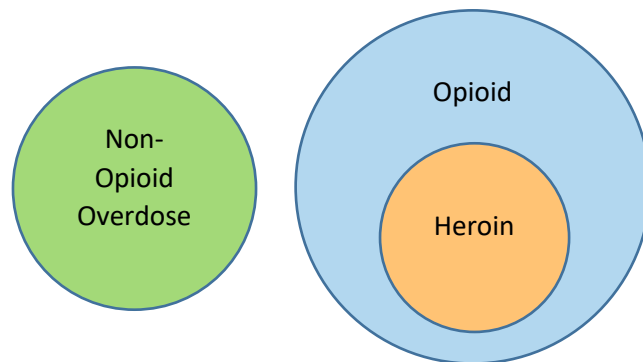


Biospatial Summary of Virginia Overdose Case Definitions for Emergency Medical Services (EMS)

v2.0 (April 15, 2019)

Case Definition: Using data from the patient care narrative (eNarrative.01); provider’s primary impression (eSituation.11); medication given (eMedications.03); and response to medication (eMedications.07), the Virginia Office of EMS groups overdose related EMS responses into three categories: Suspected Heroin Overdose, Suspected Opioid Overdose, and Suspected Other (non-Opioid) Overdose. The relationship between these categories is illustrated in the Venn diagram below.



Variable Definitions

- **NI:** Naloxone improvement
 1. True if at least one instance of improved response to naloxone administration; False otherwise
 2. Note that **NI**=False if:
 - medication administration information is not available in the record
 - naloxone administration was not documented
 - naloxone administration was documented but with unknown response to medication

- **NUW:** Naloxone unchanged/worse
 1. True if at least one instance of unchanged/worse response to naloxone administration; False otherwise
 2. Note that **NUW**=False if:
 - medication administration information is not available in the record
 - naloxone administration was not documented
 - naloxone administration was documented but with unknown response to medication

- Heroin indicators
 1. **HI:** True if primary impression indicates heroin overdose as follows; False otherwise.
 - ICD-10 code starts with:
 - T40.1 (Poisoning by and adverse effect of heroin)
 2. **HN:** True if narrative indicates heroin overdose as follows; False otherwise
 - Includes any of “heroin” (and common misspellings), “speedball”, “spheroin”

- **OPI:** Opioid indicators in primary impression. True if primary impression indicates opioid overdose as follows; False otherwise.
 1. ICD-10 code starts with:
 - F11 (Opioid related disorders)
 - T40.0 (Poisoning by, adverse effect of and underdosing of opium)
 - T40.2 (Poisoning by, adverse effect of and underdosing of opioids)
 - T40.3 (Poisoning by, adverse effect of and underdosing of methadone)
 - T40.4 (Synthetic narcotics)
 - T40.6 (Poisoning by, adverse effect of and underdosing of other and unspecified narcotics)

- **ODI:** General overdose indicators in primary impression. True if primary impression indicates general overdose as follows; False otherwise.
 1. ICD-10 code starts with:
 - F14 (Cocaine related disorders)
 - T40.5 (Poisoning by, adverse effect of and underdosing of cocaine)
 - T40.7 (Poisoning by, adverse effect of and underdosing of cannabis)
 - T40.8 (Poisoning by and adverse effect of lysergide [LSD])
 - T40.9 (Poisoning by, adverse effect of and underdosing of other and unspecified psychodysleptics)
 - Other codes in the range T36-T50 that are not included elsewhere
 - Other codes in the range F12-F16 and F18-F19 that are not included elsewhere

Overdose Classification Logic

