

Department of Forensic Pathology

Office of the Medical Examiner

2021 Q2 (April 1 – June 30) Drug Report

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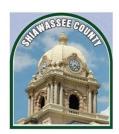












Introduction

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.

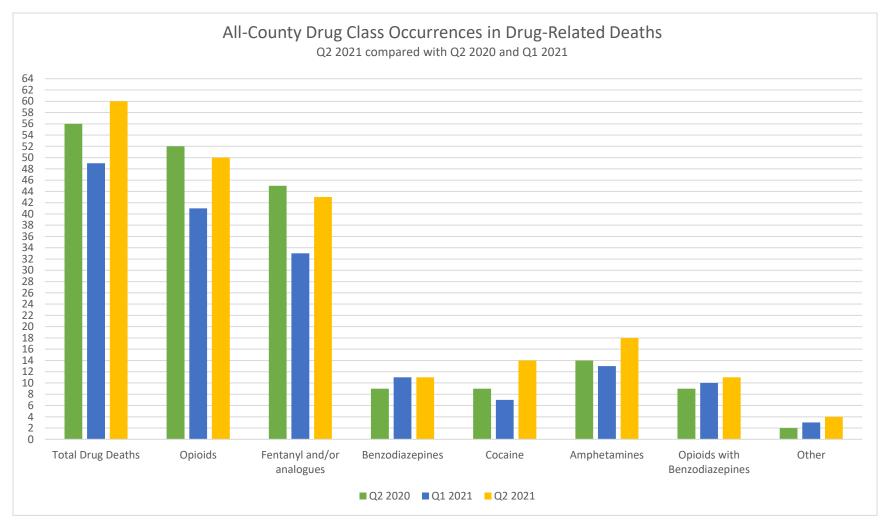
The extent of toxicology testing is determined by the medical examiner assigned to the case, based upon the circumstances of death. During the period reported, our office used Axis Forensic Toxicology for toxicology testing.¹

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 2020. 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 7.1% (4 more)
- > Opioid-related deaths **decreased** by 3.8% (2 less)
- Fentanyl-related deaths **decreased** by 4.4% (2 less)
 - o 39.5% of Fentanyl related deaths also involved one or more stimulants (cocaine and/or methamphetamine)
 - o 44% of Fentanyl related deaths were presumptively positive (not confirmed) for parafluorofentanyl
- Cocaine-related deaths **increased** by 55.6% (5 more)
- Amphetamine/Methamphetamine-related deaths increased by 28.6% (4 more)
- Benzodiazepine-related deaths increased by 22.2% (2 more)
- > 81.7% of all drug-related deaths in Q2 2021 were due to two or more substances
- > 22% of all opioid-related deaths in Q2 2021 also involved at least one benzodiazepine
- 22% of all opioid-related deaths in Q2 2021 also involved ethanol (alcohol)
- > 21.6% of all drug related deaths in Q2 2021 involved ethanol (alcohol)

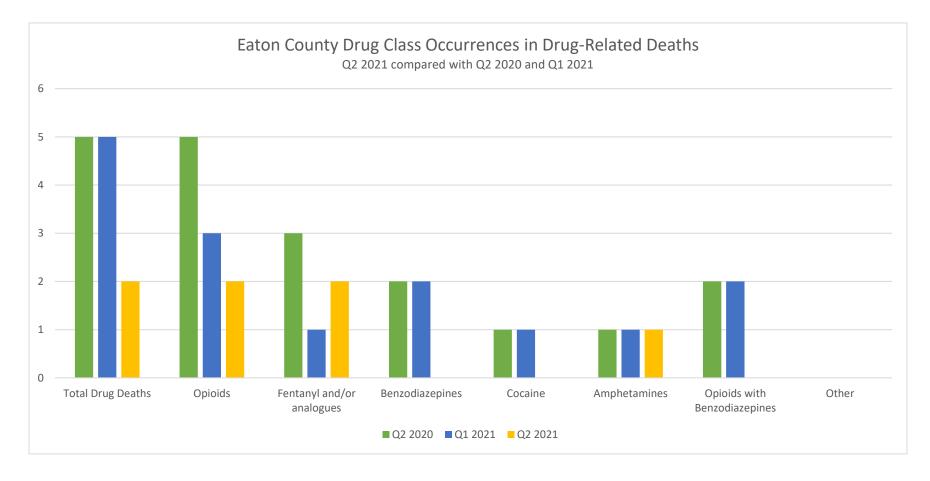


Eaton County

2021 Q2 Eaton County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of death
Male	42	ethanol, fentanyl, heroin	Accident
Male	57	fentanyl, methamphetamine	Accident

