



MA Prescription Monitoring Program County-Level Data Measures (2017 Quarter 4)

Massachusetts Department of Public Health

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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 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 also releases an annual county-level report that provides thresholds that are 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.

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	214,276	23,903	1,338,858	10,695	5.0	18	1.7
Berkshire	126,903	14,352	779,594	6,181	4.9	<5	NR
Bristol	558,324	69,257	4,221,185	28,799	5.2	17	0.6
Dukes	17,246	1,493	85,225	764	4.4	<5	NR
Essex	779,018	69,975	3,840,765	32,222	4.1	27	0.8
Franklin	70,382	9,401	564,110	3,776	5.4	<5	NR
Hampden	468,467	58,373	3,401,834	24,641	5.3	26	1.1
Hampshire	161,816	16,316	1,034,172	6,667	4.1	8	1.2
Middlesex	1,589,774	98,864	5,308,619	49,232	3.1	36	0.7
Nantucket	11,008	1,000	40,585	492	4.5	<5	NR
Norfolk	697,181	52,858	3,017,366	25,500	3.7	31	1.2
Plymouth	513,565	51,261	3,038,903	23,497	4.6	20	0.9
Suffolk	784,230	47,243	2,837,697	21,937	2.8	31	1.4
Worcester	819,589	79,203	5,011,873	34,919	4.3	35	1.0
MA	6,811,779	593,499	34,520,784	269,322	4.0	249	0.9

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; CY17-Q4

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.

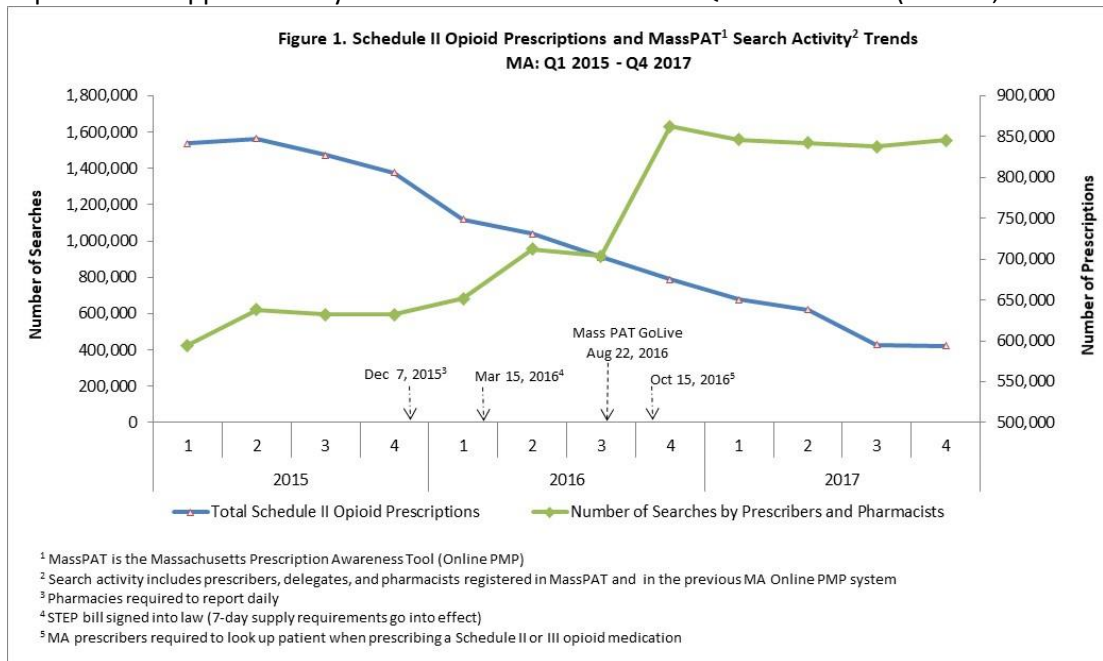
Note 6: PMP data are preliminary and subject to updates. The MA PMP database is continuously updated to allow for prescription record correction data submitted by pharmacies. This data were extracted on 1/11/2018; Release Date: February 2018.

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: National Center for Health Statistics. Postcensal estimates of the resident population of the United States for July 1, 2010-July 1, 2016, by year, county, single-year of age (0, 1, 2, ..., 85 years and over), bridged race, Hispanic origin, and sex (Vintage 2016).

