

Department of Forensic Pathology

Office of the Medical Examiner

2020 Q2 (April 1 – June 30) Drug Report

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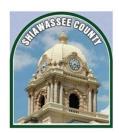












Introduction

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.

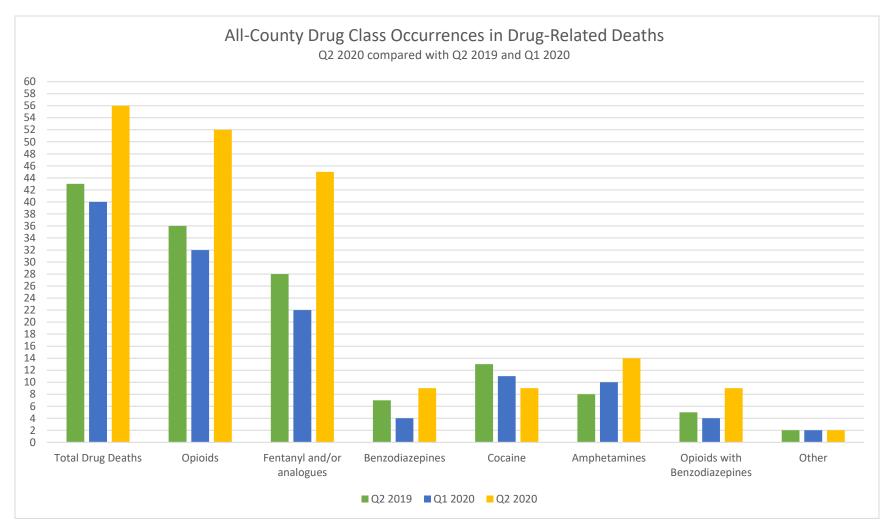
The extent of toxicology testing is determined by the medical examiner assigned to the case, based upon the circumstances of death. During the period reported, our office used Axis Forensic Toxicology for toxicology testing.¹

¹ 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 Q2 (April 1 – June 30) 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 deaths involving both heroin and fentanyl are included in both specific categories).

- > Total drug-related deaths increased by 30.2% (13 more)
- > Opioid-related deaths increased by 44.4% (16 more)
- Fentanyl-related deaths increased by 60.7% (17 more)
- Cocaine-related deaths **decreased** by 30.8% (4 less)
- > Amphetamine/Methamphetamine-related deaths **increased** by 75% (6 more)
- > Benzodiazepine-related deaths increased by 28.6% (2 more)
- > 0 Fentanyl analogues were identified as having caused or contributed to death in Q2 2020.
- > 85.7% of all drug-related deaths in Q2 2020 were due to two or more substances
- > 17.3% of all opioid-related deaths in Q2 2020 also involved at least one benzodiazepine
- > 25% of all opioid-related deaths in Q2 2020 also involved ethanol (alcohol)
- > 25% of all drug related deaths in Q2 2020 involved ethanol (alcohol)