Eaton County

Drug-Related Deaths



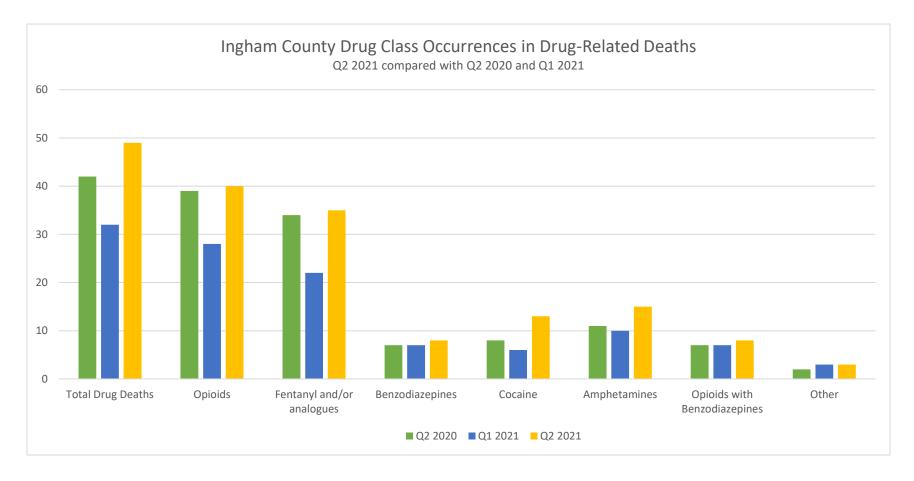
Ingham County

		2021 Q2 Ingham County Drug-Related Deaths	
Sex	Age	Substance(s) Causing Death	Manner of death
Male	19	fentanyl, methamphetamine	Accident
Female	20	amphetamine, ethanol, fentanyl	Accident
Male	21	etizolam, fentanyl, ketamine	Accident
Male	22	ethanol, etizolam, fentanyl	Accident
Female	24	cocaine, methamphetamine	Accident
Male	26	alprazolam, cocaine, fentanyl	Accident
Male	26	fentanyl	Accident
Female	32	amphetamine, clonazepam, cocaine, fentanyl	Accident
Male	32	methamphetamine	Accident
Male	33	fentanyl	Accident
Male	33	cocaine, ethanol, fentanyl	Accident
Female	34	amitriptyline, ethanol	Suicide
Female	34	fentanyl, methamphetamine	Accident
Female	35	fentanyl, methamphetamine	Accident
Male	36	chlordiazepoxide, gabapentin, methadone, phenobarbital	Accident
Male	36	fentanyl	Accident
Female	37	fentanyl	Accident
Female	38	fentanyl, methamphetamine	Accident
Male	39	cocaine, fentanyl, tramadol	Accident
Female	40	cocaine, fentanyl, methamphetamine	Accident
Male	41	opioid/opiate (cannot be further specified)	Accident
Female	41	aripiprazole, chlorpromazine, olanzapine, mitragynine, sertraline	Indeterminate

Male	42	fentanyl	Accident
Female	42	cocaine, methamphetamine, methadone	Accident
Female	44	amphetamine, cocaine, fentanyl, methadone	Accident
Male	44	ethanol, fentanyl	Accident
Female	47	diphenhydramine, fentanyl	Indeterminate
Male	48	ethanol, fentanyl	Accident
Male	48	amitriptyline, bupropion, gabapentin	Suicide
Female	49	methamphetamine	Accident
Male	49	cocaine, ethanol, fentanyl	Accident
Male	50	cyclobenzaprine, fentanyl	Accident
Male	51	methamphetamine	Accident
Female	51	alprazolam, cyclobenzaprine, morphine, nordiazepam	Accident
Female	51	fentanyl, methamphetamine	Accident
Male	51	cocaine, ethanol, fentanyl	Accident
Female	52	alprazolam, fentanyl	Indeterminate
Male	52	cocaine, ethanol	Accident
Male	54	fentanyl, hydrocodone	Accident
Female	54	cocaine, ethanol, fentanyl	Accident
Male	56	cyclobenzaprine, diazepam, gabapentin, oxycodone	Accident
Female	56	gabapentin, fentanyl, tramadol	Accident
Female	59	diphenhydramine, ethanol, fentanyl	Accident
Male	61	methamphetamine	Accident
Male	62	fentanyl, tramadol	Accident
Female	64	fentanyl, morphine	Accident
Male	64	fentanyl, morphine	Accident
Male	66	fentanyl	Accident
Male	68	cocaine, fentanyl	Accident

