hampden	475,366	40,254	2,433,212	16,117	3.4	<5	NR
Hampshire	164,136	12,332	800,001	4,607	2.8	<5	NR
Middlesex	1,632,505	68,482	3,808,964	30,938	1.9	14	0.5
Nantucket	11,332	726	34,899	311	2.7	0	0.0
Norfolk	714,526	35,907	2,168,164	15,290	2.1	11	0.7
Plymouth	524,799	36,075	2,247,996	15,019	2.9	7	0.5
Suffolk	810,212	31,950	2,042,844	13,288	1.6	10	0.8
Worcester	839,112	56,623	3,664,498	22,784	2.7	12	0.5
MA	6,976,702	419,999	25,265,439	173,156	2.5	79	0.5

Note 1: Individuals with activity of concern "thresholds" for this report are based ONLY on a 3-month time period; see notes on previous page; CY20-Q2

Note 2: Counts greater than 0 but less than 5 are not reported. Rates based on these small values also are not reported (NR).

Note 3: Rates of individuals with activity of concern are based on the population of individuals who have received one or more Schedule II opioid prescriptions during the specified time period.

Note 4: Totals for all counties combined will differ slightly compared to the state totals presented elsewhere because some prescription records could not be assigned a county due to inaccurate zip code/city town information reported to the program.

Note 5: The total sum for the "Number of Individuals Receiving Schedule II Opioid Prescription" will be slightly different than the sum presented for the state in Figure 2 due to a small number of double counting of individuals moving from one county to another during the specified time period.

Note 6: PMP data are preliminary and subject to updates. The MA PMP database is continuously updated to allow for prescription record correction data submitted by pharmacies. The data were extracted on 07/13/2020; Release Date: July 2020.

Note 7: Beginning in 3rd quarter of 2016 the Department of Veteran's Affairs (VA) facilities began submitting data to the MA PMP.

Note 8: Small Area Population Estimates 2011-2020, version 2017, Massachusetts Department of Public Health, Bureau of Environmental Health. Population estimates used for years following the decennial census were developed by the University of Massachusetts Donahue Institute (UMDI) in partnership with the Massachusetts Department of Public Health, Bureau of Environmental Health.

July – September 2020 (Quarter 3)

County (County classifications are by patient zip code; patient state must also = MA)	Census Population*	Total Schedule II Opioid Prescriptions	Total Number of Schedule II Opioid Solid Dosage Units	Individuals Receiving Schedule II Opioid Prescription	% of Individuals Receiving Schedule II Opioid Prescription (of total population)	Individuals with Activity of Concern	Rate of Individuals with Activity of Concern (per 1,000)
Barnstable	216,629	20,694	1,063,426	9,070	4.2	10	1.1
Berkshire	126,398	11,871	602,008	5,152	4.1	<5	NR
Bristol	571,424	57,675	3,400,783	23,164	4.1	12	0.5
Dukes	17,404	1,223	65,645	585	3.4	0	0.0
Essex	796,916	58,550	2,928,962	27,064	3.4	16	0.6
Franklin	71,169	7,334	428,064	2,911	4.1	<5	NR
Hampden	470,869	44,452	2,493,728	19,017	4.0	11	0.6
Hampshire	163,997	13,696	822,866	5,492	3.3	<5	NR
Middlesex	1,626,553	82,731	4,078,069	40,915	2.5	22	0.5
Nantucket	11,416	856	38,776	369	3.2	<5	NR
Norfolk	715,271	42,538	2,295,895	19,955	2.8	15	0.8
Plymouth	527,689	42,878	2,396,204	19,409	3.7	11	0.6
Suffolk	809,594	37,964	2,143,529	17,721	2.2	17	1.0
Worcester	839,053	65,591	3,843,874	28,391	3.4	12	0.4
MA	6,964,382	488,053	26,601,828	219,215	3.1	135	0.6

Note 1: Individuals with activity of concern "thresholds" for this report are based ONLY on a 3-month time period; see notes on previous page; CY2020-Q3

Note 2: Counts greater than 0 but less than 5 are not reported. Rates based on these small values also are not reported (NR).

Note 3: Rates of individuals with activity of concern are based on the population of individuals who have received one or more Schedule II opioid prescriptions during the specified time period.

Note 4: Totals for all counties combined exclude a small number of prescription records that could not be assigned a county due to inaccurate zip code/city town information reported to the program.

Note 5: The total sum for the "Number of Individuals Receiving Schedule II Opioid Prescription" will be slightly different than the sum presented for the state in Figure 2 due to a small number of double counting of individuals moving from one country to another during the specified time period.

