



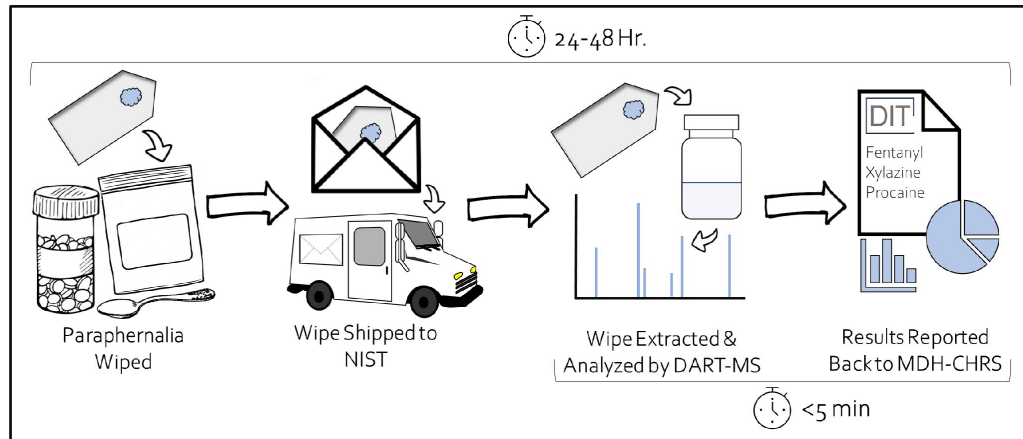
Rapid Analysis of Drugs (RAD)

Collaborative Call

June 24th, 2026

Rapid Analysis of Drugs (RAD)

RAD tests equipment that are routinely returned to Maryland Opioid-Associated Disease Prevention and Outreach Programs (OADPOP) participants.



Goals of Rapid Analysis of Drugs (RAD)

- Increase stakeholder understanding of the Maryland drug market landscape.
- Empower people who use drugs with knowledge about the drug supply that enables them to make informed decisions and employ risk reduction strategies.
- Provide critical, timely information about new and emerging trends in the drug supply, informing the statewide and local response to mitigate harm.

Agenda

1. Recent Results
2. Emerging Trends
3. Program Report Out
4. Updates and Reminders

Recent Results

RAD Data Disclaimers

- Convenience Sampling -
 - RAD is a voluntary program that Maryland OADPOP participants can choose to engage
 - Not all MD jurisdictions have an OADPOP that participate in RAD
- No personally identifiable data is collected, therefore we do not know how many participants are accounted for in the sample size

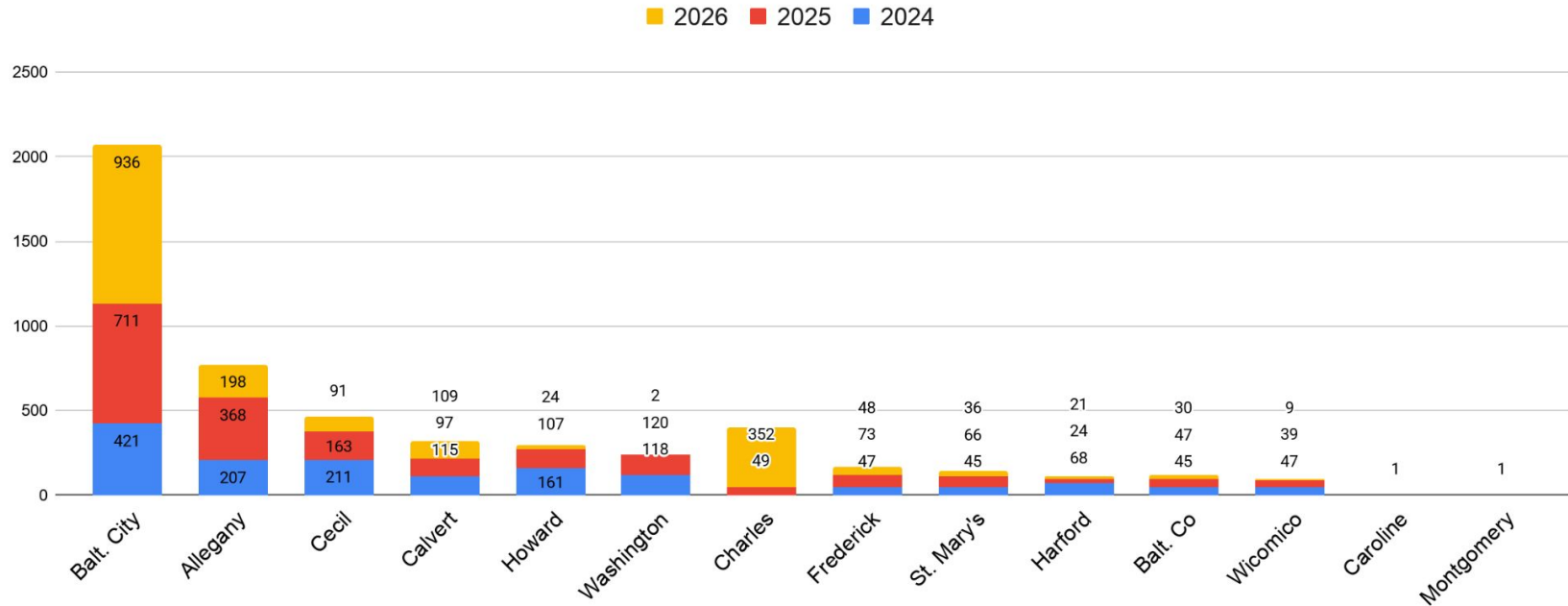
RAD gives us some indication of the near real time drug market in Maryland, but it should not be considered as fully representative.

