

To view an archived recording of this presentation please click the following link:

<https://youtu.be/5qoonrbkEko>

Please scroll down this file to view a copy of the slides from the session.

Disclaimer

This document was created by its author and/or external organization. It has been published on the Public Health Ontario (PHO) website for public use as outlined in our Website Terms of Use. PHO is not the owner of this content. Any application or use of the information in this document is the responsibility of the user. PHO assumes no liability resulting from any such application or use.

**Automated Opioid News
Event-based Surveillance
(AONES) Project
Launch**

Allison Maier

Research Associate
Knowledge Management

Nancy Slipp

Research Associate
Knowledge Management

Alex Hamilton

Research Associate
Knowledge Management

October 1, 2024

Disclaimer

This presentation was created by its author. It will be published on the Public Health Ontario (PHO) website for public use as outlined in our Website Terms of Use. PHO is not the owner of this content. Any application or use of the information in this document is the responsibility of the user. PHO assumes no liability resulting from any such application or use.



Poll

Agenda



Background



Introduction of AONES



Walkthrough



Summary of Tabletop Sessions



Questions

Background and Current State

The Issue

Increase in the availability of opioids in the unregulated drug supply has led to an increase in opioid-related harms:

Substance misuse

ED visits

Hospitalizations

Overdoses

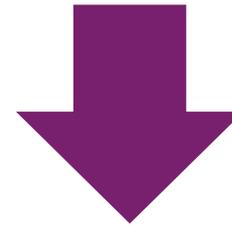
Deaths

Opioid Surveillance Systems^{1, 2}

- ED visits and hospitalization (ACES, CIHI)
- Death (coroner reports)
- Prescriptions (opioids for pain and opioid agonist therapy) (ODPRN)
- Harm reduction activities (ODPRN)
- EMS Opioid Response (ODPRN – new!)

What is missing and what can we do about it?

- Contamination events in unregulated drug supply
 - Unexpected and/or novel negative outcomes
 - Geographic patterns in spread of drug supply



Use large non-traditional data sources
(**Event-Based Surveillance**)
and brand-new technology (**Artificial Intelligence**)
to filter and synthesize the information.

Event-Based vs Traditional Surveillance³

Characteristic	Event-based surveillance	Indicator-based surveillance
Objective	To detect health events that can potentially pose a serious risk to public health	To detect disease outbreaks and characterize disease trends and patterns
Scope	Usually takes an all-hazards approach and can report on both known and unknown diseases	Usually focuses on known diseases
Information types	Unstructured information (i.e. information that is not organized in a pre-defined manner), including both verified (e.g. information from experts, governments, and reputable organizations) and unverified (e.g. rumours, claims, stories) reporting	Structured information (i.e. information that meets specific criteria, such as case definitions, and is organized in a pre-defined manner)
Data sources	Official sources, news media, publicly accessible social media, and other online media sources	Health system infrastructure, such as clinical records from the community, hospitals, or laboratories
Outputs	Early warning signals of new, emerging, and re-emerging threats to public health	Indicators or measures related to a particular health issue

Data Process for an EBS

1
Find wide range of items from data sources (e.g., news articles from all over the world)

2
Filter out the items to only those relevant to the topic of the EBS

3
Extract relevant information/data from the filtered items

4
Synthesize the extracted information

5
Share the information to relevant parties for further verification and response as appropriate



Poll

Natural Language Processing and Generative AI

“A branch of AI focused on giving computers the ability to understand text similar to how humans can. It combines computational linguistics (rule-based modeling of human language) with statistical, machine learning and deep learning models.”⁴

Examples of NLP:

- computer translation services (e.g., Google Translate)
- chatbots and digital assistants (e.g., Alexa)
- generative AI (large language models (LLMs)) (e.g., ChatGPT)

Introduction to AONES



This LDCP Project

Goal: to develop a real-time event-based surveillance system for detecting and tracking emerging opioid-related trends and drug-supply contamination events using natural language processing and open news data published in North America.

Automated Opioid News Event-based Surveillance



Project Objectives



Develop and test data pipelines that take in and process near-real-time news data feeds.



Create an applied AI model that filters articles and extract critical situational awareness information.



Build an interactive dashboard that synthesizes extracted information.



Evaluate the process of developing and deploying AI in an applied public health setting.

The Team

Knowledge Advisory Group

Core Team

**KFL&A Public Health/
Queen's University**

Representatives from

- Grey Bruce Public Health
- York Region Public Health
- Leeds, Grenville & Lanark Public Health

- population health managers
- harm reduction workers
- epidemiologists/health analysts
- health policy specialists
- physicians
- librarians
- scientific harm reduction and drug policy experts

Representatives from:

- Algoma Public Health
- Brant County Health Unit
- Niagara Region Public Health
- Peel Region Health Unit
- Thunder Bay District Health Unit
- Toronto Public Health
- Wellington-Dufferin-Guelph Public Health
- Public Health Ontario
- Ontario Drug Policy Research Network



Lived Experience Advisory Group (LEAG)

AONES' Data Process

Global Database of Events, Language and Tone
(GDELT)⁵

1

Filter out only those relevant to unregulated drug
supply

2

Extract relevant information/data from the filtered
items such as locations, names of
drugs, appearance and effect

3

Organize and store the extracted information into
a database

4

Display the data in the AONES dashboard

5

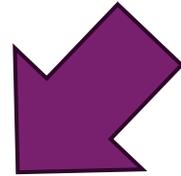


GDELT⁶

- Collects and monitors print, broadcast and web-based media from around the world⁶
- Makes unprocessed lists of articles and their metadata available for free

Scope of Articles

To capture current and emerging **events** in the unregulated drug supply to inform public health response and harm reduction

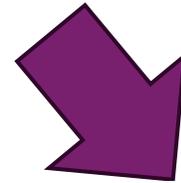


IN

Articles that can provide as near-real-time-as-possible information on the unregulated drug supply and its impacts:

alerts

crime



OUT

Articles that focus on policy, harm reduction activities or other elements of the drug crisis

Information to Extract

Location

Name of place (then further processed to city/municipality)

Drug

Name of the drug

Drugs/contaminants mixed with

Form (e.g., powder, pill)

Appearance (e.g., colour, shape)

Quantity

Effect

Prevalence

Drug event

Description

Populations impacted (e.g., certain regions or demographic sub-populations)

AONES Walkthrough





I want to: See recent alerts Track local drug confiscations Look at recent themes in the drug supply Explore the full dataset

