Oregon EMS & Trauma Systems

Using Data to Support Overdose Response & Prevention Monday, June 17, 2024



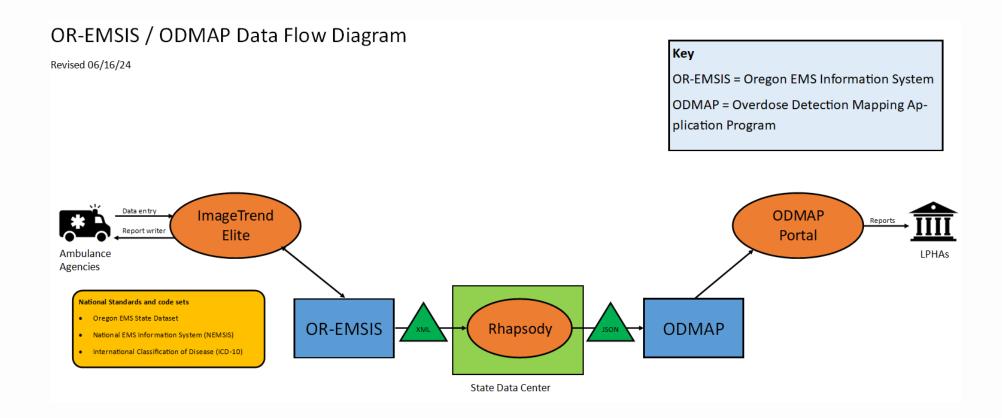
PUBLIC HEALTH DIVISION EMS and Trauma Systems

OR-EMSIS / ODMAP Integration

- The ODMAP Integration will utilize a VPN tunnel to securely send ePCR data to the Rhapsody integration engine in the state data center.
- When Rhapsody receives a record from OR-EMSIS it will be:
 - filtered to identify OD related events,
 - geocoded, and
 - transformed to create the ODMAP file
- Data is then posted to the ODMAP API which will ingest it into their database where it can be accessed by authorized personnel through a web portal



OR-EMSIS / ODMAP Integration







Rhapsody Integration Engine

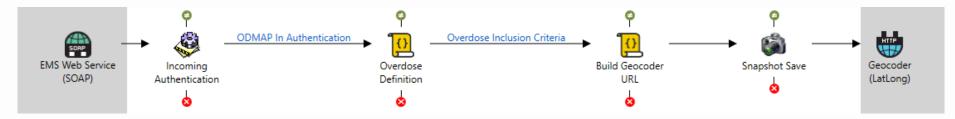
- The Rhapsody Integration Engine is a trusted application for configuring, maintaining and monitoring performance of data integrations.
- Supports a wide range of communication protocols, data types, and transformations.
- Widely used in healthcare settings with sensitive data.
- Securely hosted in the state data center.

RHAPSODY



Rhapsody Integration Engine

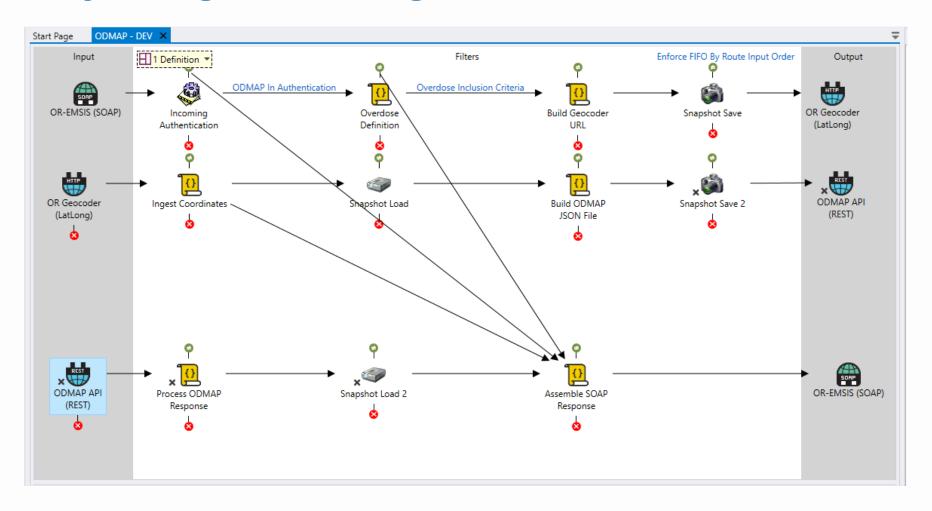
- Rhapsody provides you with a palette on which you construct a "route."
- Think of this a pipeline from the source to the destination.
- Made up of communication points on either end.
- In between there are "filters" that perform operations on the "message"
- Connected by arrows that indicate information flow
- Conditional filters are implemented as arrows shown here with words above them



