

Disclaimer: This document is an updated version of 2017 Annual report.
This version reflects updated numbers that were provided to ICHD.

Ingham County Opioid Surveillance

2017
Annual Report

Ingham County Opioid Surveillance

Medical Examiner

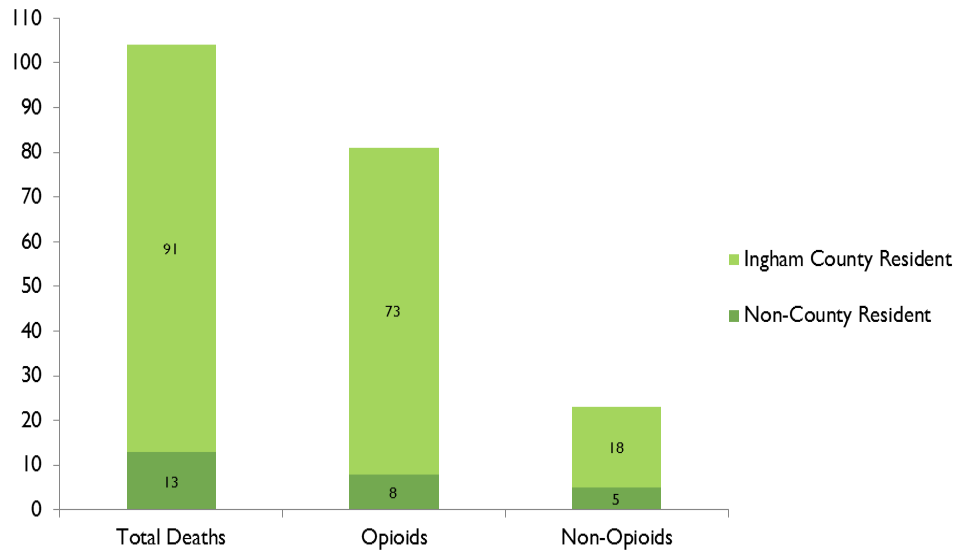
Source: Ingham County Medical Examiner, 2017

- 104 total drug-related deaths (Table 1 & Fig. 1)
 - 81 deaths were opioid-related
 - 73 opioid-related deaths were Ingham County residents
 - 8 opioid-related deaths were non-County residents
 - 23 deaths were non-opioid-related
 - 18 non-opioid deaths were Ingham County residents
 - 5 non-opioid deaths were non-County residents

Table 1: Number of drug-related deaths by related cause of death and county of residence, Ingham County 2017

Related Cause of Death	Ingham County Resident	Non-County Resident	Total
Opioids	73	8	81
Non-Opioids	18	5	23
Total	91	13	104

Figure 1: Drug-related deaths by related cause of death and county of residence, Ingham County 2017



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Figure 2: Opioid-related deaths by month and county of residence, Ingham County 2017