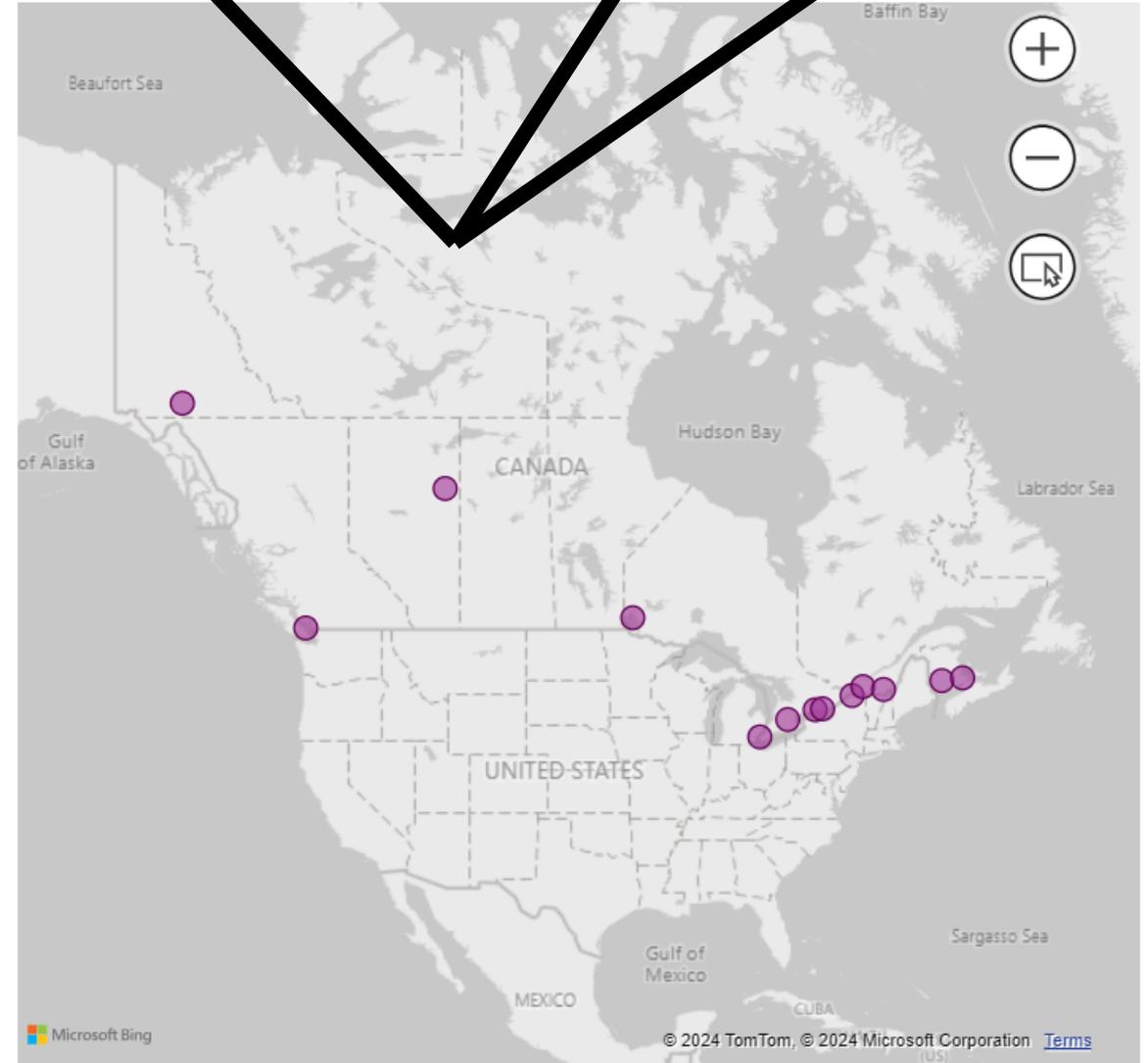
Time period: Today 7 days 30 days 90 days

Geography: ↕ ↶

Articles in selected geography and time period: 17

Date	Locations(s) mentioned	Title	Link	Drug event(s) (impacted population)	Drug name	Extracted drug details
Aug 20, 2024	Subd. B, NL	Over 100 people have died of a drug overdose in N.L. since 2023 — and this axe-throwing bar wants to help CBC News	🔗	overdose deaths (general population)	fentanyl	EFFECT: respiratory depression APPEARANCE: potent
Aug 19, 2024	Alnwick/Haldim and, ON	Health unit issues toxic drug poisoning alert for Northumberland	🔗	Increase in suspected opioid drug poisonings (Unknown Population)	opioids	EFFECT: Contamination or poisoning
Aug 17, 2024	Nanaimo, BC	Residents unsettled by so many suspicious fires in downtown Nanaimo	🔗	Increased fire incidents (Residents of downtown Nanaimo)	drugs	EFFECT: Addiction, mental health issues FORM: Various
					flammable liquid	EFFECT: Highly flammable FORM: Liquid
	ON Kenora, ON	Northwestern Health Unit: Drug Alert – Increase in drug poisonings - NetNewsLedger	🔗	Opioid Poisoning (Unknown Population)	fentanyl	EFFECT: respiratory depression APPEARANCE: Blue and Green Down FORM: powdered
					meth	EFFECT: extreme drowsiness
					tranq	MIXED WITH: xylazine EFFECT: zombie-like walk
	Waterloo, ON	Two local events to raise awareness about Waterloo Region drug crisis	🔗	Drug Poisoning Crisis (People who use drugs)	drug policies	EFFECT: Criminalization of people who use drugs PREVALENCE: Fuelled the current drug poisoning crisis
					toxic drug supply	EFFECT: Drug Poisoning PREVALENCE: Unrelenting rates of druqa poisoninas and

Locations of articles (click on a dot or use the lasso tool to select a group)



Legend ● 90 days ● 0 days

Recent Alerts



I want to:

See recent alerts

Track local drug confiscations

Look at recent themes in the drug supply

Explore the full dataset

Time period:

