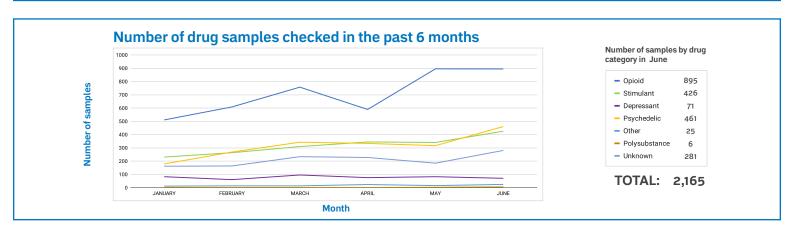
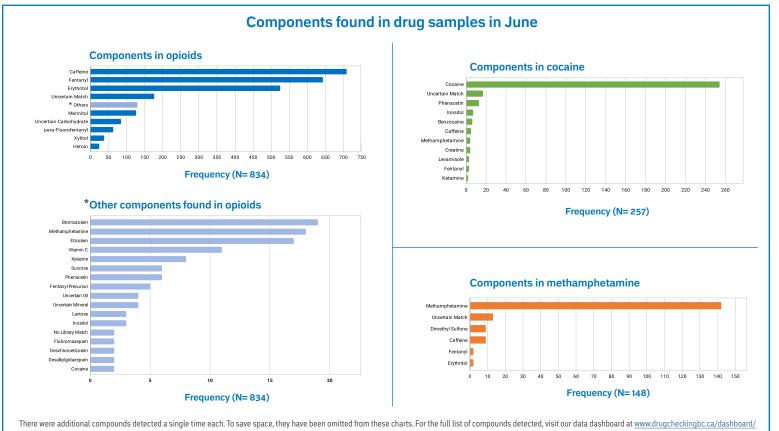
#### **Key Findings**

- June 2022 had the most ever drug checks in the province with 2,165. The Northern Health Region has drug checking now available in Prince George with POUNDS and Terrace with the Intensive Case Management Team.
- The percentage of opioids testing positive for benzodiazepines across BC drug checking sites (38.7%) fell slightly from the record high last month to the second-highest level ever detected in a month. As always, the true rate may be higher than reported here because etizolam, the predominant benzodiazepine in expected opioids, may be missed by drug checking technologies.
- The fentanyl analogue para-fluorofentanyl is appearing in down more frequently. Para-fluorofentanyl is believed to be less potent that fentanyl and is accurately detected with fentanyl test strips.
- 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.
- The median fentanyl concentration of opioids checked was 14.1%, decreasing from 14.3% last month. See page 3 for more detailed results.





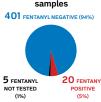


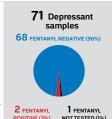
### Number of samples tested with fentanyl present

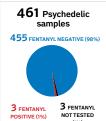


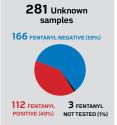


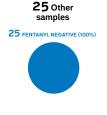


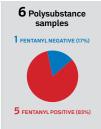














### **PUBLIC HEALTH NOTIFICATIONS**

Date & Location	Expected Drug	Drugs Detected	Fentanyl Strip	Benzo Strip	Area Purchased	Alert Message
June 1 2022 Kelowna	Down/Fentanyl	Caffeine, Fentanyl	Positive	Positive	Kelowna	There is a high risk of overdose when down contains a high concentration of fentanyl and benzodiazepines.
June 3 2022 Vernon & Kelowna	Methamphetamine	Methamphetamine	Negative	Positive	Various communities	Multiple samples of methamphetamine tested positive for benzodiazepines with test strips. More information is needed as to why this is occurring.
June 10 2022 Penticton	Down/Fentanyl	Fentanyl	Positive	Negative	Penticton	Extremely high concentration of fentanyl in samples sold as down pose an increased risk of overdose.
June 12 2022 Get Your Drugs Tested Sample mailed from BC	4-MMC	3-MMC, Uncertain Match	Positive	Negative	Somewhere in BC or possibly on the Internet	Fentanyl contamination of stimulants poses a risk of opioid toxicity. 4-MMC and 3-MMC may have different subjective effects.

Health authorities and community organizations issue further toxic drug alerts from sources other than drug checking. See their respective websites or social media accounts for more alerts.