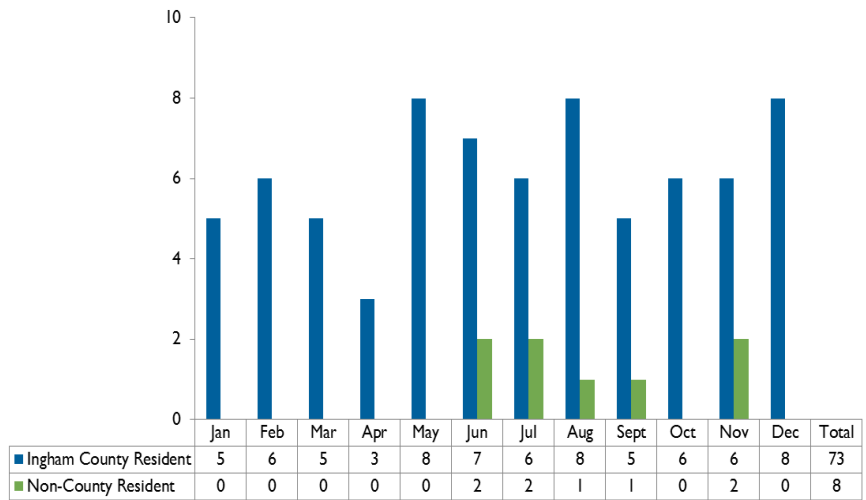
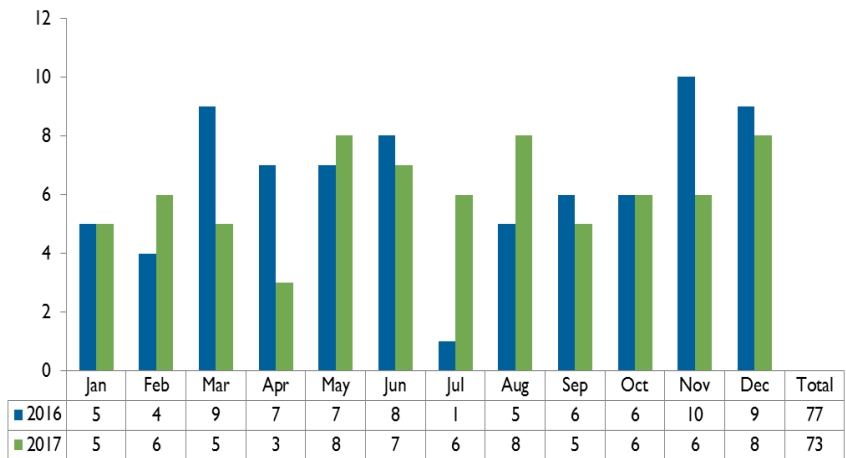
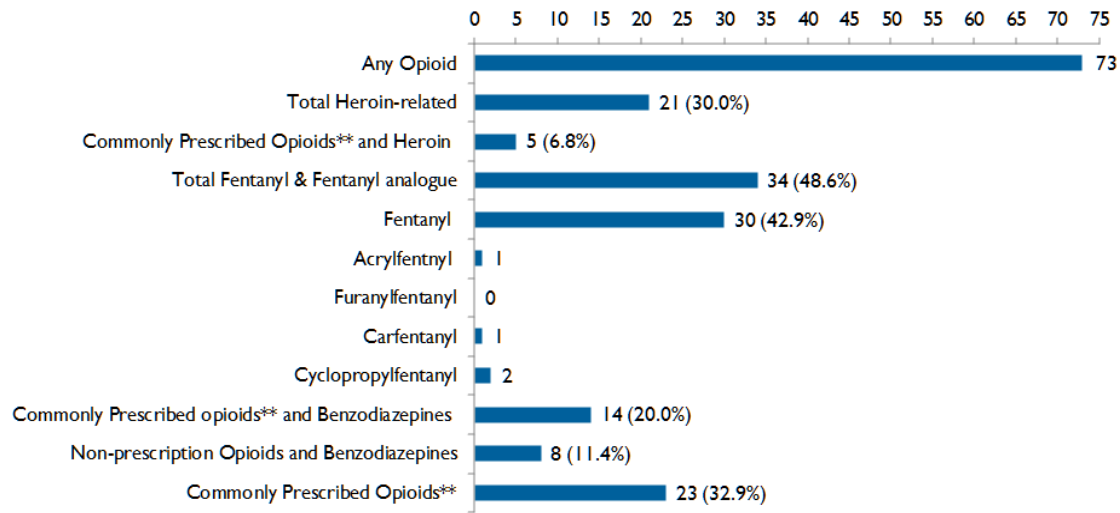


Figure 3: Number of opioid-related deaths among residents in Ingham County by month, Ingham County 2016-2017