Note 6: PMP data are preliminary and subject to updates. The MA PMP database is continuously updated to allow for prescription record correction data submitted by pharmacies. These data were extracted on 10/09/2020. Release Date: November 2020

Note 7: Beginning in 3rd quarter of 2016 the Department of Veteran's Affairs (VA) facilities began submitting data to the MA PMP.

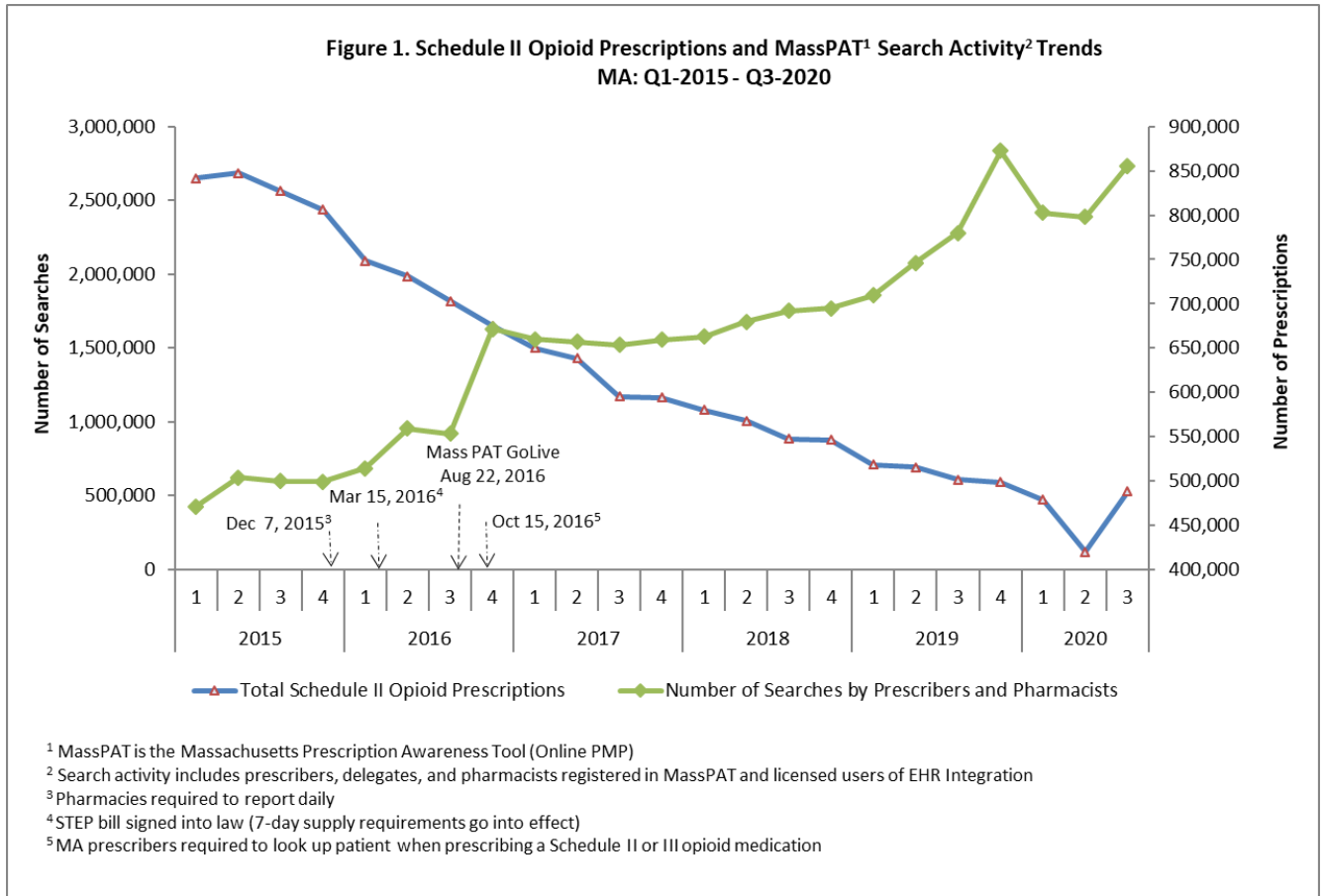
Note 8: Population estimates used for years following the decennial census were developed by the University of Massachusetts Donahue Institute (UMDI) in partnership with the Massachusetts Department of Public Health, Bureau of Environmental Health.

