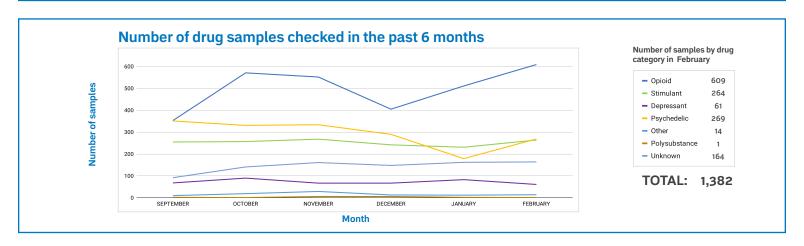
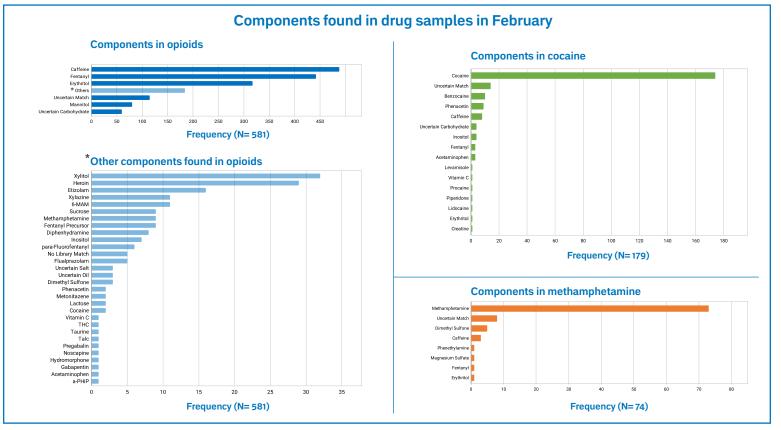
Key Findings

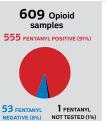
- The percentage of opioids testing positive for benzodiazepines across BC drug checking sites (37.9%) rose dramatically to the highest point since the start of the project. The true rate may be higher than reported here because etizolam, the predominant benzodiazepine in expected opioids, may be missed by drug checking technologies.
- There may be an ongoing shift from benzodiazepine-adulteration of opioids with etizolam to other benzodiazepines such as flualprazolam, flubromazolam, and flubromazepam, which are better detected with benzodiazepine test strips and cause the overall detection numbers to increase. These drugs are potent sedatives which can cause blackouts, memory loss, and make it difficult to tell when someone is experiencing opioid toxicity.
- Nitazene opioids (benzimidazole) are increasingly being detected by point-of-care and confirmatory methods. Metonitazene, isotonitazene, etodesnitazene, and protonitazene have been identified in samples submitted as opioids.
- 22 non-opioid drugs tested positive for fentanyl this month, the most ever in a single month. These included samples of cocaine and crack cocaine, methamphetamine, MDMA, and benzodiazepines.
- The median fentanyl concentration of opioids checked was 13.3%, increasing from 12.7% last month. See page 3 for more detailed results.

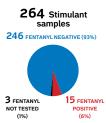


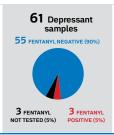


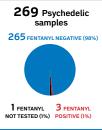


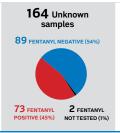
Number of samples tested with fentanyl present

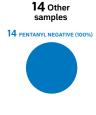












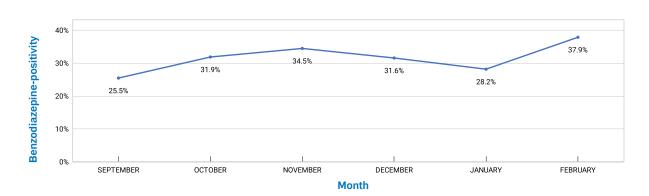




PUBLIC HEALTH NOTIFICATIONS

Date & Location	Expected Drug	Drugs Detected	Fentanyl Strip	Benzo Strip	Area Purchased	Alert Message
February 11 2022 ASK Wellness Merritt	Crack cocaine White granules with coloured flecks	Cocaine base, Caffeine, Erythritol, Fentanyl	Positive	Negative	Merritt	There is a risk of opioid toxicity when stimulants are contaminated with fentanyl.
February 15 2022 ASK Wellness Kamloops	Down or Fentanyl Purple pebbles	Caffeine, Fentanyl, Erythritol	Positive	Negative	Kamloops	Higher than normal concentration of fentanyl in a sample poses a risk of opioid toxicity.

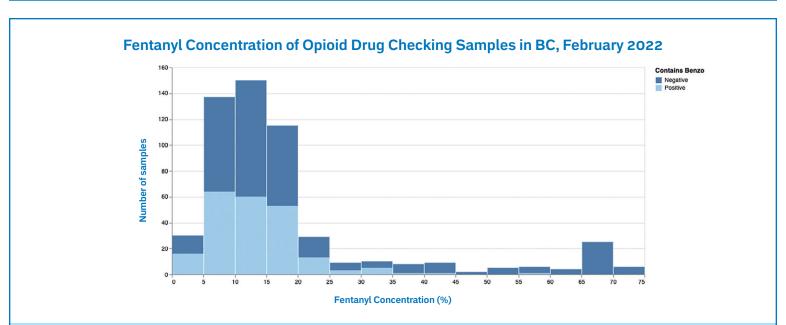
Percentage of opioids testing positive for benzodiazepines in the past 6 months



During the month of February, 37.9% of expected opioid samples tested positive for benzodiazepines in our partner sites around BC (231 samples of 609 checked). Opioid samples are checked for benzodiazepine-positivity using BTNX test strips and the FTIR spectrometer. The results presented here are derived from both of these technologies and are presumptive until confirmed by a laboratory.