Key Findings

Q1 CY 2026 (Jan-Mar) data as of 4/27/26

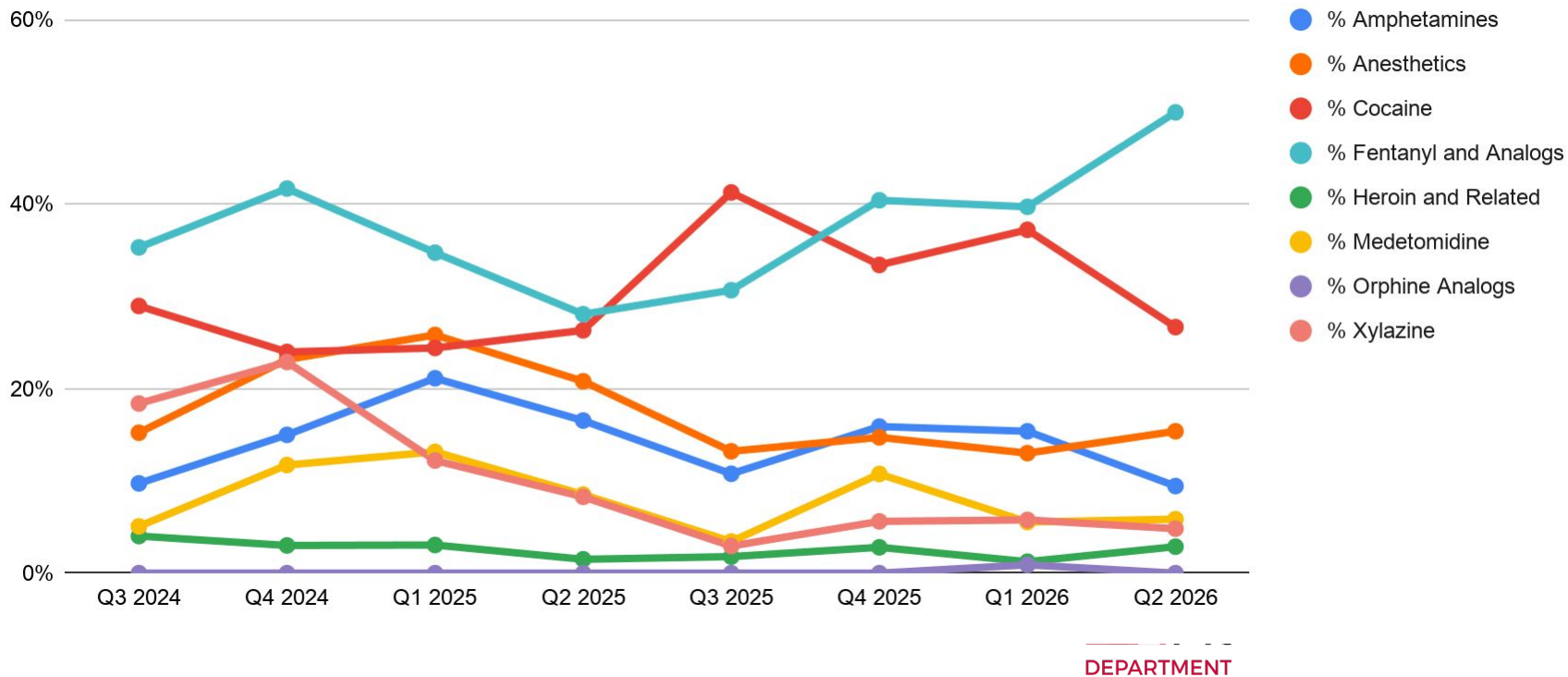
- In Q1 CY2026 (1/1/26 - 3/31/26), **886 samples** were collected from 21 OADPOPs in 14 jurisdictions. Of those samples:
 - **41.76% contained opioids**
 - *Of those samples, 95.68% contained fentanyl.*
 - **37.29% contained cocaine**
 - **15.25% contained amphetamines**
 - **5.54% contained medetomidine**
 - **5.76% contained xylazine**
- **64.83%** of samples were collected through street outreach or mobile units.
- **56.95%** of samples had multiple active ingredients.

RAD Sampling by Jurisdiction, JAN 2024- JUNE 2026



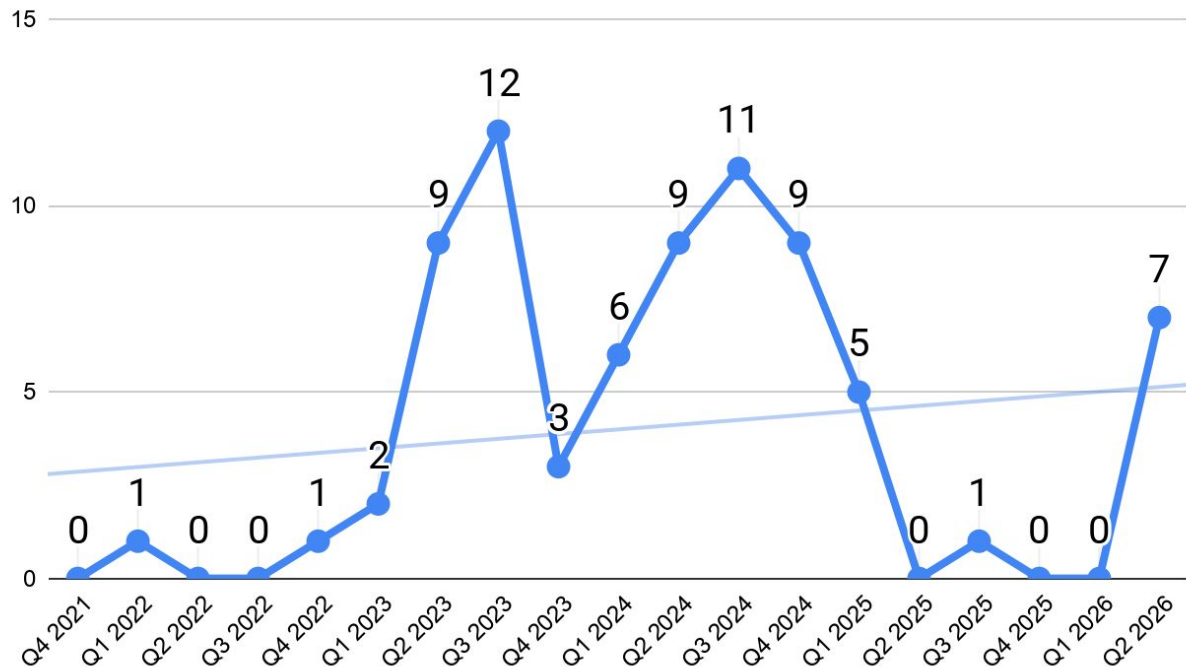
Note: Data are preliminary and subject to change. Data as of 6/16/2026.

