

Supplementary Appendix 1: Definitions and data sources for all pathways of overdose events, 2015–2017

Data source	Definition of record of overdose
BC Coroner's Service (BCCS)	Open and closed cases of accidental and undetermined illicit drug-related overdose deaths in British Columbia, Canada
Canadian Vital Statistics Deaths Database	ICD-10 codes Underlying cause of death (UCOD) starts with T40.0 (poisoning from opium), T40.1 (poisoning from heroin), T40.2, T40.3, T40.4, T40.6 (T40.2-T40.6 poisoning from other opioids), or Contributing cause of death (CCOD) starts with T40.1 (poisoning from heroin), T40.2, T40.3, T40.4, T40.6 (T40.2-T40.6 poisoning from other opioids). Excluded cases where ICD codes began with J (indicating medical assistance in dying).
BC Emergency Health Services (EHS)	Reporting from Patient Care Information System - Naloxone administered by paramedics or Recreational drug OD impression code or CARD 9 (Cardiac or respiratory arrest/death), 23 (overdose/poisoning (ingestions)), 26 (sick), 31 (unconscious), Cardiac arrest impression code and CARD 23 (overdose/poisoning (ingestion)) Reporting from Siren - Naloxone administered, 'Opioid Related' or 'Opioid Related / OD' impression code, Cardiac Arrest and CARD 23 (overdose/poisoning (ingestion))
National Ambulatory Care Reporting System (NACRS)	ICD-10 code T40.0 (poisoning from opium), T40.1 (poisoning from heroin), T40.2, T40.3, T40.4, T40.6 (T40.2-T40.6 poisoning from other opioids) in diagnostic code fields
Case-based reporting by Emergency Department (ED)	Case-based reporting based on physician's assessment of clinical symptoms indicated opioid overdose, regardless of patient's self-reported drug use. Used for Interior Health Authority, Vancouver Island Health Authority, and Northern Health Authority.
Medical Services Plan (MSP)	If any diagnostic code was ICD-9: 965.0 (poisoning by opiates and related narcotics) or ICD-10: E850.0 965.0 (poisoning by opiates and related narcotics) or E850.0 (accidental poisoning by opiates and related narcotics)
Drug Poison and Control Centre (DPIC)	Any call with an AAPCCGenCode indicative of an opioid, with or without the involvement of other drugs/alcohol: 37701–05, 37707–8, 37784, 41700, 72700, 72702, 72704, 77810, 200625, 200628, 200630, 200638, 201063, 201131
Discharge Abstract Database (DAD)	ICD-10 code T40.0 (poisoning from opium), T40.1 (poisoning from heroin), T40.2, T40.3, T40.4, T40.6 (T40.2-T40.6 poisoning from other opioids) and corresponding diagnosis type as M (most responsible diagnosis), 2 (post-admit comorbidity), W (service transfer), X (service transfer), Y (service transfer), 6 (proxy for most responsible diagnosis) in the diagnostic code fields