Fentanyl Quantification

The charts below summarize fentanyl concentrations of fentanyl-positive opioid samples brought for drug checking in British Columbia. Fentanyl concentrations were determined using FTIR and a calibrated fentanyl quantification model. Technicians at point-of-care may provide an estimated fentanyl quantification, generally an approximate rage of fentanyl percentage in a mixture, but these results were calculated separately (post hoc) using the model for the purpose of this report.

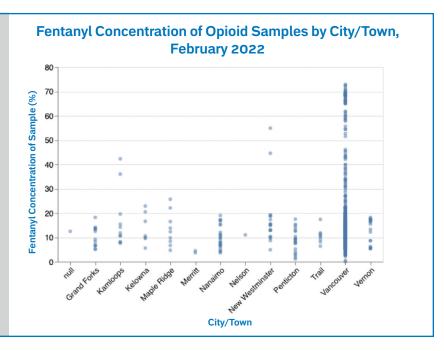


Two-thirds of opioids checked (66.5%) have a concentration of fentanyl between 5% and 15%, but 25% of samples are above 15% fentanyl-by-weight, and concentrations can approach 75% of the mixture. The median fentanyl concentration of all samples was 13.3%, up from 12.7% last month. When purchasing fentanyl from an unregulated drug supply, it is often impossible to know what the fentanyl concentration of the drugs is. Drug checking can help, but point-of-care quantification results are provided in a range since it's hard to be precise with the available technologies. For example, a technician might say, "This sample contains caffeine, mannitol, and between 5% and 10% fentanyl."

Drug supplies vary by location in the province. While samples from smaller communities appear to be more consistent, it is important to remember that this is a small number of drugs checked in each city or town. It is also important to note that these locations include only those participating in the BCCSU Drug Checking Project that provide data from FTIR spectroscopy. These numbers may not represent the broader supply or the supply in other settings.

It is very important to remember that the results presented here are fentanyl, not fentanyl analogues like carfentanil. Carfentanil is a potent opioid that is often present below the detection limit of the spectrometer and is therefore missed by point-of-care drug checking technologies. Your drug checking technician can explain the limitations in detail when you get your drugs checked, but always take additional harm reduction precautions, like using at an OPS if available, because potent opioids may be presented and go undetected.

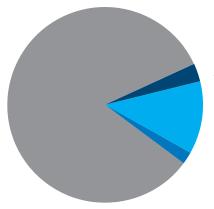
If you have any questions about the results, please email us at <u>drugchecking@bccsu.ubc.ca</u>.





Total #: 1,382

1,155: Vancouver Coastal Health region (83%)



36: Fraser Health region (3%)

163: Interior Health region (12%)

28: Vancouver Island Health Region (2%)

Number of samples that matched expectation

using FTIR/test strip drug checking

EXPECTED DRUG: Depressant

61 Samples Tested



Matched: 27 Did not match: 33 Match not determined: 1

EXPECTED DRUG: Unknown

164 Samples Tested



Match not determined: 164

EXPECTED DRUG:

Psychedelic

269 Samples Tested



Matched: 224 Did not match: 44 Match not determined: 1

EXPECTED DRUG:

Opioid

609 Samples Tested



Matched: 566 Did not match: 31 Match not determined: 12 **EXPECTED DRUG:**

Stimulant

264 Samples Tested



Matched: 249 Did not match: 14 Match not determined: 1 **EXPECTED DRUG:**

Other

14 Samples Tested



Matched: 5

Did not match: 1

Match not determined: 8

EXPECTED DRUG:

Polysubstance

1 Sample Tested

Matched: 1

Total

1,382 Samples Tested



Matched: 1,072 Did not match: 123

Match not determined: 187

Please note that the presence of the expected substance does not imply purity, as samples frequently contain adulterating cutting agents

Number of opioid samples that matched expectation

using FTIR/test strip drug checking

EXPECTED DRUG: Fentanyl

203 Samples Tested



Matched: 169 Did not match: 7

EXPECTED DRUG:

346 Samples Tested

Down

EXPECTED DRUG: Heroin

31 Samples Tested



Matched: 17 Did not match: 13 Match not determined: 1 EXPECTED DRUG: Opium

3 Samples Tested

EXPECTED DRUG:

Fentanyl and Heroin

1 Samples Tested

Matched: 2 Did not match: 1

Did not match: 1 **EXPECTED DRUG:**

Other Opioid

2 Samples Tested

EXPECTED DRUG: Pharmaceutical

23 Samples Tested

Match not determined: 11



Matched: 8 Did not match: 4

Matched: 2

Matched: 342 Did not match: 4

Total

609 Samples Tested



Matched: 567 Did not match: 30

Match not determined: 12

Please note that the presence of the expected substance does not imply purity, as samples frequently contain adulterating cutting agents. 'Down' can refer to any opioid drug present in any amount.

Data represented here are collected from our partner sites across the province. Drug samples are tested using the Fourier Transform Infrared (FTIR) spectrometer in combination with fentanyl test strips and benzodiazapine test strips.

There is 5% fentanyl detection limit on the FTIR spectrometer (McCrae, 2019), and a drug check on any given sample consists of both the FTIR and BTNX fentanyl immunoassay test strip testing done in combination. When applicable, BTNX benzodiazepine immunoassay test strips are also used.

BCCSU gratefully acknowledges the contributions of the following partners:











