RAD Compounds, July 2024- June 2026



Note: Data are preliminary and subject to change. Data as of 6/16/2026

Bromazepam, OCT 2021 - JUNE 2026



Counties:

- Allegany County
- Baltimore City
- Baltimore County
- Calvert County
- Cecil County
- Frederick County
- Harford County
- Howard County
- St. Mary's County
- Washington County
- Wicomico County

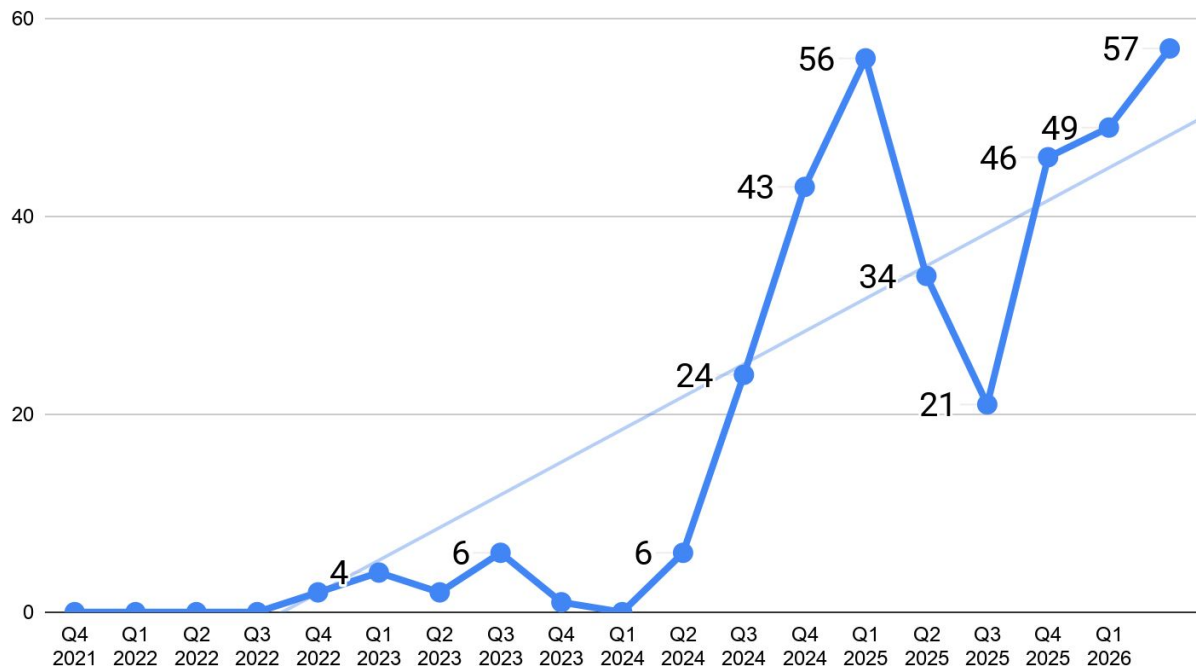
Bromazepam is a type of benzodiazepine (sedative)

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DEPARTMENT OF HEALTH

Note: Data are preliminary and subject to change. Data as of 6/16/2026.

Medetomidine, OCT 2021 - JUNE 2026



Counties:

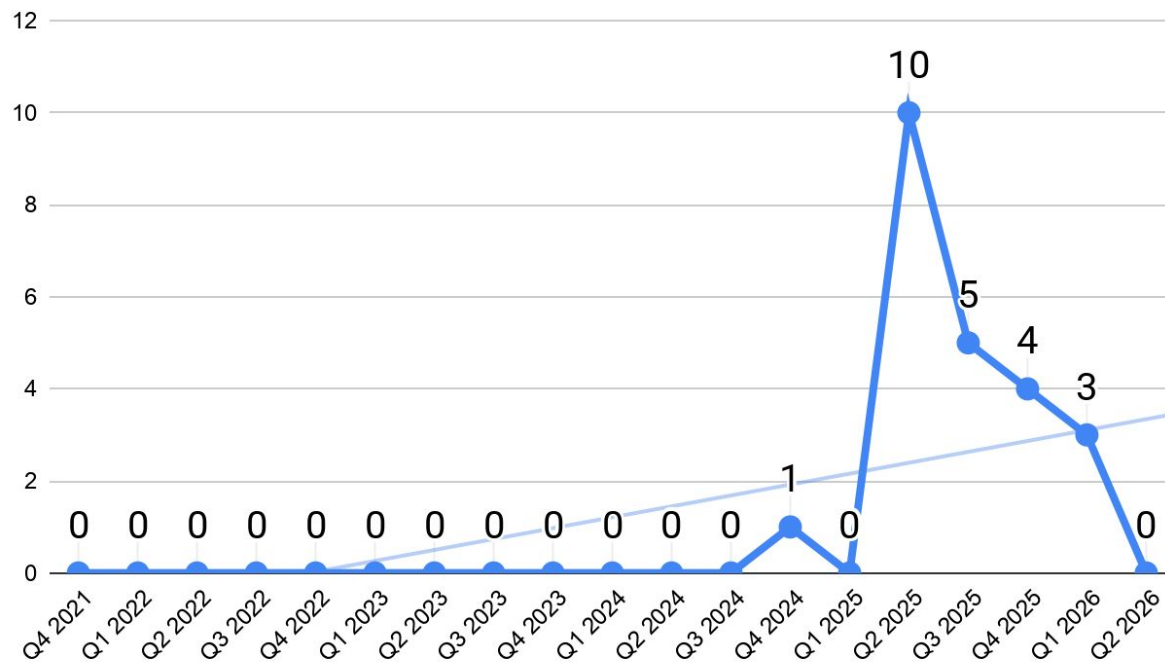
- Allegany County
- Baltimore City
- Baltimore County
- Calvert County
- Caroline County
- Cecil County
- Frederick County
- Harford County
- Howard County
- St. Mary's County
- Washington County
- Wicomico County

Maryland

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Note: Data are preliminary and subject to change. Data as of 6/16/2026.

