

Department of Forensic Pathology

Office of the Medical Examiner

2022 Q2 (April 1 – June 30) Drug Report

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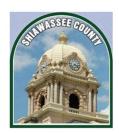












Introduction

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.

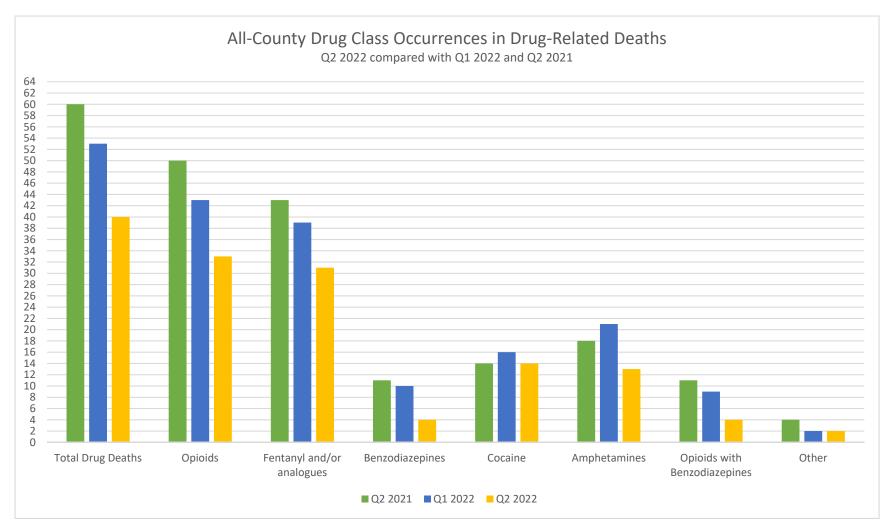
The extent of toxicology testing is determined by the medical examiner assigned to the case, based upon the circumstances of death. During the period reported, our office used Axis Forensic Toxicology for toxicology testing.¹

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 to June 30) of 2021. 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).

- > Total drug-related deaths **decreased** by 33% (20 fewer)
- Opioid-related deaths decreased by 34% (17 fewer)
- Fentanyl and/or fentanyl analogue-related deaths **decreased** by 28% (12 fewer)
- Cocaine-related deaths were unchanged (same number as Q2 2021)
- Amphetamine/Methamphetamine-related deaths **decreased** by 28% (5 fewer)
- ➤ Benzodiazepine-related deaths **decreased** by 64% (7 fewer)
- > 12% of all opioid-related deaths in Q2 2022 also involved at least one benzodiazepine
- > 75% of all drug-related deaths in Q2 2022 were due to two or more substances
- > 12% of all opioid-related deaths in Q2 2022 also involved ethanol (all deaths involving ethanol also have an opioid)
- > 10% of all drug related deaths in Q2 2022 involved ethanol
- Fluorofentanyl (fentanyl analogue) was present in 5 deaths (12.5%) and always in conjunction with fentanyl
- Mitragynine (also known as Kratom) was present in 4 deaths (10%); 3 in conjunction with fentanyl and 1 as the sole drug

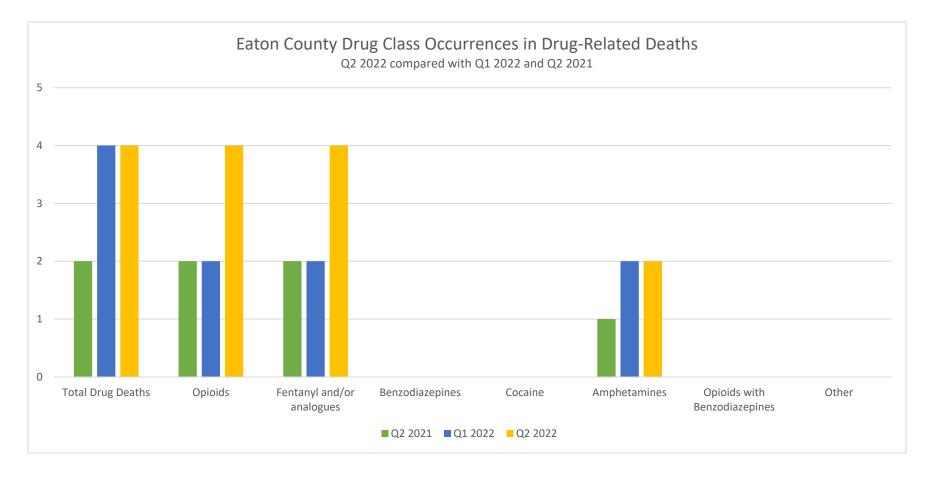


Eaton County

2022 Q2 Eaton County Drug-Related Deaths				
Sex	Age	Substance(s) Causing Death	Manner of Death	
Female	32	fentanyl, methamphetamine	Accident	
Female	39	acetylfentanyl, diphenhydramine, fentanyl, fluorofentanyl, xylazine	Accident	
Male	43	fentanyl, methamphetamine	Accident	
Male	61	fentanyl, heroin	Accident	

