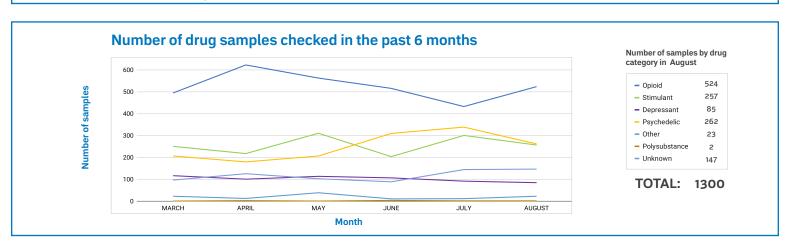
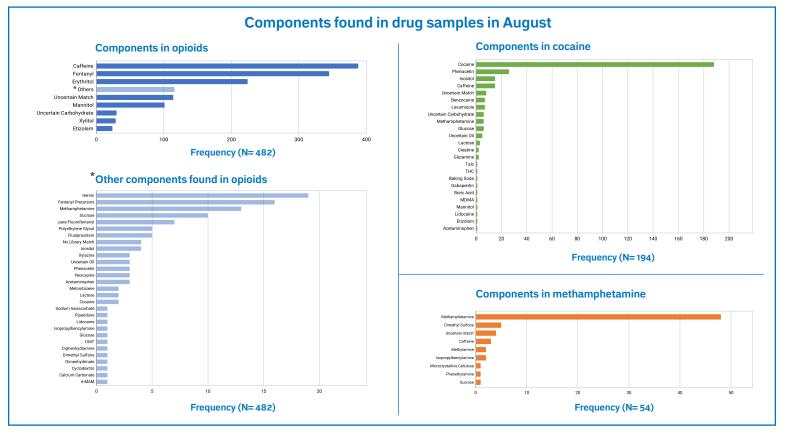
Key Findings

- The percentage of opioids testing positive for benzodiazepines across BC drug checking sites (25%) has increased to the highest level since the start of this 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.
- In samples sent for confirmatory testing, carfentanil was detected in samples expected to be fentanyl and *down*. When carfentanil is detected, fentanyl is detected alongside it over half of the time. Fentanyl test strips may detect carfentanil if the concentration is high enough, but cannot differentiate it from regular fentanyl.
- Fentanyl was detected in 6 non-opioid drug samples: 4 in Vancouver Coastal Health, 1 in Interior Health, and 1 in Island Health.
- The median fentanyl concentration of opioids checked was 12.7%, increasing from 11.5% last month. See page 3 for more detailed results on fentanyl concentrations.





3 FENTANYL

1 FENTANYL

Drug Checking in British Columbia

39 FENTANYL

2 FENTANYL

22 FENTANYL NEGATIVE

2 FENTANYL POSITIVE

Number of samples tested with fentanyl present 147 Unknown 85 Depressant 262 Psychedelic 23 Other 2 Polysubstance 257 Stimulant samples samples samples samples samples samples 253 FENTANYL NEGATIVE (98%) 106 FENTANYL NEGATIVE (72%) 82 FENTANYL NEGATIVE (97%) 255 FENTANYL NEGATIVE (97%) 1 FENTANYL NOT TESTED (4%)

5 FENTANYL



524 Opioid

samples

479 FENTANYL POSITIVE

PUBLIC HEALTH NOTIFICATIONS

2 FENTANYL

2 FENTANYL

Date & Location	Expected Drug	Drugs Detected	Fentanyl Strip	Benzo Strip	Area Purchased	Alert Message
August 30, 2021 Get Your Drugs Tested Vancouver	2C-B	Dimethyl Sulfone, 3-MeO-PCP, MDMA, Uncertain match	Positive	Negative	Vancouver	3-MeO-PCP can cause psychosis in high doses and fentanyl can cause opioid toxicity especially for opioid-naïve individuals.
August 24, 2021 Get Your Drugs Tested Vancouver	Down (Unknown Opioid)	Flualprazolam, Fentanyl	Positive	Positive	Vancouver	Flualprazolam is a potent benzodiazepine that may cause drowsiness, especially when consumed unintentionally.
August 11, 2021 Get Your Drugs Tested Vancouver	Cocaine	Etizolam	Negative	Positive	Vancouver	Etizolam is a benzodiazepine derivative that may cause drowsiness, especially when consumed unintentionally.