5-fluoro ADB, OCT 2021 - JUNE 2026

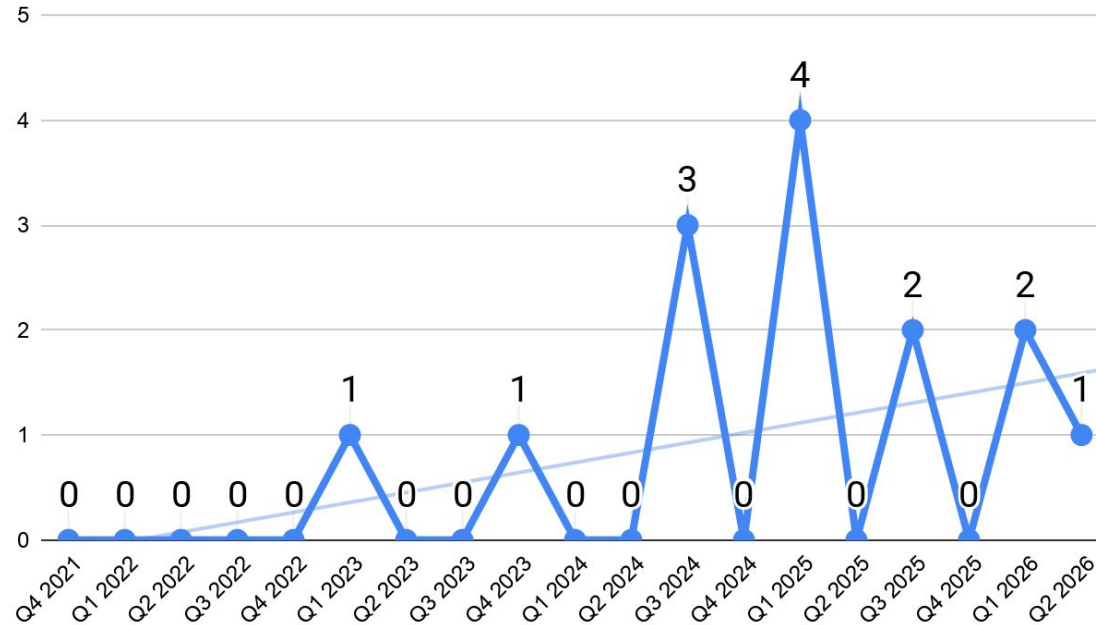


Counties:

- Baltimore City
- Frederick County
- St. Mary's County

Note: Data are preliminary and subject to change. Data as of 6/16/2026.

Mitragynine, OCT 2021 - JUNE 2026



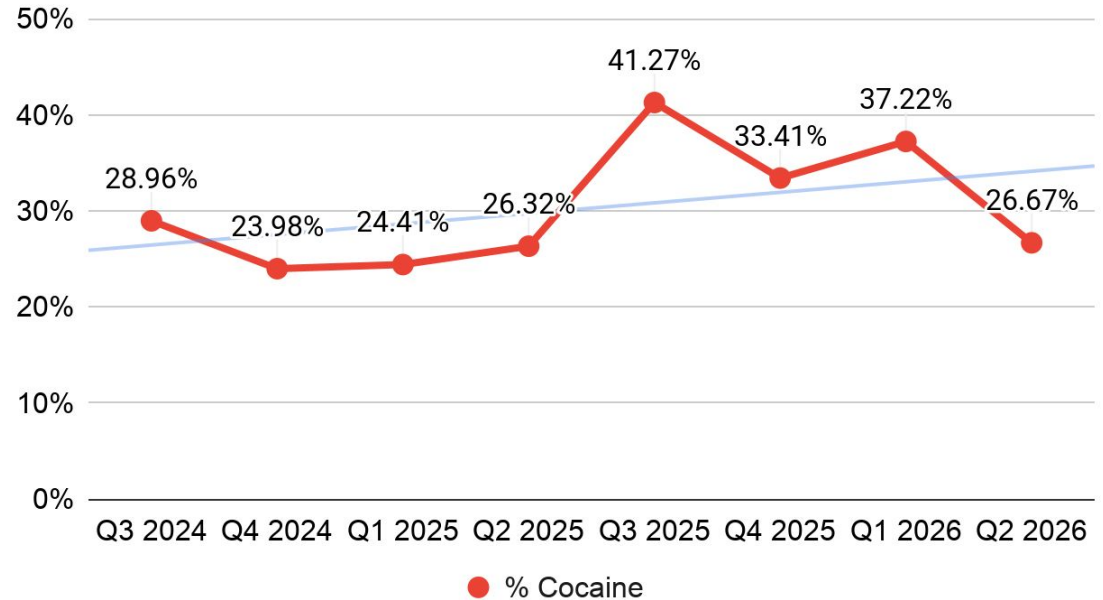
Counties:

- Baltimore Co
- Baltimore City
- Cecil County
- Frederick County
- St. Mary's County

Note: Data are preliminary and subject to change. Data as of 6/16/2026.