Today

7 days

30 days

90 days

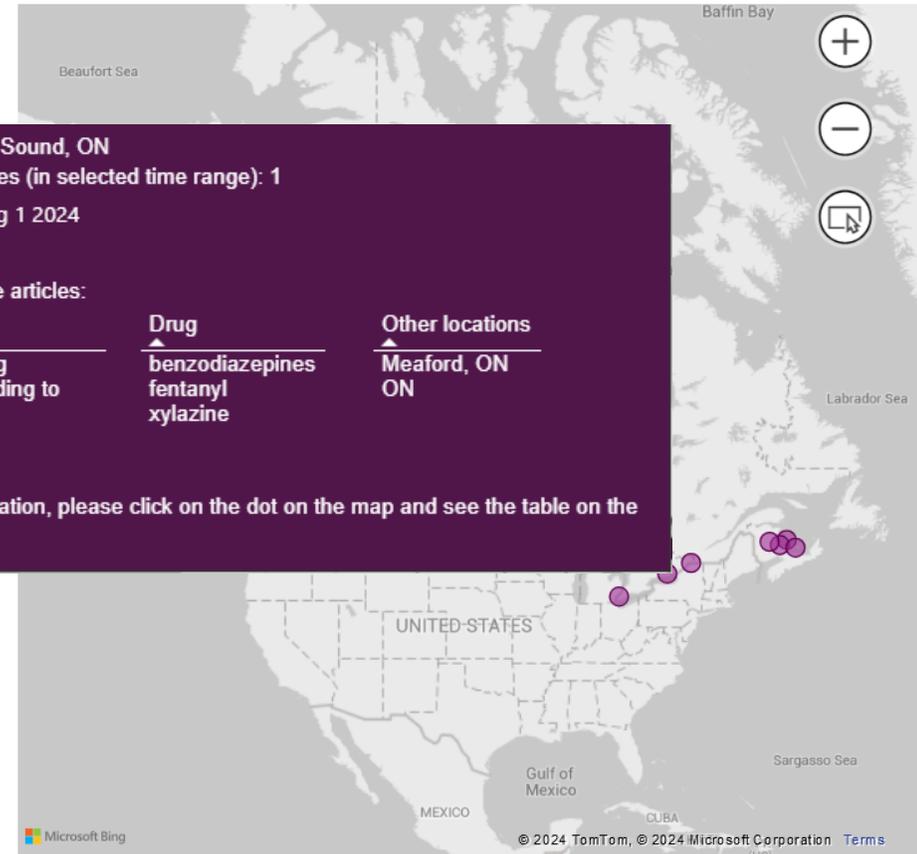
Locations of articles (click on a dot or use the lasso tool to select a group)

Geography:

Canada

Articles in selected geography and time period: 12

Date	Locations(s) mentioned	Title	Link	Drug event(s) (impacted population)	Drug name	Extracted drug
Jul 29, 2024	Belleville, ON	Three opioid deaths, 24 paramedic drug calls reported in June	Link		opioids	
Jul 28, 2024	Alberton, PE Saint Mary, NB	RCMP warn about deadly drug in region	Link		carfentanil	APPEARANCE FORM: powder
	NB	Sudden death in Jardineville, N.B., prompts RCMP warning about dangerous drug CBC News	Link	Sudden death in Jardineville, N.B. (Unknown Population)	carfentanil	EFFECT: extremely dangerous, strong fentanyl APPEARANCE FORM: powder
Jul 27, 2024	Algoma, ON	Anishinabek Police Service warns of "bad batch" of drugs, recent overdoses	Link	Poisoned drug supply circulating in Northern Ontario (Unknown Population)	benzodiazepines fentanyl	EFFECT: sedation MIXED WITH: EFFECT: respiratory depression FORM: powdered
	Saint-Charles, NB	Fatal drug circulating in Southeastern N.B. Royal Canadian Mounted Police	Link	Possession of carfentanil is an offence (Public)	carfentanil	EFFECT: potentially fatal overdose APPEARANCE: blue or green FORM: powder
Jul 26, 2024	Belleville, ON	HPEPH's opioid numbers for June	Link		opioids	
	Lakeshore, ON	Health unit issues caution over blue-green algae bloom on Lake St. Clair	Link	Contamination of Lake St. Clair with blue-green algae bloom (Residents near Stoney Point in Lakeshore, swimmers, dog swimmers)	blue-green algae	EFFECT: Itchy and irritated eyes and skin, headaches, fever, diarrhea, stomach pain, nausea, vomiting APPEARANCE: cloudy and green, similar to paint or soap



Legend ● 90 days ● 0

Recent Alerts

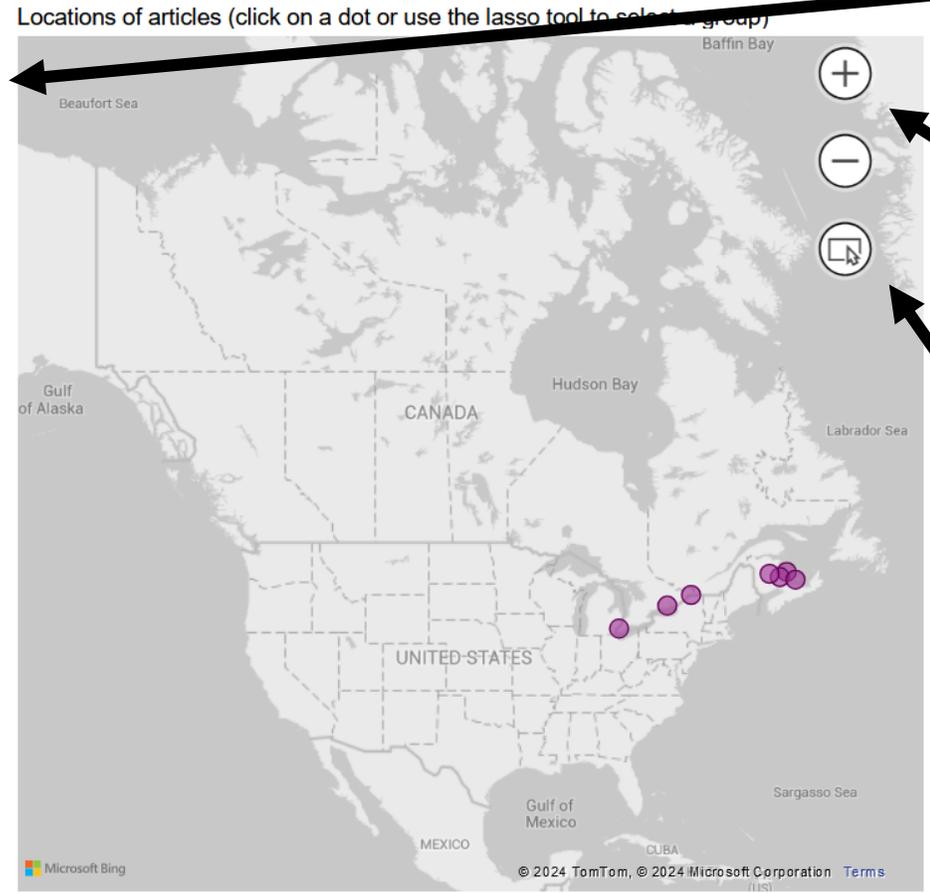
I want to: See recent alerts Track local drug confiscations Look at recent themes in the drug supply Explore the full dataset

Time period: Today 7 days 30 days 90 days

Geography:

Articles in selected geography and time period: 12

Date	Locations(s) mentioned	Title	Link	Drug event(s) (impacted population)	Drug name	Extracted drug details
Jul 29, 2024	Belleville, ON	Three opioid deaths, 24 paramedic drug calls reported in June	Link		opioids	
Jul 28, 2024	Alberton, PE Saint Mary, NB	RCMP warn about deadly drug in region	Link		carfentanil	APPEARANCE: blue or green FORM: powder
	NB	Sudden death in Jardineville, N.B., prompts RCMP warning about dangerous drug CBC News	Link	Sudden death in Jardineville, N.B. (Unknown Population)	carfentanil	EFFECT: extremely dangerous, stronger than fentanyl APPEARANCE: blue or green FORM: powder
Jul 27, 2024	Algoma, ON	Anishinabek Police Service warns of "bad batch" of drugs, recent overdoses	Link	Poisoned drug supply circulating in Northern Ontario (Unknown Population)	benzodiazepines fentanyl	EFFECT: sedation MIXED WITH: xylazine EFFECT: respiratory depression FORM: powdered
	Saint-Charles, NB	Fatal drug circulating in Southeastern N.B. Royal Canadian Mounted Police	Link	Possession of carfentanil is an offence (Public)	carfentanil	EFFECT: potentially fatal overdose APPEARANCE: blue or green FORM: powder
Jul 26, 2024	Belleville, ON	HPEPH's opioid numbers for June	Link		opioids	
	Lakeshore, ON	Health unit issues caution over blue-green algae bloom on Lake St. Clair	Link	Contamination of Lake St. Clair with blue-green algae bloom (Residents near Stoney Point in Lakeshore, swimmers, dog swimmers)	blue-green algae	EFFECT: Itchy and irritated eyes and skin, headaches, fever, diarrhea, stomach pain, nausea, vomiting APPEARANCE: cloudy and green, similar to paint or soap



Legend ● 90 days ● 0

Time filter

Geography filter

Undo filters

Map zoom

Map lasso

Track Local Drug Confiscations



I want to:

- See recent alerts
- Track local drug confiscations
- Look at recent themes in the drug supply
- Explore the full dataset

Time period:

- Today
- 7 days
- 30 days
- 90 days

Geography:

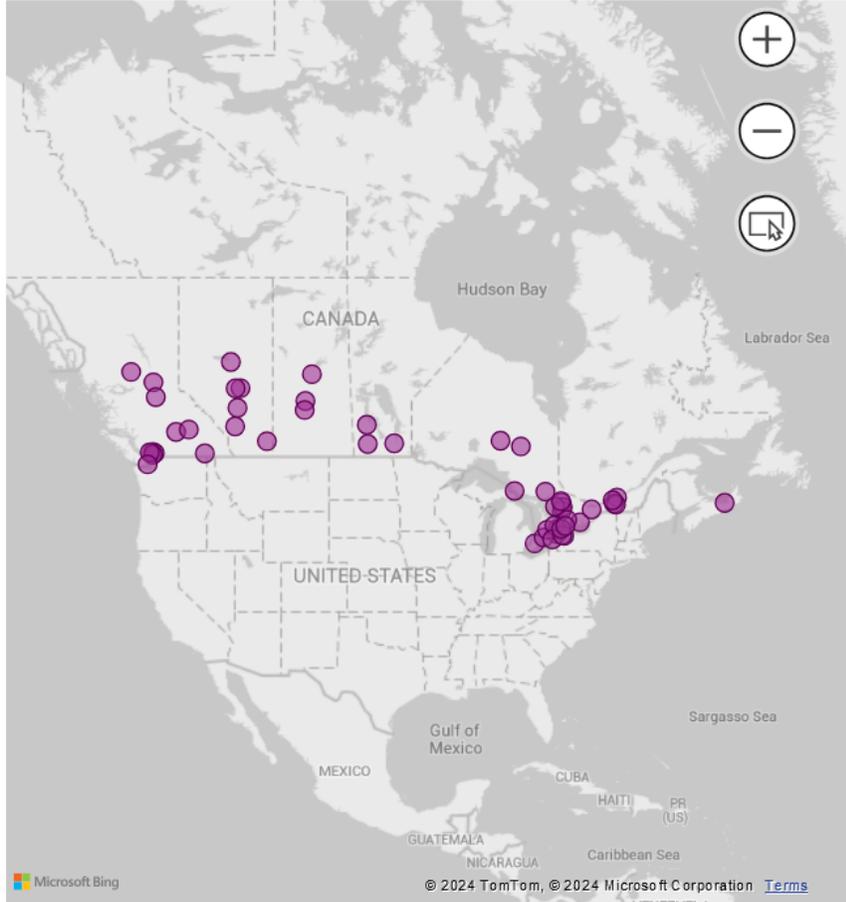
Drug name:



Articles in selected geography and time period: 60

Date	Link	Locations(s) mentioned	Drug name	Drug form	Mixed with	Appearance	Quantity
Aug 14, 2024	🔗	Calgary, AB Newton, ON AB	crack cocaine				about five grams
			fentanyl				more than 100 grams
	🔗	ON	methamphetamine				
			cocaine				
	🔗	Saskatoon, SK	fentanyl				6 kg
			methamphetamine				26 kg
	🔗	Vancouver, BC	ecstasy				49 kilograms
			mdma				2.5 million doses
	🔗	Maple Ridge, BC Coquitlam, BC	mdma				9 kilograms
			cocaine				1 kilogram
	🔗	Saskatoon, SK	heroin				1 kilogram
			magic mushrooms				
	🔗	Brandon, MB	mdma				1 kilogram
			meth				26 kilograms
	🔗	Brandon, MB	xanax				1,000 pills
			unknown				
	🔗	Dauphin, MB Brandon, MB	alcohol	liquid			
			methamphetamine	powder		small bags	
	🔗	Maple Ridge, BC Coquitlam, BC	ecstasy				
			mdma	powder			49 kilograms
	🔗	Vancouver, BC	mdma				49 kilograms
			mdma		other substances		49 kilograms
	🔗	Huntsville, ON	mdma				nearly 100 grams
			cocaine				over 110 grams
	🔗	Huntsville, ON	illicit cannabis				39 grams
			mdma				
	🔗	Huntsville, ON	methamphetamine				over 200 grams
			mushrooms				
	🔗	Prince George, BC	crack cocaine				

Locations of articles (click on a dot or use the lasso tool to select a group)



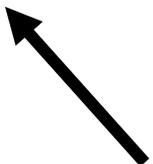
Legend ● 90 days ● 0

Recent Themes: Articles over Time

Sub-page button



Open search box



Date range filter

I want to: See recent alerts Track local drug confiscations **Look at recent themes in the drug supply** Explore the full dataset