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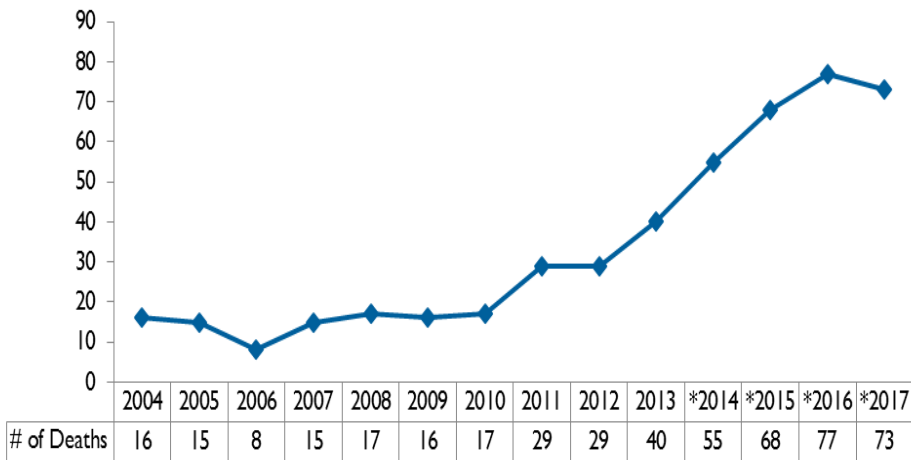
Figure 4: Opioid-related deaths by selected type of opioid among Ingham County residents, Ingham County 2017



Note: Deaths by type of drug are not mutually exclusive. Often multiple drugs are identified as a related cause of death in a single case.

**Morphine, Codeine, Methadone, Oxycodone, Hydrocodone, Hydromorphone, and Oxymorphone.

Figure 5: Number of opioid-related deaths among residents in Ingham County, 2004-2017



Source: Michigan Resident Death Files

*Source: Ingham County Medical Examiner Records 2014 - 2017

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Table 2: Characteristics of Opioid-related deaths among residents in Ingham County, 2017

Decedent Characteristic	Number	Death Rate†	95% CI for Calculated Rate
Total Deaths	73	25.5	(19.7 - 30.2)
Sex			
Male	46	33.1	(22.3 - 41.1)
Female	27	18.3	(10.9 - 24.4)
Age Group			
<15	0	0.0	
15-24	5	*	
25-34	19	47.9	(26.4 - 69.5)
35-44	9	*	
45-54	17	52.7	(23.0 - 70.0)
55-64	20	56.8	(31.3 - 82.4)
≥65	3	*	
Race			
White	66	30.1	(21.6 - 35.8)
Black	5	*	
Other	2	*	
Hispanic Ethnicity			
Hispanic or Latino	1	*	
Non-Hispanic or Latino	32	12.1	(7.6 - 15.9)
Unknown/Missing	40	*	
Other characteristic			
Age			
Median	47		
Mean	44.6		
Range	15 - 65 yrs		
Manner of death			
Accident	65		
Indeterminate	4		
Suicide	4		

Source: Ingham Medical Examiner Records 2017

†All rates are per 100,000 Ingham County residents. Rate for less than 20 deaths are considered statistically unreliable .

