



North Carolina Overdose Surveillance Definitions

Non-fatal Emergency Department & Hospitalization Data:					Death Data:			
Diagnosis Codes					Cause of Death Codes			
Indicator	Case Definition	Intent	ICD-10-CM Codes		ICD-9-CM Codes		ICD-10 Codes	
			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Any Poisoning Overdose	Any poisoning overdose by medications, drugs, heavy metals, chemicals, or toxins	All	T36-T65	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64.0, T64.8, and T65.9 , a 5th character; for all others, a 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	960-989 : Poisoning by drugs, medicinals and biological substances, and gases	E850-E858, E860-E869 : Unintentional E950-E952 : Self-inflicted E962 : Assault E980-E982 : Undetermined E972 : Legal Intervention by Gas E979.6-.7, E979.9 : Terrorism	X40-X49 : Unintentional X60-X69 : Self-inflicted X85-90 : Assault Y10-Y19 : Undetermined	
		Unintentional	T36-T65	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64.0, T64.8, and T65.9 , a 5th character; for all others, a 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)		E850-E858, E860-E869 : Accidental poisoning by drugs, medicinal substances, and biologicals, other solid and liquid substances, gases, and vapors	X40-X49 : Unintentional	
		Self-Inflicted	T36-T65	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64.0, T64.8, and T65.9 , a 5th character; for all others, a 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)		E950-E952 : Self-inflicted poisoning	X60-X69 : Self-inflicted	
		Assault	T36-T65	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64.0, T64.8, and T65.9 , a 5th character; for all others, a 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)		E962 : Assault by poisoning	X85-90 : Assault	
		Undetermined	T36-T65	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, T49.9, T51.9, T52.9, T53.9, T54.9, T56.9, T57.9, T58.0, T58.1, T58.9, T59.9, T60.9, T61.0, T61.1, T61.9, T62.9, T63.9, T64.0, T64.8, and T65.9 , a 5th character; for all others, a 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)		E980-E982 : Undetermined poisoning by solid or liquid substances, gases in domestic use, other gases	Y10-Y19 : Undetermined	

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			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Medication and Drug Overdose	Any overdose by medications, drugs, or biological substances	All	T36-T50	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 , a 5th character; for all others, a 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	960-979: Poisoning by drugs and medicinal, and biological substances	E850-E858: Unintentional E950.0-E950.5: Self-inflicted E962.0: Assault E980.0-E980.5: Undetermined	X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	
		Unintentional	T36-T50	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 , a 5th character; for all others, a 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)		E850-E858: Accidental poisoning by drugs, medicinal substances, and biologicals	X40-X44: Unintentional	
		Self-Inflicted	T36-T50	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 , a 5th character; for all others, a 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)		E950.0-E950.5: Self-inflicted poisoning by solid or liquid substance	X60-X64: Self-inflicted	
		Assault	T36-T50	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 , a 5th character; for all others, a 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)		E962.0: Assault by poisoning by drugs and medicinal substances	X85: Assault	
		Undetermined	T36-T50	For T36.9, T37.9, T39.9, T41.4, T42.7, T43.9, T45.9, T47.9, and T49.9 , a 5th character; for all others, a 6th character of 4: Undetermined intent 7th character of A or missing (reflects initial encounter, active treatment)		E980.0-E980.5: Undetermined poisoning by solid or liquid substances	Y10-Y14: Undetermined	

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			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Opioid Overdose	Broadest category of opioid overdose; includes opium, prescription opioids, heroin, other synthetic narcotics, and other and unspecified narcotics	All	T40.0-T40.4, T40.6	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	965.0: Poisoning by opiates and related narcotics	E850.0-E850.2: Unintentional poisoning by heroin, methadone, other opiates and related narcotics	X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T40.0: Poisoning by opium T40.1: Poisoning by heroin T40.2: Poisoning by other opioids T40.3: Poisoning by methadone T40.4: Poisoning by other synthetic narcotics T40.6: Poisoning by other and unspecified narcotics
		Unintentional	T40.0-T40.4, T40.6	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)		E850.0-E850.2: Unintentional poisoning by heroin, methadone, other opiates and related narcotics	X40-X44: Unintentional	T40.0: Poisoning by opium T40.1: Poisoning by heroin T40.2: Poisoning by other opioids T40.3: Poisoning by methadone T40.4: Poisoning by other synthetic narcotics T40.6: Poisoning by other and unspecified narcotics
		Self-Inflicted	T40.0-T40.4, T40.6	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T40.0: Poisoning by opium T40.1: Poisoning by heroin T40.2: Poisoning by other opioids T40.3: Poisoning by methadone T40.4: Poisoning by other synthetic narcotics T40.6: Poisoning by other and unspecified narcotics
		Assault	T40.0-T40.4, T40.6	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T40.0: Poisoning by opium T40.1: Poisoning by heroin T40.2: Poisoning by other opioids T40.3: Poisoning by methadone T40.4: Poisoning by other synthetic narcotics T40.6: Poisoning by other and unspecified narcotics
		Undetermined	T40.0-T40.4, T40.6	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T40.0: Poisoning by opium T40.1: Poisoning by heroin T40.2: Poisoning by other opioids T40.3: Poisoning by methadone T40.4: Poisoning by other synthetic narcotics T40.6: Poisoning by other and unspecified narcotics