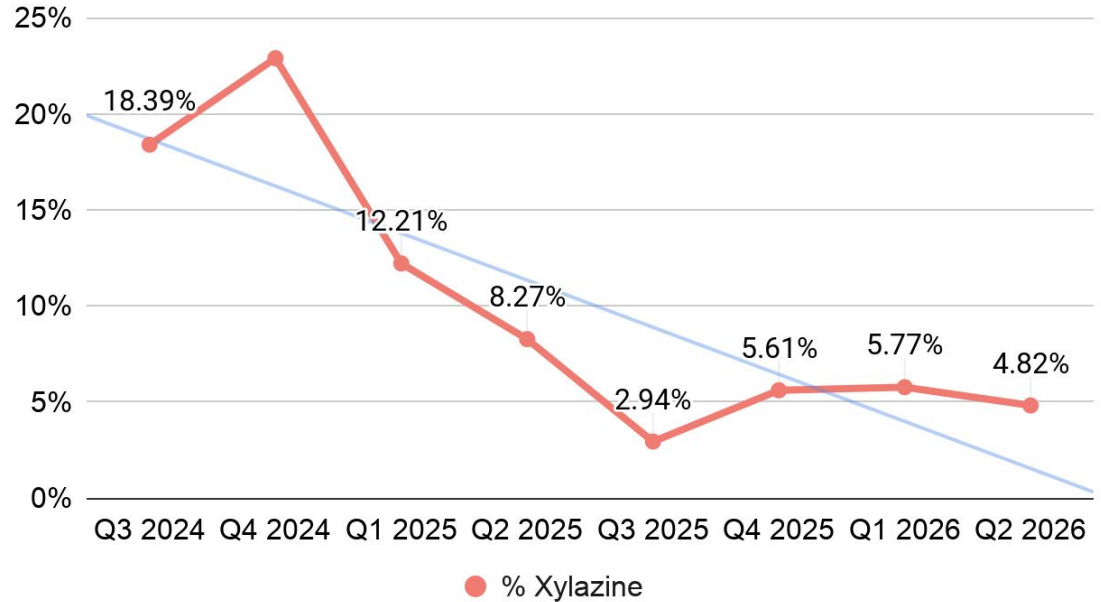
Samples Containing Cocaine

- Present in 26.67 % of samples (260 samples) so far in Q2 CY26
- 1.3% increase in prevalence between Q2 CY25 and Q2 CY26



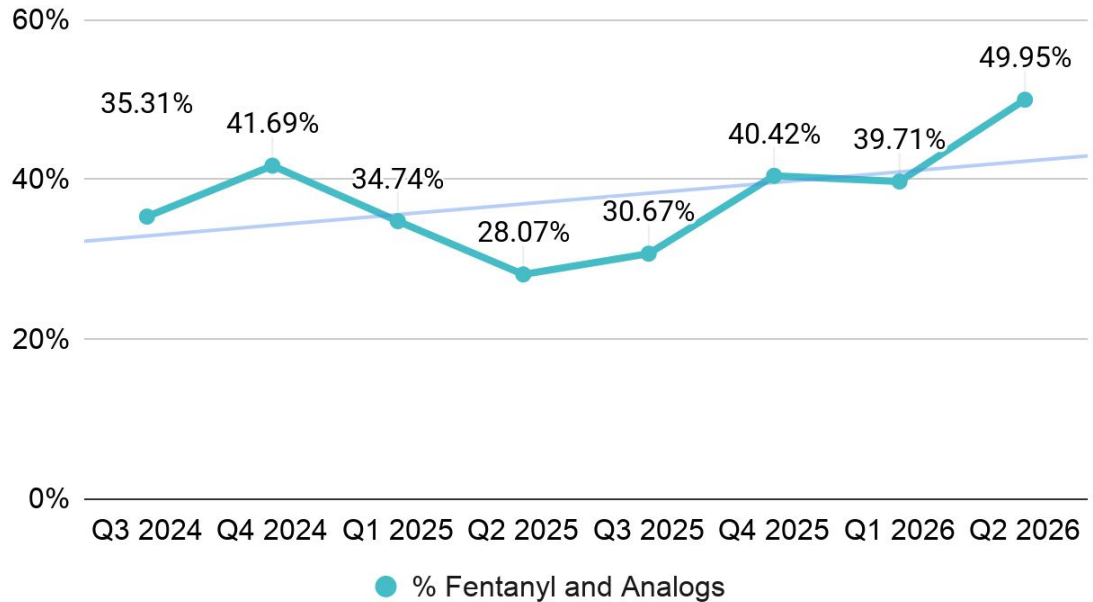
Samples Containing Xylazine

- Present in 4.82 % of samples (47 samples) so far in Q2 CY26
- 41.7% decrease in prevalence between Q2 CY25 and Q2 CY26



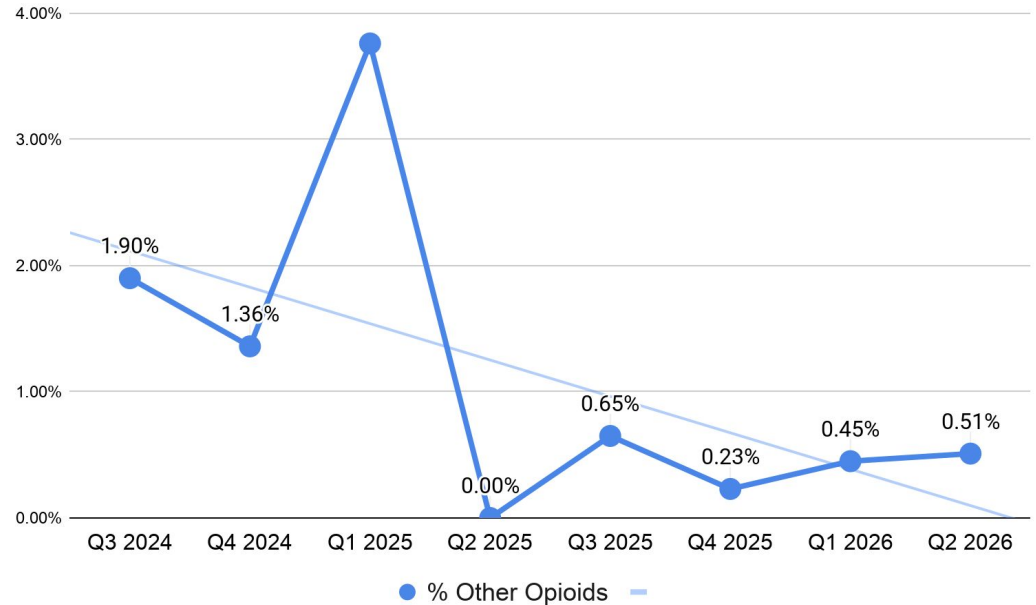
Samples Containing Fentanyl & Fentanyl Analogs