*Data suppressed due to insufficient numbers

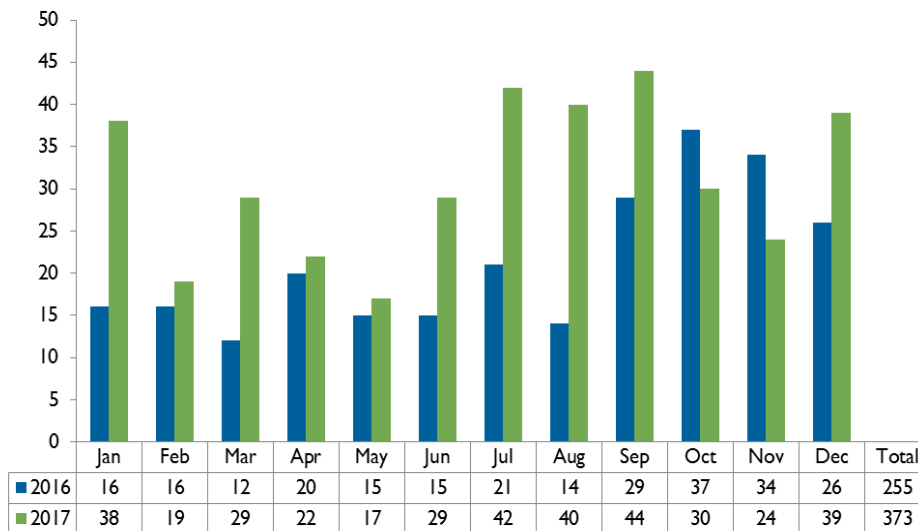
Ingham County Opioid Surveillance

EMS/ Fire Department

Source: City of Lansing Fire Department/EMS, 2017

- Naloxone Incidence is a record from EMS where Naloxone was administered to a person at a specific place and time excluding repeated doses.
- Total number of Naloxone incidences 373
 - Number of Naloxone incidences (1 dose administered per person) 231
 - Number of Naloxone incidences (2 doses administered per person) 106
 - Number of Naloxone incidences (3 doses administered per person) 26
 - Number of Naloxone incidences (4 or more doses administered per person) 10
 - Average age: 40 years
 - Median age: 37 years
- Number of recurrent cases 27

Figure 6: Number of Naloxone incidences by month in Ingham County, 2016 - 2017



Source: City of Lansing Fire Department/EMS 2016 - 2017

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Table 3: Naloxone incidence by Demographic Characteristics, City of Lansing 2017

Characteristic	Count	Percent
Sex		
Male	214	57.4%
Female	100	26.8%
Missing	59	15.8%
Age Group		
<15	2	0.5%
15-24	42	11.3%
25-34	111	29.8%
35-44	70	18.8%
45-54	58	15.5%
55-64	58	15.5%
≥65	22	5.9%
Missing	10	2.7%
Race		
White	133	35.7%
Black	48	12.9%
Other Race	7	1.9%
Missing	185	49.6%
Total	373	100.0%

Source: City of Lansing Fire Department/EMS 2017

Ingham County Opioid Surveillance

Law Enforcement Data

Sources: East Lansing Police Department, Drug Overdose Incidents Tri -County Area and Lansing Police Department (Lansing only), 2017

- 281 drug overdose incidents:
 - 255 survived
 - 26 died
- Average age: 35 years
- Median age: 33 years

Table 3: Number of drug overdose-related cases (including overdose-related deaths) by law enforcement jurisdiction and month of incident, Tri-County Area 2017

Jurisdiction	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Bath Twp					2								2
Charlotte PD													0
CCSD				1								1	2
Delhi Twp									1				1
DeWitt Twp PD	1		1		1								3
ECSD	1												1
ECSO													0
E. Lansing PD	3	1			1	1		2	2		1		11
ICSO	1												1
ICSD			4	1	1	2	1	4	1	3		1	18
ICSO/ Leslie													0
Lansing PD	26	8	20	11	12	25	24	22	30	19	21	22	240
Lansing Charter Twp PD													0
Mason/ICSO Assist													0
Meridian Charter Twp PD													0
MSU PD			1	1									2
Total	32	9	26	14	17	28	25	28	34	22	22	24	281

Source: Ingham County law enforcement jurisdictions

Note: ICSO - Ingham County sheriff's office, ECSO - Eaton County sheriff's office, MTPD - Meridian Township Police Dept.

MSU PD - Michigan State University Police Dept.