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			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Commonly Prescribed Opioid Poisoning	Prescription opioid overdose; includes methadone and other prescription opioids	All	T40.2-T40.3	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	965.02: Poisoning by methadone 965.09: Poisoning by other opiates and related narcotics	E850.1-E850.2: Unintentional poisoning by methadone, and other opiates and related narcotics	X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T40.2: Poisoning by other opioids T40.3: Poisoning by methadone
		Unintentional	T40.2-T40.3	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)		E850.1-E850.2: Unintentional poisoning by methadone, and other opiates and related narcotics	X40-X44: Unintentional	T40.2: Poisoning by other opioids T40.3: Poisoning by methadone
		Self-Inflicted	T40.2-T40.3	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T40.2: Poisoning by other opioids T40.3: Poisoning by methadone
		Assault	T40.2-T40.3	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T40.2: Poisoning by other opioids T40.3: Poisoning by methadone
		Undetermined	T40.2-T40.3	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T40.2: Poisoning by other opioids T40.3: Poisoning by methadone

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			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Methadone Overdose	Methadone overdose	All	T40.3	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	965.02: Poisoning by methadone	E850.1: Unintentional poisoning by methadone	X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T40.3: Poisoning by methadone
		Unintentional	T40.3	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)		E850.1: Unintentional poisoning by methadone	X40-X44: Unintentional	T40.3: Poisoning by methadone
		Self-Inflicted	T40.3	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T40.3: Poisoning by methadone
		Assault	T40.3	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T40.3: Poisoning by methadone
		Undetermined	T40.3	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T40.3: Poisoning by methadone

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Indicator	Case Definition	Intent	ICD-10-CM Codes		ICD-9-CM Codes		ICD-10 Codes	
			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Other Synthetic Narcotic Overdose	Other synthetic narcotic overdose; most cases due to illicitly manufactured fentanyl and fentanyl analogues, this category may also include prescription fentanyl and other synthetic narcotics like Tramadol	All	T40.4	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T40.4: Poisoning by other synthetic narcotics
		Unintentional	T40.5	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)			X40-X44: Unintentional	T40.4: Poisoning by other synthetic narcotics
		Self-Inflicted	T40.6	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T40.4: Poisoning by other synthetic narcotics
		Assault	T40.7	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T40.4: Poisoning by other synthetic narcotics
		Undetermined	T40.8	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T40.4: Poisoning by other synthetic narcotics

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			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Heroin Overdose	Heroin overdose	All	T40.1	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	965.01: Poisoning by heroin	E850.0: Unintentional poisoning by heroin	X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T40.1: Poisoning by heroin
		Unintentional	T40.1	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)		E850.0: Unintentional poisoning by heroin	X40-X44: Unintentional	T40.1: Poisoning by heroin
		Self-Inflicted	T40.1	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T40.1: Poisoning by heroin
		Assault	T40.1	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T40.1: Poisoning by heroin
		Undetermined	T40.1	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T40.1: Poisoning by heroin

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			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Cocaine Overdose	Cocaine overdose	All	T40.5	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	ICD-9-CM Codes for Cocaine currently under review		X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T40.5: Poisoning by cocaine
		Unintentional	T40.5	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)			X40-X44: Unintentional	T40.5: Poisoning by cocaine
		Self-Inflicted	T40.5	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T40.5: Poisoning by cocaine
		Assault	T40.5	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T40.5: Poisoning by cocaine
		Undetermined	T40.5	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T40.5: Poisoning by cocaine

