

The following mortality indicators are defined in this section:

- 1. Drug Poisoning Deaths
 - a) Number of drug poisoning deaths by residence
 - b) Number of drug poisoning deaths by occurrence
 - c) Age-Adjusted Rate of drug poisoning deaths by residence
- 2. Opioid Poisoning Deaths
 - a) Number of opioid poisoning deaths by residence
 - b) Number of opioid poisoning deaths by occurrence
 - c) Age-Adjusted Rate of opioid poisoning deaths by residence
- 3. Heroin Poisoning Deaths
 - a) Number of heroin poisoning deaths by residence
 - b) Number of heroin poisoning deaths by occurrence
 - c) Age-Adjusted Rate of heroin poisoning deaths by residence
- 4. Synthetic Opioid Poisoning Deaths
 - a) Number of synthetic opioid poisoning deaths by residence
 - b) Number of synthetic opioid poisoning deaths by occurrence
 - c) Age-Adjusted Rate of synthetic opioid poisoning deaths by residence
- 5. Heroin and Synthetic Opioid Poisoning Deaths
 - a) Number of heroin and synthetic opioid poisoning deaths by residence
 - b) Number of heroin and synthetic opioid poisoning deaths by occurrence
 - c) Age-Adjusted Rate of heroin and synthetic opioid poisoning deaths by residence



Bureau of Health	Informatics DEPARTMENT OF HEALTH
Indicator group	Drug Poisoning Deaths
Indicator names	 a. Number of drug poisoning deaths by residence b. Number of drug poisoning deaths by occurrence c. Age-Adjusted Rate of drug poisoning deaths by residence – in development
Indicator definition	Deaths involving drug poisoning (sometimes called drug overdose) as primary cause of death. Drugs are defined as any medicine or substance that have a physiological effect when ingested, injected, or absorbed into the body. This indicator includes legal and illicit drugs. Alcohol poisonings are not explicitly included but may be present in the case of a multi-drug poisoning. Deaths that do not have a drug poisoning code as first-listed, or primary cause of death, are excluded from this indicator. Counted according to parish, region, or state of decedent residence (by residence) or of death occurrence (by occurrence).
Numerator	Deaths with the following ICD-10 codes in the primary cause of death field: X40-X44, X60-X64, X85, Y10-Y14
Denominator	All deaths occurring in the time period relevant to the measure (the past three months for quarterly, the twelve months for annually) Annual population estimate for the demographic group and state, region, or parish of interest.
Measures of Frequency	Annual count of deaths; Annual incidence of deaths (age-adjusted – standardized to the 2000 Standard Population); Quarterly count of deaths; Quarterly incidence of deaths (age-adjusted – standardized to the 2000 Standard Population)

Data Resour	ce	Lo	Louisiana Electronic Event Registration System (LEERS)											
		U	U.S. Census Bureau Population Estimates (Vintage 2017)											
Period for ca	ase	An	inual: cale	ndar	year (1 Januar	ry – 32	1 Dece	ember) k	based on	date of dea	th		
definition			<u>Quarter</u> : 1 January – 31 March, 1 April – 30 June, 1 July – 30 September, 1 October – 31 December based on date of death											
Geography/	Demo	graph	ic Group	Variat	tions									
Race	Whi	te		Blac	k		Oth	er		All Race	es	4		
Gender	М	F	F Total		F	Total	M F Total		Total	All Males	All Females	Age Groups	Total	
Geography														
State	(v)	(v)	٧	(v)	(v)	٧	(v)	(v)	٧	v	v	v	V	
Region			٧			٧			٧	v	٧	v	V	
Parish			v v v v v v									V		
Limitations of indicator					-			with a drug ot include d	•					

indicator	code in the primary cause of death field. These counts do not include deaths due to complications from drug addiction, nor do they include drug poisoning deaths that were coded with a different primary cause of death code (e.g. heart attack or brain injury). Numbers smaller than 5 are suppressed to protect confidentiality of the records.
Limitations of data	It is possible that an autopsy and toxicology are not done for a death, resulting in it not
resource	being marked as a drug poisoning death in LEERS