Theme page: **Articles over time** Watch over time Emerging themes in terms Emerging themes in relationships

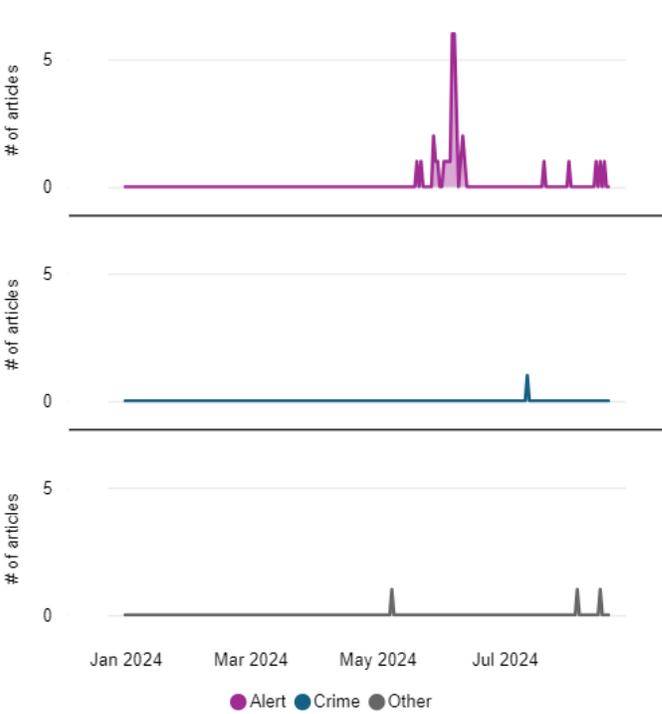
Filter graphs by geography, and a specific drug term to explore themes over time.

Geography: Drug properties:

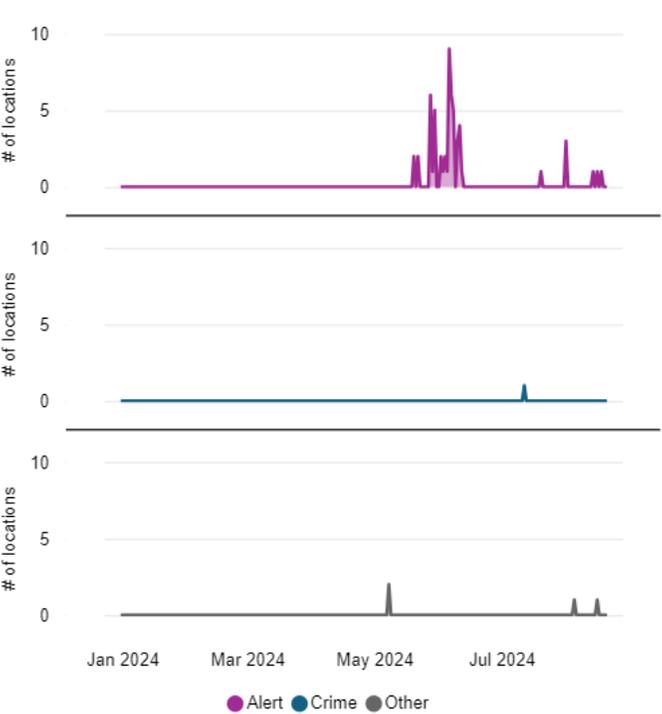
Drug name Mixed with Drug form Effect

Date range:

Number of articles by day



Number of distinct locations by day



Click on a data point in the graphs to filter

Date	Article	Type	Link
Aug 18, 2024	Mass. city officials see increase in overdoses containing veterinary sedative	Alert	
Aug 16, 2024	S.F.'s overdose death rate spiked, but it's not the highest in the U.S. How other counties compare	Other	
Aug 16, 2024	Why a Worcester drug overdose increase is causing outside concern	Alert	
Aug 14, 2024	EMS: New sedative causes dangerous trend in overdoses around Worcester	Alert	
Aug 5, 2024	Chicago Groups Aim to Improve Access to Life-Saving Overdose Reversal Drug Naloxone While Normalizing Conversations Around Drug-Use	Other	
Aug 1, 2024	Opioid Overdose Cases Show Presence of Medetomidine, Veterinary Medicine Similar to Xylazine, According to Recent Study by the Toxicology Investigators Consortium	Alert	
Jul 20, 2024	Chicago launches summer safety campaign to address opioid crisis in 5 neighborhoods	Alert	
Jul 12, 2024	Two Buffalo men arrested on drug charges following investigation	Crime	
Jun 12, 2024	New animal tranquilizer making its way to Michiana drug users	Alert	
Jun 11, 2024	Drug Alert The Pas	Alert	

Recent Themes: Watch over Time

I want to: See recent alerts Track local drug confiscations Look at recent themes in the drug supply Explore the full dataset

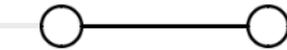
Theme page: Articles over time Watch over time Emerging themes in terms Emerging themes in relationships

Play:      

May 17, 2024

Date range:

21/02/2024 15/08/2024



Type of Article:

All

Geography:

Canada

Drug properties:

Search  

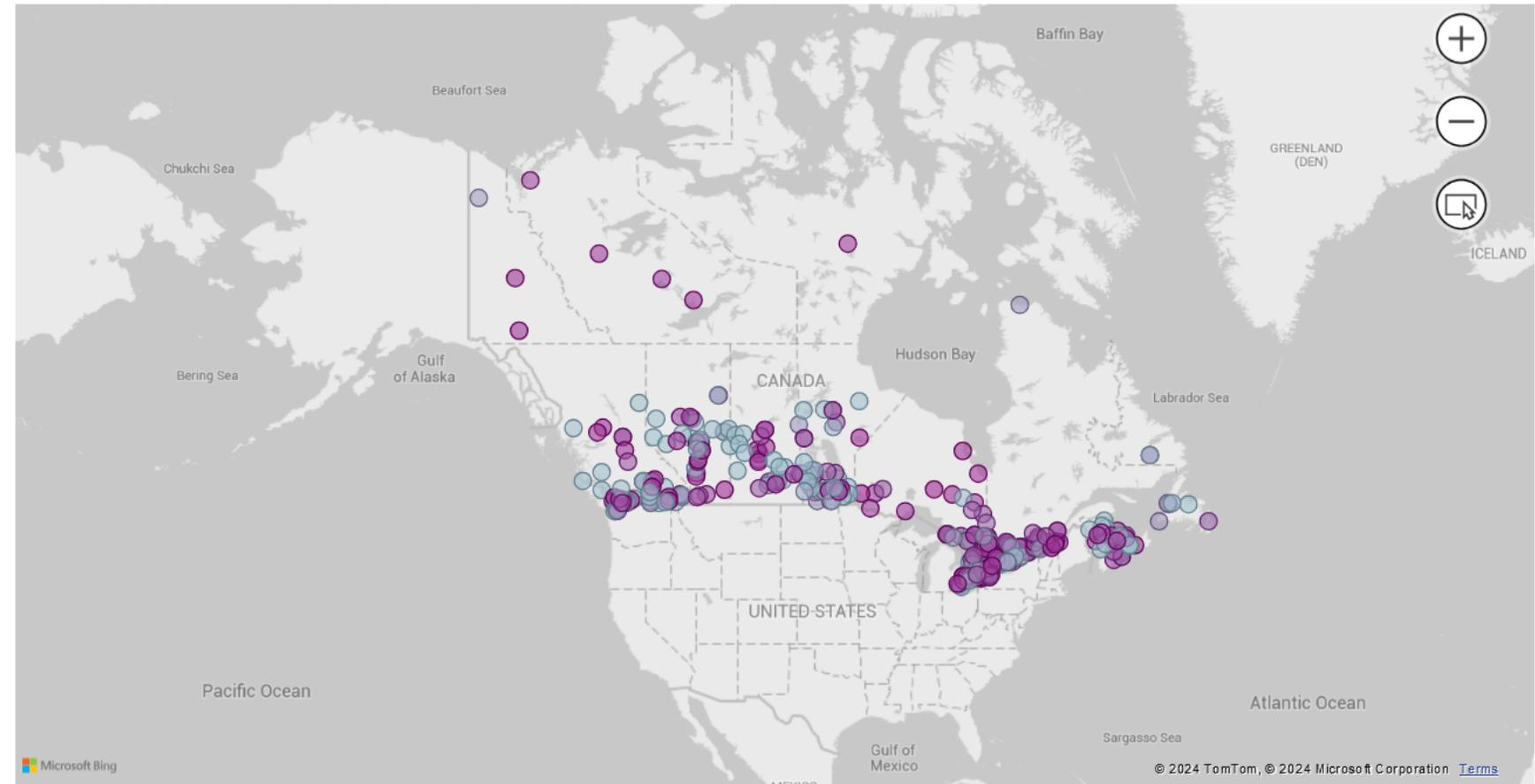
Drug name Mixed with

Drug form Effect

Legend

 90+ days  0

Filter map by type of article, geography, and a specific drug term and press play to explore the movement of themes over time.



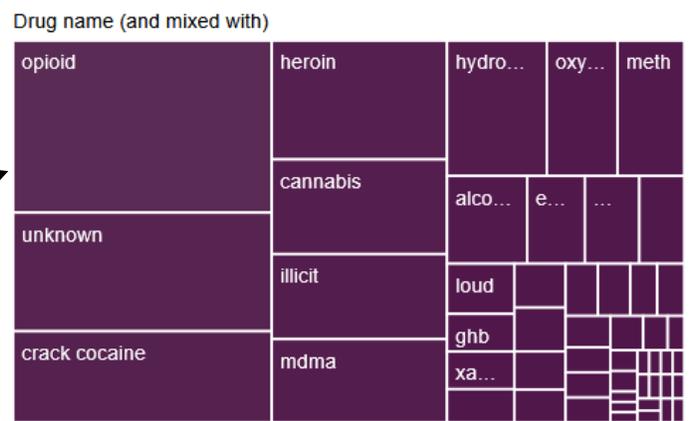
Play and other buttons

Recent Themes: Emerging Themes in Terms

I want to: [See recent alerts](#) [Track local drug confiscations](#) [Look at recent themes in the drug supply](#) [Explore the full dataset](#)

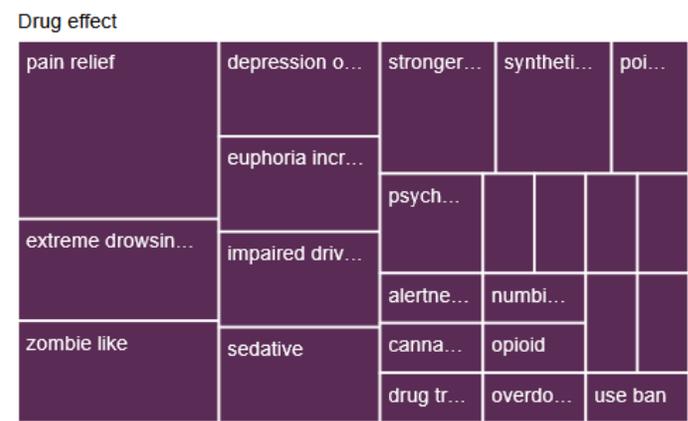
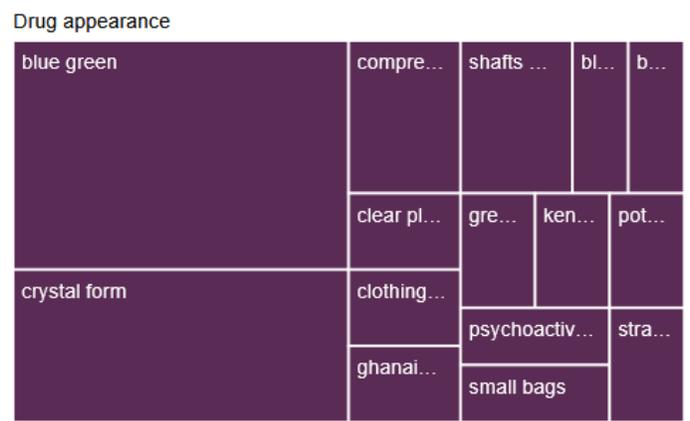
Theme page: [Articles over time](#) [Watch over time](#) [Emerging themes in terms](#) [Emerging themes in relationships](#)

Time period: [Emerging terms last 7 days](#) [Emerging terms last 30 days](#) Geography: Type of article:



Click on a data point in the graphs to filter

Date	Article	Type	Link
Aug 12, 2024	\$17.5K in narcotics seized in Kathleen Street traffic	Crime	Link
Aug 12, 2024	'A form of hate crime': OPP looking to identify, apprehend person(s) responsible for racial slur graffiti in Carleton Place	Crime	Link
Aug 10, 2024	19 impaired charges handed out during B.C. music	Crime	Link
Aug 14, 2024	5 people accused of operating drug lab in Maple	Crime	Link
Aug 8, 2024	Alleged assault in North York leads to firearm, ammunition seizure: Toronto police	Crime	Link
Aug 15, 2024	Alvin Fiddler re-elected as Nishnawbe Aski Nation	Other	Link
Aug 13, 2024	Arrest and drug seizure in Quinte West	Crime	Link
Aug 9, 2024	BC Highway Patrol officers catch 19 impaired drivers in Salmo - Rossland Telegraph	Crime	Link
Aug 13, 2024	Brothers charged with several drug-related offences after trafficking bust - Medicine Hat News	Crime	Link
Aug 14, 2024	BU wrestling with security incidents	Crime	Link
Aug 9, 2024	Circulation of potent opioid prompts health authority to issue warning in Eastern Townships CBC News	Alert	Link
Aug 12, 2024	Circulation of potent opioid prompts health authority to issue warning in Eastern Townships CBC News	Alert	Link
Aug 13, 2024	Circulation of potent opioid prompts health authority to issue warning in Eastern Townships CBC News	Alert	Link
Aug 8, 2024	Cocaine, fentanyl, morphine seized locally after	Crime	Link



Tree map diagram



Recent Themes: Emerging Themes in Relationships

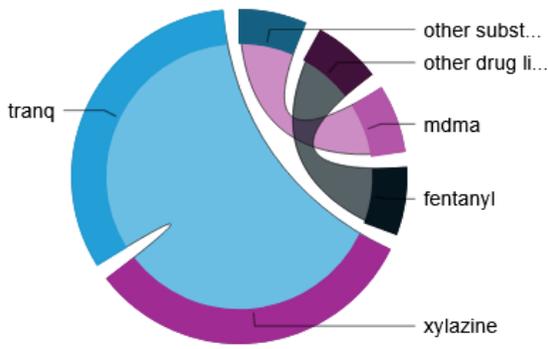
aones Automated Opioid News Event-based Surveillance Most recent record: Aug 15, 2024 12:00 PM (GMT) [?](#)

I want to: [See recent alerts](#) [Track local drug confiscations](#) [Look at recent themes in the drug supply](#) [Explore the full dataset](#)

Theme page: [Articles over time](#) [Watch over time](#) [Emerging themes in terms](#) [Emerging themes in relationships](#)

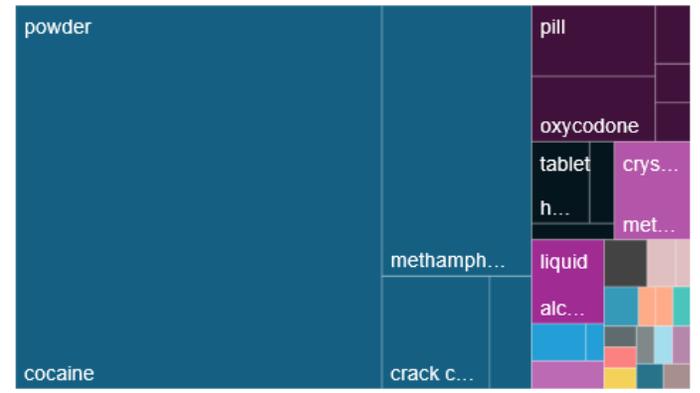
Time period: [Emerging terms last 7 days](#) [Emerging terms last 30 days](#) Geography: Type of article:

Drug name (and mixed with) combinations



Drug
combo
diagram

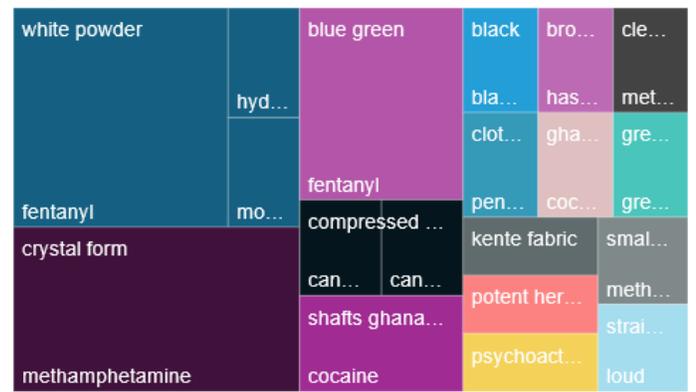
Drug form and name



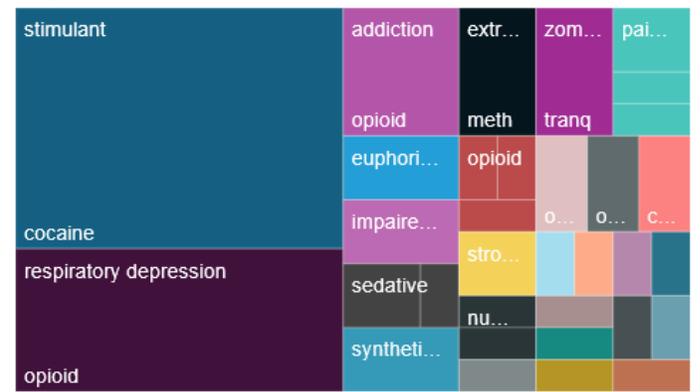
Click on a data point in the graphs to filter

Date	Article	Type	Link
Aug 15, 2024	Alvin Fiddler re-elected as Nishnawbe Aski Nation	Other	Link
Aug 15, 2024	OPINION: Addressing community safety amidst the	Other	Link
Aug 15, 2024	Confronting the Surge in Drug-Related Poisonings	Alert	Link
Aug 15, 2024	Northwestern Health Unit: Drug Alert – Increase in	Alert	Link
Aug 14, 2024	Four people face drug and weapons charges after	Crime	Link
Aug 14, 2024	OPP lay drug trafficking charges in North Cariou	Crime	Link
Aug 14, 2024	RCMP report 26 kg of meth among drugs seized in	Crime	Link
Aug 14, 2024	HUNT: Leading addiction doc believes Canada's 'safer supply' is igniting addiction crisis	Other	Link
Aug 14, 2024	Five charged with making ecstasy in Metro	Crime	Link
Aug 14, 2024	Five charged as RCMP federal policing dismantles drug superlab - Indo-Canadian Voice	Crime	Link
Aug 14, 2024	Large drug bust in Saskatoon from Saskatoon	Crime	Link
Aug 14, 2024	BU wrestling with security incidents	Crime	Link
Aug 14, 2024	Sask. teen killed in ATV rollover at Kilman Cottage; Brandon men arrested for trafficking methamphetamine	Crime	Link
Aug 14, 2024	Spike in opioid overdoses prompts toxic drug alert	Alert	Link
Aug 14, 2024	5 people accused of operating drug lab in Maple	Crime	Link
Aug 14, 2024	Fredericton sees big increase in drug overdoses	Alert	Link
Aug 14, 2024	Five charged after Metro Vancouver drug lab bust:	Crime	Link
Aug 14, 2024	Five people to appear in court following drug 'super lab' discovery in Lower Mainland : My	Crime	Link

Drug appearance and name



Drug effect and name



Explore the Full Dataset



I want to:

See recent alerts

Track local drug confiscations

Look at recent themes in the drug supply

Explore the full dataset

Filters: ▼ Number of articles included from selected filters: 6559

Date range:

01/01/2024 15/08/2024

Type of article:

All ▼



Geography: Use the county dropdown, city search field or map and associated list to filter.