Table 4: Number of drug overdose-related deaths by law enforcement jurisdiction and month of incident, Tri-County Area 2017

Jurisdiction	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Bath Twp					1								1
DeWitt Twp PD					1								1
ECSD	1												1
ELPD	1										1		2
ICSD						1						1	2
Lansing PD	2	2	1		3	2	4	3		1		1	19
Total	4	2	1	0	5	3	4	3	0	1	1	2	26

Source: Ingham County law enforcement jurisdictions

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Emergency Department Visit Data

Source: Michigan Syndromic Surveillance System, 2017

- Total of 544 drug overdose-related visits
 - Average age : 36.1 years
 - Median age: 32 years

Figure 7: Number of Overdose-related emergency department visits* by month, Ingham County 2016 - 2017

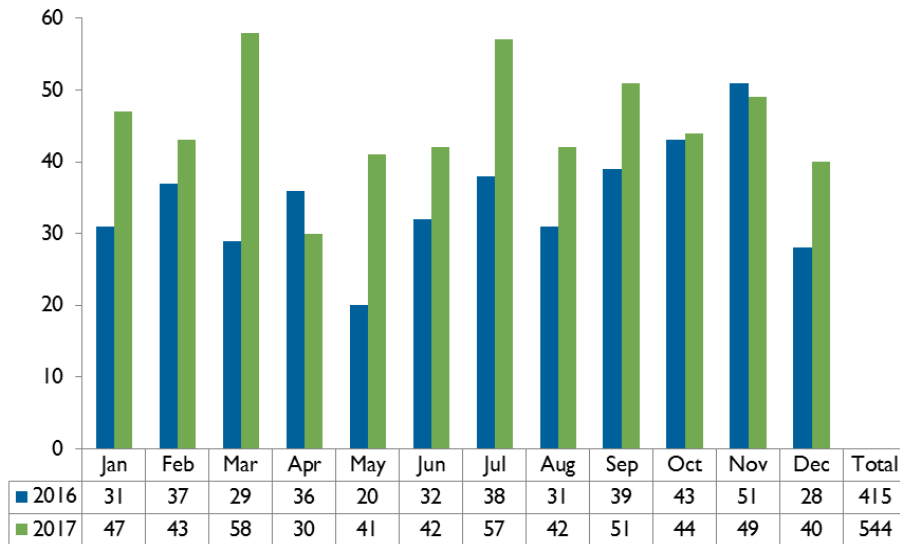
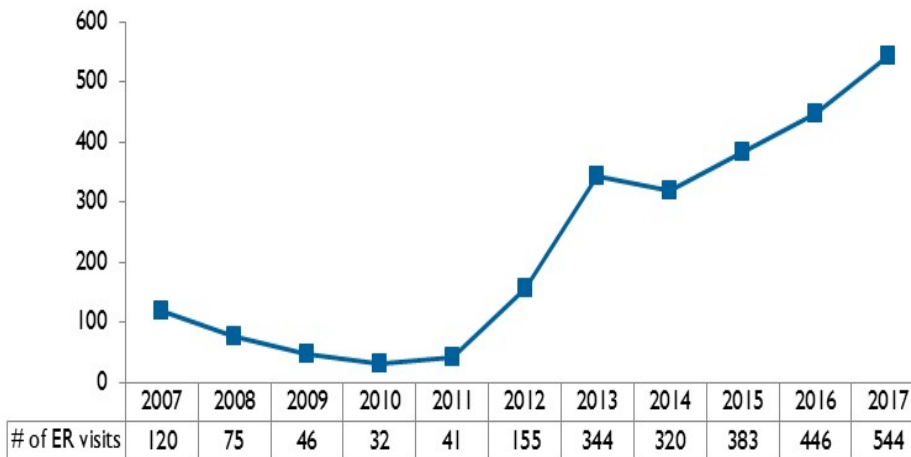
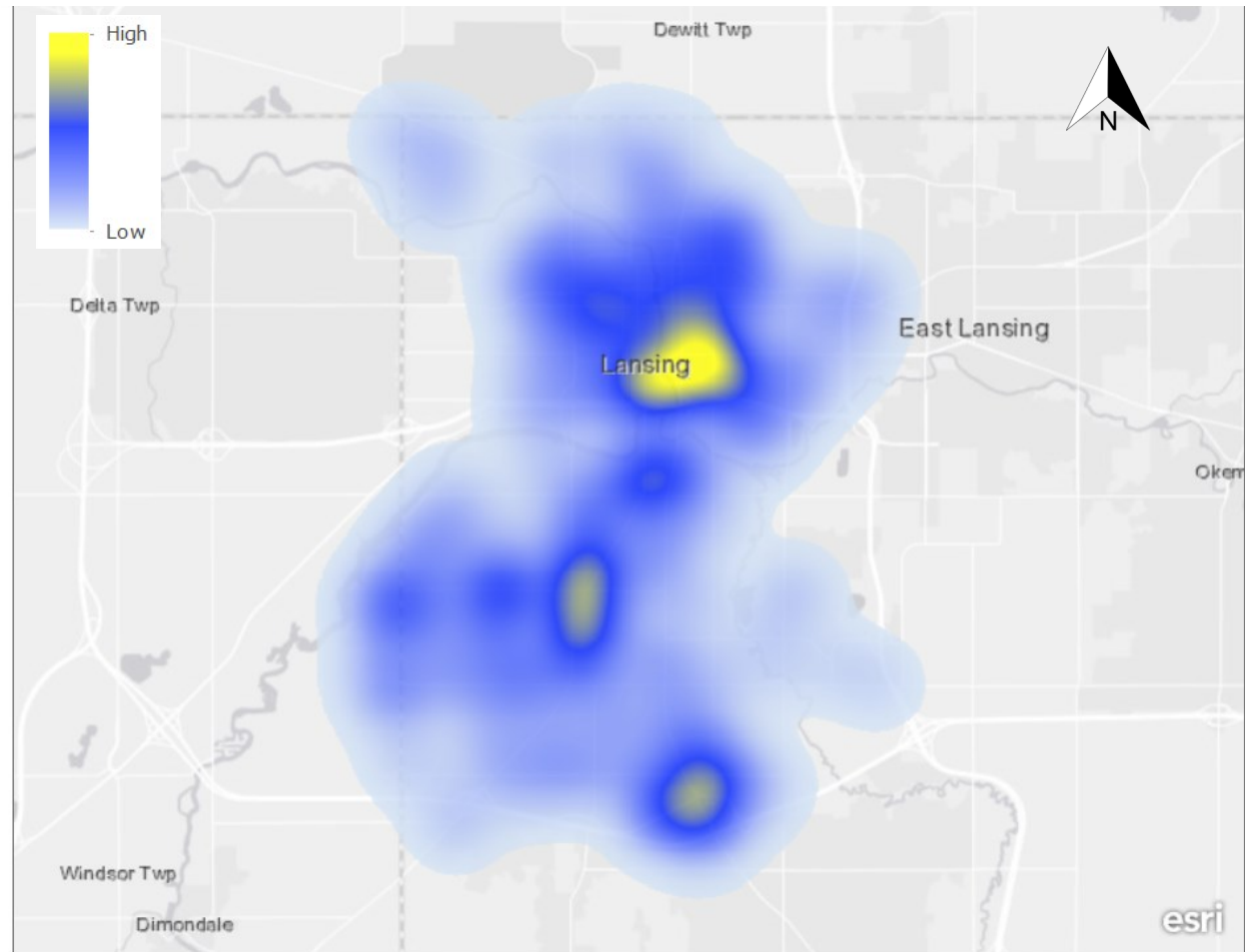


Figure 8: Number of Overdose-related Emergency Department Visits Ingham County, 2007-2017



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Figure 6: Density Heat map of Administered Naloxone Doses in Ingham County, 2017



Esri, HERE, Garmin, NGA, USGS, NPS | Esri, HERE, NPS