Bureau of Heal		norm	alics							Publ	ic Health			
Indicator group	כ	Opioid Poisoning Deaths												
Indicator name	es	a. N	lumber o	of opi	oid po	oisoning	death	s by ı	residenc	е				
		b. N	lumber o	of opi	oid po	oisoning	death	s by d	occurren	ce				
		c. A	ge-Adju	sted F	Rate o	f opioid	poisoi	ning c	leaths b	y residen	ce – in devel	lopment		
Indicator		Death	ns involv	ing op	pioid p	ooisonin	g whe	re th	e primar	y cause c	of death was	s listed as a	ı drug	
definition		poiso	ning (or	drug	overd	lose). Op	oioids	inclu	de natur	al and se	mi-synthetio	c opioids (e	e.g.	
		codei	codeine, morphine, oxycodone, hydrocodone, etc.), heroin, methadone, and other											
		synth	synthetic opioids (e.g. fentanyl, carfentanil, etc.). This indicator includes legal and illicit											
		drugs	drugs. Deaths that do not have a drug poisoning code as first-listed, or primary cause of											
			death, are excluded from this indicator, even if opioid codes are found in other underlyin											
			cause of death fields. Counted according to parish, region, or state of decedent residence											
		(by re	(by residence) or of death occurrence (by occurrence).											
Numerator		Deaths with the following ICD-10 codes in any cause of death field:												
			T40.0, T40.1, T40.2, T40.3, or T40.4											
		AND	one or m	nore t	he fol	lowing I	CD-10	code	es in the	primary	cause of dea	ath field:		
			X40->	x44, X	60-X6	64, X85, Y	Y10-Y	14						
Denominator		All de	aths occ	currin	g in th	ne time p	period	relev	ant to t	he measu	ire (the past	t three mo	nths for	
		quart	erly, the	e twel	ve mo	onths for	annu	ally)						
		Annu	al popul	ation	estim	ate for t	he de	mogr	aphic gr	oup and s	state, region	n, or parish	of	
		intere	est.											
Measures of		Annu	al count	of de	aths;	Annual i	incide	nce o	f deaths	(age-adj	usted – stan	dardized t	o the	
Frequency		2000	Standar	d Pop	ulatio	<i>n);</i> Quai	rterly	count	t of deat	hs; <i>Quart</i>	erly inciden	ce of deatl	ns (age-	
		adjus	ted – sta	andar	dized	to the 2	000 St	anda	rd Popul	lation)				
Data Resource		Louis	iana Eleo	ctroni	c Ever	nt Regist	ratior	n Syst	em (LEE	RS)				
		U.S. C	Census B	ureau	Рори	lation E	stimat	tes (V	intage 2	017)				
Period for case		Annual: calendar year (1 January – 31 December) based on date of death												
definition		<u>Quarter</u> : 1 January – 31 March, 1 April – 30 June, 1 July – 30 September, 1 October – 31												
		December based on date of death												
Geography/De	mog	raphic	Group \	/ariat	ions									
Race	Wh	ite	-	Blac	k		Othe	er		All Race	es	.		
Gender		-	T I			T I		-	T I	All	All	Age	Total	
	Μ	F	Total	М	F	Total	Μ	F	Total	Males	Females	Groups		
Geography														
State	(v)	(v)	v	(v)	(v)	v	(v)	(v)	v	v	V	V	v	
Region			٧		-	٧	-	-	٧	v	V	V	v	
Parish			٧			٧			٧	v	v	v	v	
Limitations of		lt is p	ossible t	hat n	ot all	drug poi	sonin	g dea	ths are r	narked w	vith a drug p	oisoning IC	CD code	
indicator								-			ude deaths d	-		
		comp	lications	s from	n drug	addictio	on, no	r do t	hey inclu	ude drug	poisoning d	eaths that	were	
		codeo	d with a	differ	ent pi	rimary c	ause c	of dea	th code	(e.g. hea	rt attack or	brain injur	y).	
		Num	pers sma	aller tl	nan 5	are supp	oresse	d to j	orotect o	confident	iality of the	records.		
Limitations of										done for	a death, re	sulting in it	not	
data resource		being	marked	l as a	drug p	poisonin	g deat	th in I	EERS					