PUBLIC HEALTH DIVISION EMS and Trauma Systems



Rhapsody Integration Engine



PUBLIC HEALTH DIVISION EMS and Trauma Systems



Overdose Definition

The overdose definition draws on a number of fields in the ePCR to identify EMS calls related to an overdose:

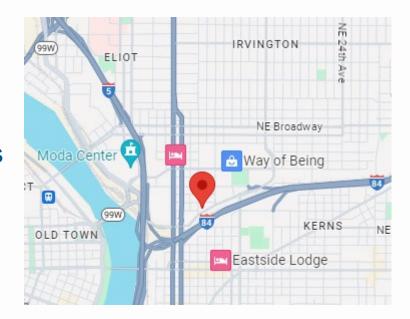
- Provider impressions and symptoms
- Complaint
- Medication administered and medication response
- Narrative

Outputs an indicator of an overdose related record and then filters before passing on through the route.



Geocoding

- We need to take address elements from the ePCR and turn them into coordinates to plot on a map.
- The Oregon Address Geocode Locator is an API (Application Programming Interface) that provides this service
 - You send a query in the form of a web address
 - It returns a JSON message with the coordinates of that address







Geocoding

- We have to be careful to avoid disclosing information that individually identifies a patient
- To protect patient confidentiality, we round the coordinates
- A population density lookup table is housed in Rhapsody
- Zip code level population density is used to tune how many decimal places to round to
- The resulting map location indicates an area populated by no less than k individuals on average
- For very low population density zip codes we use the center point of the zip code tabulation area



ODMAP API

- Once we have the rounded coordinates we can assemble the outgoing JSON message
- This requires transformation of many different fields from the ePCR
- Message will contain:
 - Incident Type
 - Lat & Long
 - Incident Date Time & Time Zone
 - Is Multiple Victim
 - Taken to Hospital
 - Naloxone Administered by



ODMAP Integration

Project Status

- Route components have been built
- Working with OIS to establish connectivity from OR-EMSIS into Rhapsody through VPN tunnel
- Troubleshooting connectivity with the ODMAP API
- Next steps:
 - Testing
 - Migration to production



Questions?



Oregon EMS & Trauma Systems Program EMS.Trauma@odhsoha.oregon.gov



PUBLIC HEALTH DIVISION EMS and Trauma Systems





ODMAP and the Overdose Response Strategy

Isabelle Cisco, Oregon Joe DelGreco, Oregon

Speakers

Isabelle Cisco, Oregon

Public Health Analyst
Overdose Response Strategy
icisco@cdcfoundation.org
404-242-1426