- Present in 49.95 % of samples (487 samples) so far in Q2 CY26
- 77.9 % increase in prevalence between Q2 CY25 and Q2 CY26



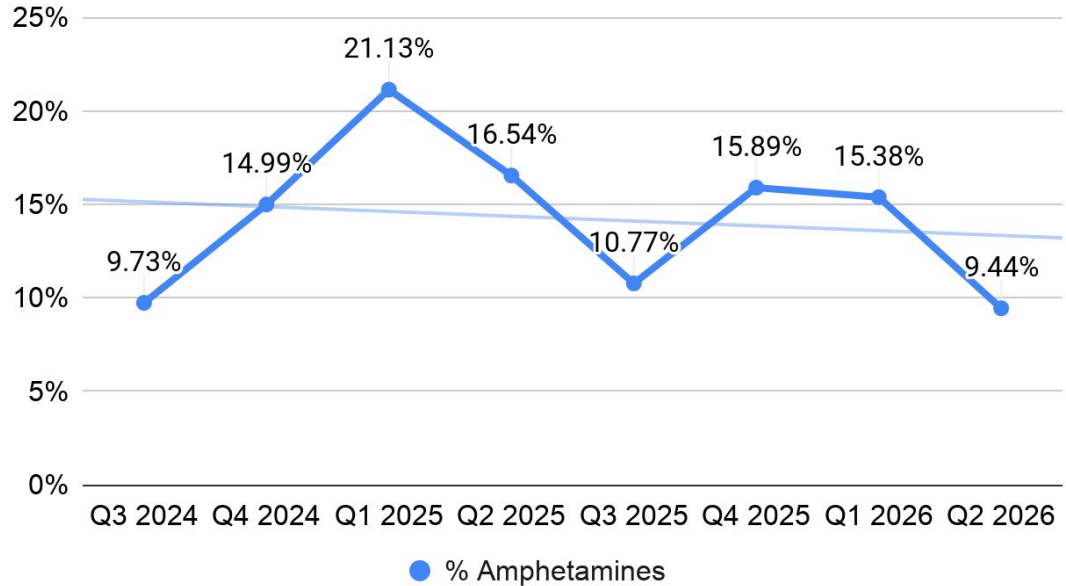
Samples Containing Other Opioids

- Present in 0.51 % of samples (5 samples) so far in Q2 CY26
- Was present in .45% of samples last quarter



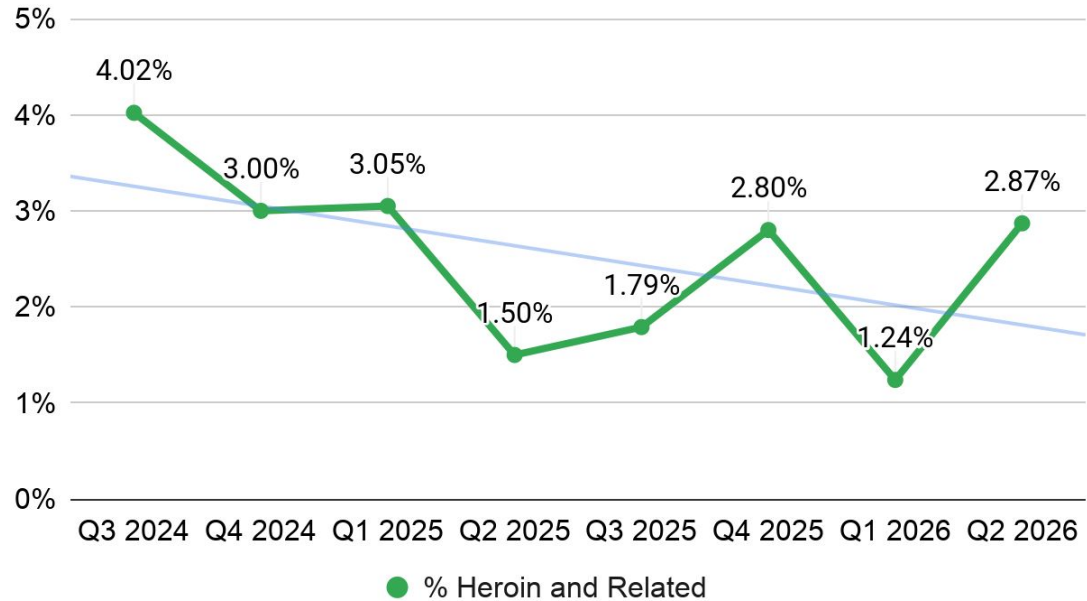
Samples Containing Amphetamines

- Present in 9.44 % of samples (92 samples) so far in Q2 CY26
- 42.9% decrease in prevalence between Q2 CY25 and Q2 CY26