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			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Psychostimulant Overdose	Overdose by psychostimulants with abuse potential; includes psychostimulants like methamphetamine, amphetamines (Adderall, Ritalin, and others), and ecstasy	All	T43.6	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	969.7: Poisoning by psychostimulants	E854.2: Unintentional poisoning by psychostimulants	X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T43.6: Poisoning by psychostimulants with abuse potential
		Unintentional	T43.6	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)		E854.2: Unintentional poisoning by psychostimulants	X40-X44: Unintentional	T43.6: Poisoning by psychostimulants with abuse potential
		Self-Inflicted	T43.6	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T43.6: Poisoning by psychostimulants with abuse potential
		Assault	T43.6	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T43.6: Poisoning by psychostimulants with abuse potential
		Undetermined	T43.6	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T43.6: Poisoning by psychostimulants with abuse potential

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			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Benzodiazepine Overdose	Benzodiazepine overdose; familiar names include Valium and Xanax	All	T42.4	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)	969.4: Poisoning by benzodiazepine-based tranquilizers	E853.2: Unintentional poisoning by benzodiazepine-based tranquilizers	X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T42.4: Poisoning by benzodiazepines
		Unintentional	T42.4	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)		E853.2: Unintentional poisoning by benzodiazepine-based tranquilizers	X40-X44: Unintentional	T42.4: Poisoning by benzodiazepines
		Self-Inflicted	T42.4	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T42.4: Poisoning by benzodiazepines
		Assault	T42.4	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T42.4: Poisoning by benzodiazepines
		Undetermined	T42.4	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T42.4: Poisoning by benzodiazepines

Data sources: Emergency Department Data-The North Carolina Disease Event Tracking and Epidemiologic Tool (NCDETECT); Hospital Data- North Carolina Healthcare Association; Death Data- North Carolina State Center for Health Statistics, Vital Statistics, Death Certificate Data. For more information about the ICD-10-CM coding transition, please visit <https://www.injuryfreenc.ncdhhs.gov/DataSurveillance/ICD-10-Transition-1pg-Summary.pdf>



North Carolina Overdose Surveillance Definitions

Non-fatal Emergency Department & Hospitalization Data:						Death Data:		
Diagnosis Codes						Cause of Death Codes		
Indicator	Case Definition	Intent	ICD-10-CM Codes		ICD-9-CM Codes		ICD-10 Codes	
			Any Mention of Diagnosis (Dx)		Any Diagnosis (Dx)	External Cause (Ecode)	Primary Cause of Death (COD1)	Contributing Cause of Death (COD2-COD21)
Antiepileptic and Sedative-Hypnotic Drug Overdose	Overdose by antiepileptic and sedative-hypnotic drugs; familiar names include Ambien and Gabapentin	All	T42.6	A 6th character of 1: Accidental (unintentional) 2: Intentional self-harm 3: Assault 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			X40-X44: Unintentional X60-X64: Self-inflicted X85: Assault Y10-Y14: Undetermined	T42.6: Poisoning by antiepileptic and sedative-hypnotic drugs
		Unintentional	T42.6	A 6th character of 1: Accidental (unintentional) 7th character of A or missing (reflects initial encounter, active treatment)			X40-X44: Unintentional	T42.6: Poisoning by antiepileptic and sedative-hypnotic drugs
		Self-Inflicted	T42.6	A 6th character of 2: Intentional self-harm 7th character of A or missing (reflects initial encounter, active treatment)			X60-X64: Self-inflicted	T42.6: Poisoning by antiepileptic and sedative-hypnotic drugs
		Assault	T42.6	A 6th character of 3: Assault 7th character of A or missing (reflects initial encounter, active treatment)			X85: Assault	T42.6: Poisoning by antiepileptic and sedative-hypnotic drugs
		Undetermined	T42.6	A 6th character of 4: Undetermined intent; 7th character of A or missing (reflects initial encounter, active treatment)			Y10-Y14: Undetermined	T42.6: Poisoning by antiepileptic and sedative-hypnotic drugs

Data sources: Emergency Department Data-The North Carolina Disease Event Tracking and Epidemiologic Tool (NCDETECT); Hospital Data- North Carolina Healthcare Association; Death Data- North Carolina State Center for Health Statistics, Vital Statistics, Death Certificate Data. For more information about the ICD-10-CM coding transition, please visit <https://www.injuryfreenc.ncdhhs.gov/DataSurveillance/ICD-10-Transition-1pg-Summary.pdf>