

Table 1. Chief complaint and discharge diagnosis search terms for suspected all drug overdose (v2)

Variable	Automatic inclusion?	Specific terms
<i>Inclusions</i>		
Discharge Diagnosis – ICD-9-CM poisoning	Yes	960-979; E850-E858; and E980.0-E980.5
Discharge Diagnosis – ICD-10-CM poisoning	Yes	T36-T50 (only 1 and 4 for intent and A for first encounter; no underdosing or adverse effect) <i>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</i>
Discharge Diagnosis – ICD-10-CM opioid abuse/dependence/use with intoxication	Yes	F11.12, F11.120, F11.121, F11.122, F11.129, F11.22, F11.220, F11.221, F11.222, F11.229, F11.92, F11.920, F11.921, F11.922, F11.929 (also included terms with no period, e.g., “F1112”)
Discharge Diagnosis – SNOMED	Yes	295121001, 295597003, 295487009, 295334008, 295313001, 295593004, 295799003, 295117008, 295495008, 295332007, 295808006, 295123003, 295587007, 295314007, 295134000, 295910009, 296295001, 296412004, 296529003, 296334003, 296921006, 296513006, 296389000, 296845006, 296499009, 296922004, 296825003, 296943003, 296896008, 296853003, 296974001, 296450005, 296478006, 296402006, 296970005, 296509004, 296503003, 296425007, 296811004, 296948007, 297006008, 297094003, 297065005
Chief complaint – narcan or naloxone	Yes	Naloxone (narcan, evzio)
Chief complaint – overdose term	Yes	Overdose (overdose, overdoes, averdose, averdoes, over does, overose)
Chief complaint – overdose term	No, must use in combination with drug term	Poisoning (poison) Nodding off Snort Ingestion (ingest, inject) Intoxication (intoxic) Unresponsive (unresponsiv) Loss of consciousness (syncope, syncope) Shortness of breath (SOB), short of breath Altered mental status (AMS)
Chief complaint – drug term	No, must use in combination with overdose term	Drug, pill, poly drug/substance Stimulants – Cocaine, Amphetamine, Methamphetamine... Benzodiazepines – Alprazolam, Clonazepam, Diazepam, Lorazepam, Xanax.... Hallucinogens - Phencyclidine (PCP), MDMA, Ecstasy, Lysergic acid diethylamide (LSD)...

		Opioids – Buprenorphine, Codeine, Fentanyl, Heroin, Hydrocodone, Hydromorphone, Methadone, Morphine, Oxycodone, Oxymorphone, kratom, loperamide... Marijuana, cannabinoids and synthetic cannabinoids... Cathinones or bath salts...Ketamine...Gabapentin...Gamma hydroxybutyrate (GHB)...Sleep sedatives (see below for all brand names/slang included)
Discharge Diagnosis – ICD-10-CM opioid abuse/dependence/use	No, must use in combination with overdose term	F11.10, F11.90, F11.20
<i>Exclusions</i>		
Chief complaint	Exclude	See list below in ESSENCE code