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

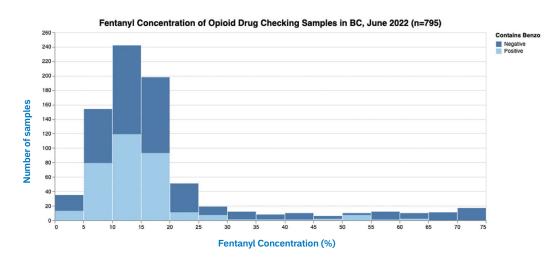


During the month of June, 38.7% of expected opioid samples tested positive for benzodiazepines in our partner sites around BC (340 samples of 879 checked). Opioid samples are checked for benzodiazepine-positivity using BTNX test strips and the FTIR spectrometer. The results presented here are derived 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.

#### Fentanyl Concentration of Opioid Drug Checking Samples in BC, June 2022



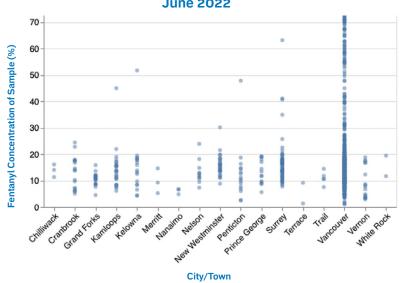
While most of fentanyl-positive opioids checked have a concentration of fentanyl between 5% and 15%, there remain many samples above 15% fentanyl-by-weight, and concentrations can approach 75% of the mixture. The median fentanyl concentration of all samples was 14.1%, down from 14.3% last month. When 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**.

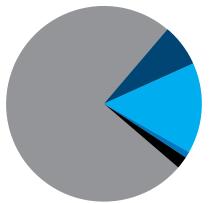






Total #: 2,165

**1,625:** Vancouver Coastal Health region (75%)



156: Fraser Health region (7%)

**324:** Interior Health region (15%)

15: Vancouver Island Health Region (1%)

**45:** Northern Health region (2%)

## Number of samples that matched expectation

using FTIR/test strip drug checking

**EXPECTED DRUG:** 

### **Depressant**

71 Samples Tested

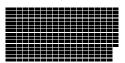


Matched: 50

Did not match: 21

## EXPECTED DRUG: Unknown

281 Samples Tested



Match not determined: 281

EXPECTED DRUG:

### **Psychedelic**

461 Samples Tested



Matched: 415 Did not match: 36

Match not determined: 10

EXPECTED DRUG:

### **Opioid**

895 Samples Tested



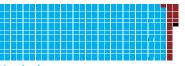
Matched: 836 Did not match: 45

Match not determined: 14

EXPECTED DRUG:

#### **Stimulant**

426 Samples Tested



Matched: 404

Did not match: 21

Match not determined: 1

**EXPECTED DRUG:** 

#### Other

25 Samples Tested



Matched: 18

Did not match: 5 Match not determined: 2

**EXPECTED DRUG:** 

### **Polysubstance**

6 Sample Tested

Matched: 6

#### **Total**

2,165 Samples Tested



Matched: 1,729 Did not match: 128

Match not determined: 308

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

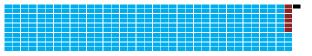
## Number of opioid samples that matched expectation

using FTIR/test strip drug checking

**EXPECTED DRUG:** 

**Fentanyl** 

351 Samples Tested



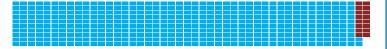
Matched: 344 Did not match: 6

Match not determined: 1

**EXPECTED DRUG:** 

Down

458 Samples Tested



Matched: 442 Did not match: 16 EXPECTED DRUG:

24 Samples Tested



Heroin

Matched: 18 Did not match: 6

**EXPECTED DRUG:** 

**Pharmaceutical** 53 Samples Tested



Matched: 29 Did not match: 13 Match not determined: 11 **EXPECTED DRUG:** 

Fentanyl and Heroin

1 Samples Tested

Did not match: 1

**EXPECTED DRUG:** Other Opioid

5 Samples Tested



Matched: 2 Did not match: 2

Match not determined: 1

**Total** 

895 Samples Tested



Matched: 836 Did not match: 45 Match not determined: 14

> 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:



















