					-						lic Health			
Indicator group			in Poisor	-										
Indicator name	es		lumber o		•	•								
			lumber o		•	-								
											<u>ce – in deve</u>			
Indicator			Deaths involving heroin poisoning where the primary cause of death was listed as a drug											
definition		•	poisoning (or drug overdose). Heroin is an illicit drug. Deaths that do not have a drug											
		•	poisoning code as first-listed, or primary cause of death, are excluded from this indicate											
			even if the heroin code is found in other underlying cause of death fields. Counted according to parish, region, or state of decedent residence (by residence) or of death											
			occurrence (by occurrence).											
Numerator			Deaths with the following ICD-10 code in any cause of death field:											
Numerator		Deati	T40.1				coue	iii ai	iy cause	UI UEatii	neiu.			
											C 1			
		AND				-			es in the	primary	cause of dea	ath field:		
						4, X85, Y								
Denominator					-				ant to t	he measu	ure (the past	three mo	nths for	
		•	erly, the					• •						
			• •	ation	estim	ate for t	he de	mogr	aphic gr	oup and s	state, regior	n, or parish	of	
		intere	est.											
Measures of								-			usted – stan			
Frequency				•		-	•				terly inciden	ce of deatl	ns (age-	
		adjus	ted – sta	Indaro	dized	to the 20	000 St	anda	rd Popul	ation)				
Data Resource		Louis	iana Elec	troni	c Ever	nt Regist	ratior	n Syst	em (LEEI	RS)				
		U.S. (Census B	ureau	Рори	lation Es	stima	tes (V	intage 2	017)				
Period for case	•	Annu	<u>al</u> : calen	dar ye	ear (1	January	-31	Decei	mber) ba	ased on d	late of death	า		
definition		Quar	ter: 1 Jar	nuary	-31 M	March, 1	April	- 30	June, 1 J	luly – 30	September,	1 October	-31	
			mber ba				•							
Geography/De	mog	raphic	Group \	/ariat	ions									
Race	Wh	-	•	Blac			Othe	er		All Race	25			
Gender										All	All	Age	Total	
	Μ	F	Total	М	F	Total	М	F	Total	Males	Females	Groups		
Geography														
State	(v)	(v)	v	(v)	(v)	v	(v)	(√)	v	v	٧	V	v	
Region		(-)	v	(2)	(1)	v	(*)	(-)	v	v	v	v	v	
Parish			v			v			v v	v	v v	v	v	
Limitations of		lt ic n		hat n	nt all 4	-	sonin	a des	-	-	v vith a drug p	-	-	
indicator								-			ude deaths o	-		
											poisoning d		were	
		-			-				-	-	rt attack or			
						-				-	iality of the	-	, ,	
Limitations of											, a death, re		not	
data resource			g marked											
		35	,				5							



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Indicator group	Synth	netic C	pioid Poi	isoniı	ng De	aths							
Indicator names	b. Nu	ımber	of synthe of synthe <i>sted Rate</i>	etic o	pioid	poisonii	ng dea	aths b	y occur		ence		
Indicator definition	Deaths involving synthetic opioid poisoning where the primary cause of death was listed as a drug poisoning (or drug overdose). Synthetic opioids include prescription drugs such as tramadol and fentanyl, and also illicit fentanyl analogues such as carfentanil, furanyl fentanyl, and acrylfentanyl, etc. This indicator includes legal and illicit drugs. Deaths that do not have a drug poisoning code as first-listed, or primary cause of death, are excluded from this indicator, even if the synthetic opioid code is found in other underlying cause of death fields. Counted according to parish, region, or state of decedent residence (by residence) or of death occurrence (by occurrence).												
Numerator	Deaths with the following ICD-10 code in any cause of death field: T40.4 AND one or more the following ICD-10 codes in the primary cause of death field: X40-X44, X60-X64, X85, Y10-Y14												
Denominator	All deaths occurring in the time period relevant to the measure (the past three months for quarterly, the twelve months for annually) Annual population estimate for the demographic group and state, region, or parish of interest.												
Measures of Frequency	Annual count of deaths; Annual incidence of deaths (age-adjusted – standardized to the 2000 Standard Population); Quarterly count of deaths; Quarterly incidence of deaths (age-adjusted – standardized to the 2000 Standard Population)												
Data Resource	Louisiana Electronic Event Registration System (LEERS) U.S. Census Bureau Population Estimates (Vintage 2017)												
Period for case definition	Quar	<u>ter</u> : 1		-31 M	March	, 1 April		-		on date o 30 Septe	f death ember, 1 Oc	tober – 31	
Geography/De	mogra	aphic (Group Va	riatio	ons								
Race	Whit	e		Blac	ck		Oth	er		All Race	es		
Gender	М	F	Total	М	F	Total	М	F	Total	All Males	All Females	Age Groups	Total
Geography State Region	(v)	(V)	√ √	(v)	(v)	√ √	(v)	(v)	√ √	√ √	√ √	V V	√ √
Parish													-
Limitations of indicator	the p from diffei	V V V V V V It is possible that not all drug poisoning deaths are marked with a drug poisoning ICD code in the primary cause of death field. These counts do not include deaths due to complications from drug addiction, nor do they include drug poisoning deaths that were coded with a different primary cause of death code (e.g. heart attack or brain injury). Numbers smaller than 5 are suppressed to protect confidentiality of the records.											
Limitations of data resource	It is p	ossibl		auto	opsy a	nd toxic	ology				ath, resultir	ng in it not	being



