

# Department of Forensic Pathology Office of the Medical Examiner

2020 Q1 (January 1 – March 31) Drug Report

Published August 28, 2020

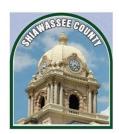












### Introduction

#### **Drug-Related Deaths - Defined**

We define drug deaths as those which result entirely or partially from the physiologic effects of acute toxicity. Therefore, included here are deaths which resulted from a combination of natural disease and acute intoxication (e.g. lung disease complicated by opioid intoxication). Our definition does not include deaths by violence, in which the violent behavior may have been caused or contributed to by intoxication (e.g. death due to injury from motor vehicle crash in which the at-fault driver was intoxicated). We also do not include deaths related to the effects of chronic substance use (e.g. deaths due to alcoholic liver disease or heart disease which may have been contributed to by chronic cocaine use) if not combined with acute toxicity.

#### Methods

The majority of the drug deaths reported are due to more than one substance, as you will see in the detailed tables that follow. Often, decedents have even more substances present in their body at the time of death or overdose incident than just the substances listed as having caused or contributed to death. After autopsy and review of records, including toxicology report, the medical examiner assigned to the case determines which of the substances present played a causal role in the death. Thus, there may be substances present in a given case which are not included in the cause of death statement.

Occasionally, intoxicated decedents survive in the hospital for a time prior to death, following acute drug intoxication. In these cases, all efforts are made to obtain and test the earliest blood and urine available from their time in the hospital for the overdose incident, so that the toxicology results reflect what was in the body at the time the overdose occurred.

New information occasionally becomes available after a "final" cause and manner of death was determined, which sometimes, albeit rarely, results in a change to the "final" cause or manner of death. As such, the statistics contained herein may be subject to change at any time.

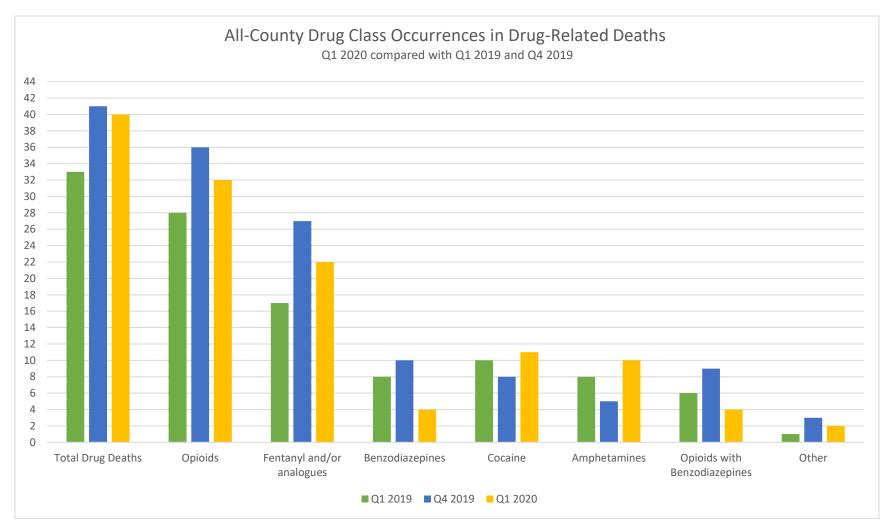
The extent of toxicology testing is determined by the medical examiner assigned to the case, based upon the circumstances of death. During the period reported, our office used Axis Forensic Toxicology for toxicology testing.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> If you have questions about what drugs we are currently capable of detecting, please visit www.axisfortox.com or email michelle.fox@sparrow.org

## Highlights

All comparisons on the Highlights page are made to the data from Q1 (January 1-March 31) of 2019. As stated above, most drug-related deaths are due to a combination of more than one substance. As such, numerous deaths fall into multiple of the below statistical categories (i.e. *all* heroin, fentanyl, methadone, and fentanyl analogue-related deaths are included in the opioid-related deaths category, and many deaths involved both heroin and fentanyl, and are included in both specific categories).

- > Total drug-related deaths increased by 21.2% (7 more)
- > Opioid-related deaths **increased** by 14.3% (4 more)
- Fentanyl-related deaths increased by 29.4% (5 more)
- Cocaine-related deaths **increased** by 10% (1 more)
- > Amphetamine/Methamphetamine-related deaths increased by 25% (2 more)
- > Benzodiazepine-related deaths **decreased** by 50% (4 less)
- Fentanyl analogues identified as having caused or contributed to death in Q1 2020 included: acetylfentanyl only
- > 75% of all drug-related deaths in Q1 2020 were due to two or more substances
- > 12.5% of all opioid-related deaths in Q1 2020 also involved at least one benzodiazepine
- > 12.5% of all opioid-related deaths in Q1 2020 also involved ethanol (alcohol)
- > 12.5% of all drug related deaths in Q1 2020 involved ethanol (alcohol)