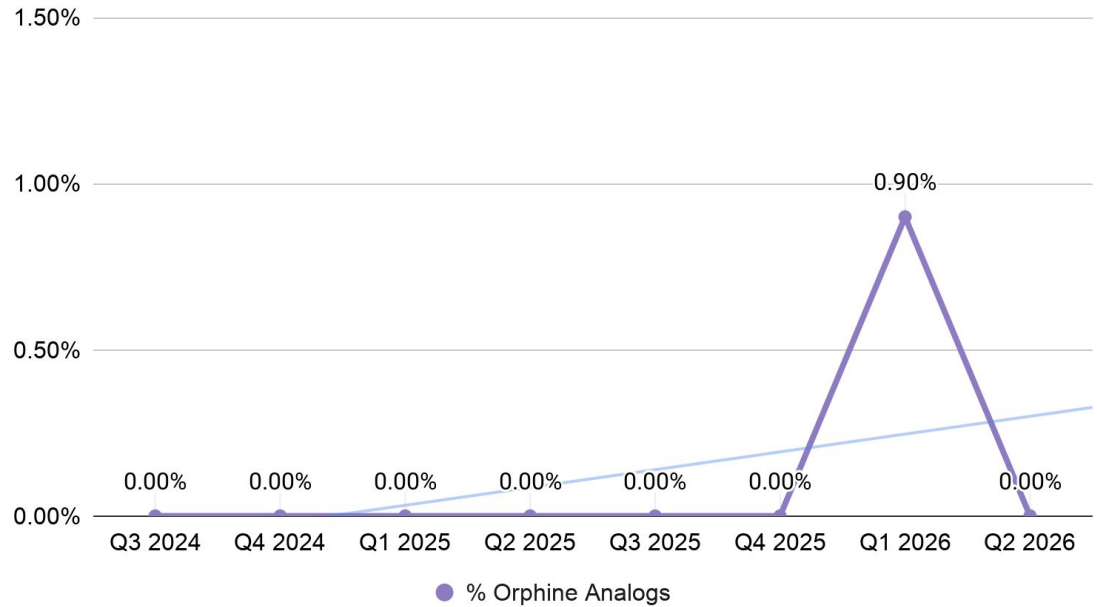
Samples Containing Heroin & Related Compounds

- Present in 2.87 % of samples (28 samples) so far in Q2 CY26
- 91.3% increase in prevalence between Q2 CY25 and Q2 CY26



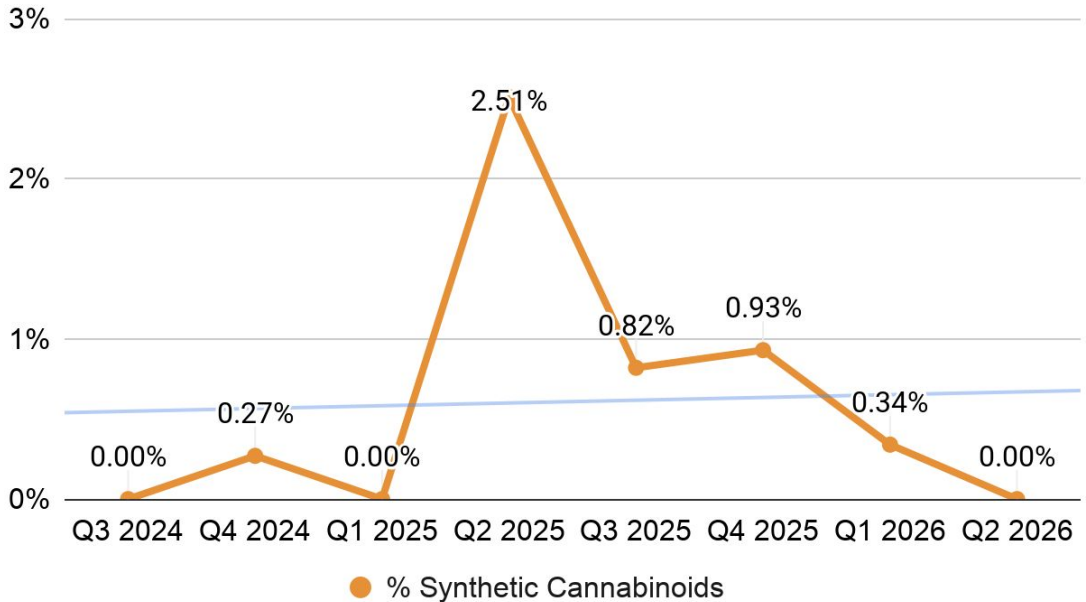
Samples Containing Orphine Analogs

- Present in 0% of samples so far in Q2 of CY 26.
- Was present in .90 percent of samples last quarter



Samples Containing Synthetic Cannabinoids

- Present in 0 % of samples so far in Q2 CY26
- Was present in .34% of samples last quarter.



Emerging Trends Discussion

Medetomidine

- Medetomidine has now been seen in 12 of the 15 RAD jurisdictions.
 - Cecil and Harford Counties have the largest impact
- Baltimore City, Harford, St. Mary's, and Wicomico Counties all saw an increase from [Q3 to Q4 of CY25](#).
- Continuing to rise statewide in Q1 and Q2 2026 - Allegany, Baltimore County, Baltimore City, Harford, Cecil, and Wicomico
- Encourage administration of naloxone and responding with rescuing breathing/ CPR.
- Philadelphia has published [comprehensive inpatient withdrawal management protocols](#) and [outpatient withdrawal management](#) for medetomidine.
- [Maryland Addiction Consultation Services \(MACS\) withdrawal one - pager](#)
- Palm Cards for PWUD ([English](#) and [Spanish](#))

Orphines

- Cychlorophine identified in 8 RAD samples - 2 from Baltimore City Programs in January, 1 in February from a Baltimore City program, 2 from Baltimore City programs in March and 3 from Calvert County in March.
 - In $\frac{5}{8}$ samples, cychlorophine was present alone.
 - No samples found in Q2
- Cychlorophine is a novel synthetic opioid that is more potent than fentanyl. (Also referred to as N-Propionitrile Chlorphine)
- It has been identified in NIST samples from the Appalachian Region. Other orphines have been seen across the country.
- Orphines are associated with an increased risk of overdose because of their potency, but naloxone should still be administered.
- [CFSRE resource](#)

Synthetic Cannabinoids

- Common names: K2, spice
- Preliminary data from other fatal and non-fatal overdose sources has show an increased risk among individuals in carceral settings.
- RAD sees a very low prevalence in synthetic cannabinoids. In Q1 2026, 3 samples contained a synthetic cannabinoid, making up 0.34% of samples.
 - Charles and Frederick Counties
- Are you hearing anything about prevalence increases in the street drug supply?