MA Prescription Monitoring Program Data

Trend Analyses for Schedule II Opioids Only

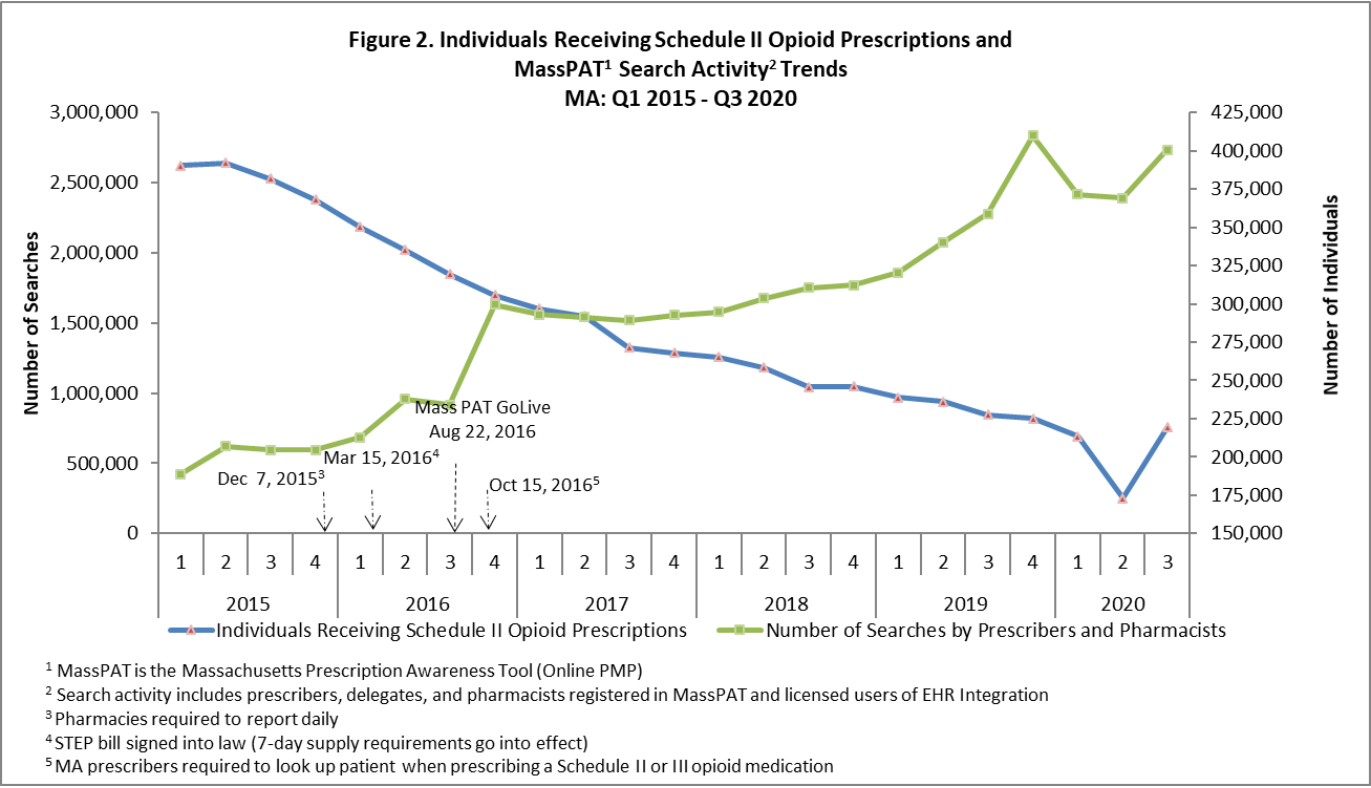
[Note: MDPH has changed the frequency of reporting opioid data to bi-annual.

Figures 1 and 2 are updated to include two additional quarters of data with any changes in trends noted; Figure 3 will continue to be updated annually]