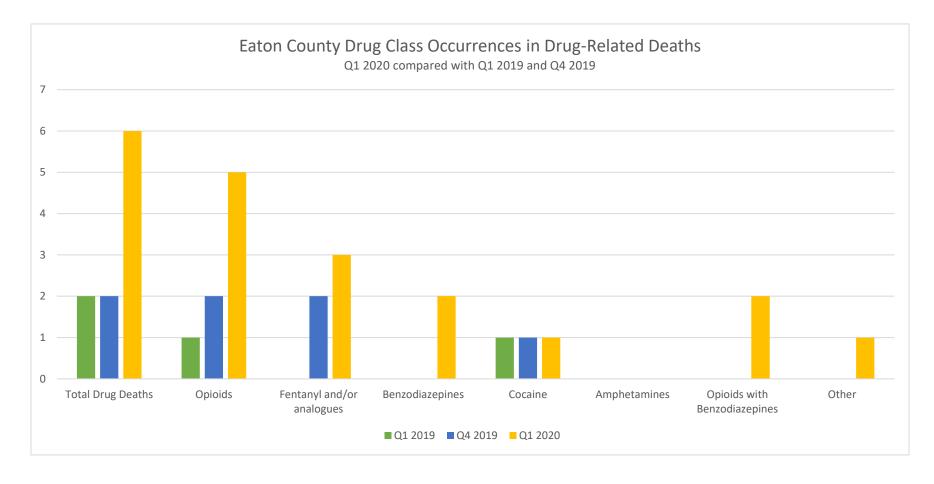


# **Eaton County**

2020 Eaton County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of death
Female	22	fentanyl	Accident
Male	25	fentanyl, heroin, cocaine, alprazolam, clonazepam, cyclobenzaprine, ethanol	Accident
Male	26	1,1-difluoroethane	Accident
Female	38	dextromethorphan, methadone	Accident
Male	39	methadone, clonazepam, amitriptyline, pregabalin, haloperidol	Accident
Female	51	heroin, fentanyl, doxylamine	Accident

## **Eaton County**

#### **Drug-Related Deaths**



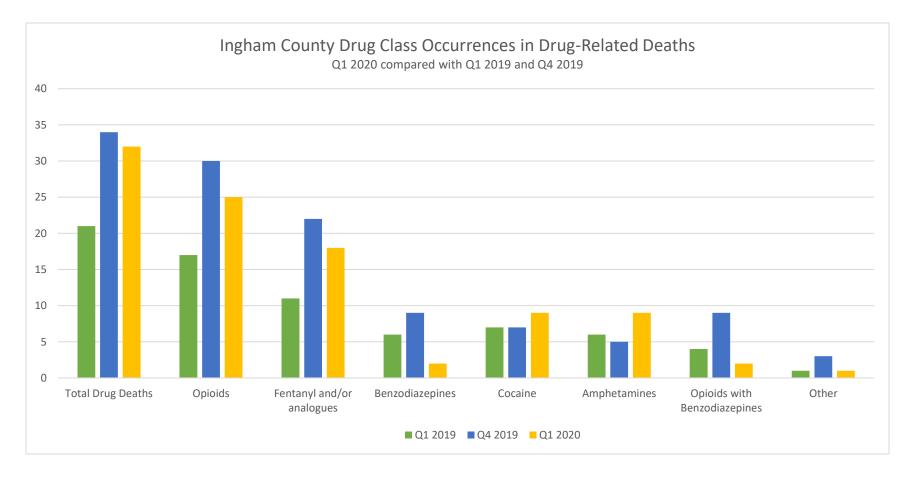
# **Ingham County**

2020 Q1 Ingham County Drug-Related Deaths				
Sex	Age	Substance(s) Causing Death	Manner of death	
Female	23	cocaine, fentanyl	Accident	
Female	24	diphenhydramine, fentanyl	Accident	
Female	25	methadone	Indeterminate	
Male	29	hydrocodone, oxycodone	Accident	
Male	29	methamphetamine, fentanyl	Accident	
Male	30	methamphetamine, cocaine	Accident	
Male	30	morphine	Accident	
Female	30	fentanyl, cocaine, ethanol	Accident	
Male	34	fentanyl, heroin, hydrocodone	Accident	
Male	34	fentanyl, cocaine, clonazepam, alprazolam, cyclobenzaprine	Accident	
Male	35	fentanyl, morphine, xylazine, loperamide, alprazolam, clonazepam, diphenhydramine	Accident	
Female	35	fentanyl	Accident	
Female	36	amlodipine, cyclobenzaprine, diphenhydramine, duloxetine, metoprolol	Suicide	
Male	37	cocaine, diphenhydramine, ethanol	Indeterminate	
Male	37	fentanyl, ethanol	Accident	
Male	38	acetylfentanyl, fentanyl, methamphetamine	Accident	
Male	38	methamphetamine, codeine, morphine	Accident	
Male	39	cocaine, methamphetamine	Accident	
Female	39	methamphetamine, fentanyl	Accident	
Male	40	fentanyl, oxycodone	Accident	
Female	45	amphetamine, diphenhydramine, fentanyl	Accident	
Male	46	fentanyl	Accident	
Male	50	cocaine	Accident	