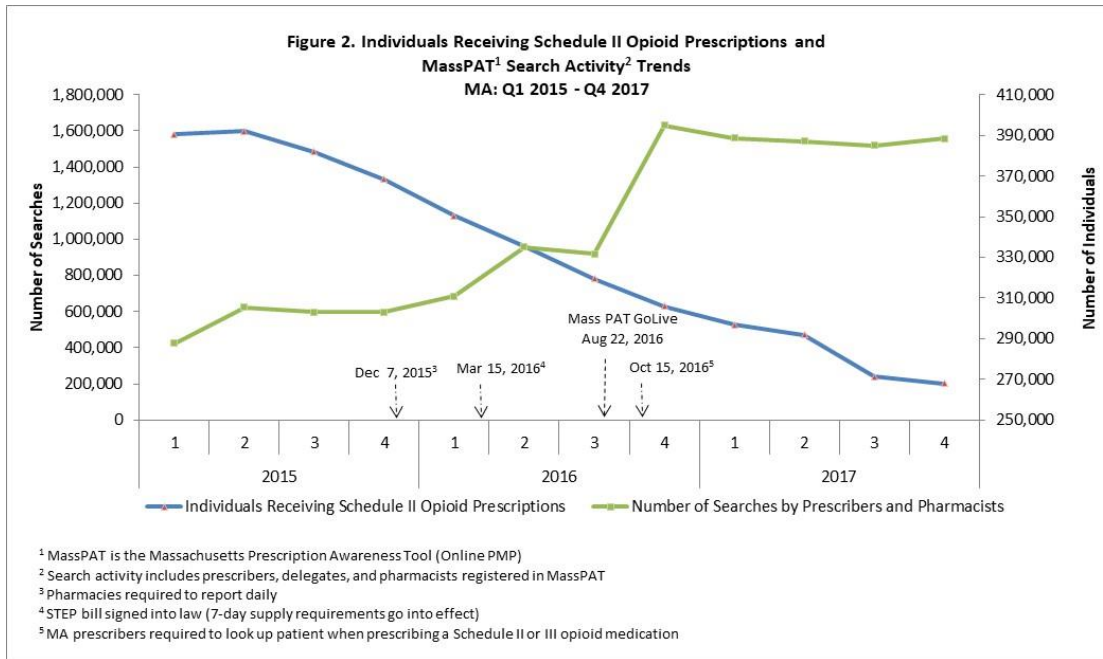
MA Prescription Monitoring Program Data Trend Analyses for Schedule II Opioids Only

- Registered MassPAT providers conducted over 1.5 million searches in the 4th Quarter of 2017; there was an increase of approximately 35,000 searches from the previous quarter.
- In the 4th Quarter of 2017 there were just under 594,000 Schedule II opioid prescriptions reported to the MA PMP; this is a small decrease from the previous quarter and approximately a 30% decrease from the 1st Quarter of 2015 (n = 841,990 Schedule II opioid prescriptions).



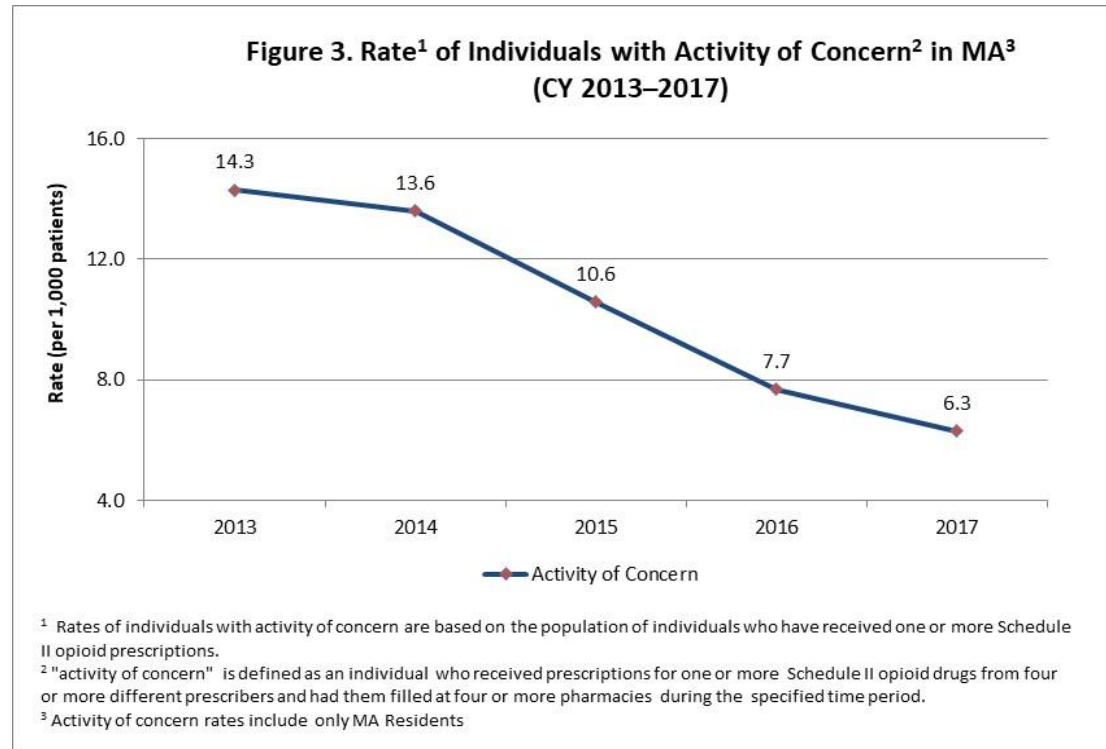
Note: PMP data are subject to updates. The MA PMP database is continuously updated to allow for prescription record correction data submitted by pharmacies. The data for the quarterly trends were extracted on 1/12/2018.

- Just under 268,000 individuals in MA received prescriptions for Schedule II opioids in the 4th Quarter of 2017; this is a small decrease from the previous quarter and over a 30% decrease from the 1st Quarter of 2015 (n = 390,532).



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 the quarterly trends were extracted on 1/12/2018.

- The rate of individuals with activity of concern (also referred to as multiple provider episodes) decreased from 14.3 to 6.3 per 1,000 individuals between CY 2013 and CY 2017, a 56% reduction in activity of concern.



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 2017 were extracted on 01/12/2018.