Joe DelGreco, Oregon

Overdose Response Strategy

joseph.delgreco@dpsst.oregon.gov

503-798-7950

Federal Acknowledgement

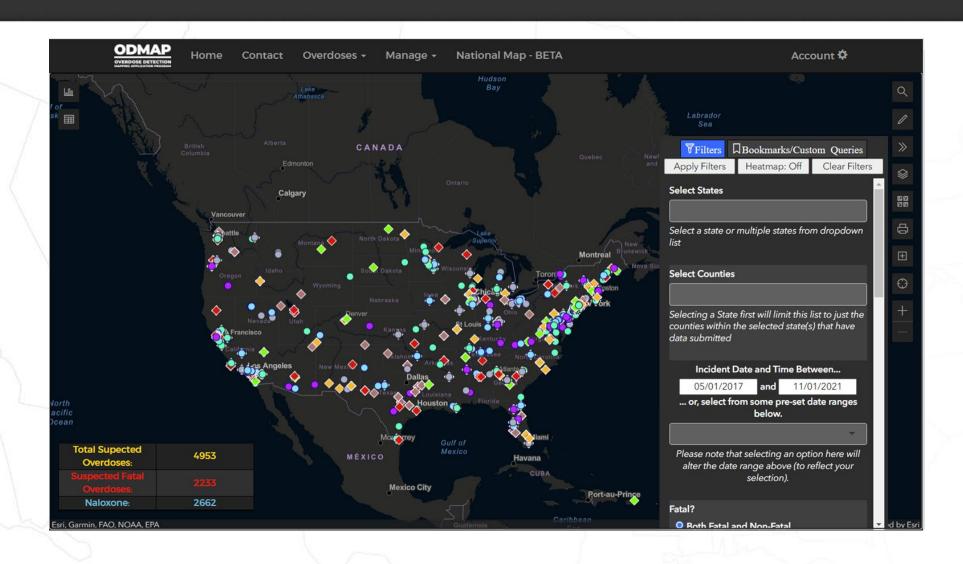
This presentation is supported by the Centers for Disease Control and Prevention (CDC) of the U.S. Department of Health and Human Services (HHS) as part of a financial assistance award totaling \$8,400,000 with 100 percent funded by CDC/HHS. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by CDC/HHS, or the U.S. Government.