Eaton County

Drug-Related Deaths



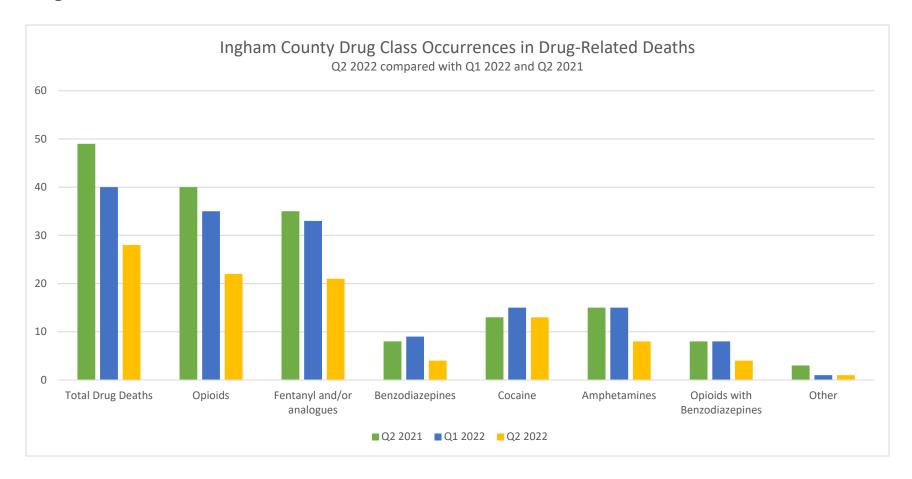
Ingham County

		2022 Q2 Ingham County Drug-Related Deaths	
Sex	Age	Substance(s) Causing Death	Manner of Death
Male	20	fentanyl	Accident
Male	20	cyclobenzaprine, fentanyl	Accident
Female	24	cocaine, chlordiazepoxide, cyclobenzaprine, ethanol, fentanyl	Accident
Female	25	fentanyl	Accident
Male	26	fentanyl, methamphetamine	Accident
Female	32	cyclobenzaprine, diazepam, ethanol, fentanyl, hydroxyzine, mitragynine	Accident
Male	33	cocaine, fentanyl, mitragynine	Accident
Male	33	fentanyl, fluorofentanyl	Accident
Female	35	cocaine, fentanyl, heroin, methamphetamine	Accident
Male	37	fentanyl	Accident
Male	39	mitragynine	Accident
Male	40	ethanol, fentanyl	Accident
Female	44	alprazolam, cocaine, diphenhydramine, fentanyl	Accident
Female	44	fentanyl, methamphetamine	Accident
Female	47	clonazepam, gabapentin, hydroxyzine, methadone	Accident
Male	48	ethanol, fentanyl	Accident
Male	50	cocaine, fentanyl, fluorofentanyl, mitragynine	Accident
Female	51	cocaine, cyclobenzaprine, fentanyl, fluorofentanyl	Accident
Male	52	cocaine, methamphetamine	Accident
Male	54	cocaine, fentanyl, methamphetamine	Accident
Male	56	cocaine, fentanyl	Accident
Male	57	fentanyl	Accident
Male	57	cocaine, fentanyl	Accident

Female	58	fluoxetine, methamphetamine	Accident
Female	60	cocaine	Accident
Female	60	cocaine, fentanyl	Accident
Male	61	amphetamine, cocaine	Accident
Female	61	methamphetamine	Accident