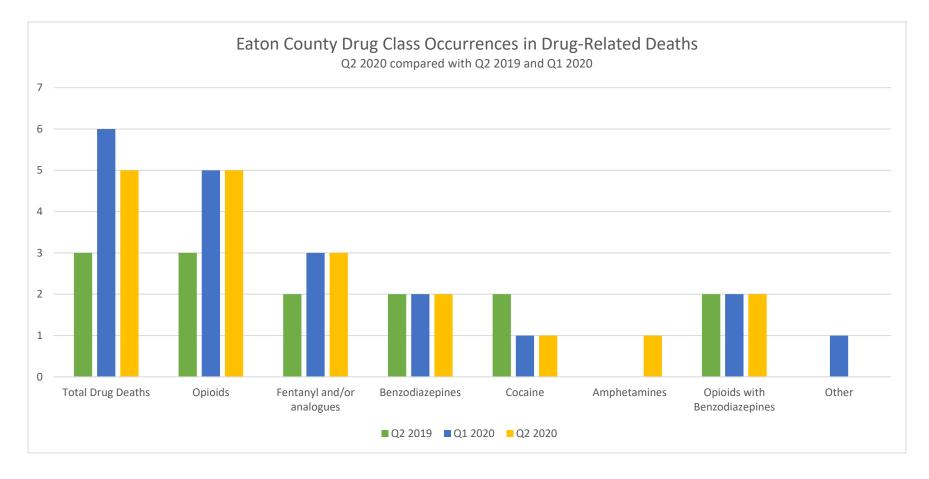


Eaton County

	2020 Q2 Eaton County Drug-Related Deaths			
Sex	Sex Age Substance(s) Causing Death Manner of death			
Male	21	fentanyl	Accident	
Male	24	fentanyl, gabapentin, lorazepam	Accident	
Male	28	cocaine, heroin, bupropion, gabapentin	Accident	
Female	31	methamphetamine, aplrazolam, hydrocodone, tramadol	Accident	
Male	46	cyclobenzaprine, ethanol, fentanyl, hydroxyzine	Accident	

Eaton County

Drug-Related Deaths



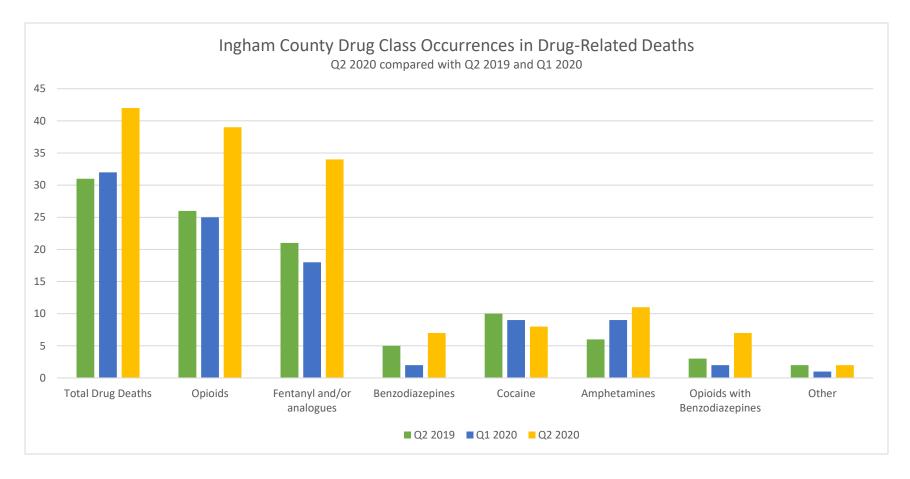
Ingham County

	2020 Q2 Ingham County Drug-Related Deaths				
Sex	Age	Substance(s) Causing Death	Manner of death		
Male	18	fentanyl	Accident		
Male	19	fentanyl, methamphetamine Accident			
Male	21	fentanyl, cocaine Accident			
Female	22	fentanyl, heroin, aplrazolam Accident			
Male	24	cocaine, ethanol, oxycodone Accident			
Male	26	fentanyl, heroin, methamphetamine Accident			
Female	27	ethanol, oxycodone, tramadol Accident			
Male	27	methadone, alprazolam, clonazepam, promethazine Accident			
Male	31	fentanyl, mitragynine, cyclobenzaprine, gabapentin	Accident		
Male	31	methamphetamine, fentanyl, dextromethorphan	Accident		
Male	33	fentanyl, heroin	Accident		
Male	33	fentanyl, methamphetamine, cocaine	Accident		
Male	34	fentanyl	Accident		
Male	35	fentanyl, sertraline	Accident		
Female	35	fentanyl, methamphetamine	Accident		
Female	36	fentanyl	Accident		
Female	36	fentanyl, aprazolam, cocaine, methylphenidate	Accident		
Male	37	fentanyl	Accident		
Female	37	cocaine, fentanyl, heroin, ethanol	Accident		
Female	39	methamphetamine, fentanyl	Accident		
Male	41	fentanyl, methamphetamine, cocaine	Accident		
Male	43	ethanol, fentanyl, mitragynine, cyclobenzaprine	Accident		
Male	44	methadone, fentanyl, alprazolam, clonazepam	Accident		