Female	53	cocaine, cyclobenzaprine, hydrocodone Accident		
Male	56	fentanyl, heroin, methamphetamine Accident		
Female	60	methamphetamine	Accident	
Male	63	diphenhydramine, methadone	Accident	
Male	64	fentanyl, heroin	Accident	
Male	67	fentanyl, hydrocodone, morphine	Accident	
Male	68	cocaine	Accident	
Male	70	morphine	Accident	
Male	70	fentanyl, morphine, xylazine, ethanol	Accident	

## **Ingham County**

#### **Drug-Related Deaths**

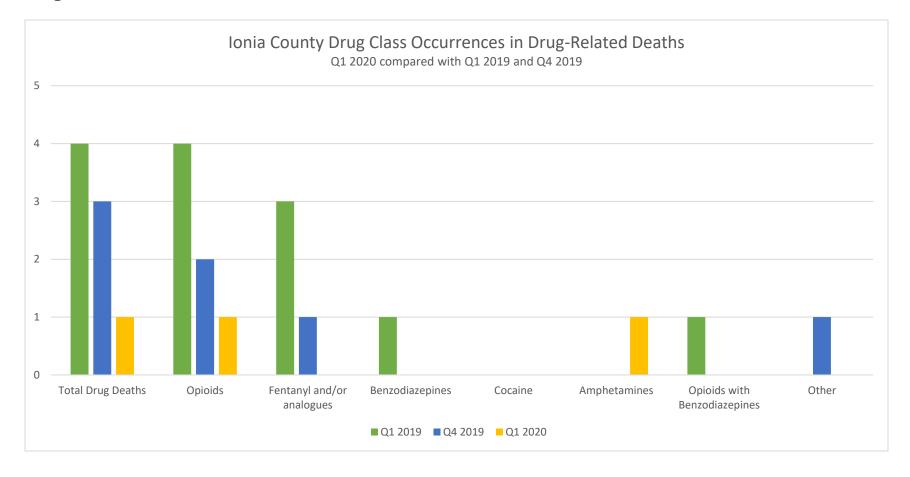


# **Ionia County**

2020 Ionia County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of death
Male	55	methamphetamine, oxycodone	Accident

## **Ionia County**

#### **Drug-Related Deaths**

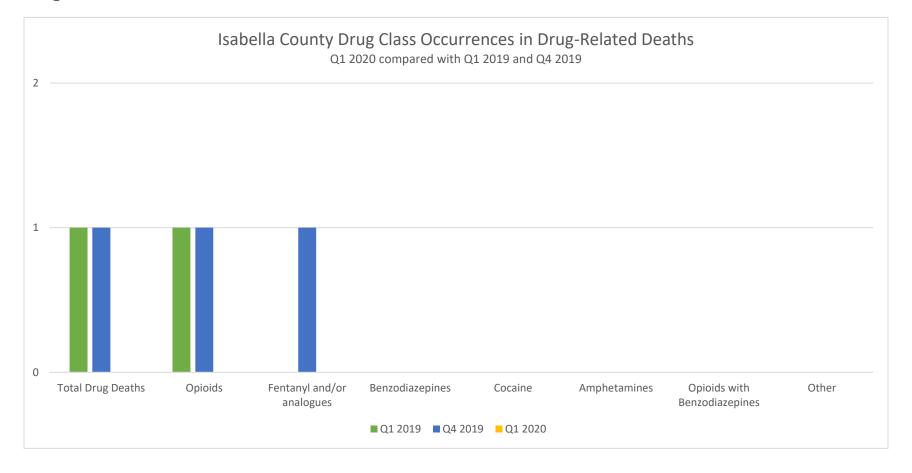


# **Isabella County**

2020 Isabella County Drug-Related Deaths				
Sex	Age	Substance(s) Causing Death	Manner of death	
		No drug related deaths reported		

## **Isabella County**

#### **Drug-Related Deaths**



# **Shiawassee County**

**Drug-Related Deaths** 

	2020 Shiawassee County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of death	
Male	33	cocaine, fentanyl	Accident	

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## **Shiawassee County**

#### **Drug-Related Deaths**