Ingham County

Drug-Related Deaths

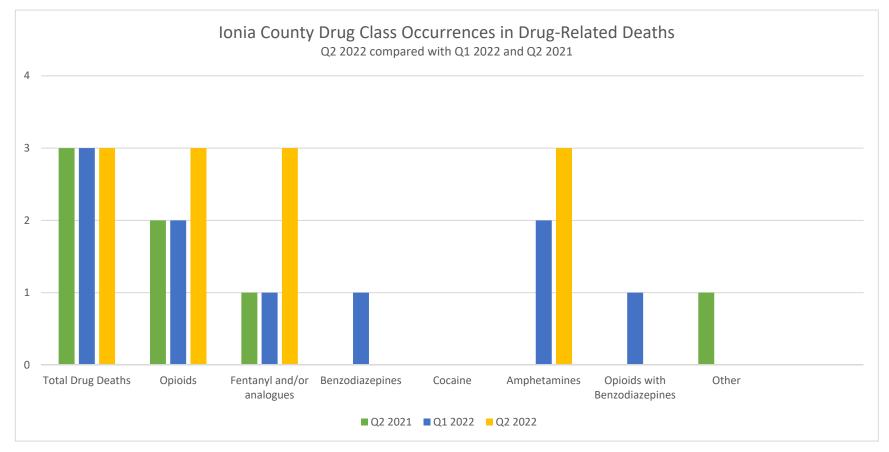


Ionia County

		2022 Q2 Ionia County Drug-Related	d Deaths
Sex	Age	Substance(s) Causing Death	Manner of Death
Male	32	fentanyl, methamphetamine	Accident
Female	40	fentanyl, methamphetamine	Accident
Male	53	fentanyl, hydrocodone, methamphetamine	Accident

Ionia County

Drug-Related Deaths

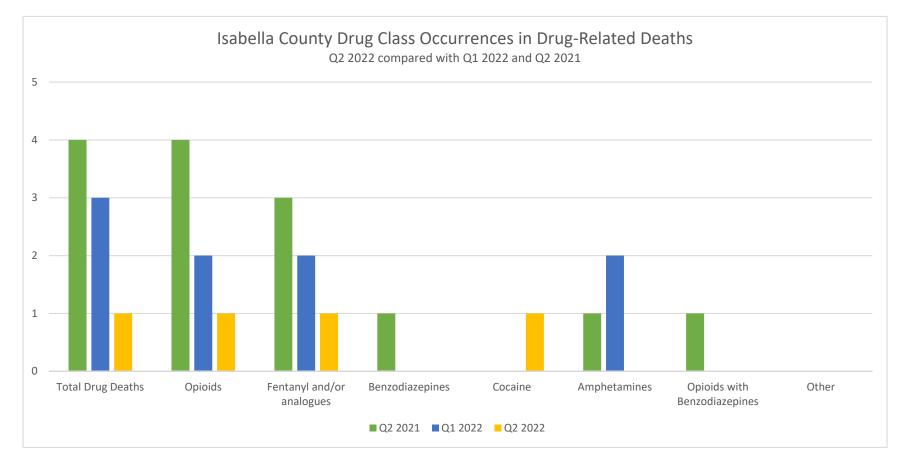


Isabella County

		2022 Q2 Isabella County Drug-Related Deaths	
Sex	Age	Substance(s) Causing Death	Manner of Death
Female	45	cocaine, fentanyl, fluorofentanyl	Accident

Isabella County

Drug-Related Deaths

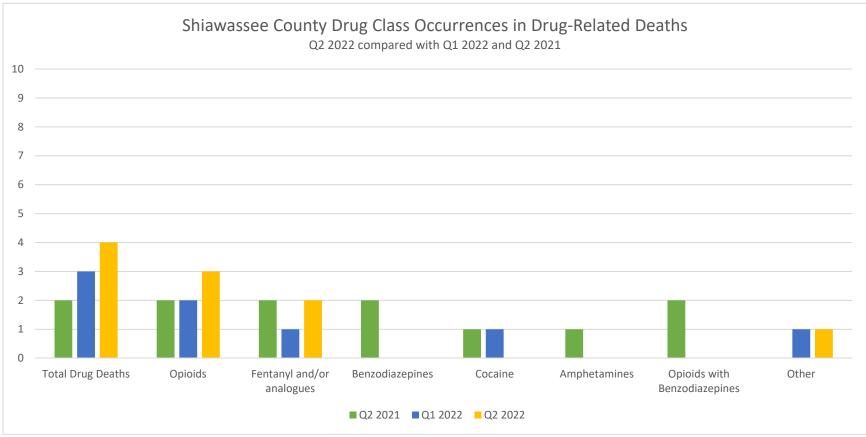


Shiawassee County

2022 Q2 Shiawassee County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of Death
Male	28	fentanyl	Accident
Male	30	fentanyl	Accident
Male	32	insulin	Suicide
Female	54	cyclobenzaprine, duloxetine, glipizide, hydrochlorothiazide, pregabalin, tramadol	Suicide

Shiawassee County

Drug-Related Deaths



Historical Data