ODMAP Tools

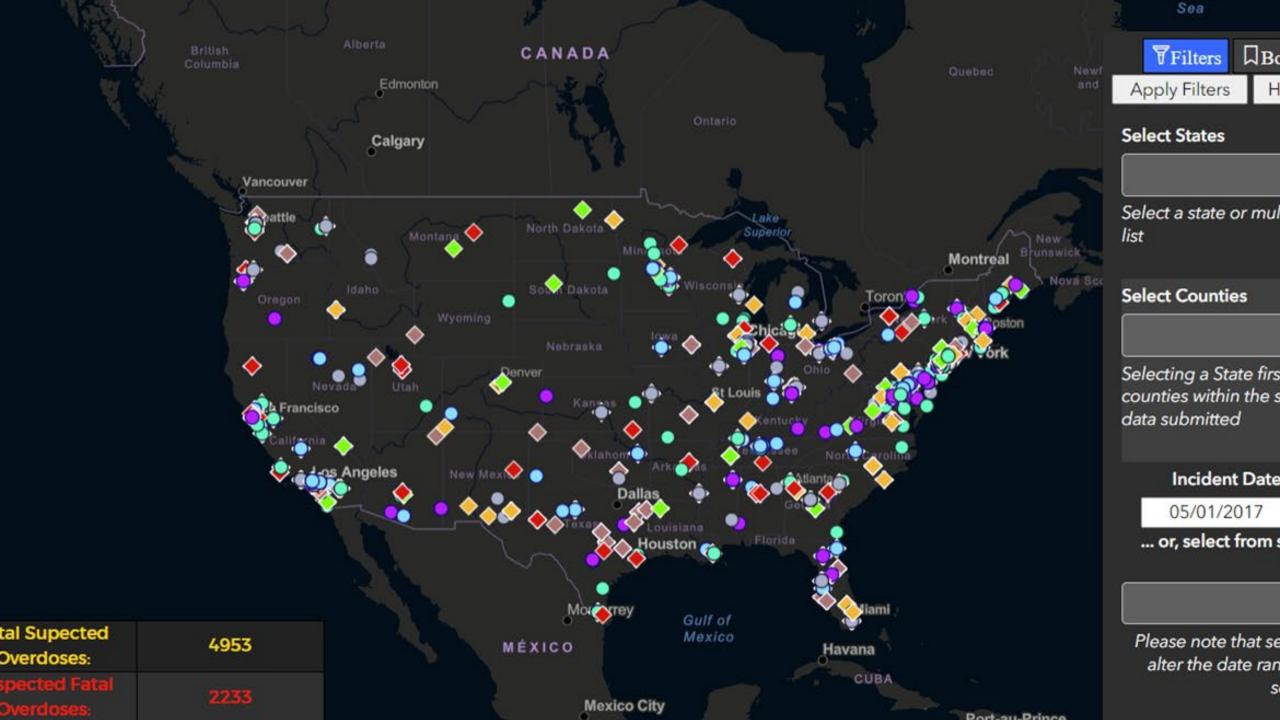
The National Map and Spike Alerts



National Map and Its Features



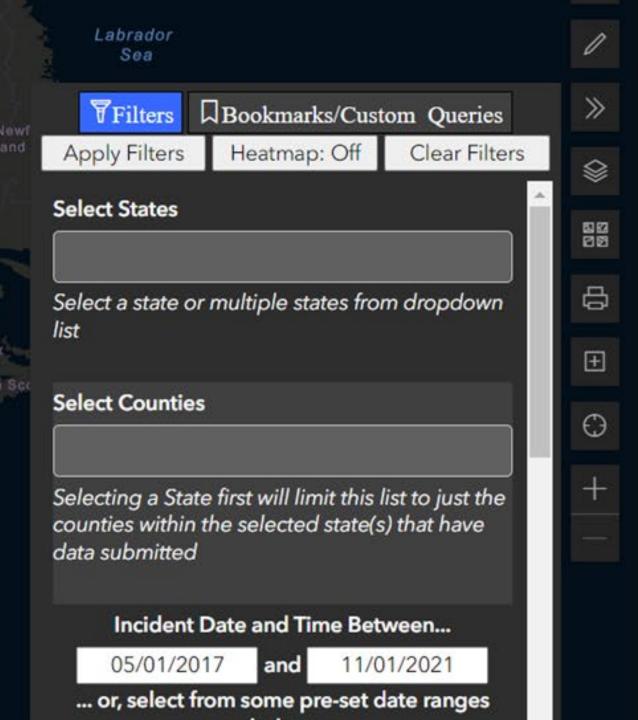




Default 24-hour Summary Statistics







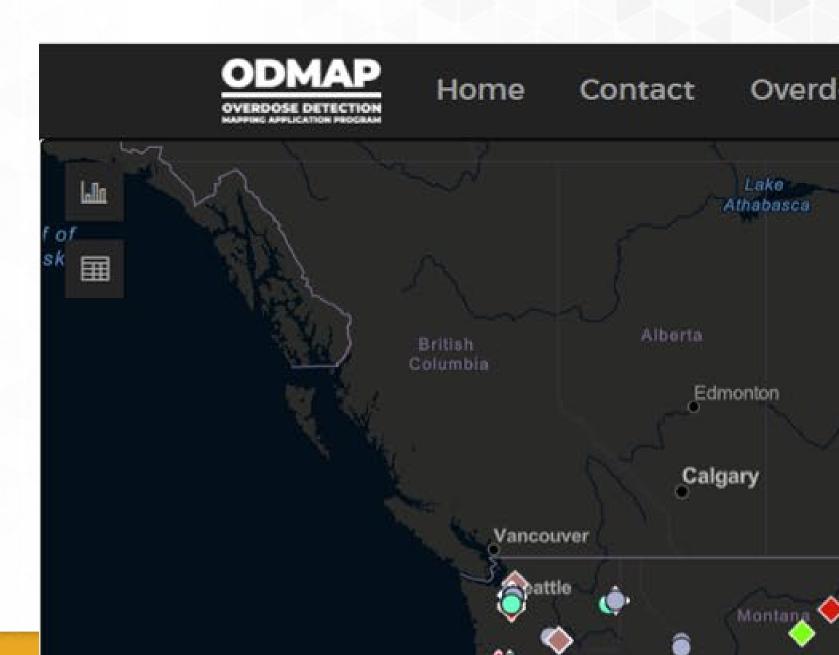
Built-in filters to do deep dives into ODMAP data, including:

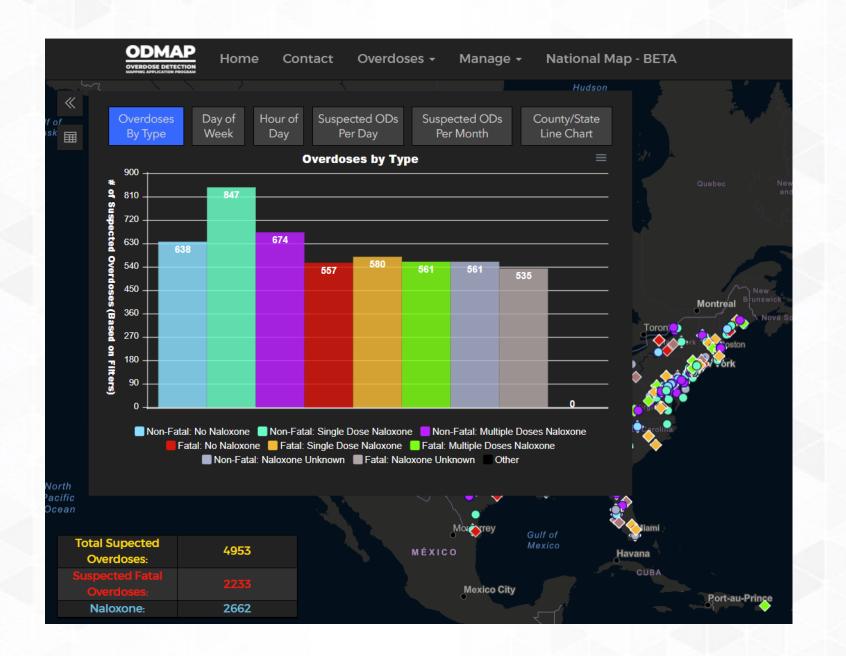
- Dates
- Location
- Type of drug



Built-in charts, including:

- Outcome
- By Day/Month
- County/LineComparison Chart





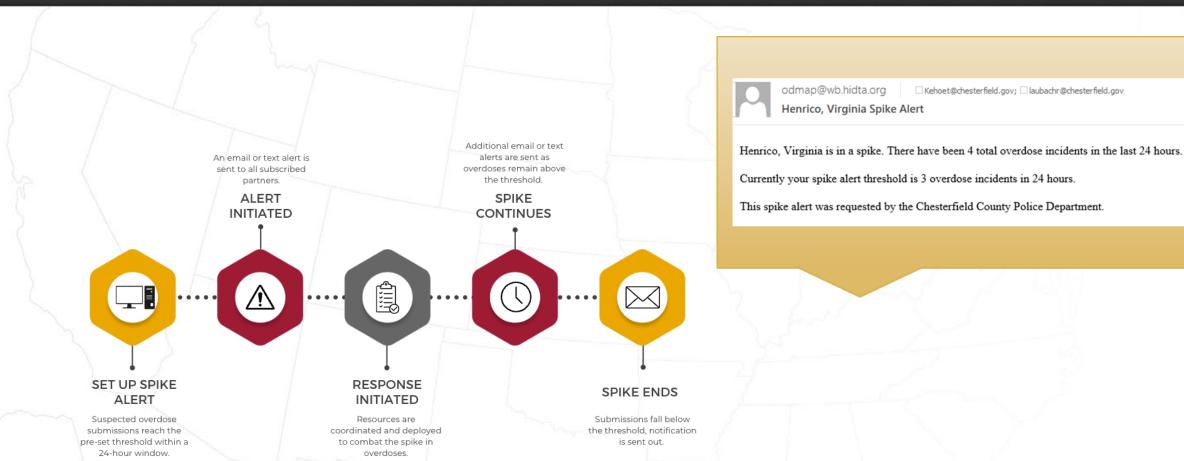


ODMAP Features

- ODMAP National Map
 - Cross jurisdiction suspected event information
 - Filters
 - Heat maps
 - Charts
- Spike, Overdose, and Statewide Alerts
- Adding personal data and Esri web layers
- Multiple agencies providing data for areas, capturing more suspected events



Spike Alerts





ODMAP Demo



Questions?

Thank you for attending the ODMAP presentation

ODMAP Program Manager, Ali Burrell, aburrell@wb.hidta.org

PHA: Isabell Cisco, <u>icisco@cdcfoundation.org</u>, 404-242-1426 DIO: Joseph DelGreco, <u>joseph.delgreco@dpsst.oregon.gov</u>, 503-798-7950