Synthetic Cannabinoids - Resources

[Maryland Addiction Consultation Services](#)

[Nevada Opioid Center for Excellence](#)

[New York State Department of Health](#)

[New York City Health](#)

Other Trends

- **Local Anesthetics** - [Anesthetics](#) are most commonly seen in combination with fentanyl and sedatives (medetomidine / xylazine). Associated with [increased risk of seizures](#).
- **Kratom/ Mitragynine** - regulated in MD. Seen in 11 samples from 5 jurisdictions (Baltimore County, Baltimore City, Cecil, Frederick, and St. Mary's). Most reported they were purchased in WV. 9 out of 11 were kratom alone, about half were 7-OH.
- **Carfentanil** - found in 5 RAD samples (4 Baltimore City, 1 Cecil), all from [2025](#). No samples in 2026.

**Have you heard of any other
emerging trends?**

Program Report Out

How are things going?

How is testing going?

- Any new barriers?
- Any new successes?
- How can we support?

NIST Updates

NIST Updates

- Do not mail equipment
- Avoid swabbing blood or other biohazards
- Reach out to NIST if you are interested in quantitative sampling
- NIST can pay for overnight/rush shipping for priority samples when needed - ***reach out to NIST directly (radar@nist.gov) and copy Maggie***

Updates and Reminders

Materials from Calls

- Materials from [September Training](#) can be found here.
- Materials from collaborative calls can be found in the folder corresponding to the meeting date [here](#).
- Here is the link to the [RAD submission Cognito form](#).
- Law enforcement [memo](#)
- [RAD Flyer](#)
- [Maryland OADPOP Law Fact Sheet](#)

Complete Cognito Webform

- The [Cognito web form](#) must be completed for EVERY sample **before** the sample is mailed.
- If a webform is not completed for a sample, you will receive an email - ***please stay alert to emails!***

Requesting Supplies

- Supply requests go directly to NIST.
- The link for the supply request is:
forms.gle/FHUxCT8GwrZhkWcw5

If you are running low on mailing envelopes, mail Maggie
(margaret.rybak@maryland.gov)

RAD Public Dashboard



Overdose Data Portal

Data as of: 3/27/2026 (Data to be updated monthly)

Rapid Analysis Of Drugs (RAD)

This dashboard shows drug checking results from Maryland's [Rapid Analysis of Drugs Program \(RAD\)](#) From October 2021 to date. RAD is a statewide drug checking program available to Maryland [Opioid Associated Disease Prevention and Outreach Programs \(OADPOP\)](#) participants. Routinely returned equipment are sampled at OADPOPs and samples are submitted to the National Institute of Standards and Technology (NIST), Rapid Drug Analysis and Research (RaDAR) Program for testing using Direct Analysis in Real Time Mass Spectrometry (DART-MS) technology. RAD gives us near real time insight to the drug supply in MD, but is not fully representative. RAD is completely voluntary for OADPOPs and their participants, making it a convenient sample. No personally identifiable information is collected, therefore we do not know how many individuals account for the sample size. Data will be updated monthly. Data are preliminary, subject to change, and subject to laboratory and reporting delays. The county shows where the sampling OADPOP is located and is not necessarily where the person lives or purchased the substance. Click the "About Data" tab to learn more.



Fatal
Overdose

Current Overview

Historic Trends



Overdose
ED Visits



EMS Naloxone
Administrator



Overdose
Prevention

Overdose
Response Program

Rapid Analysis
of Drugs

[Take a look!](#)
bit.ly/mdhdashboard

Scan to view



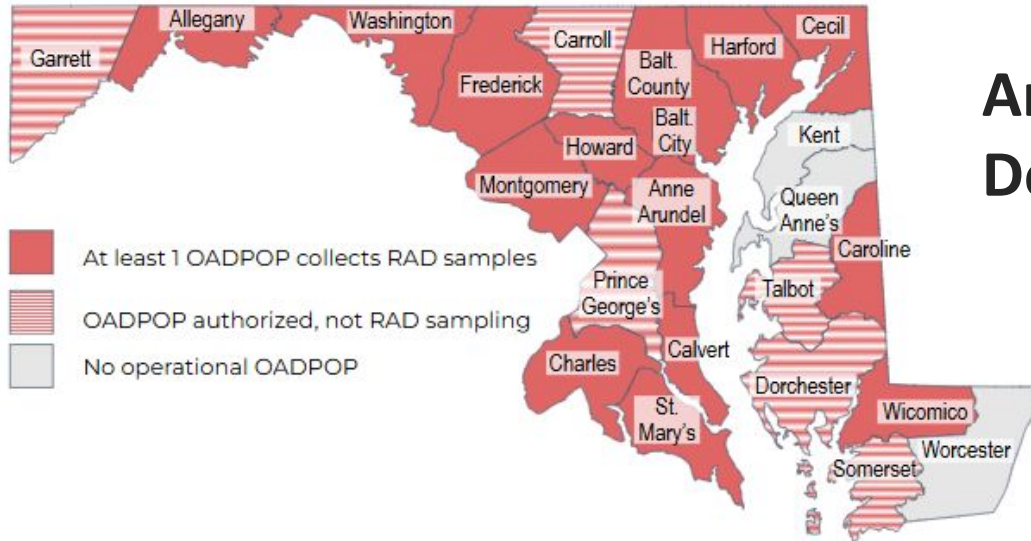
RAD Data/Publication Updates

- [Public overdose dashboard](#)
- [RAD CY2026 Q1 Newsletter](#) - NEW!
- [NIST May Newsletter](#) - NEW!

- [JHU RAD Intent to Purchase Paper](#)
- [RAD Impacts Paper](#) - Journal of Harm Reduction

Want to get started?

- If you are an OADPOP not currently sampling for RAD and you want to get involved, please reach out to Maggie



Anne Arundel County Health Department began testing!

Future Collaborative Call Schedule

The next call will be Wednesday, August 19th, 2026 @ 11AM

OPE Contacts

Maggie Rybak - margaret.rybak@maryland.gov (programmatic)

Janelle Acevedo Hodgson - janelle.hodgson@maryland.gov (data)

Thank you! We appreciate you!