Bureau of Hea	itin ii	norm	alics							Publ	ic Health				
Indicator grou		Heroi	n & Synt	hetic	Opio	d Poisor	ning D	eaths							
Indicator name	es						-	•	-	•	residence				
						•	•	•	-	•	occurrence				
					-						leaths by re				
Indicator				-				•	•	-	e the primar				
definition						•	-		-		opioids inclu	•	•		
		-		analogues s											
		furanyl fentanyl, and acrylfentanyl, etc. This indicator includes legal and illicit drugs. Deaths that do not have a drug poisoning code as first-listed, or primary cause of death,													
			-												
		are excluded from this indicator, even if the synthetic opioid code is													
			nderlying cause of death fields. This indicator is not additive with the heroin and Inthetic opioid indicators. Counted according to parish, region, or state of decedent												
		residence (by residence) or of death occurrence (by occurrence).													
Numerator															
Numerator		Deaths with either or both of the following ICD-10 codes in any cause of death field:													
		T40.1, T40.4													
		AND													
		one o	or more t	he fo	llowir	ig ICD-10) code	es in t	he prim	ary cause	e of death fie	eld:			
		X40-X44, X60-X64, X85, Y10-Y14													
Denominator		All de	aths occ	urrin	g in th	e time p	eriod	l relev	ant to t	he measu	re (the past	three mo	nths for		
		All deaths occurring in the time period relevant to the measure (the past three months for quarterly, the twelve months for annually)													
		Annual population estimate for the demographic group and state, region, or parish of													
		interest.													
Measures of		Annu	al count	of de	aths;	Annual i	ncide	nce of	^f deaths	(age-adj	usted – stan	dardized t	o the		
Frequency								-			erly inciden				
		adjus	ted – sta	Indar	dized	to the 20	000 St	anda	rd Popul	lation)					
Data Resource		Louisiana Electronic Event Registration System (LEERS)													
		U.S. C	Census B	ureau	Рори	lation E	stima	tes (V	intage 2	017)					
Period for case	2	Annu	al: calen	dar ve	ear (1	Januarv	- 31	Decer	nber) ba	ased on d	ate of death	ath			
definition	_	<u>Annual</u> : calendar year (1 January – 31 December) based on date of death <u>Quarter</u> : 1 January – 31 March, 1 April – 30 June, 1 July – 30 September, 1 October – 31													
		Quarter: 1 January – 31 March, 1 April – 30 June, 1 July – 30 September, 1 October – 31 December based on date of death													
Geography/De	mog														
Race	Wh	•	Group	Blac			Oth	or		All Race	20	1	1		
Gender										All	All	Age	Total		
Centre	Μ	F	Total	М	F	Total	М	F	Total	Males	Females	Groups			
Geography															
State	(v)	(√)	V	(v)	(v)	V	(v)	(√)	V	v	V	v	v		
Region		(*/	v	(*)	("/	v v	(*)	("/	v v	v v	v v	v	v		
Parish										-		-	v v		
			V			V			V	V	<u>۷</u>	√	-		
Limitations of indicator		•				0.		•			ith a drug p	•	code U		
muicator		in the primary cause of death field. These counts do not include deaths due to complications from drug addiction, nor do they include drug poisoning deaths that were													
		•			-				•	-					
		coded with a different primary cause of death code (e.g. heart attack or brain injury). Numbers smaller than 5 are suppressed to protect confidentiality of the records.													
Limitations of											a death, re		not		
data resource		•	marked			• •					a ueatri, res		not		
uata resource		Dellig	markeu	asa	unna h		5 uca		LLINJ						