Female	44	fentanyl	Accident
Male	46	ethanol, fentanyl, heroin, methadone	Accident
Male	46	ethanol, fentanyl	Accident
Male	49	ethanol, fentanyl Accident	
Female	50	fentanyl, heroin, methamphetamine, cocaine, clonazepam Accident	
Female	51	insulin Suicide	
Male	52	fentanyl, heroin, xylazine, alprazolam Accident	
Male	52	ethanol, fentanyl	Accident
Male	57	ethanol	Accident
Male	60	Methadone	Accident
Male	60	fentanyl, clonazepam, ethanol	Accident
Female	61	fentanyl, methamphetamine	Accident
Male	62	diphenhydramine, fentanyl, heroin, methadone, xylazine	Accident
Female	62	fentanyl, methamphetamine	Accident
Male	63	methamphetamine, fentanyl, morphine	Accident
Male	63	ethanol, fentanyl, morphine, oxycodone	Accident
Female	65	cocaine	Accident
Male	70	fentanyl, morphine, ethanol	Accident
Male	74	diazepam, methadone	Accident

Ingham County

Drug-Related Deaths

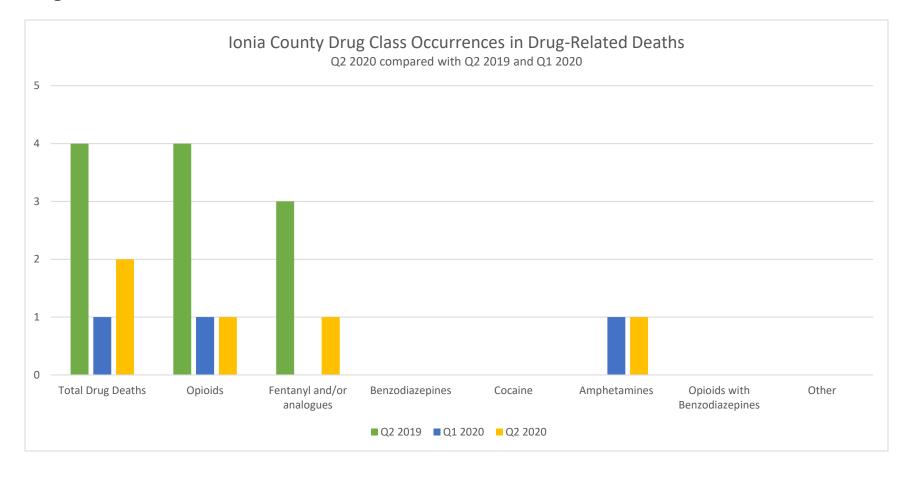


Ionia County

2020 Q2 Ionia County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of death
Male	24	methamphetamine	Accident
Female	42	fentanyl	Accident

Ionia County

Drug-Related Deaths

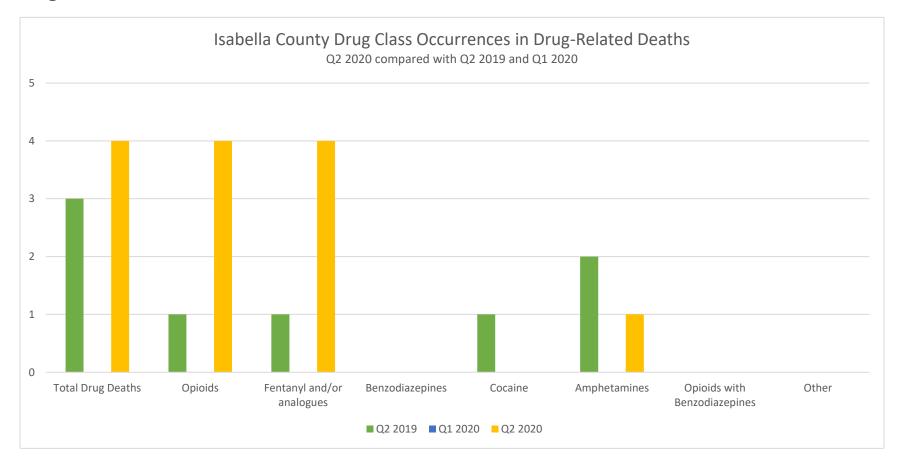


Isabella County

2020 Q2 Isabella County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of death
Male	23	fentanyl	Accident
Female	30	fentanyl, heroin	Accident
Male	39	fentanyl, heroin, methamphetamine	Accident
Male	43	fentanyl	Accident

Isabella County

Drug-Related Deaths



Shiawassee County

2020 Q2 Shiawassee County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of death
Male	40	fentanyl	Accident
Male	49	fentanyl, heroin	Accident
Male	53	fentanyl, ethanol	Accident

Shiawassee County

Drug-Related Deaths