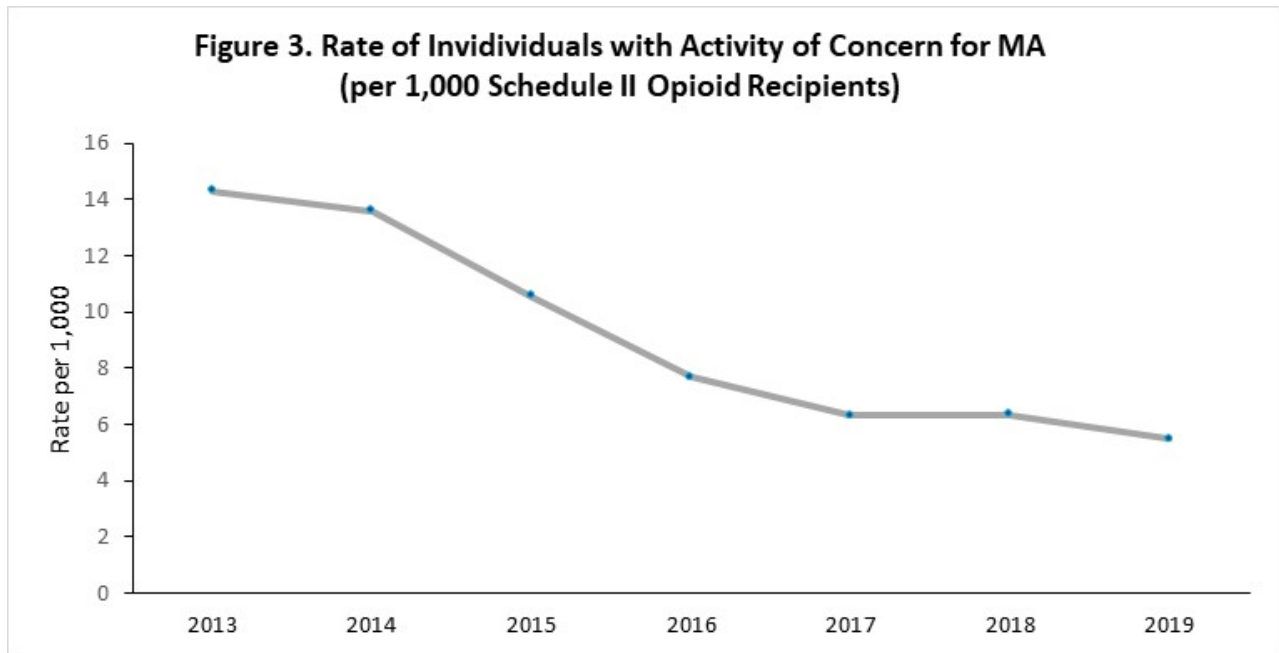
Note: PMP data are subject to updates. The MA PMP database is continuously updated to allow for prescription record correction data submitted by pharmacies. The data for CY 2020-Q2 were extracted on 07/13/2020; CY 2020-Q3 were extracted on 10/13/2020.

- Registered MassPAT providers conducted over 2.7 million searches in the 3rd quarter of 2020; there was an increase of approximately 344,000 searches from the previous quarter (the quarter most impacted by COVID closings), and approximately 100,000 fewer searches than Q4 2019 (pre-COVID).
- In the 3rd quarter of 2020 there were approximately 488,000 Schedule II opioid prescriptions reported to the MA PMP; this is a notable increase from the previous quarter and just over a 42% decrease from the 1st quarter of 2015 (n = 841,990 Schedule II opioid prescriptions).
- It is important to note that both opioid prescribing and search activity in quarter 2, and to a lesser extent in quarter 1, were likely reduced due to COVID-19 as restrictions of elective procedures and routine office visits were in effect.



Note: PMP data are subject to updates. The MA PMP database is continuously updated to allow for prescription record correction data submitted by pharmacies. The data for CY 2020-Q2 were extracted on 07/13/2020; CY-2020 Q3 were extracted on 10/13/2020.

- Just over 219,000 individuals in MA received prescriptions for Schedule II opioids in the 3rd quarter of 2020; this is a notable increase from the previous quarter (about 46,000 individuals), but nearly a 44% decrease from the 1st quarter of 2015 (n = 390,532).
- Just over 173,000 individuals in MA received prescriptions for Schedule II opioids in the 2nd quarter of 2020; a significant decrease from quarter 1 (about 40,000 individuals). This decrease was likely largely attributed to COVID-19 as restrictions of elective procedures and routine office visits were in effect during much of the quarter.



Note: PMP data are subject to updates. The MA PMP database is continuously updated to allow for prescription record correction data submitted by pharmacies. The data for CY-2019 were extracted on 01/17/2020.

- The rate of individuals with activity of concern (also referred to as multiple provider episodes) decreased from 14.3 to 5.5 per 1,000 individuals between CY 2013 and CY 2019, a 61% reduction in activity of concern. Between CY 2018 and CY 2019 the rates of individuals with activity of concern decreased from 6.3 to 5.5 per 1,000 patients.

Source

- Prescription Drug Monitoring Program, Bureau of Health Professions Licensure, MDPH