Ingham County

Drug-Related Deaths

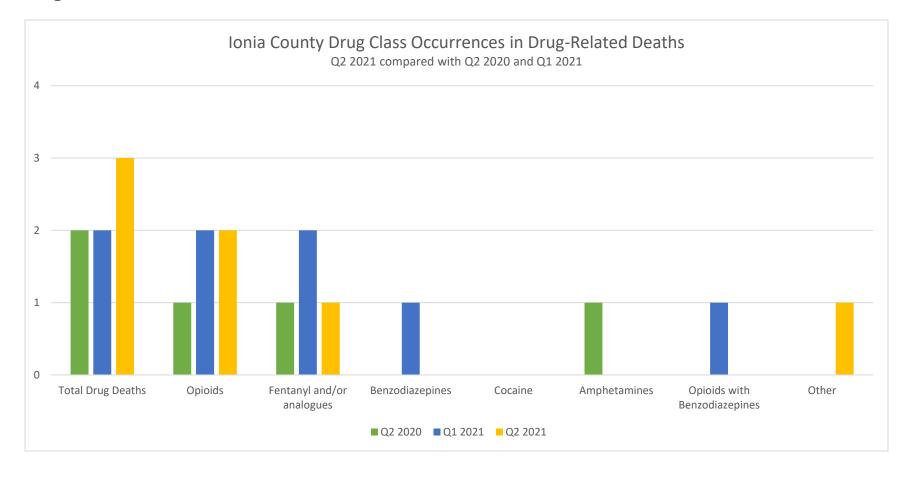


Ionia County

2021 Q2 Ionia County Drug-Related Deaths				
Sex	Age	Substance(s) Causing Death	Manner of death	
Female	12	bupropion, metoprolol	Suicide	
Male	36	diphenhydramine, fentanyl	Accident	
Female	63	bupropion, dextromethorphan, diphenhydramine, gabapentin, hydrocodone, methadone, paroxetine	Accident	

Ionia County

Drug-Related Deaths

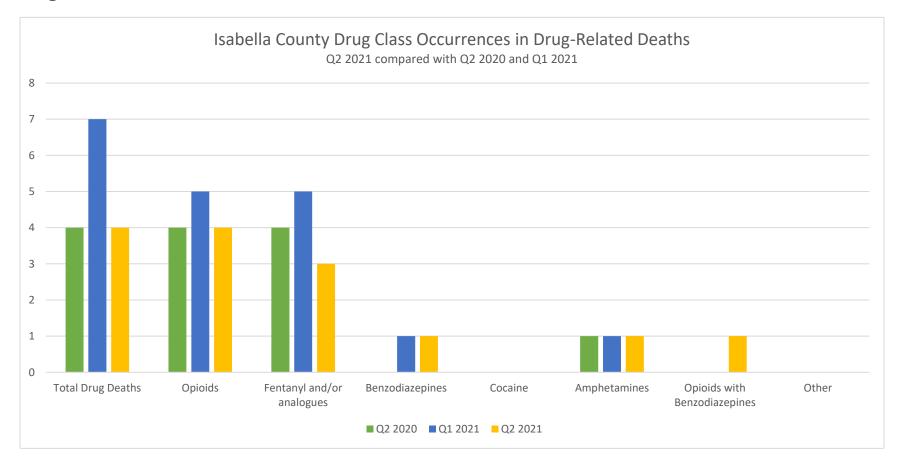


Isabella County

2021 Q2 Isabella County Drug-Related Deaths				
Sex	Age	Substance(s) Causing Death	Manner of death	
Female	25	fentanyl	Accident	
Male	32	fentanyl	Accident	
Female	35	diazepam, ethanol, fentanyl, methamphetamine	Accident	
Male	56	cyclobenzaprine, dextromethorphan, duloxetine, guaifenesin, hydroxyzine,tramadol	Accident	

Isabella County

Drug-Related Deaths

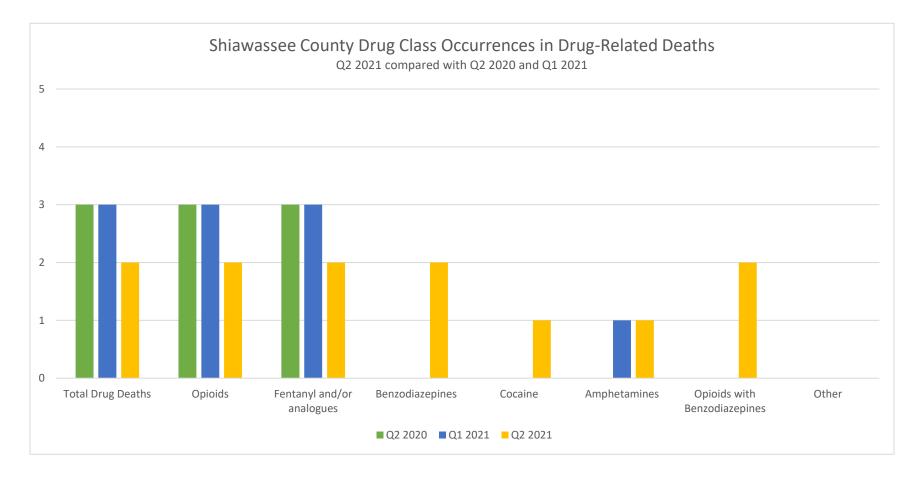


Shiawassee County

2021 Q2 Shiawassee County Drug-Related Deaths			
Sex	Age	Substance(s) Causing Death	Manner of death
Male	22	alprazolam, cocaine, fentanyl, methamphetamine/amphetamine	Accident
Female	50	diazepam, diphenhydramine, fentanyl, morphine	Accident

Shiawassee County

Drug-Related Deaths



Historical Data