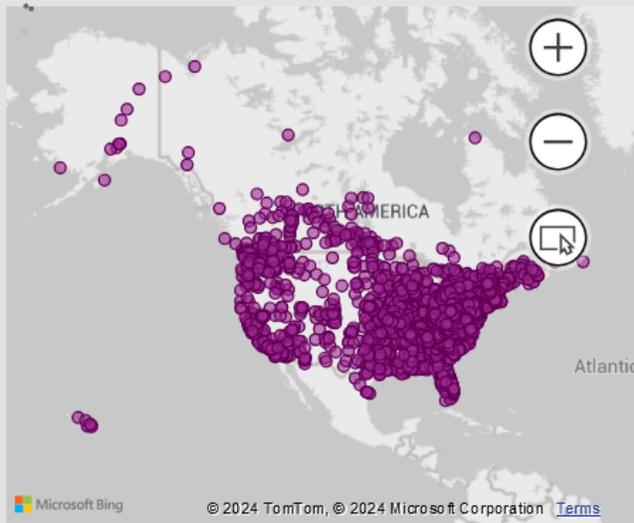
Country and province:

All ▼

City:

Search 🔍 ✕

Use the lasso tool to select a region, then choose each location selected using the list to the right.



Location:

- AB
- Abbotsford, BC
- Aberdeen, WA
- Abilene, TX
- Abingdon, VA
- Ackley, IA
- Acworth, GA
- Ada, OK
- Adairville, KY
- Admaston/Bromley, ON
- Aiken, SC
- Airdrie, AB
- Airway Heights, WA
- Ajax, ON
- Akron, OH
- Akwesasne, QC
- Alachua, FL
- Alameda, CA

Free text filters: Use the search field and/or the tables to select items. In the lists, use Ctrl to select multiple items. Free text searches are only possible for a single drug property at a time; use the lists to select across multiple properties.

Drug properties:

Search 🔍 ✕

Drug name Mixed with Drug form Effect

Name:

- assist treatment
- assist treatment (mat)
- assist treatment for opioi...
- base treatment
- relate object
- ' test my drink ' kit
- 1p - lsd
- 2.5 gram of
- 3d - print gun
- 4 - acetoxly - dmt
- 9 mm handgun
- 9 mm pistol

Form:

- 225mg
- 30
- acting injection
- anesthetic
- animal sedative
- assorted pill
- auto injector
- automatic rifles
- backpack
- bag
- bagged
- baggie

Mixed with:

- additional chemical or cut agent
- alcohol
- bandit and violent islamist
- benzocaine
- Benzodiazepine
- benzodiazepine , include Bromaz...
- benzodiazepines , xylazine , fent...
- benzodiazepines , xylazine , med...
- benzodiazepines , xylazine , synt...
- benzos (benzodiazepine) , xyla...
- benzos and fentanyl
- BMK methyl Glycidate

Effect:

- 135 deaths
- 14 deaths
- 16 overdoses
- 85 drug
- abuse
- abuse epidemic
- abuse overdose
- accidental overdose
- accidental overdoses
- accidental poisoning
- accidental poisonings
- acute effects

Drug effects:

Search 🔍 ✕

Event:

- \$200,000 drug bust
- \$66,000 in drugs seized
- 10 arrests made by the West Tennessee Drug...
- 10 times more powerful than morphine, cheap...
- 10,000 suspected fentanyl pills found in a vehi...
- 113 confirmed and suspected drug toxicity de...
- 150 people die every day from overdoses rela...
- 16% decline in fatal overdoses
- 16% decrease in fatal overdoses
- 16% drop in fatal overdoses
- 2 roadside suspensions for cocaine use
- 206 arrests and 490 charges issued
- 24/7 access to naloxone for people without ac...
- 251% increase in fentanyl overdoses
- 26,000 visits to the overdose prevention site
- 3,026 New Yorkers died of a drug overdose in ...
- 32 overdose deaths reported in 2023
- 35 pounds of methamphetamine found during ...
- 35 suspensions for cannabis use, ranging fro...
- 36,251 people died from overdosing on psych...
- 4 roadside suspensions for alcohol use
- 4,324 overdoses with 487 fatal
- 40% drop in opioid overdoses
- 41% of drug overdose deaths involve fentanyl
- 42 overdoses reversed
- 5 overdoses this school year

Close filter pane





Poll

Summary of Tabletop Exercises

Potential Uses



Real-time news updates



Movement of new drugs



Changes in unregulated drug supply



Guide harm reduction initiatives



Exploratory analysis

Limitations



What's included in data source and its bias (media)



Delays and repetition in news reporting



Risks with AI in data pipeline



Limited scope of initial tool



Discussion

Do you see yourself using the tool?

Who do you see using the tool?

What does this tool add in comparison to other opioid surveillance tools?

Do you see any other limitations?

Questions



Use the tool:

www.kflaphi.ca/aones/

Contact Us:

allison.maier@kflaph.ca

nancy.slipp@kflaph.ca



References

1. Ontario Drug Policy Research Network. Ontario Opioid Indicator Tool. Toronto, ON; Updated April 2024. DOI: 10.31027/ODPRN.2022.01. Available from: <https://odprn.ca/ontario-opioid-indicator-tool/>
2. Public Health Ontario. Interactive Opioid Tool. Toronto, ON. Available from: <https://www.publichealthontario.ca/en/Data-and-Analysis/Substance-Use/Interactive-Opioid-Tool>
3. Norzin T, Ghiasbeglou H, Patricio M, Romanova S, Zaghlool A, Tanguay F, et al. Event-based surveillance: Providing early warning for communicable disease threats. Canada Communicable Disease Report. 2023 Mar 8;49(2/3):29-34. doi:10.14745/ccdr.v49i23a01
4. Natural Language Processing (NLP) Solutions | IBM [Internet]. Available from: <https://www.ibm.com/natural-language-processing>
5. GPHIN [Internet]. Government of Canada. 2023. Available from: https://gphin.canada.ca/cepr/aboutgphin-rmispenbref.jsp?language=en_CA
6. The GDELT project [Internet]. Available from: <https://www.gdeltproject.org/>