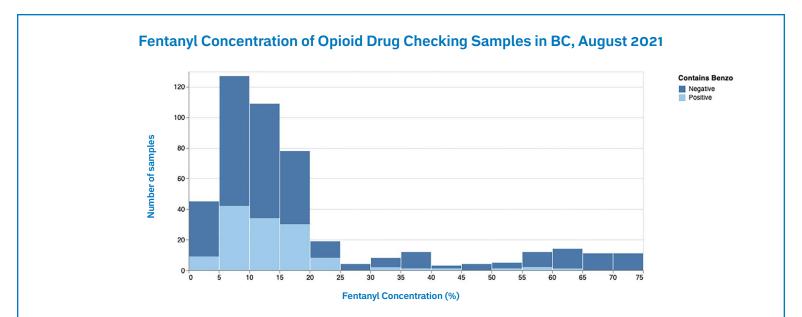


During the month of August, **25.2%** of expected opioid samples tested positive for benzodiazepines in our partner sites around BC **(132 samples of 524 checked)**. Opioid samples are checked for benzodiazepine-positivity using BTNX test strips and the FTIR spectrometer. The results presented here are derived from both of these technologies and are presumptive until confirmed by a laboratory.

Fentanyl Quantification

Since May 2021, the BCCSU Drug Checking Project has included two visualizations of fentanyl quantification data in the monthly public health reports. The visualizations highlight the range in the concentration of fentanyl in unregulated opioids.

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 (Tobias et al., 2021; Tobias & Ti, 2021). 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.

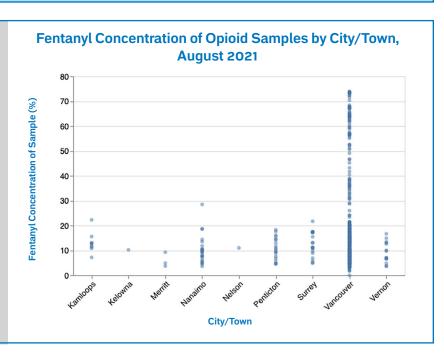


While over half of all samples fall between 5% and 15% concentration of fentanyl, over a third of samples are above 15% fentanyl-by-weight, and concentrations can approach 80% of the mixture. The median fentanyl concentration of all samples was 12.7%, up from 11.9% last month. When purchasing fentanyl 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.

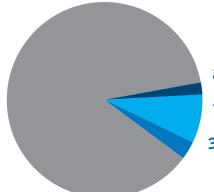
If you have any questions about the results, please email us at **drugchecking@bccsu.ubc.ca**.





Total #: 1,300

1,131: Vancouver Coastal Health region (87%)



22: Fraser Health region (2%)

110: Interior Health region (8%)

37: Vancouver Island Health Region (3%)

Number of samples that matched expectation

using FTIR/test strip drug checking

EXPECTED DRUG: Depressant

85 Samples Tested



Matched: 57 Did not match: 26 Match not determined: 2

EXPECTED DRUG: Unknown

147 Samples Tested



Match not determined: 147

EXPECTED DRUG:

Psychedelic

262 Samples Tested



Matched: 216 Did not match: 38 Match not determined: 8 **Stimulant** 257 Samples Tested

EXPECTED DRUG:



Matched: 241 Did not match: 14 Match not determined: 2 **EXPECTED DRUG:**

Other

23 Samples Tested



Matched: 13

Did not match: 2 Match not determined: 8

EXPECTED DRUG:

Polysubstance

2 Sample Tested

Matched: 1 Did not match: 1

EXPECTED DRUG:

Opioid

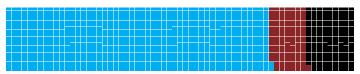
524 Samples Tested



Matched: 455 Did not match: 58 Match not determined: 11

Total

1,300 Samples Tested



Matched: 983 Did not match: 139

Match not determined: 178

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

228 Samples Tested

Matched: 224 Did not match: 4

EXPECTED DRUG:

Down

209 Samples Tested

Matched: 200 Did not match: 8 Match not determined: 1 EXPECTED DRUG: Heroin

43 Samples Tested

Matched: 15 Did not match: 28

EXPECTED DRUG:

Pharmaceutical

39 Samples Tested

Matched: 16 Did not match: 14 Match not determined: 9 EXPECTED DRUG:

Fentanyl and Heroin

2 Samples Tested

Matched: 1

Matched: 1

Did not match: 1

EXPECTED DRUG: Opium

1 Samples Tested

EXPECTED DRUG:

Other Opioid

2 Samples Tested

Did not match: 2

Total

524 Samples Tested



Matched: 457 Did not match: 57

Match not determined: 10

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:

Santé









































